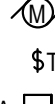
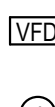
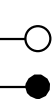
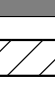
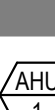
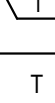
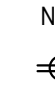
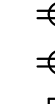
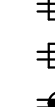
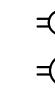
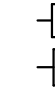
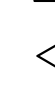
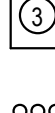
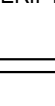
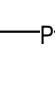
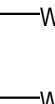
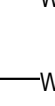
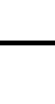






[illegible]

| POWER DISTRIBUTION                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | MOTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                              | MANUAL MOTOR SWITCH WITH THERMAL OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                              | NON FUSED DISCONNECT SWITCH (AMPERE RATING SHOWN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                              | FUSED DISCONNECT SWITCH (AMPERE RATING SHOWN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                              | ENCLOSED CIRCUIT BREAKER (AMPERE RATING SHOWN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                              | MAGNETIC MOTOR STARTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                              | COMBINATION MAGNETIC MOTOR STARTER DISCONNECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                              | VARIABLE FREQUENCY DRIVE (COORDINATE WITH PANEL FOR ELECTRICAL CONNECTIONS)<br>(REFER TO SPECIFICATIONS FOR HUB AND STARTER REQUIREMENTS)                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                              | JUNCTION BOX OR DIRECT CONNECTION POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                              | EMERGENCY POWER OFF STATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                              | INDICATES CONDUIT UP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                              | INDICATES CONDUIT DOWN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                              | CONCEALED CONDUIT / WIRING IN OR UNDER FLOOR SLAB OR RAISED FLOOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                              | FLEXIBLE METAL CONDUIT OR CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                              | HOMERUN TO PANEL "LH1," CIRCUITS 1 AND 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                              | SURFACE MOUNTED 208 / 120V PANEL BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                              | SURFACE MOUNTED 208 / 277V PANEL BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                              | FLUSH MOUNTED 208 / 120V PANEL BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                              | FLUSH MOUNTED 480 / 277V PANEL BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                              | POWERED MECHANICAL EQUIPMENT TAG FOR ELECTRICAL CONNECTION. SEE POWERED MECHANICAL EQUIPMENT SCHEDULE AND DISTRIBUTION SCHEDULES.                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                              | TRANSFORMER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ELECTRICAL OUTLETS                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CENTERLINE 18" AFF EXCEPT AS NOTED. REFER TO SPECIFICATIONS FOR MANUFACTURER AND CATALOG NUMBER. NUMBER INDICATES BRANCH CIRCUIT DESIGNATION. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                              | OUTLET DESIGNATION<br>18 RECEPTACLE MOUNTED HIGHER THAN STANDARD 18" AFF<br>18 RECEPTACLE PROTECTED WITH GROUND FAULT CIRCUIT BREAKER<br>18 RECEPTACLE, ISOLATED GROUND<br>18 RECEPTACLE WITH SURGE PROTECTION<br>TR RECEPTACLE, TAMPER RESISTANT<br>18 RECEPTACLE, EXPLOSION PROOF<br>P RECEPTACLE, PEDESTAL MOUNTED<br>18 RECEPTACLE, WEATHER-RESISTANT TYPE IN WEATHER PROOF IN USE ENCLOSURE<br>UF RECEPTACLE, UNDER FLOOR                                                                                                                      |
|                                                              | CEILING MOUNTED RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                              | FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                              | FLUSH FLOOR BOX WITH QUADRUPLUX RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                              | STANDARD DUPLEX RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                             | STANDARD QUADRUPLUX RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                            | GFCI DUPLEX RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | GFCI QUADRUPLUX RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                            | DUPLEX RECEPTACLE WITH INTEGRAL USB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            | DUPLEX RECEPTACLE - ONE OUTLET SWITCHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                            | DUPLEX RECEPTACLE - ALL OUTLETS SWITCHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                            | QUAD RECEPTACLE - ONE DUPLEX SWITCHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | QUAD RECEPTACLE - ALL OUTLETS SWITCHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            | SIMPLEX SINGLE RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                            | USB ONLY RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                            | RECESSED CLOCK RECEPTACLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                            | HEAVY DUTY NEMA STRAIGHT BLADE RECEPTACLE. SEE SCHEDULE FOR TYPES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                            | HEAVY DUTY NEMA TWIST LOCK RECEPTACLE. SEE SCHEDULE FOR TYPES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                            | AV FLAT PANEL DISPLAY WALL BOX WITH POWER, TELECOM AND/OR AV CONNECTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                            | FLUSH WALL MOUNTED JUNCTION BOX WITH CONDUIT OPENINGS FOR FURNITURE FEED WHIPS (POWER AND TELECOM)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                            | SINGLE POINT OUTLET: "D" DATA OUTLET, "T" TELEPHONE OUTLET, "P" FIRE FIGHTERS CALL STATION, "CATV" CABLE TV OUTLET, "AV" AV OUTLET<br>CONDUIT/BOX REQUIREMENTS (UNLESS OTHERWISE NOTED)<br>"D" 1" CONDUIT, 1-GANG BACKBOX<br>"T" 1" CONDUIT, 1-GANG BACKBOX<br>"P" 1" CONDUIT, 1-GANG BACKBOX<br>"CATV" 1 1/2" CONDUIT, 2-GANG BACKBOX WITH 1-GANG REDUCER<br>"AV" COORDINATE WITH AV CONTRACTOR REQUIREMENTS                                                                                                                                       |
|                                                            | COMBINATION TELECOMM/DATA OUTLET<br>CONDUIT/BOX REQUIREMENTS (UNLESS OTHERWISE NOTED)<br>1 1/2" CONDUIT, 2-GANG BACKBOX WITH 1-GANG REDUCER                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                            | OVERHEAD POWER CONNECTION RECEPTACLE AND EXTENSION ARM. HUBBELL HB41012020 EXTENSION CORD REEL, 45 FT 12 GAUGE NEMA 2-0 RECEPTACLE OR APPROVED EQUAL                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                            | CEILING MOUNTED OR ABOVE CEILING MOUNTED MONITOR DISPLAY OR PROJECTOR BOX WITH POWER, TELECOM AND/OR AV CONNECTIVITY                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                            | FLUSH FLOOR BOX ASSEMBLY WITH CONDUIT OPENINGS FOR FURNITURE FEEDS (POWER TELECOM AND AV) COORDINATE COLOR WITH ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                            | FLUSH FLOOR BOX WITH QUAD RECEPTACLE. PROVISIONS FOR TEL.COM OUTLETS COORDINATE COLOR WITH ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                            | FLUSH FLOOR BOX WITH QUAD RECEPTACLE. PROVISIONS FOR VOICE / DATA AND AV OUTLETS COORDINATE COLOR WITH ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                            | CONDUIT STUB-UPS INTO TABLE LEGS FOR POWER, VIDEO/DATA AND AV. DATA AND AV CONDUIT SHALL RUN IN CLEANS SPACE OF FLOOR BELOW TO BEHIND WALL MOUNTED DISPLAY. POWER SHALL RUN TO NEAREST WALL AND EXTEND TO JUNCTION BOX OR PANELBOARD. NOTES: PROVIDE 3/4" CONDUIT FOR POWER, 1/2" CONDUIT FOR VIDEO/DATA AND 1/2" CONDUIT FOR AV. SIZE OF HOLE SHALL BE BASED ON PREPARED MANUFACTURERS INSTRUCTIONS AND UL GUIDELINES. PROVIDE PROTECTIVE BUSHING AT EACH END OF CONDUIT AND INTERIOR PREPADDING MATERIAL AT THE TOP OF CONDUITS ABOVE PENETRATION |
|                                                            | 1" FLUSH POKE THRU ASSEMBLY WITH CONDUIT OPENINGS FOR FURNITURE FEEDS (POWER TELECOM AND AV) COORDINATE COLOR WITH ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                            | 1" FLUSH POKE THRU ASSEMBLY WITH SURFACE MOUNTED QUAD RECEPTACLE AND PROVISIONS FOR TEL.COM CONNECTIVITY (COORDINATE COLOR WITH ARCHITECT).                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                            | 1" FLUSH POKE THRU ASSEMBLY WITH RECESSED RECEPTACLE, AND PROVISIONS FOR TEL.COM CONNECTIVITY (COORDINATE COLOR WITH ARCHITECT).                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                            | 2" LARGE CAPACITY FLUSH POKE THRU ASSEMBLY WITH CONDUIT OPENINGS FOR FURNITURE FEEDS (POWER TELECOM AND AV) COORDINATE COLOR WITH ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                            | 2" LARGE CAPACITY FLUSH POKE THRU ASSEMBLY WITH QUAD RECEPTACLE AND PROVISIONS FOR TEL.COM CONNECTIVITY (COORDINATE COLOR WITH ARCHITECT).                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                            | 2" LARGE CAPACITY FLUSH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| LUMINAIRES                                                                          |                                                                                    |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|    | 1X4 RECESSED TROFFER                                                               |
|    | 2X4 RECESSED TROFFER                                                               |
|    | 2X2 RECESSED TROFFER                                                               |
|    | 1X4 INDUSTRIAL STRIP LIGHT LUMINAIRE                                               |
|    | RECESSED OR PENDANT DOWN LIGHT                                                     |
|    | RECESSED WALL WASH LUMINAIRE                                                       |
|    | WALL MOUNTED LUMINAIRE                                                             |
|    | PENDANT LUMINAIRE                                                                  |
|    | TRACK LIGHTING                                                                     |
|    | ELU REMOTE BATTERY BACK UP                                                         |
|    | BATTERY BACK UP ELU                                                                |
|    | REMOTE BATTERY BACK UP ELU                                                         |
|    | WALL MOUNTED EXIT SIGN<br>ARROW DESIGNATES DIRECTION                               |
|    | CEILING MOUNTED EXIT SIGN<br>ARROW DESIGNATES DIRECTION                            |
| SINGLE LINE DIAGRAM                                                                 |                                                                                    |
|    | GENERATOR                                                                          |
|    | TRANSFORMER                                                                        |
|    | AF - INDICATES AMPERE FRAME<br>AT - INDICATES AMP THIP<br>DRAW-OUT CIRCUIT BREAKER |
|    | CIRCUIT BREAKER:<br>1P SINGLE POLE<br>2P TWO POLE<br>3P THREE POLE                 |
|    | CIRCUIT BREAKER WITH<br>SHUNT TRIP                                                 |
|    | ENCLOSED CIRCUIT BREAKER                                                           |
|    | DISCONNECT SWITCH                                                                  |
|    | TRANSFER DEVICE FOR<br>DRAWOUT EQUIPMENT<br>NON-FUSED SWITCH                       |
|    | FUSE                                                                               |
|    | FUSED SWITCH OR<br>FUSED DISCONNECT                                                |
|    | LIGHTNING ARRESTOR                                                                 |
|    | CURRENT TRANSFORMER                                                                |
|   | POTENTIAL TRANSFORMER                                                              |
|  | POTENTIAL TRANSFORMER<br>WITH FUSE                                                 |
|  | DELTA CONNECTION                                                                   |
|  | OVERLOAD WYE CONNECTION                                                            |
|  | GROUNDED RELAY                                                                     |
|  | CONTACTOR                                                                          |
|  | RELAY                                                                              |
|  | ELECTRICALLY OPERATED                                                              |
|  | SOLENOID KEY OPERATED<br>RELEASE LINE                                              |
|  | POWER FACTOR CORRECTION<br>CAPACITOR                                               |
|  | SURGE PROTECTION DEVICE                                                            |
|  | INDICATING LAMP                                                                    |
|  | CONDUIT FEEDER IDENTIFICATION                                                      |
|  | DIGITAL MULTI-POUSE METER                                                          |
|  | AMMETER                                                                            |
|  | AMMETER SWITCH                                                                     |
|  | VOLTMETER                                                                          |
|  | VOLTMETER SWITCH                                                                   |
|  | KIRK KEY INTERLOCK                                                                 |
|  | WATTHOUR METER                                                                     |
|  | STOP BUTTON MOMENTARY<br>CONTACT                                                   |
|  | START BUTTON MOMENTARY<br>CONTACT                                                  |
|  | GROUND CONNECTION                                                                  |
|  | BATTERY                                                                            |
|  | NORMALLY OPEN CONTACT                                                              |
|  | NORMALLY CLOSED CONTACT                                                            |

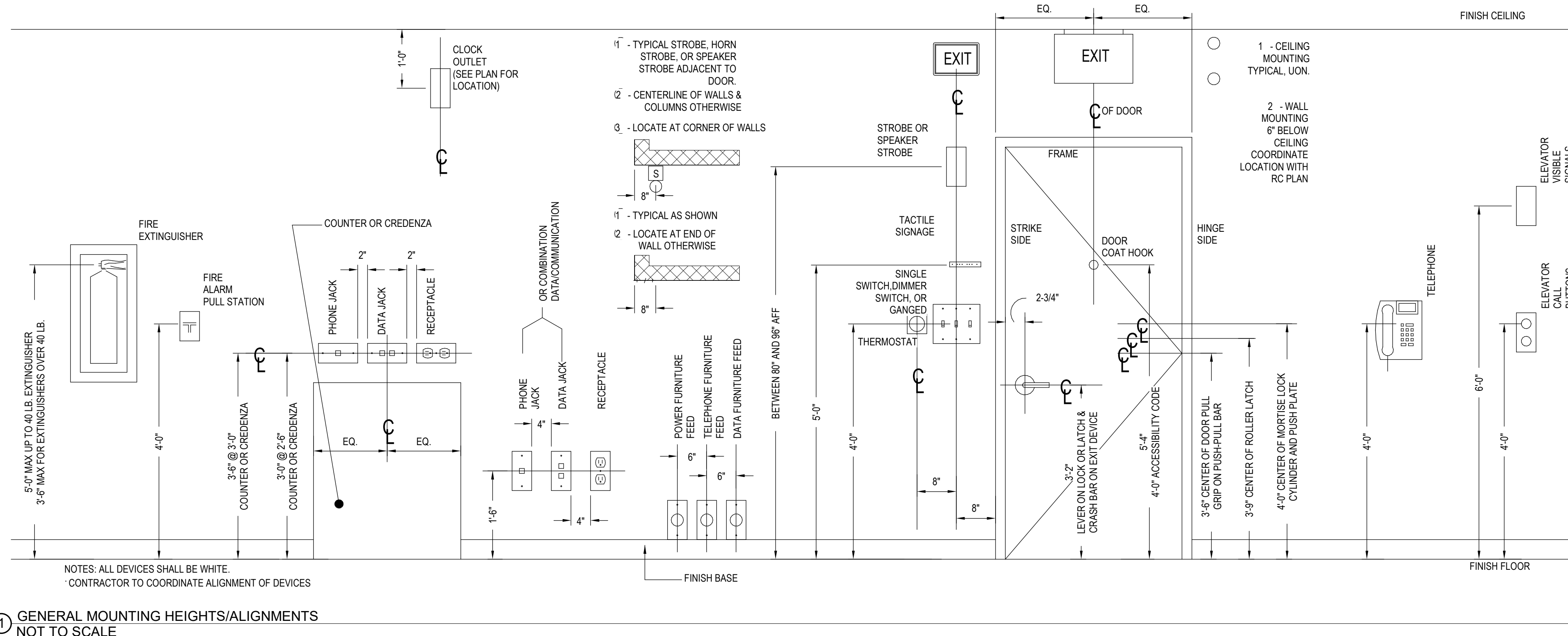
## LIGHTING CONTROLS

REFER TO SPECIFICATIONS FOR MANUFACTURER AND CATALOG NUMBERS

|              |                                                                                                                                                                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>\$s</b>   | SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.                                                                                                                                                                                                                                                              |
| <b>\$a</b>   | TWO POLE SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.                                                                                                                                                                                                                                                                 |
| <b>\$u</b>   | THREE WAY SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.                                                                                                                                                                                                                                                                |
| <b>\$u</b>   | FOUR WAY SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.                                                                                                                                                                                                                                                                 |
| <b>\$u</b>   | WALL MTD. DIMMER SWITCH/CONTROLLER, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.                                                                                                                                                                                                                                              |
| <b>\$KS</b>  | KEY OPERATED SWITCH                                                                                                                                                                                                                                                                                                                 |
| <b>\$LV</b>  | LOW VOLTAGE LIGHTING CONTROL SWITCH                                                                                                                                                                                                                                                                                                 |
| <b>\$OR</b>  | WALL MTD. LIGHTING CONTROL SWITCH FOR LIGHTING CONTROL ZONE OVERRIDE.                                                                                                                                                                                                                                                               |
| <b>\$OS</b>  | WALL MTD. OCCUPANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V                                                                                                                                                                                                                                                    |
| <b>\$OS2</b> | WALL MTD. OCCUPANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 2-POLE, 277/120V                                                                                                                                                                                                                                                    |
| <b>\$OS3</b> | WALL MTD. OCCUPANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V, 0-10 DIMMING                                                                                                                                                                                                                                      |
| <b>\$PE</b>  | PHOTO CONTROL SWITCH, WEATHER PROOF, PASSIVE INFRARED                                                                                                                                                                                                                                                                               |
| <b>\$PL</b>  | WALL SWITCH WITH PILOT LIGHT                                                                                                                                                                                                                                                                                                        |
| <b>\$SS</b>  | WALL MTD., LOW VOLTAGE LIGHTING CONTROL SWITCH FOR SCENE SELECTION, PROVIDE WITH FIRE (B) SCENE SELECTIONS AND RAISE + LOWER                                                                                                                                                                                                        |
| <b>\$TS</b>  | LINE SWITCH WITH OPTICAL CATCHDOWN AND VISUAL WARNING/ 277/120V                                                                                                                                                                                                                                                                     |
| <b>\$VS2</b> | WALL MTD. VACANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V                                                                                                                                                                                                                                                      |
| <b>\$VS2</b> | WALL MTD. VACANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 2-POLE, 277/120V                                                                                                                                                                                                                                                      |
| <b>\$VS3</b> | WALL MTD. VACANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V, 0-10 DIMMING                                                                                                                                                                                                                                        |
| <b>\$L</b>   | LIGHTING CONTROL SEQUENCE OF OPERATION TYPE                                                                                                                                                                                                                                                                                         |
| <b>1C</b>    | MULTI-ZONE PRESET SCENE CONTROLLER / DIMMER WITH USER PROGRAMMABLE SCENE AND SCENE NAMES, TEMPORARY LOCAL OVERRIDES, INDIVIDUAL RAISE + LOWER BUTTONS TO ALLOW ZONES TO BE ADJUSTED WITHOUT ALTERING SCENE VALUES STORED IN MEMORY                                                                                                  |
| <b>LC2</b>   | LIGHTING CONTROL PANEL WITH PROGRAMMABLE SWITCHINGS AND DIMMING FOR LIGHTING CIRCUITS, INTEGRAL TIME CLOCK, SYSTEM INPUTS FOR REMOTE ACTIVATION AND SCHEDULE OVERRIDES, CAPABLE OF CONTROLLING RECEPTACLE (RAISE, OPTIONAL BAC INTEGRATION, CAN BE PART OF A DISTRIBUTED CONTROL STRATEGY                                           |
| <b>DS</b>    | CEILING MTD. DAYLIGHT SENSOR                                                                                                                                                                                                                                                                                                        |
| <b>VS1</b>   | CEILING MTD. OCCUPANCY SENSOR (VS) / VACANCY SENSOR (VS) MANUAL ON WITH PASSIVE INFRARED (PIR) MOTION SENSOR TO COVER RANGE OF 450-500 SQ. FT., 277 / 120V POWER PACK                                                                                                                                                               |
| <b>VS2</b>   | CEILING MTD. OCCUPANCY SENSOR (VS) / VACANCY SENSOR (VS) MANUAL ON WITH PASSIVE INFRARED (PIR) MOTION SENSOR TO COVER RANGE OF 1500 SQ. FT., 277 / 120V POWER PACK                                                                                                                                                                  |
| <b>VS3</b>   | CEILING MTD. OCCUPANCY SENSOR (VS) / VACANCY SENSOR (VS) MANUAL ON WITH DUAL TECHNOLOGY INFRARED PIR AND ULTRASONIC MOTION SENSOR TO COVER 180 DEGREE RANGE (SHADED) OUTER CIRCLE NOTES COVERAGE DIRECTION, UP TO 300 SQ. FT. WITH INTEGRAL CONTRACT, CLOSURE FOR INTERGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK  |
| <b>VS4</b>   | CEILING MTD. OCCUPANCY SENSOR (VS) / VACANCY SENSOR (VS) MANUAL ON WITH DUAL TECHNOLOGY INFRARED PIR AND ULTRASONIC MOTION SENSOR TO COVER 180 DEGREE RANGE (SHADED) OUTER CIRCLE NOTES COVERAGE DIRECTION, UP TO 2000 SQ. FT. WITH INTEGRAL CONTRACT, CLOSURE FOR INTERGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK |
| <b>VS5</b>   | CEILING MTD. OCCUPANCY SENSOR (VS) / VACANCY SENSOR (VS) MANUAL ON WITH DUAL TECHNOLOGY INFRARED PIR AND ULTRASONIC MOTION SENSOR TO COVER 360 DEGREE RANGE (SHADED) OUTER CIRCLE NOTES COVERAGE DIRECTION, UP TO 2000 SQ. FT. WITH INTEGRAL CONTRACT, CLOSURE FOR INTERGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK |
| <b>VS6</b>   | WALL MTD. OCCUPANCY SENSOR (VS) / VACANCY SENSOR (VS) MANUAL ON WITH PASSIVE INFRARED TECHNOLOGY INFRARED (PIR) MOTION SENSOR TO COVER RANGE UP TO 1800 SQ. FT. WITH INTEGRAL CONTRACT, CLOSURE FOR INTERGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK                                                                |

## SECURITY/PAGING

|           |                                                   |
|-----------|---------------------------------------------------|
| <b>DS</b> | CARD READER, SHALL BE FAIL SAFE OPEN IN EMERGENCY |
| <b>DS</b> | DURESS BUTTON                                     |
| <b>DC</b> | DOOR CONTACT                                      |
| <b>DS</b> | DOUBLE MAGNETIC LOCK                              |
| <b>DS</b> | DOOR RELEASE BUTTON (REMOTE)                      |
| <b>ES</b> | EXIT BUTTON                                       |
| <b>ES</b> | ELECTRIC HANDSET                                  |
| <b>ES</b> | ELECTRIC LOGGING                                  |
| <b>ES</b> | OVERHEAD DOOR CONTACT                             |
| <b>ES</b> | MOTION DETECTOR                                   |
| <b>ES</b> | REQUEST TO EXIT                                   |
| <b>ES</b> | SOUNDER (DOOR ALARM)                              |
| <b>ES</b> | SINGLE MAGNETIC LOCK                              |
| <b>ES</b> | SECURITY CAMERA                                   |
| <b>ES</b> | SPEAKER                                           |
| <b>ES</b> | SPEAKER VOLUME CONTROL                            |



## POWER AND LIGHTING CIRCUIT DESIGNATIONS

|        |   |                                                                                                                                                  |
|--------|---|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TRPA/2 | ← | TYPICAL CIRCUIT DESIGNATION ADJACENT TO DEVICE NOTING PANELBOARD ID AND CIRCUIT NO.                                                              |
| TRPA/2 | ← | TYPICAL CIRCUIT DESIGNATION NOTING PANELBOARD ID AND CIRCUIT NUMBER FOR ALL DEVICES IN A ROOM OR SPACE                                           |
| TRPA5  | ← | TYPICAL CIRCUIT DESIGNATION NOTING PANELBOARD ID AND CIRCUIT NUMBER FOR ALL DEVICES IN A ROOM OR SPACE. CIRCUIT NUMBER IS SHOWN ONLY WITH DEVICE |

## LIGHTING ID AND CIRCUIT DESIGNATIONS

|                                                                                     |   |                                         |
|-------------------------------------------------------------------------------------|---|-----------------------------------------|
|  | ← | LUMINAIRE TYPE                          |
| 2X1                                                                                 | ← | SWITCH CONTROL OR LIGHTING CONTROL ZONE |
| LH1.5                                                                               | ← | BRANCH CIRCUIT DESIGNATION              |
| EM                                                                                  | ← | EMERGENCY FIXTURE DESIGNATION           |
|  | ← | LUMINAIRE TYPE                          |
| LH1.8                                                                               | ← | BRANCH CIRCUIT DESIGNATION              |
| 8                                                                                   | ← | SWITCH CONTROL OR LIGHTING CONTROL ZONE |

## MOUNTING HEIGHTS - ELECTRICAL EQUIPMENT

|                                       |                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9" BELOW FINISH CEILING               | <ul style="list-style-type: none"> <li>• WALL MOUNTED BELLS AND FIRE ALARM SOUNDING DEVICE OR SHOWN ON ARCHITECTURAL DETAILS</li> <li>• TV MONITOR OUTLET AND SERVICE RECEPTACLE FOR SHELF MOUNTED TV</li> </ul>                                                                                                                                                         |
| CENTERED ABOVE DOOR OR WINDOW OPENING | <ul style="list-style-type: none"> <li>• WARNING AND SIGNALING FIXTURES / SIGNS</li> </ul>                                                                                                                                                                                                                                                                               |
| 6'-8"                                 | <ul style="list-style-type: none"> <li>• FIRE ALARM STROBES OR COMBINATION DEVICES WITH STROBES SHALL BE MOUNTED SO THAT THE ENTIRE LENGTH IS NOT LESS THAN 8" AND NOT GREATER THAN 8" ABOVE FINISHED FLOOR. IF CEILING DOES NOT PERMIT A MOUNTING HEIGHT OF AT LEAST 8" ABOVE FINISHED FLOOR, THE LENGTH OF THE DEVICE SHALL BE 8" OFF THE FINISHED CEILING.</li> </ul> |
| 6'-6"                                 | <ul style="list-style-type: none"> <li>• TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL SWITCHING OR POWER PANEL BOARDS AND TELEPHONE CABINETS.</li> </ul>                                                                                                                                                                                                                  |
| 6'-6"                                 | <ul style="list-style-type: none"> <li>• TOP OF BACK MOUNTED WALL EXIT FIXTURES (NOT MOUNTED ABOVE DOORS)</li> </ul>                                                                                                                                                                                                                                                     |
| 6'-0"                                 | <ul style="list-style-type: none"> <li>• TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, COMBINATION STARTERS, VFDs AND CONTACTORS</li> </ul>                                                                                                                                                                                                   |
| 4'-6"                                 | <ul style="list-style-type: none"> <li>• TOP OF WALL MOUNTED TELEPHONE AND PAY STATIONS, WALL MOUNTED INTERCOM, NURSE CALL STATIONS AND CLOCK CONTROL PANELS (3" IF AT ADA LOCATIONS)</li> </ul>                                                                                                                                                                         |
| 4'-0"                                 | <ul style="list-style-type: none"> <li>• TOP MOUNTED ELECTRICAL DEVICES SUCH AS: LIGHTING SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS, AND FIRE ALARM PULL STATIONS.</li> <li>• GFI OUTLETS IN TOILET ROOMS.</li> <li>• LOAD CENTERS IN DWELLING UNITS.</li> <li>• INCLUDE ALL FLOOR EQUIPMENT IN LBS AND EQUIPMENT ROOMS.</li> </ul>                                   |
| 4'-0" TO 4'-8" OR BOX                 | <ul style="list-style-type: none"> <li>• ELECTRICAL RECEPTACLES INCLUDING THOSE USED WITH MECHANICAL SPACES AND ELEVATOR ROOMS</li> <li>• TELEPHONE, DATA AND COMMUNICATION OUTLETS</li> <li>• CATH AND XRAY JUNCTION BOXES</li> </ul>                                                                                                                                   |
| 1'-6"                                 | <ul style="list-style-type: none"> <li>• ELECTRICAL RECEPTACLES INCLUDING THOSE USED WITH MECHANICAL SPACES AND ELEVATOR ROOMS</li> <li>• TELEPHONE, DATA AND COMMUNICATION OUTLETS</li> <li>• CATH AND XRAY JUNCTION BOXES</li> </ul>                                                                                                                                   |

## MOUNTING HEIGHT NOTES

1. MOUNTING HEIGHTS SHALL BE 1/2" TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IF ELECTRICAL OUTLET HEIGHT OR ANGLE VARIES, COORDINATE WITH GC FOR INSTALLATION. IF IN MASONRY CONSTRUCTION, THE ABOVE HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSE.
2. MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE ARCHITECTURE DRAWING OR SPECIFICATIONS.
3. A \*\* RESIDE A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE COUNTER OR CASEWORK. COORDINATE THE MOUNTING HEIGHT WITH ARCHITECTURAL DETAILS AND CASEWORK CONTRACTOR.
4. ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT VOLTAGE TYPES, SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF SWITCHES, OUTLETS, FIRE ALARM NOTIFICATION DEVICES, FIRE ALARM PULL STATIONS, CLOCKS, CARD READERS AND OTHER SECURITY DEVICES.
5. THERMOSTATS SENSORS
6. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH AHJ, ADA REQUIREMENTS AND OTHER TRADES.

| NEMA RECEPTACLE SCHEDULE - TWIST-LOCK |         |                                     |         |             |
|---------------------------------------|---------|-------------------------------------|---------|-------------|
| TYPE                                  | NEMA ID | NEMA CONFIGURATION                  | VOLTAGE | CB          |
| 3                                     | L5-50R  | 50A, 125V, 2-POLE, 3-WIRE GROUNDING | 125V    | 50A, 1-POLE |
| 4                                     | L6-20R  | 20A, 250V, 2-POLE, 3-WIRE GROUNDING | 250V    | 20A, 2-POLE |

| TYPE | NEMA ID | NEMA CONFIGURATION                  | VOLTAGE | CB          |
|------|---------|-------------------------------------|---------|-------------|
| 1    | 5-20R   | 20A, 125V, 2-POLE, 3-WIRE GROUNDING | 125V    | 20A, 1-POLE |
| 2    | 5-30R   | 30A, 125V, 2-POLE, 3-WIRE GROUNDING | 125V    | 30A, 1-POLE |
| 3    | 5-50R   | 50A, 125V, 2-POLE, 3-WIRE GROUNDING | 125V    | 50A, 1-POLE |
| 4    | 6-20R   | 20A, 250V, 2-POLE, 3-WIRE GROUNDING | 250V    | 20A, 2-POLE |
| 5    | 6-30R   | 30A, 250V, 2-POLE, 3-WIRE GROUNDING | 250V    | 30A, 2-POLE |



ELECTRICAL SCOPE OF WORK

| SCOPE OF WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SCOPE OF WORK INCLUDED BUT NOT SHOWN, OR UNRESOLVED ISSUES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p><b>GENERAL-</b><br/>DESIGN AND INSTALLATION OF THE ELECTRICAL SYSTEMS SHALL BE GOVERNED BY AND COMPLY WITH THE REQUIREMENTS OF THE MASSACHUSETTS STATE BUILDING CODE 9TH EDITION, 2020 NATIONAL ELECTRIC CODE (NEC) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, 2020 MASSACHUSETTS ENERGY CODE, NFPA 72 2013, MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE, LEED RATING SYSTEM, AMERICANS WITH DISABILITIES ACT (ADA), AND ALL LOCAL LAWS HAVING JURISDICTION. REFER TO ARCHITECTURAL DRAWINGS CODE COMPLIANCE SHEETS FOR ALL APPLICABLE CODES.</p> <p><b>ELECTRIC SERVICE:</b><br/>1. THERE ARE TWO (2) NEW UNDERGROUND UTILITY ELECTRIC SERVICES BEING PROVIDED THAT WILL SUPPLY POWER TO FOUR (4) SEPARATE EXTERIOR, PAD-MOUNTED UTILITY TRANSFORMERS, WHICH WILL SUPPLY NORMAL AND BACKUP POWER TO THE ATHLETIC BUILDING AND THE NEW SCHOOL AT 480VOLTS, 3-PHASE, 4-WIRE. THE ELECTRIC SERVICE ROOM IS FED NORMAL POWER BY TWO (2) PAD MOUNTED TRANSFORMERS INSTALLED JUST OUTSIDE THE MAIN ELECTRIC SERVICE ROOM, AND BACKUP POWER IS SUPPLIED BY THE THIRD PAD-MOUNTED TRANSFORMER, WHICH FEEDS INTO THE GENERATOR PANELBOARD ROOM. THE ATHLETIC BUILDING IS SUPPLIED POWER FROM ITS OWN PAD-MOUNTED TRANSFORMER.</p> <p>2. THE TWO (2) NORMAL POWER UTILITY TAKEOFFS TERMINATE AT EITHER END OF A DOUBLE-ENDED SERVICE SWITCHBOARD. THE BACKUP POWER UTILITY TAKEOFF SHALL TERMINATE IN A GENERATOR DISTRIBUTION PANELBOARD.</p> <p>3. EACH EXISTING SERVICE SWITCHBOARD OR PANELBOARD IS DEAD-FRONT ASSEMBLY AND SHALL HAVE AN INDIVIDUALLY MOUNTED POWER CIRCUIT BREAKER MAIN AND DISTRIBUTION SECTIONS CONSISTING OF FIXED, GROUP-MOUNTED MOLDED CASE CIRCUIT BREAKERS TO FEED CONDUIT AND WIRE RISERS, MECHANICAL EQUIPMENT, DISTRIBUTION PANELBOARDS, AND BRANCH CIRCUIT PANELBOARDS.</p> <p>4. FOUR (4) NEW UTILITY METERS ARE TO BE PROVIDED - ONE FOR EACH UTILITY TAKEOFF - TO METER ELECTRIC SERVICE TO THE BUILDING.</p> | <p>1. INFORMATION FROM UTILITY SERVICE PROVIDER, WMGLD, ON THE FINAL PAD-MOUNTED TRANSFORMER CAPACITIES AND REQUIREMENTS.</p> <p>2. A FINAL SINGLE-LINE DIAGRAM AND LAYOUT INFORMATION HAS NOT YET BEEN PROVIDED BY THE UTILITY FOR COORDINATION PURPOSES.</p> <p>3. SPECIFIC ROOFTOP LAYOUT INFORMATION HAS NOT YET BEEN COORDINATED FOR THE PLANNED PHOTOVOLTAIC SYSTEM. AT THIS TIME, THE ENGINEER HAS PLANNED FOR 325KW OF ROOFTOP SOLAR GENERATION TYING INTO THE NEW SCHOOL'S MAIN SERVICE SWITCHBOARD.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>ELECTRIC DISTRIBUTION SYSTEM:</b><br/>1. NEW DISTRIBUTION THROUGH THE BUILDING WILL BE VIA WIRE IN CONDUIT TO DISTRIBUTION AND BRANCH CIRCUIT PANELBOARDS, ETC. LOCATED IN ELECTRICAL CLOSETS AND MECHANICAL ROOMS.</p> <p>2. OVERCURRENT PROTECTION FOR DISTRIBUTION PANELBOARDS WILL BE VIA CIRCUIT BREAKERS PER THE CONTRACT DOCUMENTS. ALL EQUIPMENT WILL BE OF NEMA 1 CONSTRUCTION, FREE STANDING AND TOTALLY FRONT ACCESSIBLE REQUIRING NO REAR ACCESS.</p> <p>3. LIFE SAFETY PANELS TO SERVE BUILDING EGRESS LIGHTING AND FIRE ALARM POWER WILL BE PROVIDED IN 2HR-RATED LIFE SAFETY ELECTRIC ROOMS, DISTRIBUTED AS PER THE RISER DIAGRAM.</p> <p>4. FEEDERS TO ELECTRIC PANELS WILL BE VIA COPPER WIRE IN CONDUITS UNLESS OTHERWISE NOTED. THESE FEEDERS WILL SERVE ALL THE POWER NEEDS OF THE BUILDING.</p> <p>5. DISTRIBUTION FEEDERS WILL BE RATED 480/277V WITH GREEN EQUIPMENT GROUND CONDUCTORS. ALL NEW FEEDERS WILL BE SIZED TO OVERCOME VOLTAGE DROP. FEEDERS WILL BE RIGID STEEL CONDUITS IN AREAS SUBJECT TO DAMAGE, SUCH AS EXTERNALLY OR IN MECHANICAL ROOMS. ELECTRIC METALLIC TUBING TO BE PROVIDED IN OTHER AREAS OF THE BUILDING.</p> <p>6. GENERALLY, ALL MOTORS LESS THAN 1/2HP WILL BE SINGLE-PHASE, 120 VOLT, AND ALL MOTORS 1/2HP AND ABOVE WILL BE 480 VOLT, 3-PHASE.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>1. INFORMATION ON ELECTRIC LOADS FROM OTHER TRADES AND FROM OTHER CONSULTANTS IS ONGOING. ELECTRICAL DISTRIBUTION WILL CONTINUE TO BE ADJUSTED BASED ON THE LATEST INFORMATION.</p> <p>2. FEEDER ROUTING ARE FOR GENERAL DESIGN INTENT PURPOSES ONLY, AND FEEDER SIZES HAVE NOT BEEN PROVIDED YET. FEEDER ROUTING HAS NOT BEEN COORDINATED WITH OTHER TRADES YET. CONTRACTOR SHALL ASSUME THAT FINAL FEEDER DESIGN ROUTING AND FEEDER SIZES SHALL BE PROVIDED IN THE CD PHASE.</p> <p>3. COORDINATION WITH THE ARCHITECT OF FINAL ELECTRIC CLOSET SIZES AND LOCATIONS FOR THE FIRST FLOOR HAS NOT BEEN COMPLETED YET. GENERAL FUTURE LOCATION OF EQUIPMENT ON THIS FLOOR HAS BEEN INDICATED IN THE PLANS FOR DD PRICING.</p> <p>4. DISTRIBUTION FOR THE MAINTENANCE BUILDING, LOCKER ROOM/ATHLETIC BUILDING, AND CONCESSIONS BUILDING HAS NOT YET BEEN SHOWN IN THE SINGLE LINE DIAGRAM OR THE PLANS. CONTRACTOR SHALL INCLUDE COST TO RUN 400AMPS FROM THE MAIN ELECTRIC SERVICE ROOM TO THE MAINTENANCE BUILDING. A 400AMP, 480V BRANCH CIRCUIT PANELBOARD, A 30kVA STEP-DOWN TRANSFORMER, AND A 100AMP 120/208V PANELBOARD SHALL BE INCLUDED. CONTRACTOR SHALL INCLUDE COST TO RUN 200AMPS FROM THE LOCKER ROOM BUILDING MAIN ELECTRIC PANEL TO THE CONCESSIONS BUILDING.</p> <p>5. A SEPARATE 480/277V ELECTRIC SERVICE WILL BE PROVIDED NEAR THE SCHOOL'S MAIN LED BOARD DISPLAY TO DISTRIBUTE POWER TO THE BOARD AND NEARBY LIGHT POLES. CONTRACTOR SHALL PROVIDE AN ELECTRICAL PEDESTAL CABINET ADJACENT TO THE BOARD AS INDICATED ON SITE PLAN.</p> <p>6. CONTRACTOR SHALL PROVIDE ALUMINUM FEEDERS FOR ALL FEEDERS UNDER 100AMPS, EXCEPT FOR THE INCOMING SERVICE CONDUCTORS ON THE SECONDARY SIDE OF THE UTILITY TRANSFORMERS AND ANY FEEDERS INDICATED TO BE SUPPLIED USING MINERAL INSULATED CABLE.</p> |
| <p><b>GENERAL ELECTRICAL DISTRIBUTION AND BRANCH CIRCUITS:</b><br/>1. BRANCH CIRCUIT PANELBOARDS SHALL HAVE COPPER BUS WITH MOLDED CASE, QUICK MAKE, QUICK BREAK THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKERS. DOOR-IN-DOOR ENCLOSURES WILL BE PROVIDED. CIRCUIT BREAKERS 225A AND LARGER SHALL HAVE INTERCHANGEABLE TRIP UNIT MODULES.</p> <p>2. BRANCH CIRCUIT WIRING, IN EMT CONDUIT, SHALL BE USED IN GENERAL AREAS WHERE PERMITTED BY CODE. PROVIDE SET SCREW TYPE FOR 2-1/2-INCH DIAMETER CONDUITS AND LARGER. FOR 2-INCH DIAMETER CONDUIT AND SMALLER, PROVIDE STEEL COMPRESSION GLAND-TYPE CONNECTION.</p> <p>3. OUTLET BOXES SHALL BE GALVANIZED STEEL AND AT LEAST 1 1/2" DEEP AND OF SUFFICIENT SIZE TO ACCOMMODATE WIRING AND DEVICE FOR WHICH THEY ARE PROVIDED. FLUSH MOUNTED OUTLET BOXES FOR SWITCHES, RECEPTACLES, AND TELEPHONES SHALL BE 4" RECTANGULAR OR SQUARE AS APPROPRIATE FOR ARRANGEMENT WITH RAISED COVERS. BOXES FOR LIGHT FIXTURES SHALL BE 4" OCTAGONAL BOXES WITH STUD SUPPORTS AND ATTACHMENTS TO SUPPORT LIGHT FITTINGS.</p> <p>4. WIRING DEVICES SHALL BE SPECIFICATION GRADE OF TYPE REQUIRED FOR DUTY. COVER PLATES SHALL BE RAISED NYLON TYPE IN COLOR TO MATCH DEVICE. SWITCHES SHALL BE QUIET TYPE, RATED FOR 20A, 120V. CONVENIENCE RECEPTACLE OUTLETS SHALL BE GROUNDED TYPE RATED FOR 20A, 120V.</p> <p>5. DISTRIBUTION PANELS SHALL BE 3 PHASE TYPE EITHER FREE STANDING OR WALL MOUNTED CONSTRUCTION WITH FACTORY ASSEMBLED, BOLTED ON, MOLDED CASE CIRCUIT BREAKERS OF THE CURRENT RATING REQUIRED AND A MINIMUM AIC OF 65k AMPERES SYMMETRICAL U.O.N. OR AS REQUIRED BY THE SHORT CIRCUIT STUDY.</p> <p>6. PROVIDE ALL DEVICES, RECEPTACLES, SWITCHES AND WEATHER PROOF RECEPTACLES ON BUILDING EXTERIOR WITH GFCI PROTECTION. PROVIDE GFCI PROTECTOR RECEPTACLES, DISCONNECT SWITCHES, SPECIAL RECEPTACLES, AND WEATHER PROOF DISCONNECT SWITCHES RATED NEMA 4X IN ALL WET AREAS.</p>                | <p>1. CIRCUITING IS NOT YET FULLY SHOWN FOR ANY POWER DISTRIBUTION. CIRCUITING WILL CONTINUE THROUGH THE CD PHASE.</p> <p>2. CIRCUIT BREAKER SIZES ARE NOT YET SHOWN ON THE PANEL SCHEDULES. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL ASSUME ANY BLANK SPACES IN THE PANEL SCHEDULES ARE 20A-1P CIRCUIT BREAKERS.</p> <p>3. FINAL VOCATIONAL SHOP WIRING DEVICE LAYOUTS ARE STILL BEING COORDINATED.</p> <p>4. PROVIDE 120V, SINGLE-PHASE CIRCUIT FROM NEAREST ELECTRIC CLOSET NORMAL POWER BRANCH CIRCUIT PANELBOARD TO EACH CCTV CAMERA ON LIGHT POLES, LOCATIONS AS PER LOW VOLTAGE CONSULTANT'S PLANS.</p> <p>5. IT HAS NOT BEEN DECIDED WHETHER MOTORIZED SHADES ARE REQUIRED FOR THIS PROJECT. IF THEY ARE PROVIDED, PROVIDE TWELVE (12) 120V-1P CIRCUITS FROM THE NEAREST NORMAL POWER BRANCH CIRCUIT PANELBOARD PER FLOOR.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p><b>MECHANICAL AND PLUMBING POWER:</b><br/>1. PROVIDE WIRING CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT WHICH REQUIRES POWER VIA VARIABLE FREQUENCY DRIVES (VFDs), MOTOR STARTERS, AND/OR ASSOCIATED DISCONNECT SWITCHES.</p> <p>2. PROVIDE THE FOLLOWING:<br/>a) POWER TO PRIMARY AND CONDENSER WATER PUMPS, EXHAUST FANS, ELEVATOR EMRs, HOT WATER PUMPS, AND AHU UNITS.<br/>b) POWER FOR ALL DISTRIBUTED MECHANICAL LOADS SUCH AS UNIT HEATERS, FANS, FCU, VAV BOXES, CONTROLS, DAMPERS, ETC.<br/>c) POWER FOR ALL PLUMBING AND FIRE PROTECTION EQUIPMENT INCLUDING DOMESTIC HOT WATER HEATERS, ELECTRIC HEAT TRACE, ETC.<br/>d) EXACT LOCATIONS AND LOADS OF MECHANICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT SHALL BE VERIFIED WITH MECHANICAL, PLUMBING, OR FIRE PROTECTION DRAWINGS.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>1. POWER FOR DAMPERS, VAVs, AND OTHER MINOR MECHANICAL LOADS HAVE NOT BEEN FULLY COORDINATED YET. REFER TO HVAC, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR FULL SCOPE.</p> <p>2. COORDINATION OF POWER FOR MAJOR MECHANICAL AND PLUMBING AND FIRE PROTECTION EQUIPMENT IS ONGOING. CONTRACTOR SHALL REFER TO HVAC, PLUMBING, AND FIRE PROTECTION DRAWING SETS FOR FULL SCOPE.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p><b>EMERGENCY LIFE SAFETY AND STANDBY POWER:</b><br/>1. THE BACKUP POWER UTILITY FEED WILL PROVIDE BACKUP POWER IN THE EVENT OF A UTILITY NORMAL POWER FAILURE OR A LOCAL FAILURE OF THE INTERIOR NORMAL POWER DISTRIBUTION EQUIPMENT. POWER IS SUPPLIED TO EMERGENCY AND SELECTIVE STANDBY LOADS VIA THE UTILITY PAD-MOUNTED TRANSFORMER. UPON AN EXTENDED POWER OUTAGE, THE ENTIRE BUILDING WILL BE BACKED UP BY UTILITY GENERATOR POWER, UPON WHICH THE BUILDING'S TRANSFER SWITCHES WILL RETURN TO "NORMAL" POWER.</p> <p>2. REQUIRED EMERGENCY LOADS WILL BE SUPPLIED/MAINTAINED VIA AUTOMATIC TRANSFER SWITCHES (ATS) TO PROVIDE EMERGENCY POWER WITHIN 10 SECONDS OF NORMAL POWER LOSS TO SATISFY CODE REQUIREMENTS. THE LOADS ARE AS FOLLOWS:<br/>a) ALL EXIT SIGNS<br/>b) REQUIRED EMERGENCY EGRESS LIGHTING<br/>c) LIFE SAFETY/FIRE ALARM SYSTEM<br/>d) FIRE SUPPRESSION SYSTEMS AIR, AND FIRE-SMOKE DAMPERS.<br/>e) FIRE PUMP</p> <p>3. THE STANDBY LOADS WILL BE SUPPLIED/MAINTAINED VIA STANDBY ATSs AND WILL HAVE A LOWER PRIORITY THAN EMERGENCY LOADS. THE FOLLOWING LOADS WILL BE SUPPLIED WHERE CAPACITY IS AVAILABLE:<br/>a) RACK-MOUNTED UNINTERRUPTIBLE POWER SUPPLY SYSTEMS SERVING IT ROOMS AND THE MAIN DISTRIBUTION FRAME ROOM.<br/>b) ELEVATORS - SELECTIVELY SWITCHED VIA THE ELEVATOR CONTROLLERS FOR USE BY FIRE FIGHTERS.<br/>c) ELEVATOR SUMP PUMPS<br/>d) SEWAGE EJECTOR PUMPS</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>1. ADDITIONAL COORDINATION IS REQUIRED TO UNDERSTAND WHICH LOADS ARE REQUIRED TO BE CONNECTED TO UTILITY BACKUP POWER.</p> <p>2. FINAL CIRCUITING OF EMERGENCY AND STANDBY LOADS HAS YET TO BE PROVIDED.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p><b>ELEVATOR POWER:</b><br/>1. FURNISH AND INSTALL MAINLINE POWER DISCONNECT SWITCHES FOR ELEVATORS AND FOR CAB LIGHTING. ELEVATOR ASSOCIATED EQUIPMENT SUCH AS CONTROLLERS, ETC SHALL BE PROVIDED BY ELEVATOR DRAWINGS.</p> <p>2. ALL WIRING SHALL BE AS PER APPROVED ELEVATOR SHOP DRAWINGS.</p> <p>3. ELEVATOR SUMP PUMPS AND CONTROLLERS SHALL BE INSTALLED AS PER ELECTRICAL AND PLUMBING DRAWINGS.</p> <p>4. PROVIDE THE FOLLOWING:<br/>a) POWER TO ALL ELEVATOR MOTORS<br/>b) DISCONNECT SWITCHES, (1) GFCI RECEPTACLE AND LIGHTING IN EACH ELEVATOR CONTROL ROOM<br/>c) GFCI RECEPTACLE, LIGHTING AND POWER TO SUMP PUMP IN EACH ELEVATOR PIT<br/>d) LIGHTING AND GFI RECEPTACLE IN EACH ELEVATOR SHAFT OVERRUN<br/>e) 2" CONDUIT FROM EACH ELEVATOR CONTROL ROOM TO ELEVATOR CONTROL PANEL ADJACENT TO MAIN FIRE ALARM CONTROL PANEL.<br/>f) PROVIDE POWER FOR ELEVATOR CONTROL ROOM HVAC SYSTEMS.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>1. FINAL ELEVATOR REQUIREMENTS AND ELECTRIC LOADS, INCLUDING LOADS OF MAIN ELEVATOR FEEDS, HAVE NOT BEEN COORDINATED WITH THE ELEVATOR CONSULTANT YET.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| SCOPE OF WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SCOPE OF WORK INCLUDED BUT NOT SHOWN, OR UNRESOLVED ISSUES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <p><b>LIGHTING:</b><br/>1. EMERGENCY LIGHTING<br/>a) EMERGENCY EGRESS LIGHTING: TO PROVIDE FOR SAFELY ALLOWING OCCUPANTS TO MOVE FROM PUBLIC AREAS WITHIN THE BUILDING TO DESIGNATED BUILDING EXITS. SUCH EGRESS LIGHTING IS CONNECTED TO THE EMERGENCY SYSTEM. INCLUDED ARE EXTERIOR WALKWAYS TO PROVIDE SAFE EGRESS.<br/>b) ILLUMINATED EXIT SIGNS: ALL LIGHTING REQUIRED TO DIRECT OCCUPANTS TO BUILDING EXITS, AS WELL AS ALL ILLUMINATED EXIT SIGNS LED TYPE ARE MAINTAINED AND CONNECTED TO THE EMERGENCY SYSTEM DURING AN ELECTRICAL OUTAGE.<br/>c) STAIRWELL LIGHTING FIXTURES ARE CIRCUITED TO LOCAL LIFE SAFETY PANELBOARDS AND FURNISHED WITH INTEGRAL BACKUP BATTERIES. BATTERY POWER SHALL PROVIDE POWER FOR NOT LESS THAN 90 MINUTES UPON LOSS OF NORMAL POWER.</p> | <p>1. SITE LIGHTING LAYOUT COORDINATION IS ONGOING, AND LOCATIONS ARE SHOWN IN THE SITE PLAN. HOWEVER, FINAL INFORMATION ON EXACT SITE LIGHTING FIXTURES HAS NOT BEEN FINALIZED. COORDINATION WITH THE LOW VOLTAGE CONSULTANT, FOR SITE FIXTURES THAT INCLUDE CCTV CAMERAS, IS ONGOING. REFER TO THE SECURITY CONSULTANT'S PLANS FOR LOCATIONS OF SITE LUMINAIRES WITH CCTV INTEGRAL TO THE POLE.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p><b>LIGHTING CONTROLS:</b><br/>1. THE LIGHTING CONTROL SYSTEM SHALL CONSIST OF A NETWORK OF LOW VOLTAGE SWITCHES, DAYLIGHT SENSORS AND OCCUPANCY SENSORS, DAYLIGHT DIMMING AND PROGRAMMABLE LIGHTING CONTROL PANELS. LIGHTING PANELS SHALL BE LOCATED IN ELECTRICAL CLOSETS, AS REQUIRED.<br/>2. THE HOUSE LIGHTING CONTROL SYSTEM AT A MINIMUM SHALL COMPLY WITH THE MANDATORY PROVISIONS OF ASHRAE 90.1-2016.<br/>3. UL 924 BYPASS RELAYS SHALL BE PROVIDED FOR ALL EMERGENCY LIGHTING TO OVERRIDE LIGHTING CONTROLS AND TO TURN EM LIGHTING ON TO FULL BRIGHTNESS IN CASE OF LOSS OF NORMAL POWER.</p>                                                                                                                                                                       | <p>1. LIGHTING CONTROL REQUIREMENTS ARE STILL BEING COORDINATED, PARTICULARLY FOR AREAS SUCH AS VOCATIONAL SHOPS. CONTRACTOR SHALL ASSUME LIGHTING CONTROLS TO BE PROVIDED IN EACH OF THESE AREAS.<br/>2. LIGHTING CONTROL FOR SITE LIGHTING HAS NOT BEEN COORDINATED YET. CONTRACTOR SHALL ASSUME THAT SITE LIGHTING WILL BE CONTROLLED BY INTEGRAL PHOTOCELLS.<br/>3. IT HAS NOT BEEN COORDINATED WHETHER ANY MOTORIZED SHADES NEED TO BE INTEGRATED INTO THE LIGHTING CONTROL SYSTEM. IF SO, AN ADDITIONAL UP/DOWN CONTROL INTEGRATED INTO THE LIGHTING CONTROL SYSTEM SHALL BE PROVIDED.</p>                                                                                                                                                                                                                                          |
| <p><b>LIGHTING PROTECTION:</b><br/>1. FURNISH, INSTALL, TEST LIGHTNING PROTECTION SYSTEM AND COMPONENTS ACCORDING TO NFPA 780, RESULTING IN A UL MASTER "C" LABEL. THE SYSTEM WILL CONSIST OF AIR TERMINALS, CONDUCTORS, CONNECTIONS, AND GROUND RODS. THE LIGHTNING PROTECTION SYSTEM WILL BE INTERCONNECTED WITH THE BUILDING'S EQUIPMENT GROUNDING SYSTEM.<br/>2. PROVIDE SURGE PROTECTION SYSTEM AS REQUIRED FOR THE SYSTEMS MASTER "C" LABEL. SURGE PROTECTION SHALL BE PROVIDED ON ELECTRICAL SERVICE EQUIPMENT AND COPPER COMMUNICATIONS WIRING TO PROTECT ELECTRONIC EQUIPMENT FROM TRANSIENTS.</p>                                                                                                                                                                       | <p>1. THE CURRENT LIGHTNING PROTECTION LAYOUT HAS NOT YET BEEN COORDINATED WITH THE ARCHITECT OR THE STRUCTURAL ENGINEER. FURTHER COORDINATION IS REQUIRED FOR FINAL DOWN CONDUCTOR LOCATIONS, COORDINATION WITH ROOFTOP MECHANICAL EQUIPMENT, THRU-ROOF LOCATIONS, GROUND ROD LOCATIONS, ETC. THE CURRENT LAYOUT IS SHOWN FOR DESIGN INTENT PURPOSES ONLY.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>POWER CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHER DRAWINGS INCLUDE, AND NOT LIMITED TO, AS SHOWN ON THE DRAWINGS:</b><br/>1) PROVIDE POWER WIRING FOR:<br/>a) MOTORIZED ROLL-UP DOORS, MOTORIZED SHADES, AND ADA DOORS.<br/>b) FIRE ALARM SYSTEM<br/>c) SECURITY SYSTEM<br/>d) BMS SYSTEM<br/>e) HVAC EQUIPMENT<br/>f) FRONT OF HOUSE LIGHT FIXTURES<br/>g) HEAT TRACING, INCLUDING FOR PIPES, ETC<br/>h) PLUMBING EQUIPMENT<br/>i) ELEVATORS</p>                                                                                                                                                                                                                                                                                                                          | <p>1. POWER FOR ADA DOORS IS NOT CURRENTLY SHOWN IN THE DRAWING SET. CONTRACTOR SHALL PRICE COST OF PROVIDING DEDICATED 120V/20A CIRCUIT FROM NEAREST BRANCH CIRCUIT PANEL TO EACH DOOR LEADING TO THE EXTERIOR ON THE FIRST FLOOR.<br/>2. REFER TO LOW VOLTAGE CONSULTANTS FOR FULL EXTENT OF SCOPE RELATED TO TELECOM, SECURITY, AND AV. IN THE ABSENCE OF SUCH INFORMATION, CONTRACTOR SHALL CARRY TWELVE (12) L5-30 TWIST-LOCK RECEPTACLES CONNECTED TO STANDBY POWER IN THE MDF AND FOUR (4) L5-30R TWIST-LOCK RECEPTACLES IN EACH IDF.</p>                                                                                                                                                                                                                                                                                          |
| <p><b>GROUNDING SYSTEM:</b><br/>1. PROVIDE AN EQUIPMENT GROUNDING SYSTEM AS PER THE FOLLOWING:<br/>A. SEPARATE GROUNDING CONDUCTOR PROVIDED IN ALL RACEWAYS.<br/>B. THE SERVICE SYSTEM AND TRANSFORMERS TO BE GROUNDED PER CODE.<br/>2. PROVIDE EQUIPMENT GROUNDING CONDUCTORS FOR EACH FEEDER AND FOR EACH CIRCUIT AS PER NEC REQUIREMENTS. GREEN EQUIPMENT GROUNDING CONDUCTORS SHALL BE COPPER WITH GREEN INSULATION.</p>                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>UNINTERRUPTIBLE POWER SYSTEMS (UPS):</b><br/>1. LOCAL UPSs, IF REQUIRED, SHALL BE SPECIFIED BY THE LOW VOLTAGE CONSULTANTS. PROVIDE NORMAL POWER TO EACH OF THE UPSs AS REQUIRED.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>1. COORDINATION REGARDING UPS INFORMATION FROM THE LOW VOLTAGE CONSULTANT IS GOING. HOWEVER, ASSUME ONE (1) 40AMP, 208VOLT, SINGLE-PHASE BRANCH CIRCUIT SHALL BE PROVIDED TO EACH MDF AND IDF FOR POWER TO A RACK-MOUNTED UPS.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p><b>MISCELLANEOUS:</b><br/>1. 50% OF RECEPTACLES IN PRIVATE OFFICES, OPEN OFFICES, AND COMPUTER CLASSROOMS WILL BE AUTOMATICALLY DE-ENERGIZED OUTSIDE OF BUSINESS HOURS TO COMPLY WITH ASHRAE 90.1-2010 / LEED REQUIREMENTS. THESE REQS WILL BE ACHIEVED RELAY CONTROL PANELS INTEGRATED WITH THE LIGHTING CONTROL SYSTEM. CONTRACTOR SHALL PROVIDE A PERMANENTLY FIXED LABEL "CONTROLLED" AT ALL RECEPTACLES THAT ARE CONTROLLED BY A RELAY CONTROL PANEL. RECEPTACLES TO BE CONTROLLED HAVE BEEN SHOWN ON THE PLANS AS "SWITCHED".<br/>2. CONDUITS SHALL BE FURNISHED WITH EXPANSION FITTING OR FLEXIBLE CONNECTIONS, AS APPLICABLE, PER THE BUILDING JOINTS SHOWN ON THE STRUCTURAL DRAWINGS.</p>                                                                            | <p>1. SCHEDULES FOR RELAY CONTROL PANELS HAVE NOT YET BEEN PROVIDED.<br/>2. GROUPING INFORMATION, FOR PURPOSES OF SUB-METERING INDIVIDUAL TYPES OF LOADS, HAS NOT BEEN INTEGRATED YET, AND WILL BE PROVIDED IN THE CD PHASE.<br/>3. CONTRACTOR SHALL INCLUDE EMPTY CONDUITS FOR SITE LOW VOLTAGE SCOPE AS FOLLOWS:<br/>-PROVIDE ONE (1) 4-INCH CONDUIT FROM THE MDF TO THE LOCKER BUILDING, MAINTENANCE BUILDING, AND CONCESSIONS BUILDING.<br/>-PROVIDE ONE (1) 4-INCH CONDUIT FROM MDF TO EACH ELEVATOR MACHINE ROOM.<br/>-PROVIDE ONE (1) 3-INCH CONDUIT FROM MDF TO THE GUARD HOUSE.<br/>-PROVIDE ONE (1) 3-INCH CONDUIT FROM MDF TO EACH GROUP OF ELECTRIC VEHICLE CHARGERS.<br/>-PROVIDE ONE (1) 2-INCH CONDUIT FROM MDF TO THE CAMPUS' ELECTRONIC SIGN.<br/>-PROVIDE ONE (1) 2-INCH CONDUIT FROM MDF TO EACH SITE CCTV CAMERA.</p> |
| <p><b>PERFORMANCE AUDIO &amp; VIDEO SYSTEMS:</b><br/>1. CONTRACTOR SHALL PROVIDE POWER TO ANY AUDIO AND VIDEO SYSTEMS, AS PER AV CONSULTANT'S REQUIREMENTS.<br/>2. CONTRACTOR SHALL PROVIDE POWER TO ANY THEATRICAL LIGHTING, LIGHTING CONTROL, AV SYSTEMS, AS PER THEATER CONSULTANT'S REQUIREMENTS.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>1. COORDINATION REGARDING AV OR THEATRICAL LIGHTING POWER REQUIREMENTS IS ONGOING. REFER TO THEATER CONSULTANT'S DRAWINGS FOR FULL SCOPE OF WORK.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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Metropolitan  
Regional  
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School

Wakefield, MA 01880

MSBA 60% CD  
SUBMISSION

January 13, 2023

PROJECT NORTH

MAGNETIC NORTH

ELECTRICAL  
SCOPE OF  
WORK

Scale: 1/2" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E0-0-3

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GENERAL NOTES:

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO E0-1.4, 5, 6, AND 7 FOR ADDITIONAL SITE DETAILS. REFER TO E0-1.5 FOR DUCTBANK SECTIONS.
4. ALL UNDERGROUND CONDUITS SHALL BE IN CONCRETE ENCASED DUCTBANKS UNLESS OTHERWISE NOTED.
5. REFER TO DIVISION 0 AND 1 SPECIFICATIONS FOR ADDITIONAL DETAIL ON ADD ALTERNATES.
6. REFER TO TELECOM/SECURITY DRAWINGS FOR LOCATION OF CCTV DEVICES AND TYPE AND QUANTITY OF CABLES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
7. ALL EQUIPMENT LOCATIONS AND DUCTBANK ROUTING SHOWN ARE DIAGRAMMATIC. ELECTRICAL AND GENERAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF EQUIPMENT AND ROUTING OF DUCTBANKS.
8. UNLESS OTHERWISE NOTED, ALL LINework SHOWN ON THIS SHEET BETWEEN EQUIPMENT DEPRCTS UNDERGROUND ELECTRICAL DUCTBANKS.
9. DUCTBANK SECTION CONTENTS ARE SHOWN ON SHEET E0-1.5. IF THE DUCTBANK SECTION IS NOT INDICATED ON THE SITE PLAN, PROVIDE SECTION "A" AS SHOWN ON E0-1.5.

SITE LIGHTING NOTES:

1. REFER TO E0-1.5 FOR SITE LIGHTING FIXTURE SCHEDULE. PROVIDE POLE FOR LIGHTING FIXTURE, WITH HEIGHT TO MATCH FIXTURE MOUNTING HEIGHT SHOWN ON LIGHTING FIXTURE SCHEDULE.
2. UNLESS OTHERWISE NOTED, ALL SITE LIGHTING SHALL BE EQUIPPED WITH INTEGRAL PHOTOCELLS.
3. POWER WIRING FOR ALL SITE LIGHTING CIRCUITS SHALL BE MINIMUM #6 AWG.
4. PROVIDE A SEPARATE HANDHOLE FOR EACH SITE LIGHTING POLE. REFER TO DETAILS FOR SIZE REQUIREMENTS AND MINIMUM CONDUIT REQUIREMENTS BETWEEN HANDHOLE AND POLE.
5. FOR CLARITY, CONDUITS FROM HANDHOLE TO ITS ASSOCIATED LIGHT POLE AREA NOT SHOWN ON THIS SITE PLAN. REFER TO E0-1.5 FOR DETAIL ON CONDUITS REQUIRED BETWEEN EACH LIGHTING/SPORTS LIGHTING POLE AND ITS ASSOCIATED HANDHOLE.
6. SITE LIGHTING POLES ARE REPRESENTED BY VARIOUS SYMBOLS. REFER TO SITE LIGHTING FIXTURE SCHEDULE FOR FIXTURE IDS AND PROVIDE SITE LIGHTING POLE AND FIXTURE WHERE FIXTURE ID IS SHOWN ON THIS SITE PLAN.

ADD ALTERNATES:

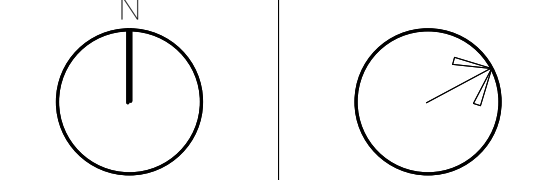
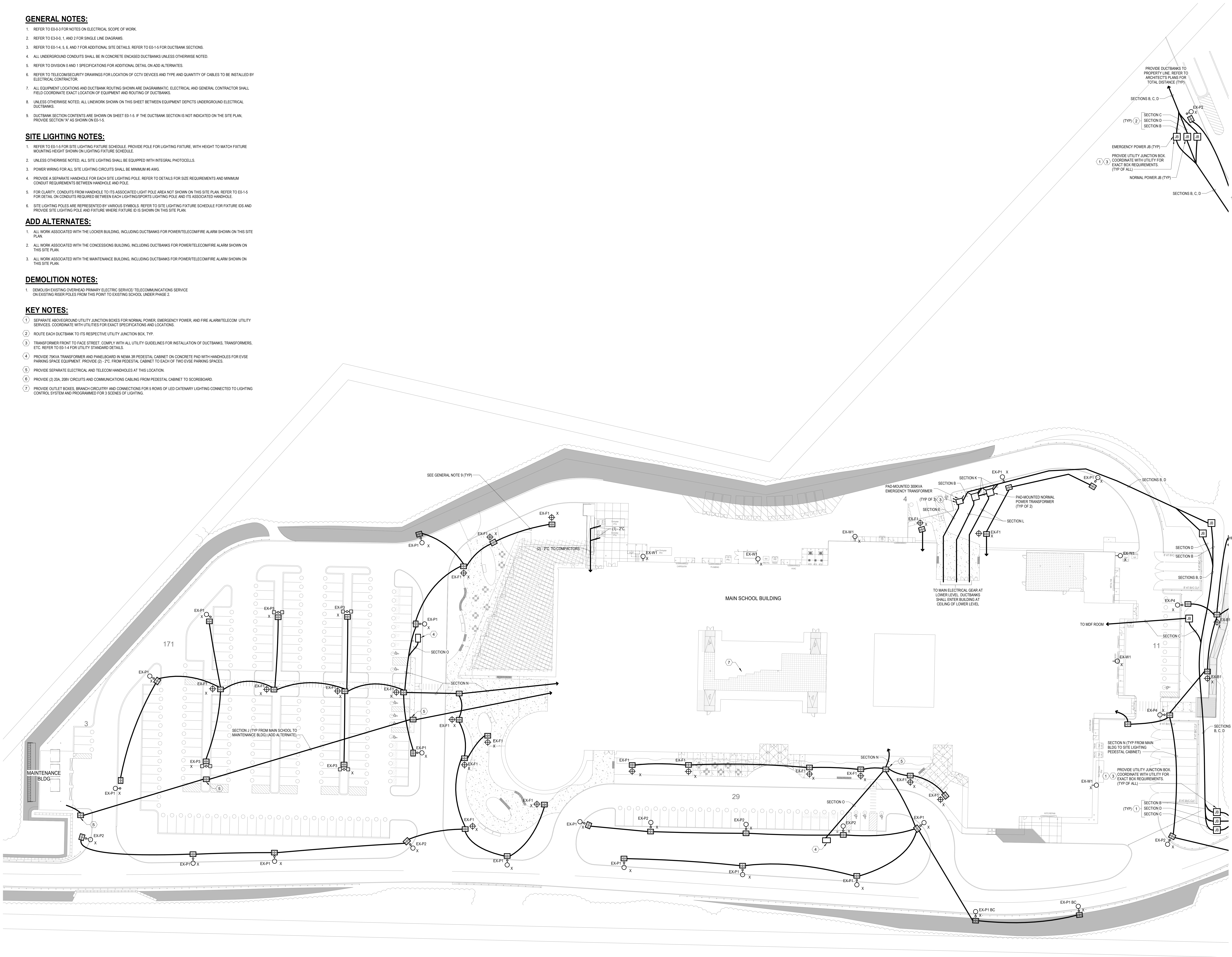
1. ALL WORK ASSOCIATED WITH THE LOCKER BUILDING, INCLUDING DUCTBANKS FOR POWER/TELECOM/FIRE ALARM SHOWN ON THIS SITE PLAN.
2. ALL WORK ASSOCIATED WITH THE CONCESSIONS BUILDING, INCLUDING DUCTBANKS FOR POWER/TELECOM/FIRE ALARM SHOWN ON THIS SITE PLAN.
3. ALL WORK ASSOCIATED WITH THE MAINTENANCE BUILDING, INCLUDING DUCTBANKS FOR POWER/TELECOM/FIRE ALARM SHOWN ON THIS SITE PLAN.

DEMOLITION NOTES:

1. DEMOLISH EXISTING OVERHEAD PRIMARY ELECTRIC SERVICE/ TELECOMMUNICATIONS SERVICE ON EXISTING RISER POLES FROM THIS POINT TO EXISTING SCHOOL UNDER PHASE 2.

KEY NOTES:

1. SEPARATE ABOVEGROUND UTILITY JUNCTION BOXES FOR NORMAL POWER, EMERGENCY POWER, AND FIRE ALARM/TELECOM. UTILITY SERVICES. COORDINATE WITH UTILITIES FOR EXACT SPECIFICATIONS AND LOCATIONS.
2. ROUTE EACH DUCTBANK TO ITS RESPECTIVE UTILITY JUNCTION BOX, TYP.
3. TRANSFORMER FRONT TO FACE STREET. COMPLY WITH ALL UTILITY GUIDELINES FOR INSTALLATION OF DUCTBANKS, TRANSFORMERS, ETC. REFER TO E0-1.4 FOR UTILITY STANDARD DETAILS.
4. PROVIDE 750VIA TRANSFORMER AND PANELBOARD IN NEMA 3R PEDESTAL CABINET ON CONCRETE PAD WITH HANDHOLES FOR EVSE PARKING SPACE EQUIPMENT. PROVIDE (2) 2" C. FROM PEDESTAL CABINET TO EACH OF TWO EVSE PARKING SPACES.
5. PROVIDE SEPARATE ELECTRICAL AND TELECOM HANDHOLES AT THIS LOCATION.
6. PROVIDE (2) 20A, 208V CIRCUITS AND COMMUNICATIONS CABLEING FROM PEDESTAL CABINET TO SCOREBOARD.
7. PROVIDE OUTLET BOXES, BRANCH CIRCUITRY AND CONNECTIONS FOR 5 ROWS OF LED CATENARY LIGHTING CONNECTED TO LIGHTING CONTROL SYSTEM AND PROGRAMMED FOR 3 SCENES OF LIGHTING.



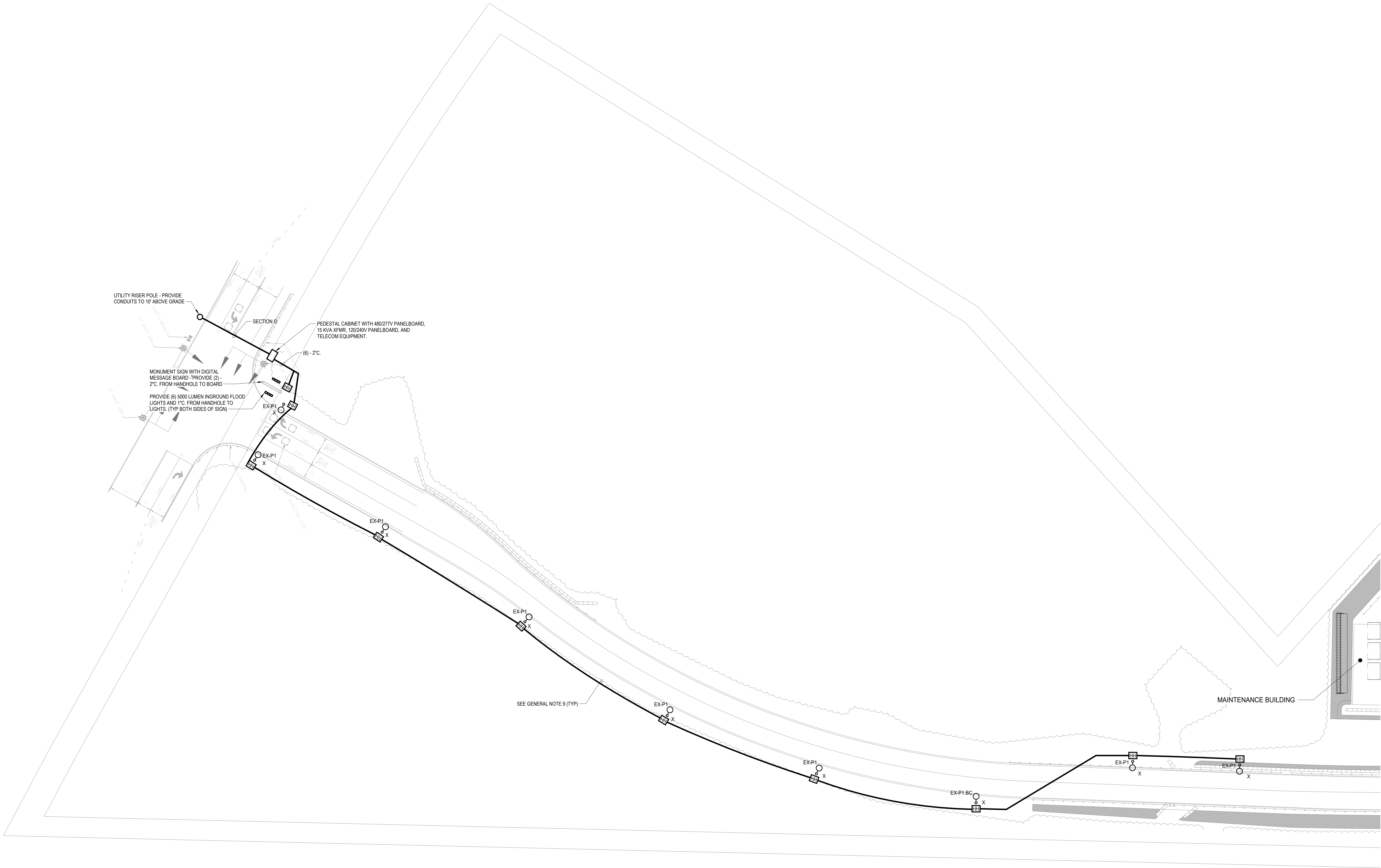


GENERAL NOTES:

- REFER TO E0-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
- REFER TO E0-0-0, 1, AND 2 FOR SINGLE LINE DIAGRAM.
- REFER TO E0-1-4, 5, 6, AND 7 FOR ADDITIONAL SITE DETAILS. REFER TO E0-1-5 FOR DUCTBANK SECTIONS.
- ALL UNDERGROUND CONDUITS SHALL BE IN CONCRETE ENCASED DUCTBANKS UNLESS OTHERWISE NOTED.
- REFER TO DIVISION 0 AND 1 SPECIFICATIONS FOR ADDITIONAL DETAIL ON ADD ALTERNATES.
- REFER TO TELECOM/SECURITY DRAWINGS FOR LOCATION OF CCTV DEVICES AND TYPE AND QUANTITY OF CABLES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL EQUIPMENT LOCATIONS AND DUCTBANK ROUTING SHOWN ARE DIAGRAMMATIC. ELECTRICAL AND GENERAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF EQUIPMENT AND ROUTING OF DUCTBANKS.
- UNLESS OTHERWISE NOTED, ALL LINEWORK SHOWN ON THIS SHEET BETWEEN EQUIPMENT DEPICTS UNDERGROUND ELECTRICAL DUCTBANKS.
- DUCTBANK SECTION CONTENTS ARE SHOWN ON SHEET E0-1-5. IF THE DUCTBANK SECTION IS NOT INDICATED ON THE SITE PLAN, PROVIDE SECTION 'A' AS SHOWN ON E0-1-5.

SITE LIGHTING NOTES:

- REFER TO E0-1-5 FOR SITE LIGHTING FIXTURE SCHEDULE. PROVIDE POLE FOR LIGHTING FIXTURE, WITH HEIGHT TO MATCH FIXTURE MOUNTING HEIGHT SHOWN ON LIGHTING FIXTURE SCHEDULE.
- UNLESS OTHERWISE NOTED, ALL SITE LIGHTING SHALL BE EQUIPPED WITH INTEGRAL PHOTOCELLS.
- POWER WIRING FOR ALL SITE LIGHTING CIRCUITS SHALL BE MINIMUM #6 AWG.
- PROVIDE A SEPARATE HANDHOLE FOR EACH SITE LIGHTING POLE. REFER TO DETAIL FOR SIZE REQUIREMENTS.
- FOR CLARITY, CONDUITS FROM HANDHOLE TO ITS ASSOCIATED LIGHT POLE AREA NOT SHOWN ON THIS SITE PLAN. REFER TO E0-1-5 FOR DETAIL ON CONDUITS REQUIRED BETWEEN EACH LIGHTING/SPORTS LIGHTING POLE AND ITS ASSOCIATED HANDHOLE.
- SITE LIGHTING POLES ARE REPRESENTED BY VARIOUS SYMBOLS. REFER TO SITE LIGHTING FIXTURE SCHEDULE FOR FIXTURE IDS AND PROVIDE SITE LIGHTING POLE AND FIXTURE WHERE FIXTURE ID IS SHOWN ON THIS SITE PLAN.





**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

1. REFER TO E-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E-3.0-1, 1 AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO E-0.4, 5, 6 AND 7 FOR ADDITIONAL SITE DETAILS. REFER TO E-0.5-1 FOR DUCTBANK SECTIONS.
4. ALL UNDERGROUND CONDUITS SHALL BE IN CONCRETE ENCASED DUCTBANKS UNLESS OTHERWISE NOTED.
5. REFER TO DIVISION 5 AND 1 SPECIFICATIONS FOR ADDITIONAL DETAIL ON ADD ALTERNATES.
6. REFER TO TELECOMMUNICATIONS DRAWINGS FOR LOCATION OF CCTV DEVICES AND TYPE AND QUANTITY OF CABLES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
7. ALL EQUIPMENT LOCATIONS AND DUCTBANK ROUTING SHOWN ARE DIAGRAMMATIC. ELECTRICAL AND GENERAL CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION OF EQUIPMENT AND ROUTING OF DUCTBANKS.
8. UNLESS OTHERWISE NOTED, ALL LINEWORK SHOWN ON THIS SHEET BETWEEN EQUIPMENT DETAILS UNDERGROUND ELECTRICAL DUCTBANKS.
9. DUCTBANK SECTION CONTENTS ARE SHOWN ON SHEET E-0.5-1. IF THE DUCTBANK SECTION IS NOT INDICATED ON THE SITE PLAN, PROVIDE SECTION "A" AS SHOWN ON E-0.1-5.

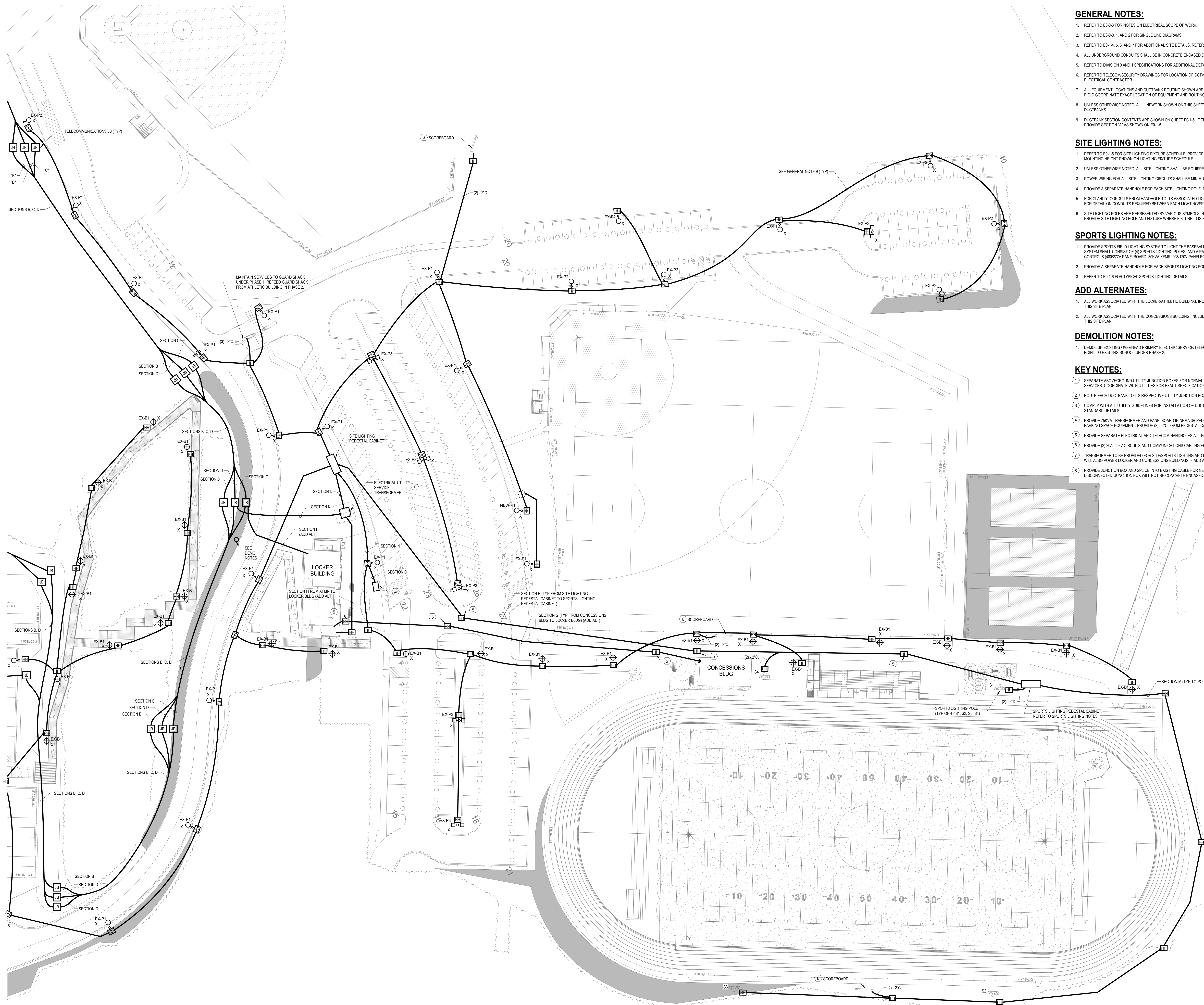
1. REQUIRE FOR E-15 FOR SITE LIGHTING FIXTURE SCHEDULE. PROVIDE POLE FOR LIGHTING FIXTURE, WITH HEIGHT TO MATCH FIXTURE MOUNTING HEIGHT SHOWN ON LIGHTING FIXTURE SCHEDULE.
2. UNLESS OTHERWISE NOTED, ALL SITE LIGHTING SHALL BE EQUIPPED WITH INTEGRAL PHOTOCELLS.
3. POWER WIRING FOR ALL SITE LIGHTING CIRCUITS SHALL BE MINIMUM #6 AWG.
4. PROVIDE A SEPARATE HAND-OUT FOR EACH SITE LIGHTING POLE. REFER TO DETAILS FOR SIZE REQUIREMENTS.
5. FOR CLARITY, CONDUITS FROM HAND-OUT TO ITS ASSOCIATED LIGHT POLE AREA NOT SHOWN ON THIS SITE PLAN. REFER TO E-15 FOR DETAILS ON CONDUIT REQUIREMENTS BETWEEN EACH LIGHTING SPORTS LIGHTING POLE AND ITS ASSOCIATED HAND-OUT.
6. SITE LIGHTING POLES ARE REPRESENTED BY VARIOUS SYMBOLS. REFER TO SITE LIGHTING FIXTURE SCHEDULE FOR FIXTURE IDS AND PROVIDE SITE LIGHTING POLE AND FIXTURE WHERE FIXTURE ID IS SHOWN ON THIS SITE PLAN.

1. PROVIDE SPORTS FIELD LIGHTING SYSTEM TO LIGHT THE BASEBALL/SOCCER FIELD AND THE TRACK/FOOTBALL/SOCCER STADIUM. SYSTEM SHALL CONSIST OF (4) SPORTS LIGHTING POLES, AND A PAD MOUNTED NEMA 3R PEDESTAL CABINET WITH POWER AND CONTROLS (480/277V PANELBOARD, 30KVA XFMR, 208/120V PANELBOARD, SPORTS LIGHTING CONTACTORS, ETC.).
2. PROVIDE A SEPARATE HANDHOLE FOR EACH SPORTS LIGHTING POLE. REFER TO DETAILS FOR SIZE REQUIREMENTS.
3. REFER TO E0-1-6 FOR TYPICAL SPORTS LIGHTING DETAILS.

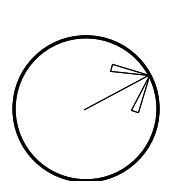
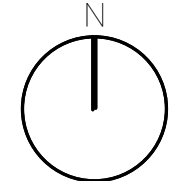
1. ALL WORK ASSOCIATED WITH THE LOCKER/ATHLETIC BUILDING, INCLUDING DUCTBANKS FOR POWER/TELECOM/FIRE ALARM SHOWN ON THIS SITE PLAN.
2. ALL WORK ASSOCIATED WITH THE CONCESSIONS BUILDING, INCLUDING DUCTBANKS FOR POWER/TELECOM/FIRE ALARM SHOWN ON THIS SITE PLAN.

1. DEMOLISH EXISTING OVERHEAD PRIMARY ELECTRIC SERVICE/TELECOMMUNICATIONS SERVICE ON EXISTING RISER POLES FROM THIS POINT TO EXISTING SCHOOL UNDER PHASE 2.

- 1 SEPARATE ABOVEGROUND UTILITY JUNCTION BOXES FOR NORMAL POWER, EMERGENCY POWER, AND FIRE ALARM/TELECOM UTILITIES. COORDINATE WITH UTILITIES FOR EXACT SPECIFICATIONS AND LOCATIONS.
- 2 ROUTE EACH DUCTBACK TO ITS RESPECTIVE UTILITY JUNCTION BOX (TYP).
- 3 COMPLY WITH ALL UTILITY REGULATIONS FOR INSTALLATION OF DUCTBOXES, TRANSFORMERS, ETC. REFER TO E-14 FOR UTILITY STANDARD DETAILS.
- 4 PROVIDE TYSVA TRANSFORMER AND PANELBOARD IN NEMA 3R FEDESTAL CABINET ON CONCRETE PAD WITH HANDHOLES FOR EYE PANNING SPACE EQUIPMENT. PROVIDE 0'-2" TO FEET FROM FEDESTAL CABINET TO EACH OF TWO EYE PANNING SPACES.
- 5 PROVIDE SEPARATE ELECTRICAL AND TELECOM HANDHOLES AT THIS LOCATION.
- 6 PROVIDE (2) 20A, 208V CIRCUITS AND COMMUNICATIONS CABLING FROM FEDESTAL CABINET TO SCOREBOARD.
- 7 TRANSFORMER TO BE PROVIDED FOR STATIONERIS LIGHTING AND ELECTRIC VEHICLE CHARGERS UNDER BASE BID. TRANSFORMER TO BE PROVIDED BY OWNER AND CONSIDERATION OF CONSTRUCTION OF BUILDING SHALL BE SECTED.
- 8 PROVIDE JUNCTION BOX AND SPLICE INTO EXISTING CABLE FOR NEW LIGHTPOLE. RECONNECT EXISTING LIGHTS THAT MAY BE DISCONNECTED. JUNCTION BOX AND SPLICE NOT TO BE CONCRETE ENCASED.

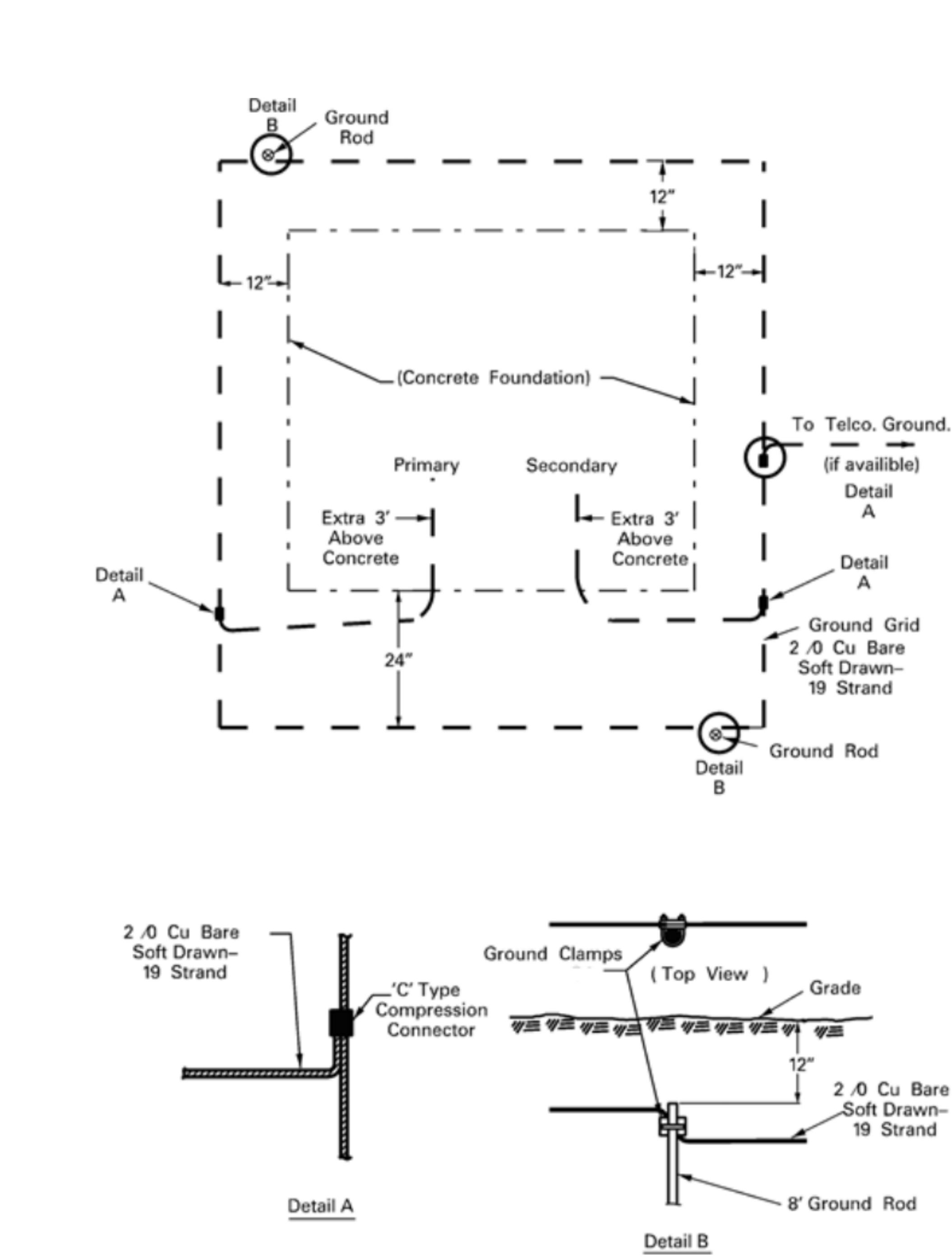


January 13, 2023

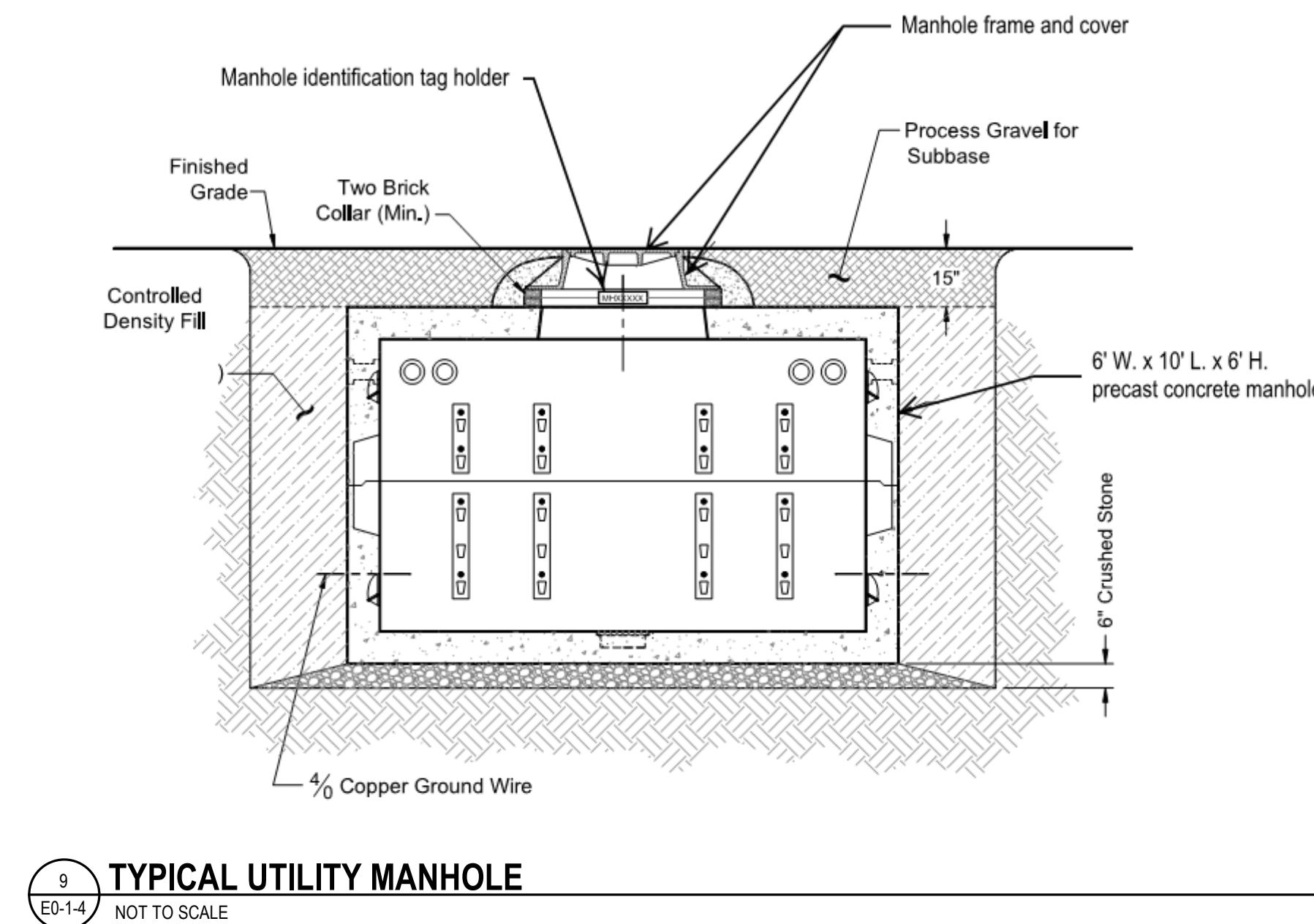


## ELECTRICAL SITE PLAN

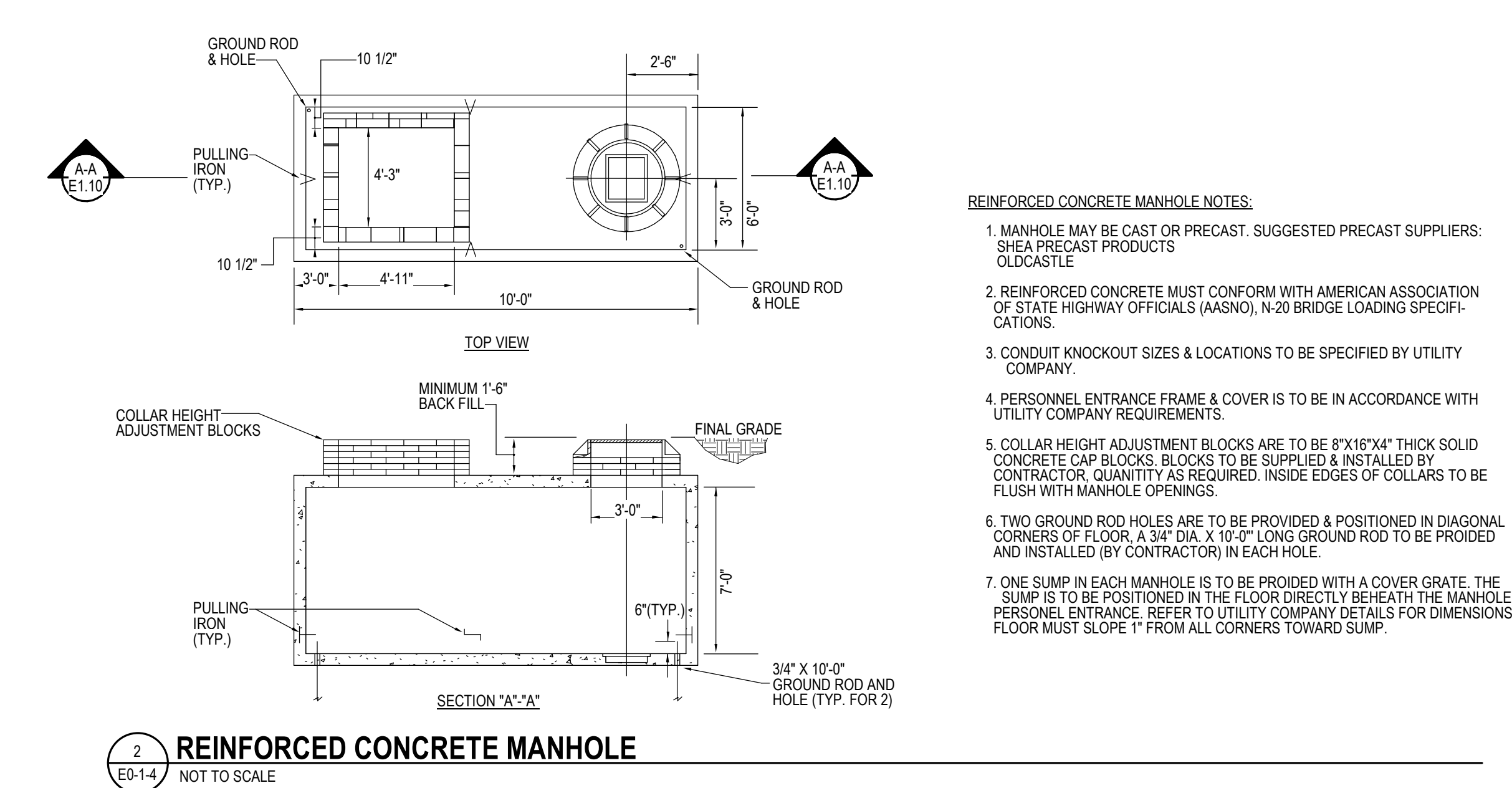




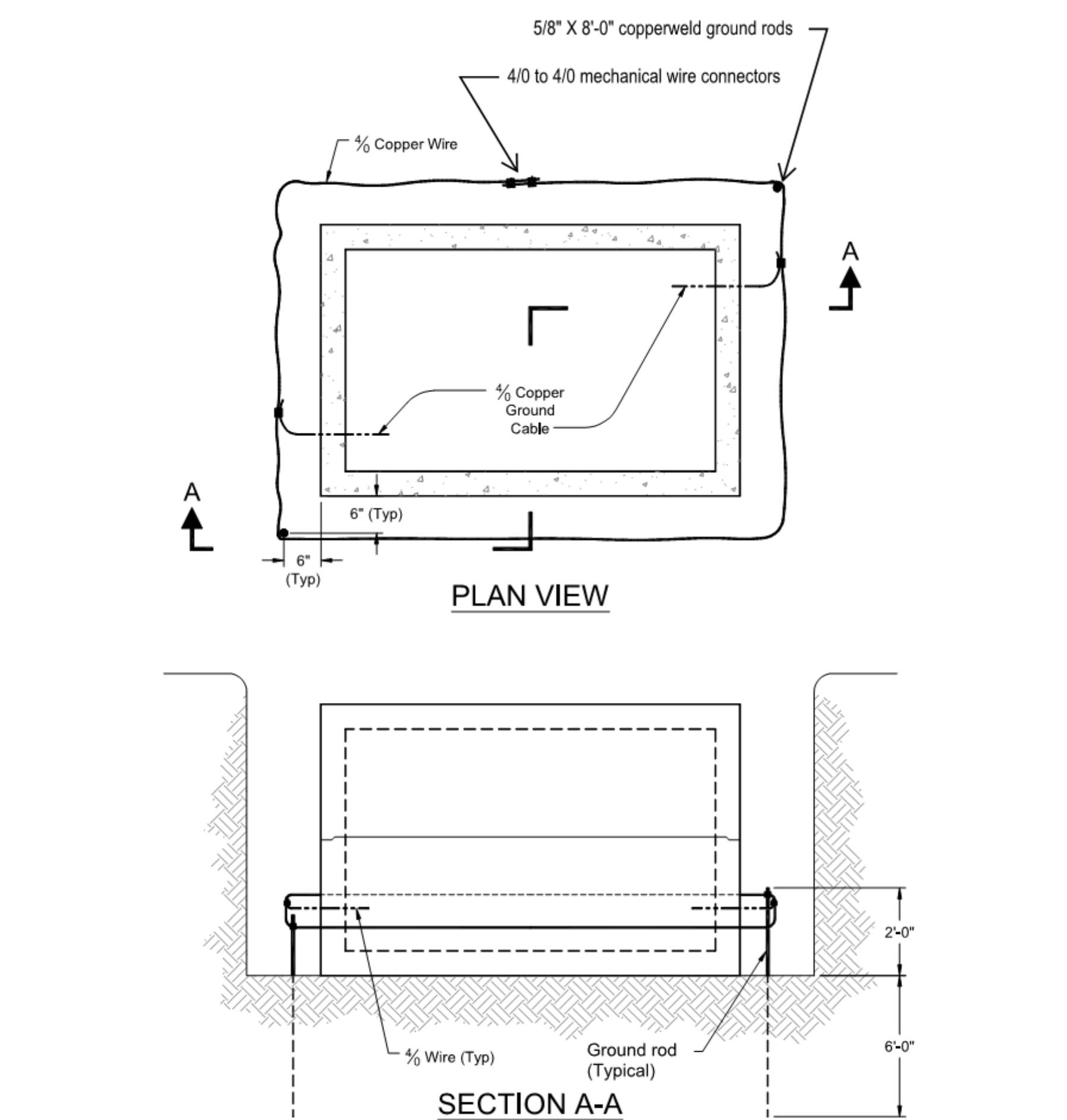
1 WGLD XFMR GROUND GRID DETAIL  
1/8" = 1'-0"



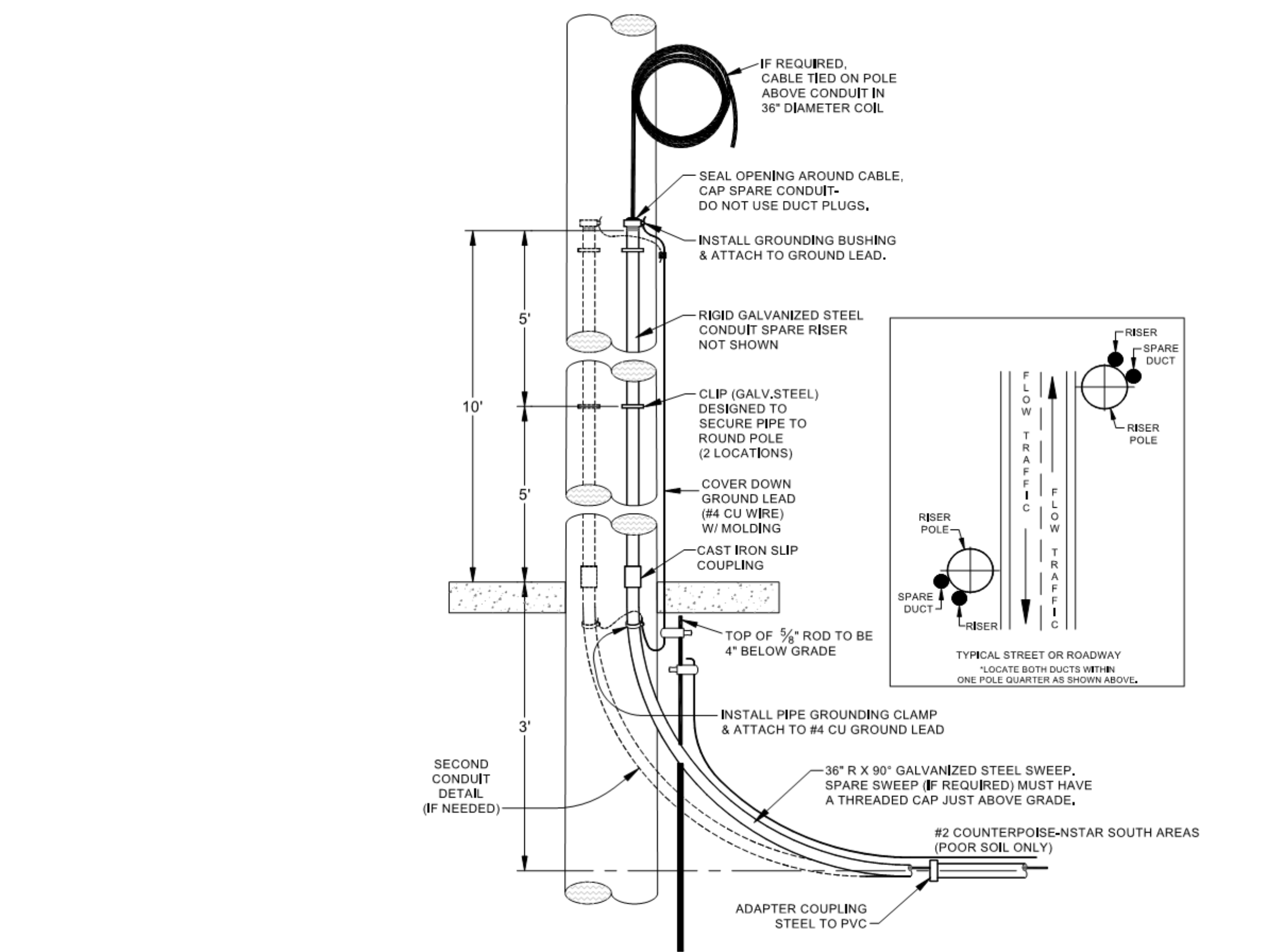
2 TYPICAL UTILITY MANHOLE  
NOT TO SCALE



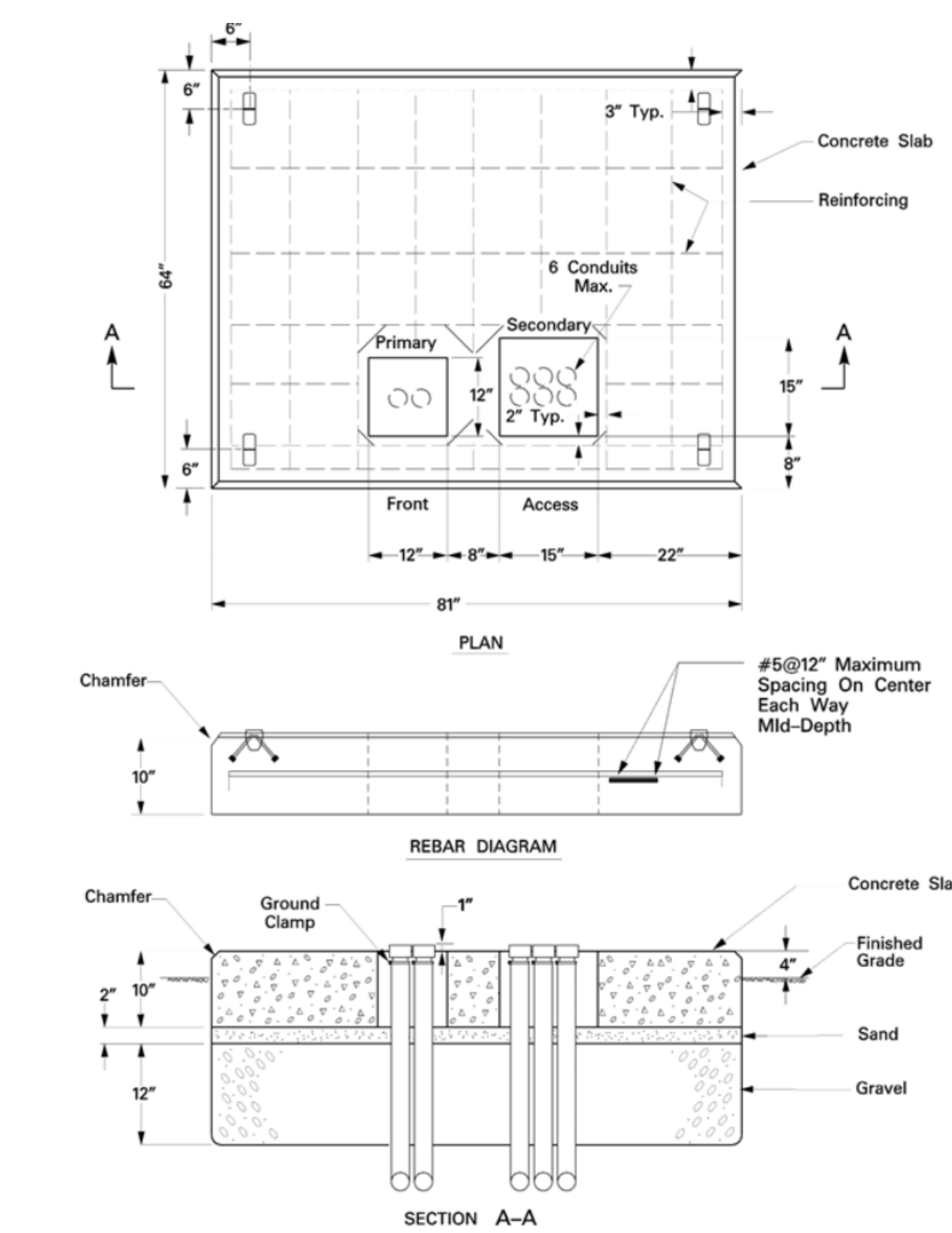
3 REINFORCED CONCRETE MANHOLE  
NOT TO SCALE



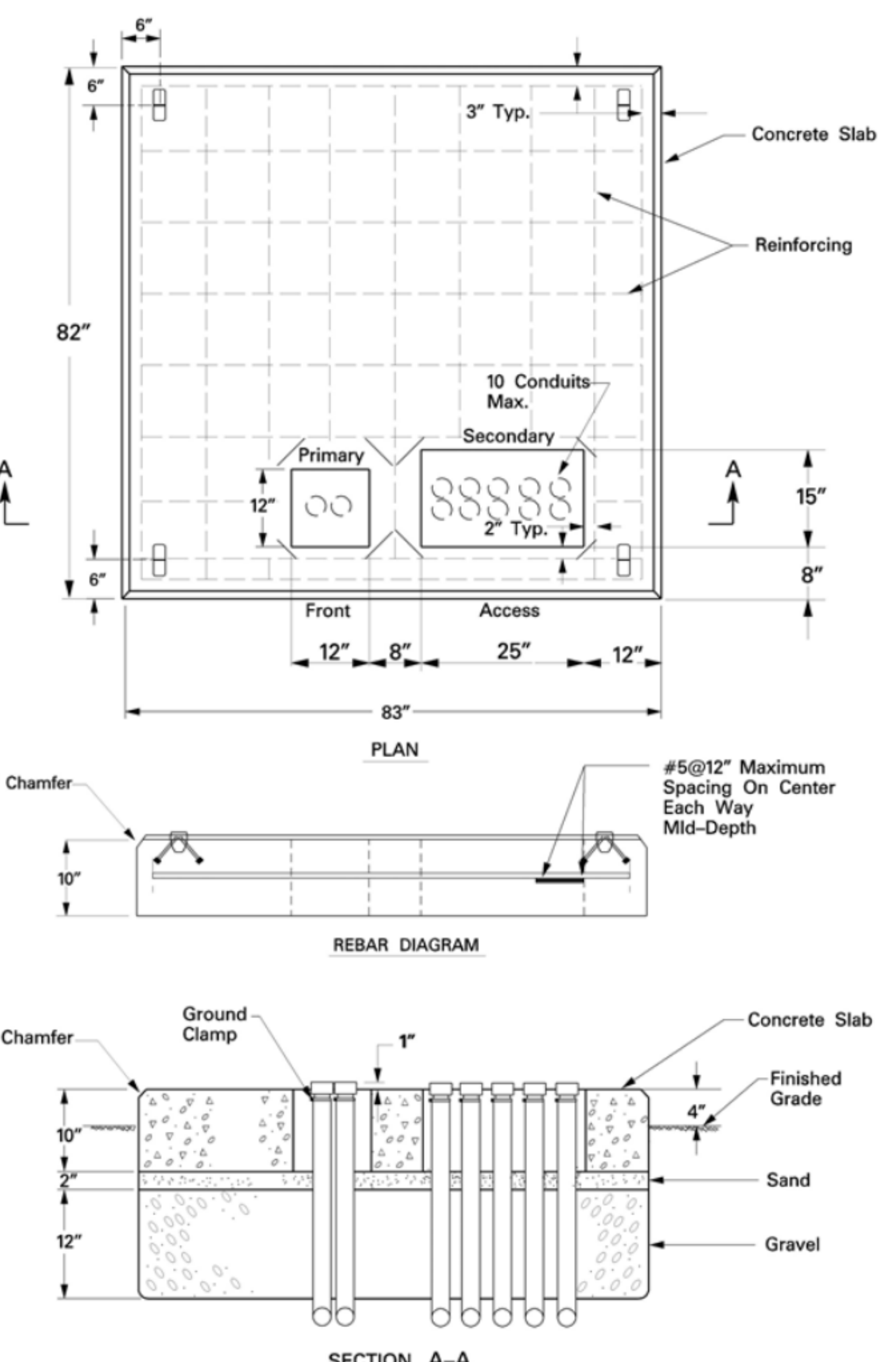
4 TYPICAL UTILITY MANHOLE GROUNDING  
NOT TO SCALE



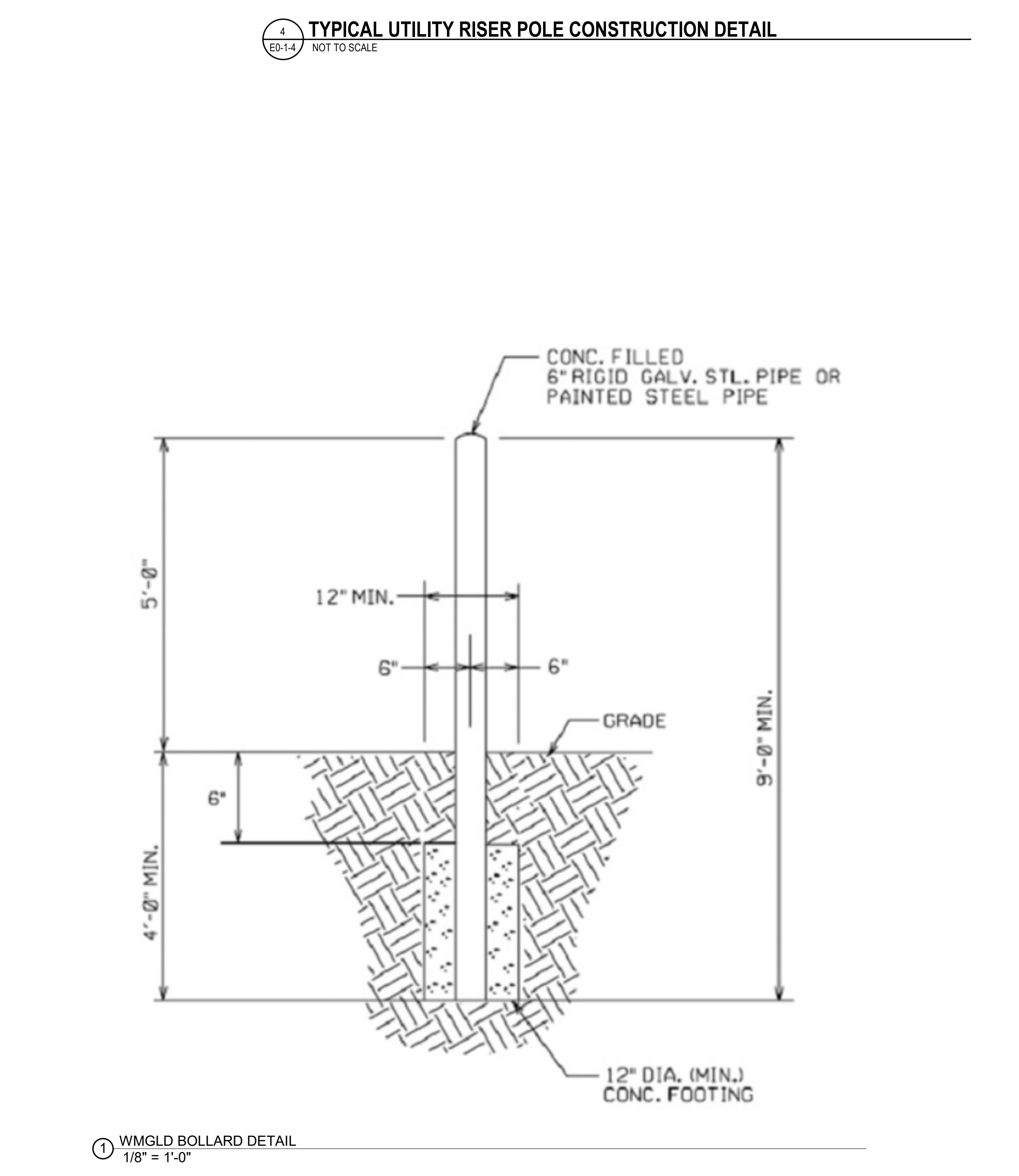
5 TYPICAL UTILITY RISER POLE CONSTRUCTION DETAIL  
NOT TO SCALE



6 WGLD 15KV 75-500KVA TRANSFORMER PAD DETAIL  
1/8" = 1'-0"

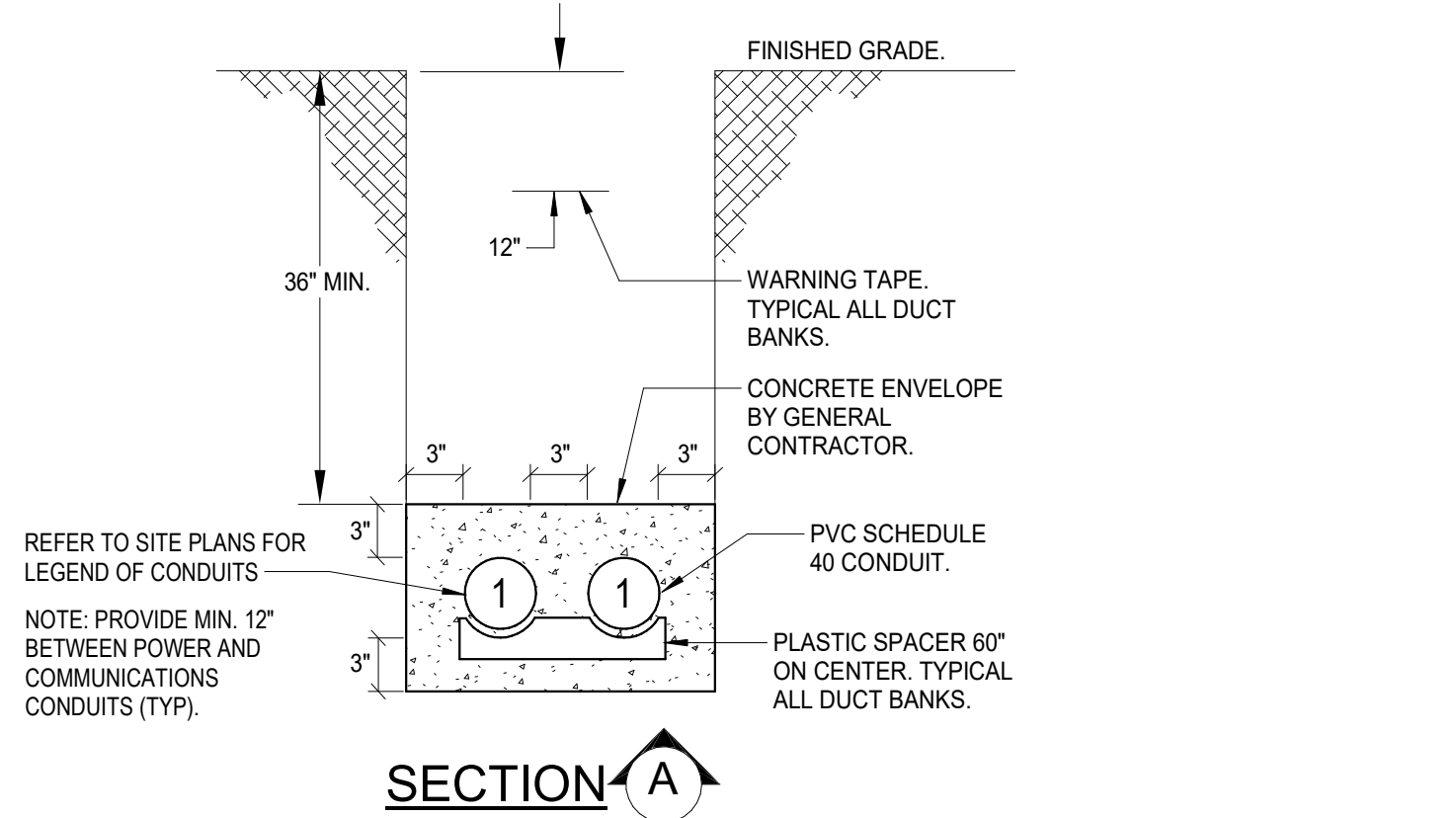


7 WGLD 15KV 750-2500KVA TRANSFORMER PAD DETAIL  
1/8" = 1'-0"



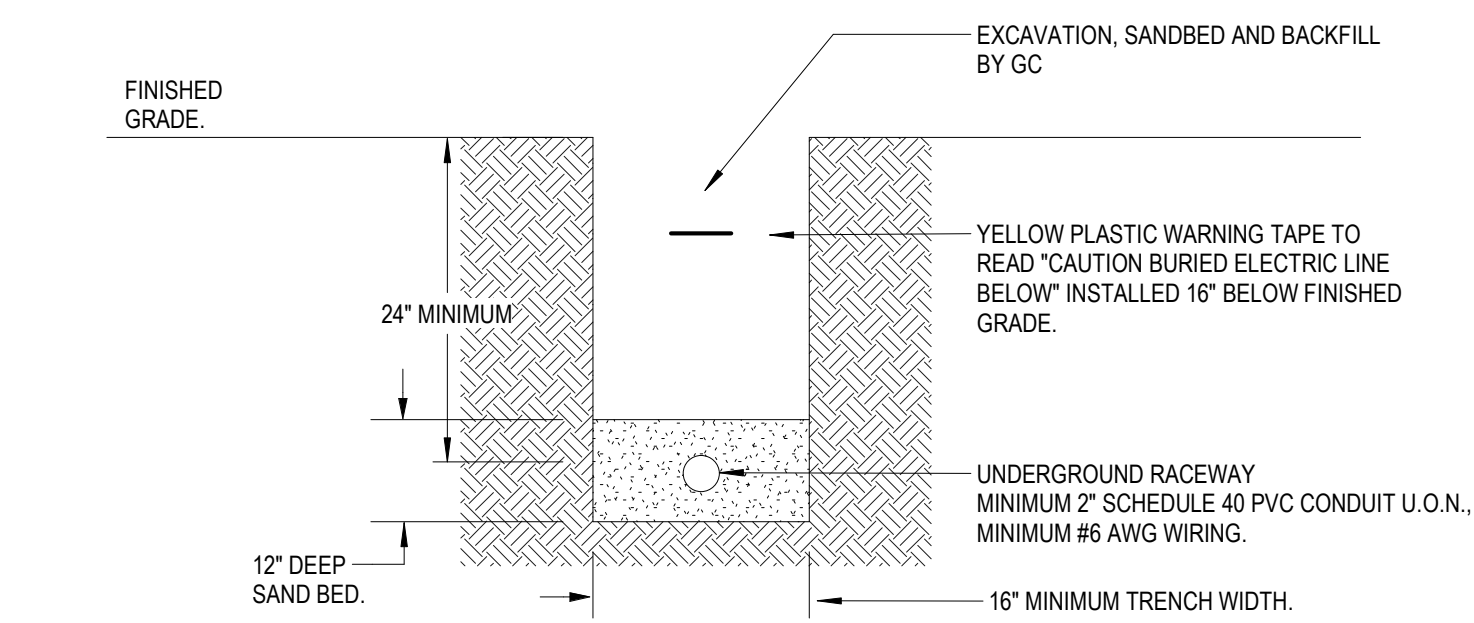
8 WGLD BOLLARD DETAIL  
1/8" = 1'-0"





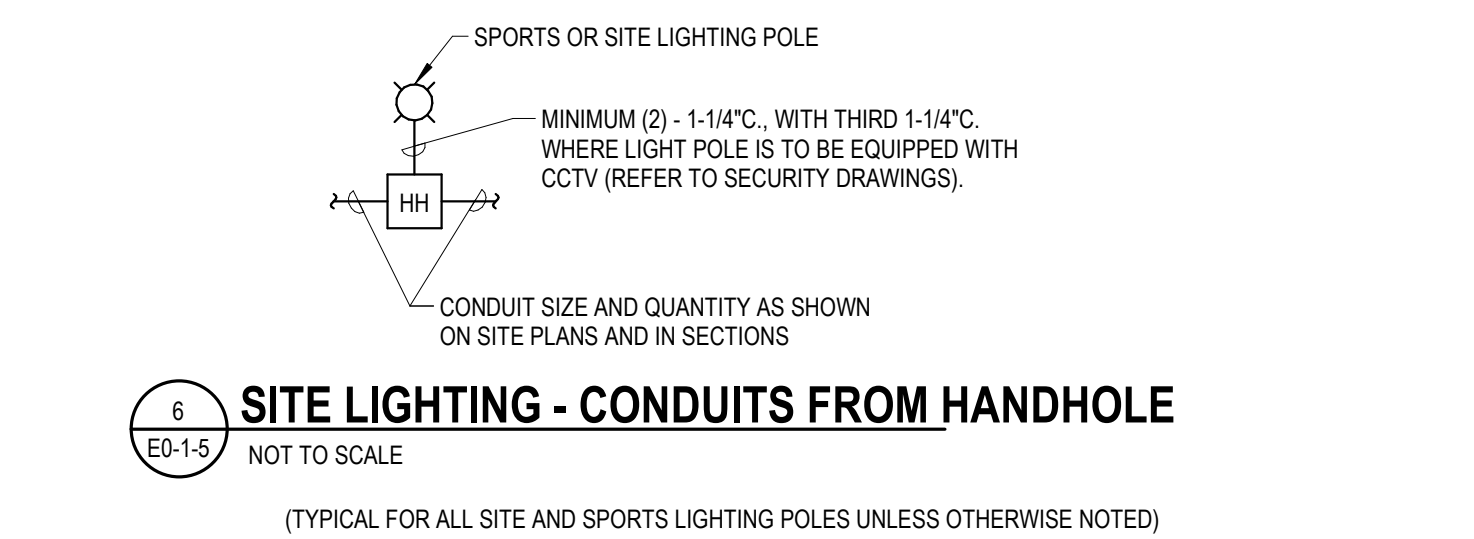
1  
E0-1.5  
NOT TO SCALE

**TYPICAL CONCRETE ENCASED DUCTBANK DETAIL**



3  
E0-1.5  
NOT TO SCALE

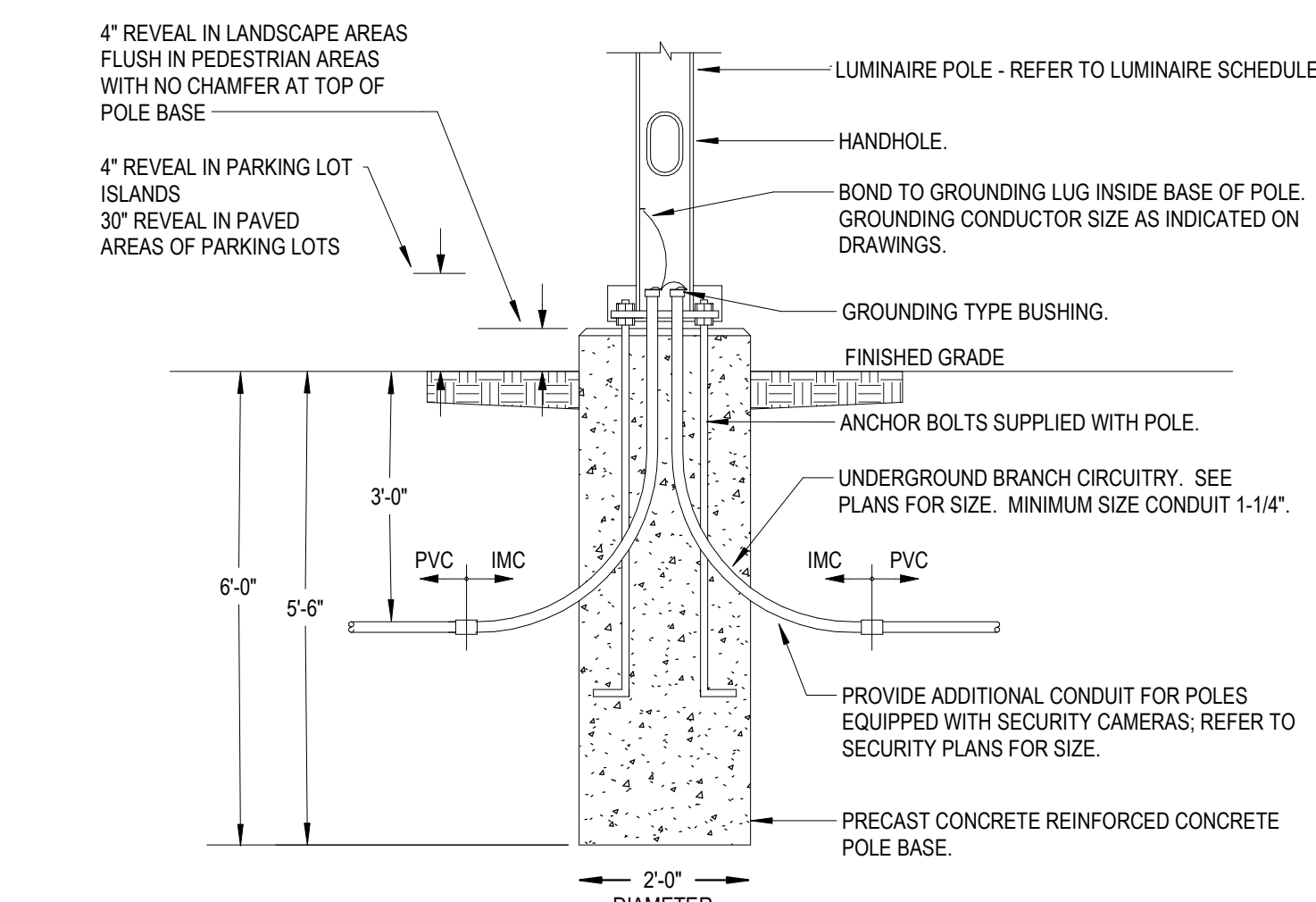
**TYPICAL DIRECT BURIED RACEWAY DETAIL**



5  
E0-1.5  
NOT TO SCALE

**SITE LIGHTING - CONDUITS FROM HANDHOLE**

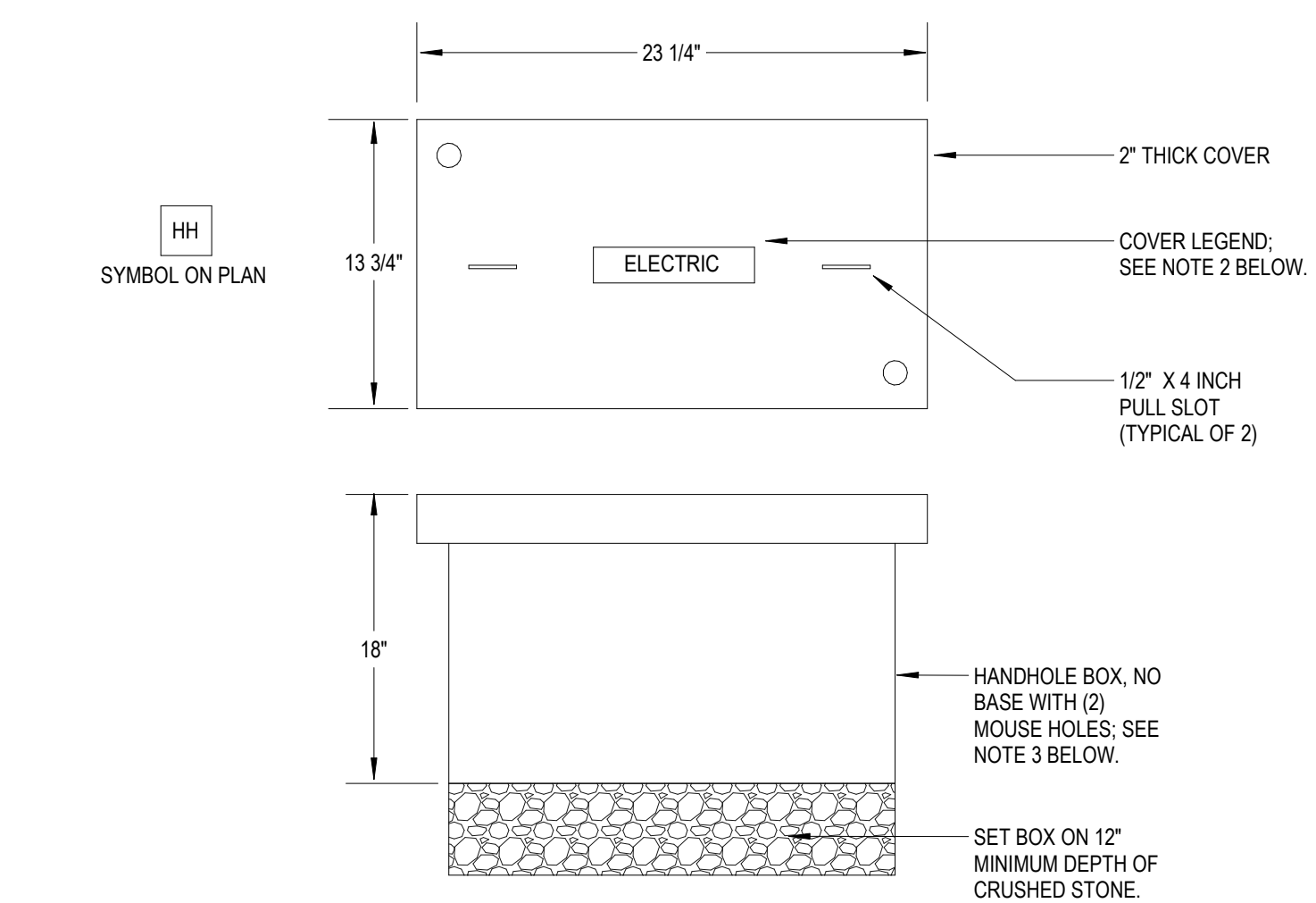
(TYPICAL FOR ALL SITE AND SPORTS LIGHTING POLES UNLESS OTHERWISE NOTED)



4  
E0-1.5  
NOT TO SCALE

**PRECAST CONCRETE POLE BASE DETAIL**

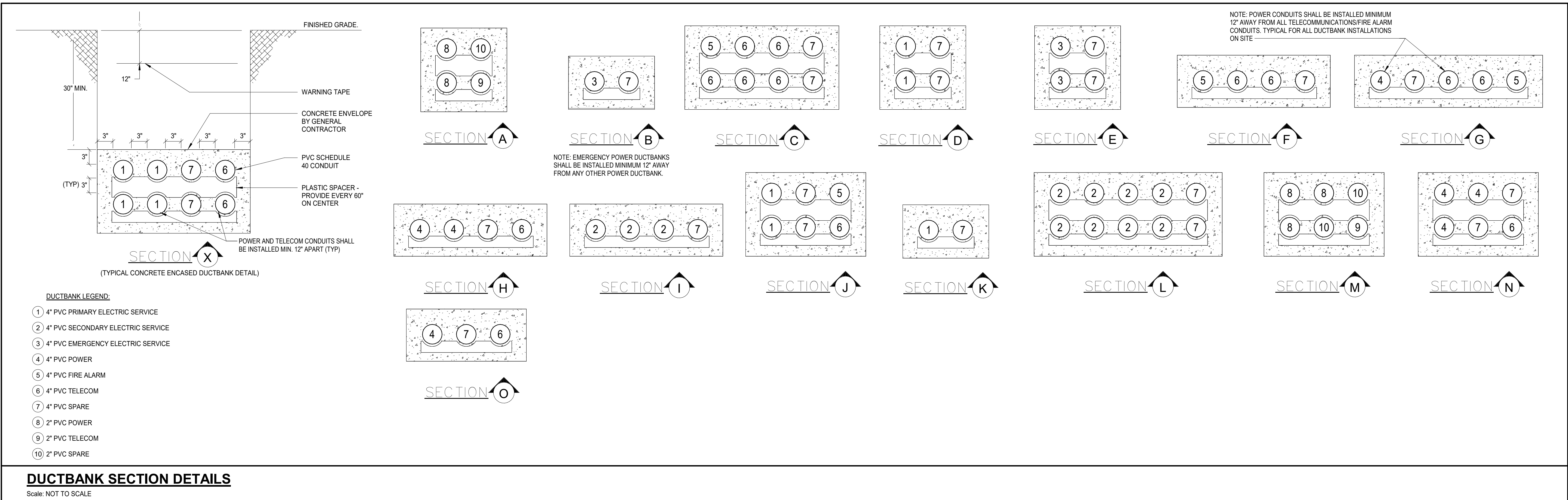
(TYP FOR SITE LIGHTING POLES UNLESS OTHERWISE NOTED)



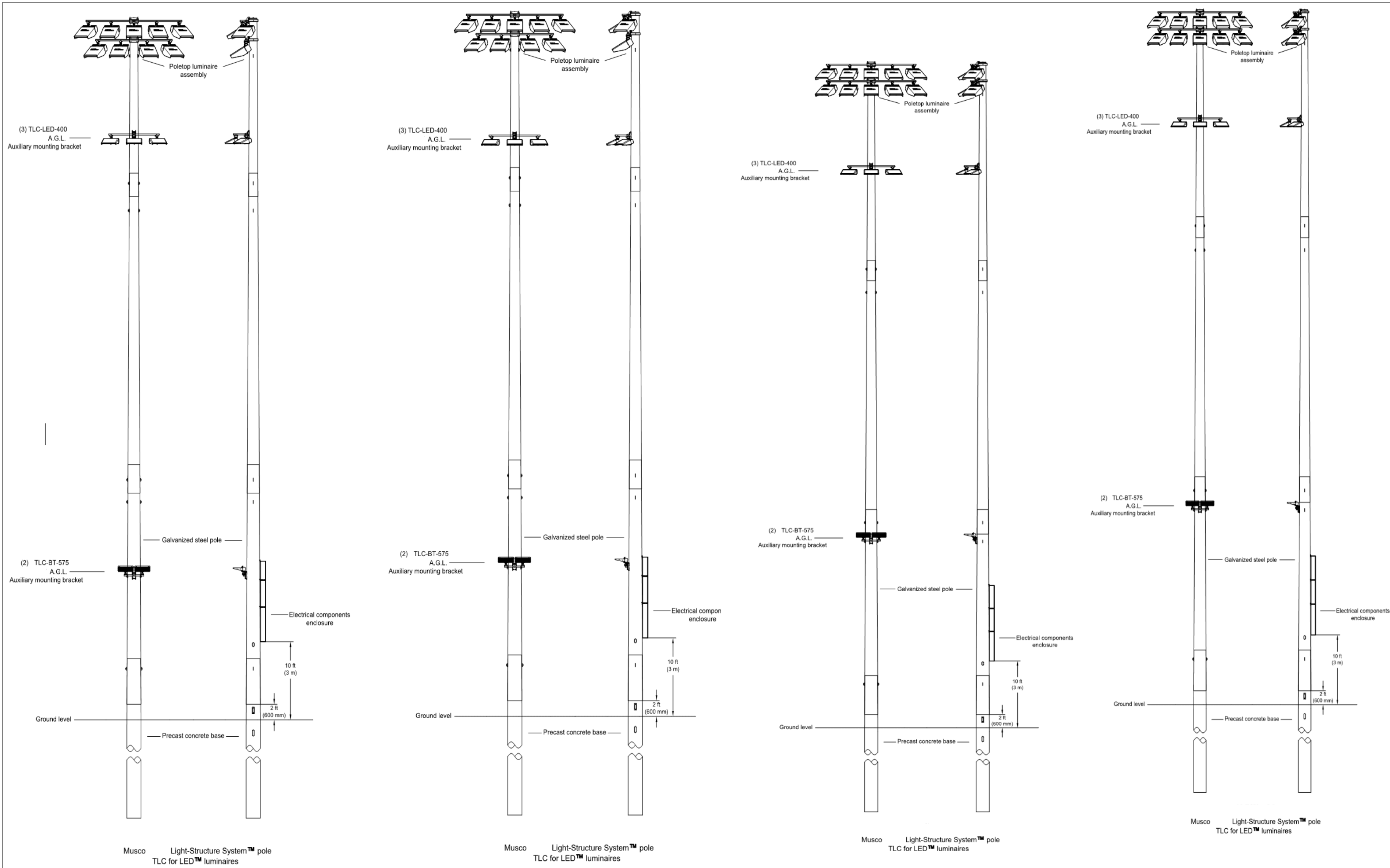
2  
E0-1.5  
NOT TO SCALE

**TYPICAL STACKABLE HANDHOLE DETAIL**

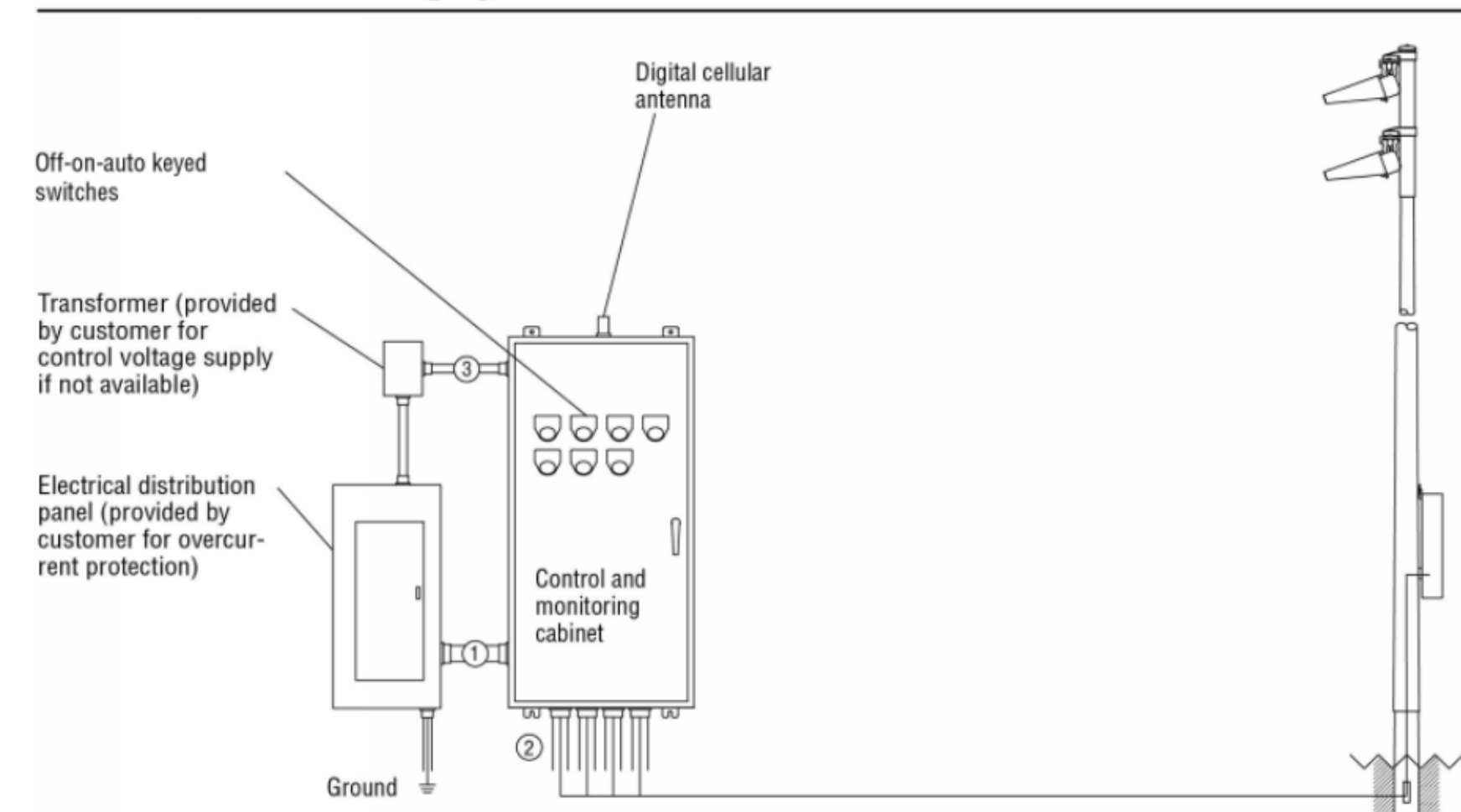
| NORTHEAST METROTECH SITE LIGHTING FIXTURE SCHEDULE |              |                                           |                      |            |           |         |       |           |                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------|--------------|-------------------------------------------|----------------------|------------|-----------|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE                                               | MANUFACTURER | CATALOG NUMBER                            | MOUNTING HEIGHT (FT) | DIST. TYPE | VOLTS     | LUMENS  | WATTS | CCT       | PRODUCT LINKS                                                                                                                                                                                                                                                                                                                                                   |
| EX-B1                                              | STERNBERG    | PT16-RT403-26L30T2-MDL05-SV2-FINISH       | 16                   | TYPE 2     | 120V-277V | 3440lm  | 49W   | 3000K LED | <a href="https://www.sternberglighting.com/files/view-file/supportfiles/2bfe6fb155b3e1b63aa18a17e567dbb9/504/locale_file/rt403-rialta-spec-sheet.pdf">https://www.sternberglighting.com/files/view-file/supportfiles/2bfe6fb155b3e1b63aa18a17e567dbb9/504/locale_file/rt403-rialta-spec-sheet.pdf</a>                                                           |
| EX-F1                                              | STERNBERG    | 1A-FL530-1L30T5-MDL07-SV2-F01S-FINISH     | 14                   | TYPE 5     | 120V-277V | 4280lm  | 41W   | 3000K LED | <a href="https://www.sternberglighting.com/files/view-file/supportfiles/d7a8e9cff7d1e0518af05ae81b2a13ee/16/locale_file/fl530-cob-flight-series.pdf">https://www.sternberglighting.com/files/view-file/supportfiles/d7a8e9cff7d1e0518af05ae81b2a13ee/16/locale_file/fl530-cob-flight-series.pdf</a>                                                             |
| EX-F1                                              | STERNBERG    | RSS14F400-D1-SL900-4-FINISH               | 14                   | N/A        | N/A       | N/A     | N/A   | N/A       | <a href="https://www.sternberglighting.com/files/view-file/supportfiles/b3c3cbcddeb2a3ce920929055718fa5c/483/locale_file/rss-urban-line-round-straight-steel-poles-spec-sheet.pdf">https://www.sternberglighting.com/files/view-file/supportfiles/b3c3cbcddeb2a3ce920929055718fa5c/483/locale_file/rss-urban-line-round-straight-steel-poles-spec-sheet.pdf</a> |
| EX-P1                                              | BEACON       | VP-1-160L-100-3K7-2-UNV-A4-FINISH         | 24                   | TYPE 2     | 120V-277V | 12500lm | 98W   | 3000K LED | <a href="https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf">https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf</a>                                                                                                                                                                                                                 |
| EX-P1                                              | BEACON       | RSS-B-24-50-B-1-B3-FINISH-RBC             | 24                   | N/A        | N/A       | N/A     | N/A   | N/A       | <a href="https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf">https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf</a>                                                                                                                                                                                       |
| EX-P1 BC                                           | BEACON       | VP-1-160L-100-3K7-2-UNV-A4-FINISH-BC      | 24                   | TYPE 2     | 120V-277V | 5892lm  | 98W   | 3000K LED | <a href="https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf">https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf</a>                                                                                                                                                                                                                 |
| EX-P1 BC                                           | BEACON       | RSS-B-24-50-B-1-B3-FINISH-RBC             | 24                   | N/A        | N/A       | N/A     | N/A   | N/A       | <a href="https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf">https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf</a>                                                                                                                                                                                       |
| EX-P2                                              | BEACON       | VP-1-160L-100-3K7-4W-UNV-A4-FINISH        | 24                   | TYPE 4W    | 120V-277V | 12500lm | 98W   | 3000K LED | <a href="https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf">https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf</a>                                                                                                                                                                                                                 |
| EX-P2                                              | BEACON       | RSS-B-24-50-B-1-B3-FINISH-RBC             | 24                   | N/A        | N/A       | N/A     | N/A   | N/A       | <a href="https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf">https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf</a>                                                                                                                                                                                       |
| EX-P3                                              | BEACON       | VP-1-160L-100-3K7-4W-UNV-A4-FINISH        | 24                   | TYPE 4W    | 120V-277V | 12500lm | 98W   | 3000K LED | <a href="https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf">https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf</a>                                                                                                                                                                                                                 |
| EX-P3                                              | BEACON       | RSS-B-24-50-B-2-B3-FINISH-RBC             | 24                   | N/A        | N/A       | N/A     | N/A   | N/A       | <a href="https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf">https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf</a>                                                                                                                                                                                       |
| EX-P4                                              | BEACON       | VP-1-160L-100-3K7-5QW-UNV-A4-FINISH       | 24                   | TYPE 5QW   | 120V-277V | 12500lm | 98W   | 3000K LED | <a href="https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf">https://cdn.currentlighting.com/site/specsheet/BEA_VIPERSPEC.pdf</a>                                                                                                                                                                                                                 |
| EX-P4                                              | BEACON       | RSS-B-24-50-B-1-B3-FINISH-RBC             | 24                   | N/A        | N/A       | N/A     | N/A   | N/A       | <a href="https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf">https://cdn.currentlighting.com/site/specsheet/spec_sheet_rss_pole_beacon.pdf</a>                                                                                                                                                                                       |
| EX-W1                                              | CREE         | OSQ-M-B-16L-30K7-4M-UL-OSQ-ML-B-DA-FINISH | 25                   | TYPE 4M    | 120V-277V | 16000lm | 104W  | 3000K LED | <a href="https://cree.widen.net/s/nv688mlj6n/osq-series-version-b-spec-sheet">https://cree.widen.net/s/nv688mlj6n/osq-series-version-b-spec-sheet</a>                                                                                                                                                                                                           |
| EX-W1                                              | CREE         | WM-DM-FINISH                              | 25                   | N/A        | N/A       | N/A     | N/A   | N/A       | <a href="https://cree.widen.net/s/h58g7wg9bp/bracket-and-tenon-spec-sheet-for-pole-and-wall-mount">https://cree.widen.net/s/h58g7wg9bp/bracket-and-tenon-spec-sheet-for-pole-and-wall-mount</a>                                                                                                                                                                 |







## Control-Link. Control and Monitoring System

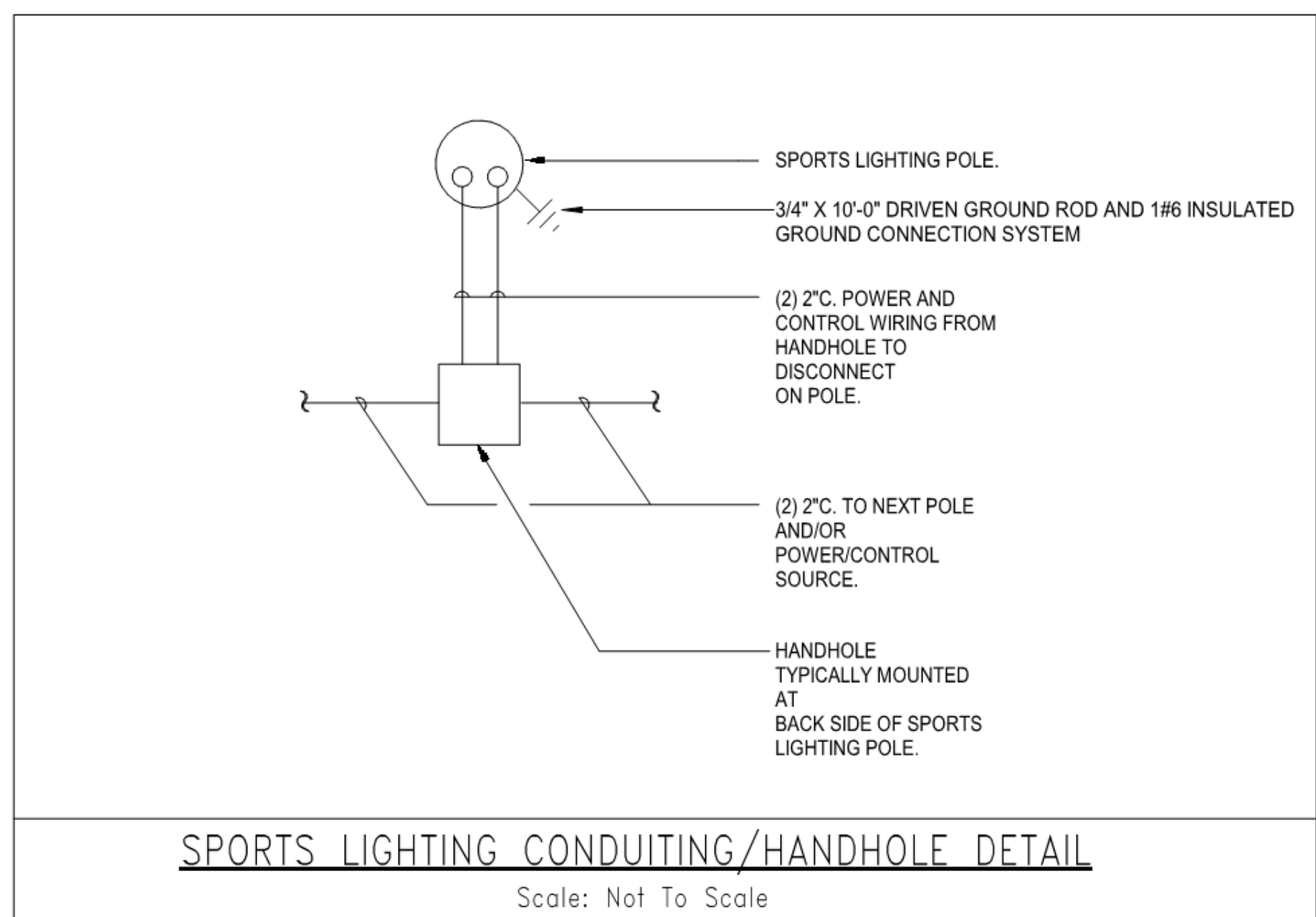


| Conduit | Description                                                        | # of Wires | Wire (AWG) | Conduit (in) | Max. Wire Length (ft) | MISC. Supplied | Notes |
|---------|--------------------------------------------------------------------|------------|------------|--------------|-----------------------|----------------|-------|
| 1       | Line power to contactors, and equipment grounding conductor        | *A         | *B         | *C           | N/A                   | No             | A-E   |
| 2       | Power-line Communication Connection (dedicated, 20A)               | *A         | 12         | *C           | N/A                   | No             | A-E   |
| 3       | Load power to lighting circuits, and equipment grounding conductor | *A         | *B         | *C           | N/A                   | No             | A-E   |
| 4       | Control power (dedicated, 20A)                                     | 3          | 12         | *C           | N/A                   | No             | C,E   |

\* Notes:  
A. See voltage and phasing per the notes on cover page.  
B. Calculate per load and voltage drop.  
C. All conduit diameters should be per code unless otherwise specified to allow for connector size.  
D. Equipment grounding conductor and any splices must be insulated.  
E. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).

## CONTROL AND MONITORING SYSTEM DETAIL



## LIGHTING SYSTEM DETAILS

NOT TO SCALE

| Panel: HSP        |                     |       |            |       |                    |        |      |       |        |                |                      |           |    |
|-------------------|---------------------|-------|------------|-------|--------------------|--------|------|-------|--------|----------------|----------------------|-----------|----|
| Location:         |                     |       |            |       | Volts: 480/277 Wye |        |      |       |        | A.I.C. Rating: |                      |           |    |
| Enclosure: Type 1 |                     |       |            |       | MCB Rating: 250 A  |        |      |       |        |                |                      |           |    |
| CKT               | Circuit Description | Type  | Trip       | Poles | A                  | B      | C    | Poles | Trip   | Type           | Circuit Description  | CKT       |    |
| 1                 |                     |       |            |       | 553...             | 0 VA   |      |       |        |                |                      | 2         |    |
| 3                 | CONTACTOR           |       | 30 A       | 3     |                    | 553... | 0 VA |       | 3      | 30 A           | CONTACTOR            | 4         |    |
| 5                 |                     |       |            |       |                    |        |      |       |        |                |                      | 6         |    |
| 7                 |                     |       |            |       | 0 VA               | 0 VA   |      |       | 553... | 0 VA           |                      | 8         |    |
| 9                 | CONTACTOR           |       | 30 A       | 3     |                    |        | 0 VA | 0 VA  |        | 3              | 30 A                 | CONTACTOR | 10 |
| 11                |                     |       |            |       |                    |        |      |       | 0 VA   | 0 VA           |                      | 12        |    |
| 13                |                     |       |            |       | 0 VA               | 0 VA   |      |       |        |                |                      | 14        |    |
| 15                | CONTACTOR           |       | 30 A       | 3     |                    |        | 0 VA | 0 VA  |        | 3              | 30 A                 | CONTACTOR | 16 |
| 17                |                     |       |            |       |                    |        |      |       | 0 VA   | 0 VA           |                      | 18        |    |
| 19                |                     |       |            |       | 0 VA               | 0 VA   |      |       |        |                |                      | 20        |    |
| 21                | CONTACTOR           |       | 30 A       | 3     |                    |        | 0 VA | 0 VA  |        | 3              | 30 A                 | CONTACTOR | 22 |
| 23                |                     |       |            |       |                    |        |      |       |        |                |                      | 24        |    |
| 25                |                     |       |            |       | 0 VA               | 0 VA   |      |       | 0 VA   | 0 VA           |                      | 26        |    |
| 27                | SPARE               |       | 30 A       | 3     |                    |        | 0 VA | 0 VA  |        | 3              | 60 A                 | SPARE     | 28 |
| 29                |                     |       |            |       |                    |        |      |       | 0 VA   | 0 VA           |                      | 30        |    |
| 31                | SPACE AND HARDWARE  | --    | --         | --    | 0 VA               | 0 VA   |      |       | --     | --             | SPACE AND HARDWARE   | 32        |    |
| 33                | SPACE AND HARDWARE  | --    | --         | --    |                    |        | 0 VA | 0 VA  | --     | --             | SPACE AND HARDWARE   | 34        |    |
| 35                | SPACE AND HARDWARE  | --    | --         | --    |                    |        |      |       | 0 VA   | 0 VA           | --                   | 36        |    |
| 37                | SPACE AND HARDWARE  | --    | --         | --    | 0 VA               | 0 VA   |      |       | --     | --             | SPACE AND HARDWARE   | 38        |    |
| 39                | SPACE AND HARDWARE  | --    | --         | --    |                    |        | 0 VA | 0 VA  | --     | --             | SPACE AND HARDWARE   | 40        |    |
| 41                | SPACE AND HARDWARE  | --    | --         | --    |                    |        |      |       | 0 VA   | 0 VA           | --                   | 42        |    |
|                   |                     |       |            |       |                    |        |      |       |        |                | Panel Totals         |           |    |
| Legend:           |                     |       |            |       |                    |        |      |       |        |                |                      |           |    |
| AF                | Arc Fault           | ST    | Shunt Trip |       |                    |        |      |       |        |                |                      |           |    |
| GF                | Ground Fault        | Blank | Standard   |       |                    |        |      |       |        |                | Total Conn. Current: | 200 A     |    |

| PANEL SUMMARY |                         |              |                     |                |                                   |                                      |
|---------------|-------------------------|--------------|---------------------|----------------|-----------------------------------|--------------------------------------|
| CABINET #     | CONTROL MODULE LOCATION | CONTACTOR ID | CIRCUIT DESCRIPTION | FULL LOAD AMPS | DISTRIBUTION PANEL ID (BY OTHERS) | CIRCUIT BREAKER POSITION (BY OTHERS) |
| 1             | 1                       | C1           | Pole S1             | 21.74          |                                   |                                      |
| 1             | 1                       | C2           | Pole S2             | 21.74          |                                   |                                      |
| 1             | 1                       | C3           | Pole S3             | 23.69          |                                   |                                      |
| 1             | 1                       | C4           | Pole S4             | 23.69          |                                   |                                      |
| 1             | 1                       | C5           | Pole S1             | 2.60           |                                   |                                      |
| 1             | 1                       | C6           | Pole S2             | 2.60           |                                   |                                      |
| 1             | 1                       | C7           | Pole S3             | 2.60           |                                   |                                      |
| 1             | 1                       | C8           | Pole S4             | 2.60           |                                   |                                      |

| ZONE SCHEDULE |                 |                  |                      |                      |
|---------------|-----------------|------------------|----------------------|----------------------|
| ZONE          | SELECTOR SWITCH | ZONE DESCRIPTION | POLE ID              | CONTACTOR ID         |
| Zone 1        | 1               | Soccer/Football  | S1<br>S2<br>S3<br>S4 | C1<br>C2<br>C3<br>C4 |
| Zone 2        | 2               | Track            | S1<br>S2<br>S3<br>S4 | C5<br>C6<br>C7<br>C8 |

## SWITCHING SCHEDULE

| Field/Zone Description | Zones |
|------------------------|-------|
| Soccer/Football        | 1     |
| Track                  | 2     |

| CONTROL POWER CONSUMPTION              |                                 |
|----------------------------------------|---------------------------------|
| 120V Single Phase                      |                                 |
| VA loading of Musco Supplied Equipment | INRUSH: 2533.0<br>SEALED: 283.8 |

| CIRCUIT SUMMARY BY ZONE |                     |               |              |                |                       |              |
|-------------------------|---------------------|---------------|--------------|----------------|-----------------------|--------------|
| POLE                    | CIRCUIT DESCRIPTION | # OF FIXTURES | # OF DRIVERS | FULL LOAD AMPS | CONTACTOR SIZE (AMPS) | CONTACTOR ID |
| S1                      | Soccer/Football     | 11            | 11           | 21.7           | 30                    | C1           |
| S2                      | Soccer/Football     | 11            | 11           | 21.7           | 30                    | C2           |
| S3                      | Soccer/Football     | 12            | 12           | 23.7           | 30                    | C3           |
| S4                      | Soccer/Football     | 12            | 12           | 23.7           | 30                    | C4           |
| S1                      | Track               | 3             | 2            | 2.6            | 30                    | C5           |
| S2                      | Track               | 3             | 2            | 2.6            | 30                    | C6           |
| S3                      | Track               | 3             | 2            | 2.6            | 30                    | C7           |
| S4                      | Track               | 3             | 2            | 2.6            | 30                    | C8           |

\*Full Load Amps based on amps per driver.

## CONTROL SYSTEM SUMMARY

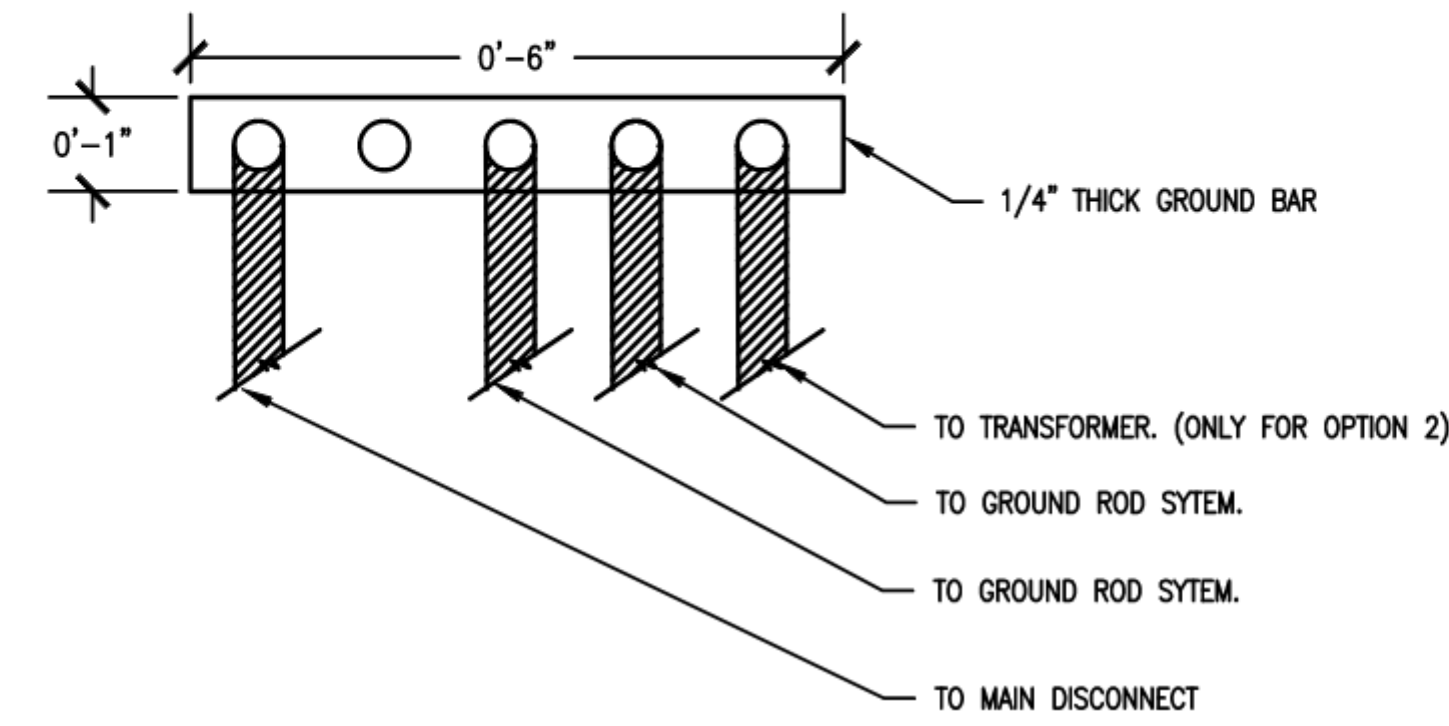
NOT TO SCALE

TYPICAL INSTALLATION FOR SOCCER/FOOTBALL FIELD AND TRACK



**Northeast  
Metropolitan  
Regional  
Vocational High  
School**

Wakefield, MA 01880

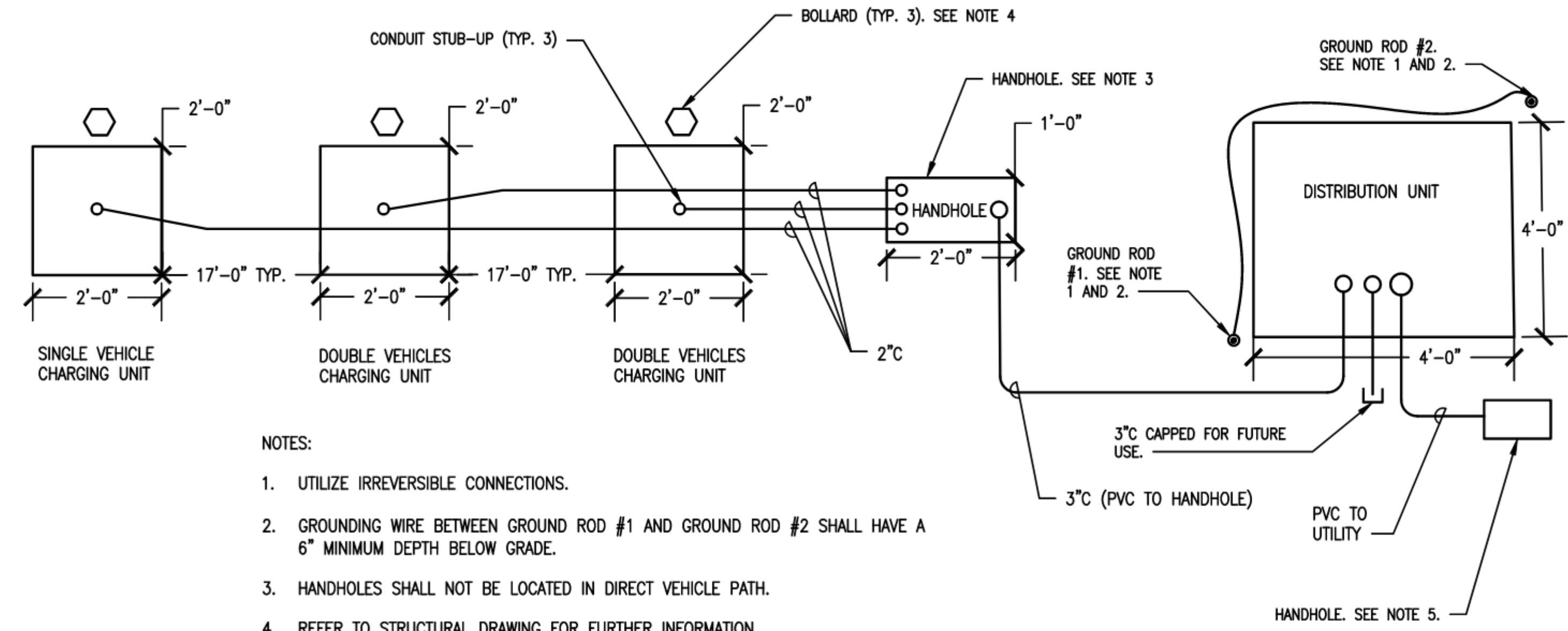


NOTES:

1. REFER TO ONE-LINE DIAGRAM, DRAWING E100, AND GROUND WIRING DETAIL, DRAWING E200, FOR CONDUCTOR SIZING.
2. REFER TO PAD MOUNT DISTRIBUTION ENCLOSURE GROUNDING DETAIL FOR LOCATION OF GROUND RODS.

ENCLOSURE GROUNDING BAR DETAIL

SCALE:1/2"=1'-0"

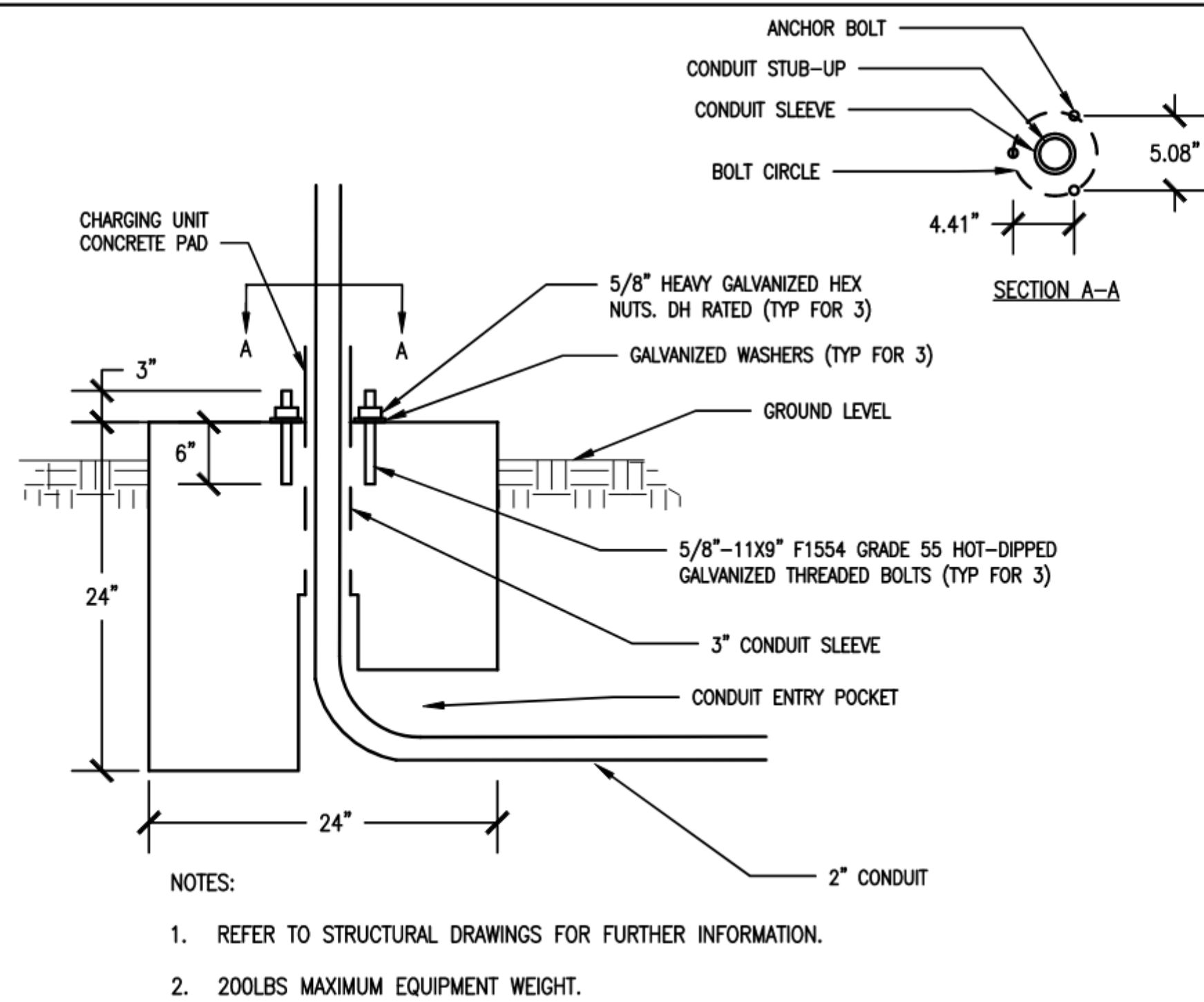


NOTES:

1. UTILIZE IRREVERSIBLE CONNECTIONS.
2. GROUNDING WIRE BETWEEN GROUND ROD #1 AND GROUND ROD #2 SHALL HAVE A 6" MINIMUM DEPTH BELOW GRADE.
3. HANDHOLES SHALL NOT BE LOCATED IN DIRECT VEHICLE PATH.
4. REFER TO STRUCTURAL DRAWING FOR FURTHER INFORMATION.
5. HANDHOLE ON PRIMARY RACEWAY SYSTEM WITHIN 5 FEET OF UTILITY POLE OR PADMOUNT TRANSFORMER

5 VEHICLE SPACE PLAN VIEW

N.T.S

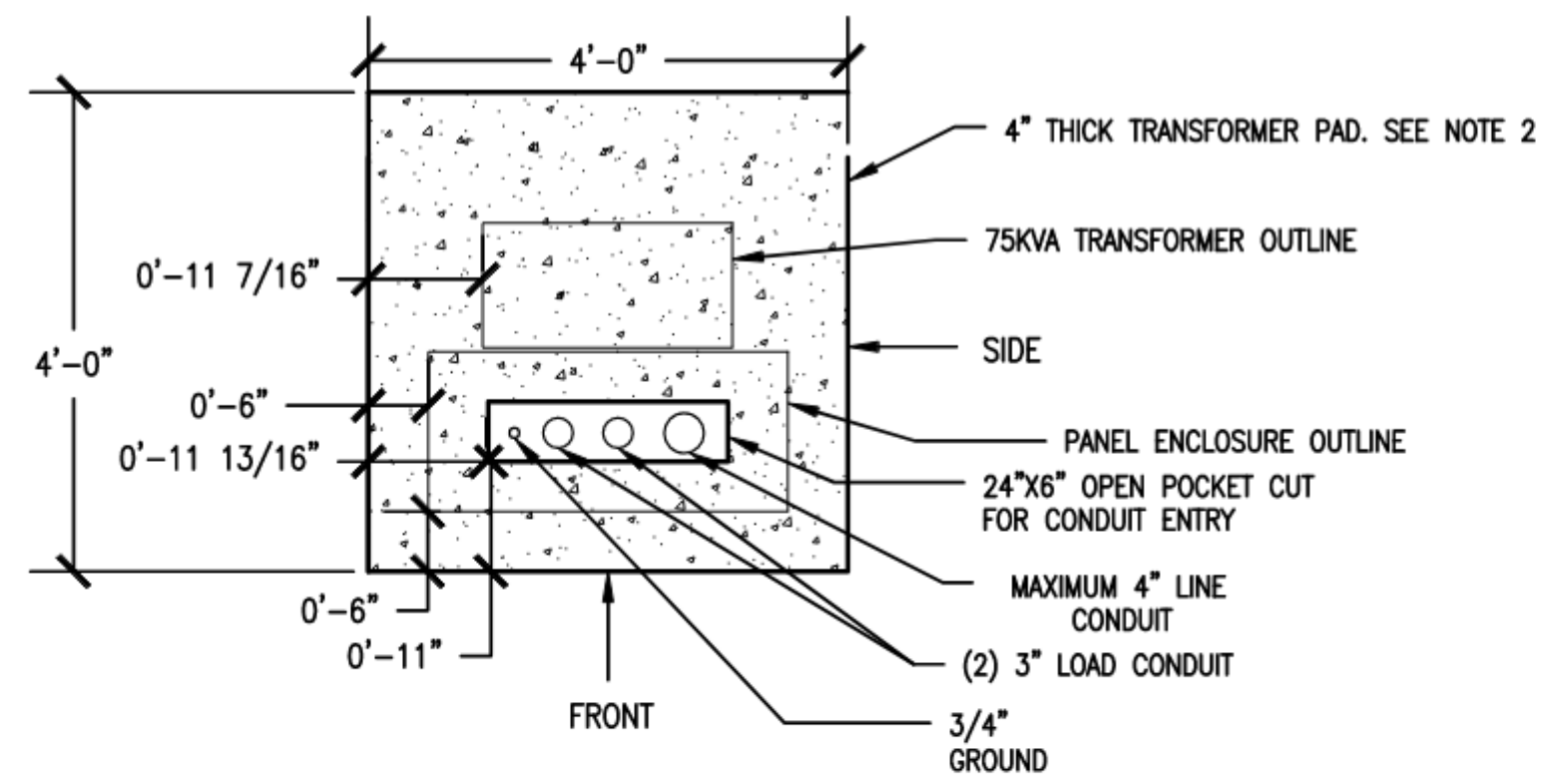


NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
2. 200LBS MAXIMUM EQUIPMENT WEIGHT.

CHARGING UNIT CONCRETE PAD ELEVATION DETAIL

NTS

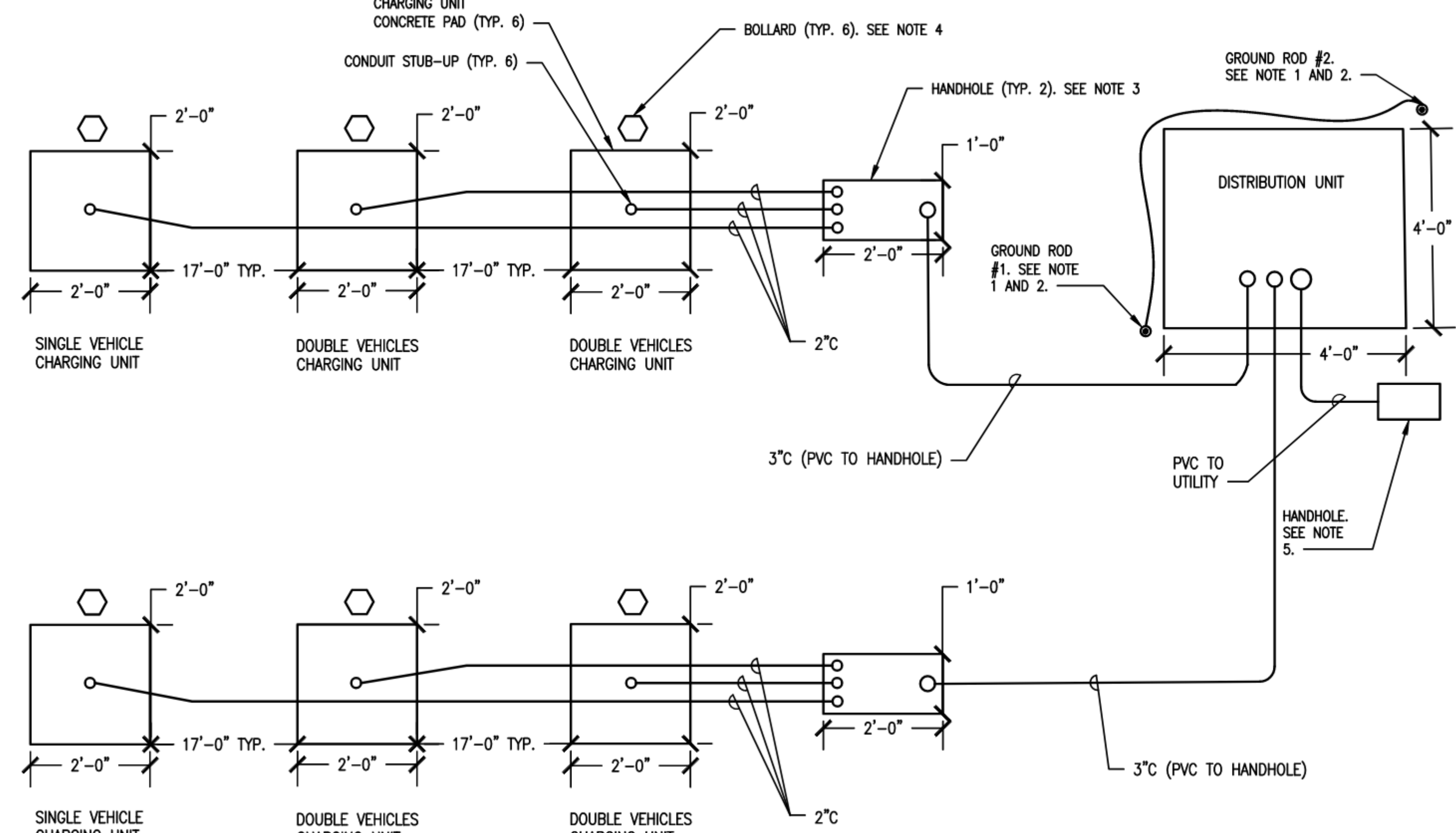


NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
2. DESIGN FOR 2000LBS MINIMUM LOAD.

PRE-MANUFACTURED DISTRIBUTION EQUIPMENT PAD DETAIL

SCALE:1/2"=1'-0"

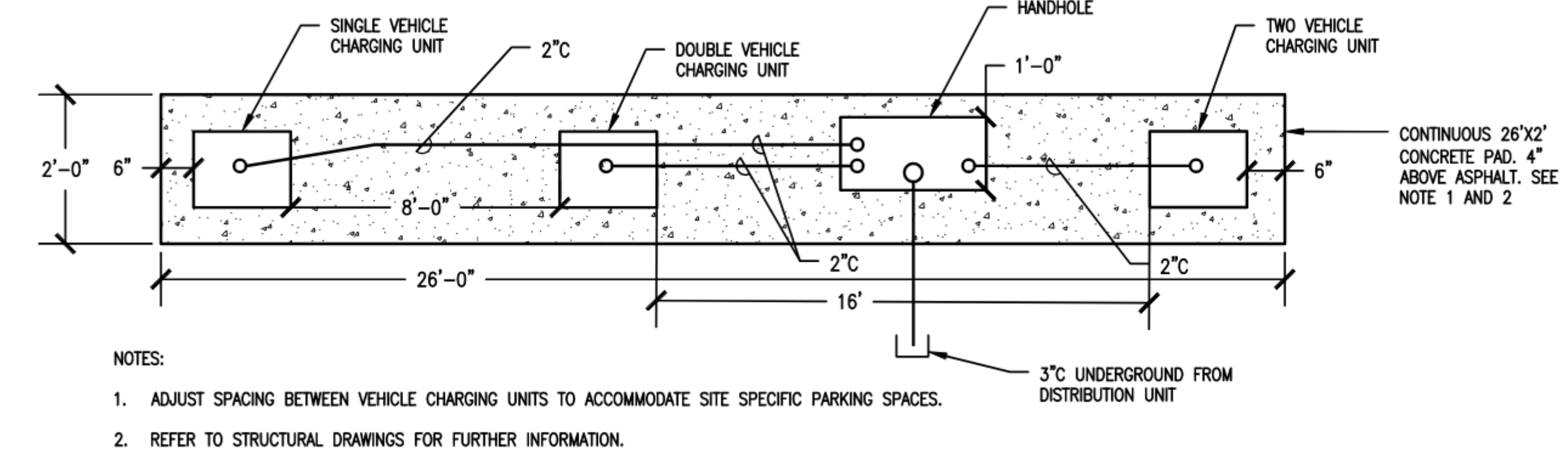


NOTES:

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2. GROUNDING WIRE BETWEEN GROUND ROD #1 AND GROUND ROD #2 SHALL HAVE A 6" MINIMUM DEPTH BELOW GRADE.
3. HANDHOLES SHALL NOT BE LOCATED IN DIRECT VEHICLE PATH.
4. REFER TO STRUCTURAL DRAWING FOR FURTHER INFORMATION.
5. HANDHOLE ON PRIMARY RACEWAY SYSTEM WITHIN 5 FEET OF UTILITY POLE OR PADMOUNT TRANSFORMER

10 VEHICLE SPACE PLAN VIEW

N.T.S



NOTES:

1. ADJUST SPACING BETWEEN VEHICLE CHARGING UNITS TO ACCOMMODATE SITE SPECIFIC PARKING SPACES.
2. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.

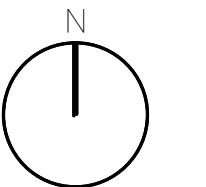
5 VEHICLE CONTINUOUS CONCRETE PAD PLAN VIEW

NTS

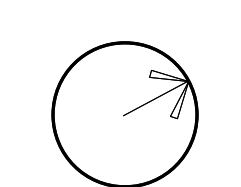
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January 13, 2023

PROJECT NORTH



MAGNETIC NORTH



**TYPICAL EVSE  
DETAILS**

Scale: 3/32" = 1'-0"

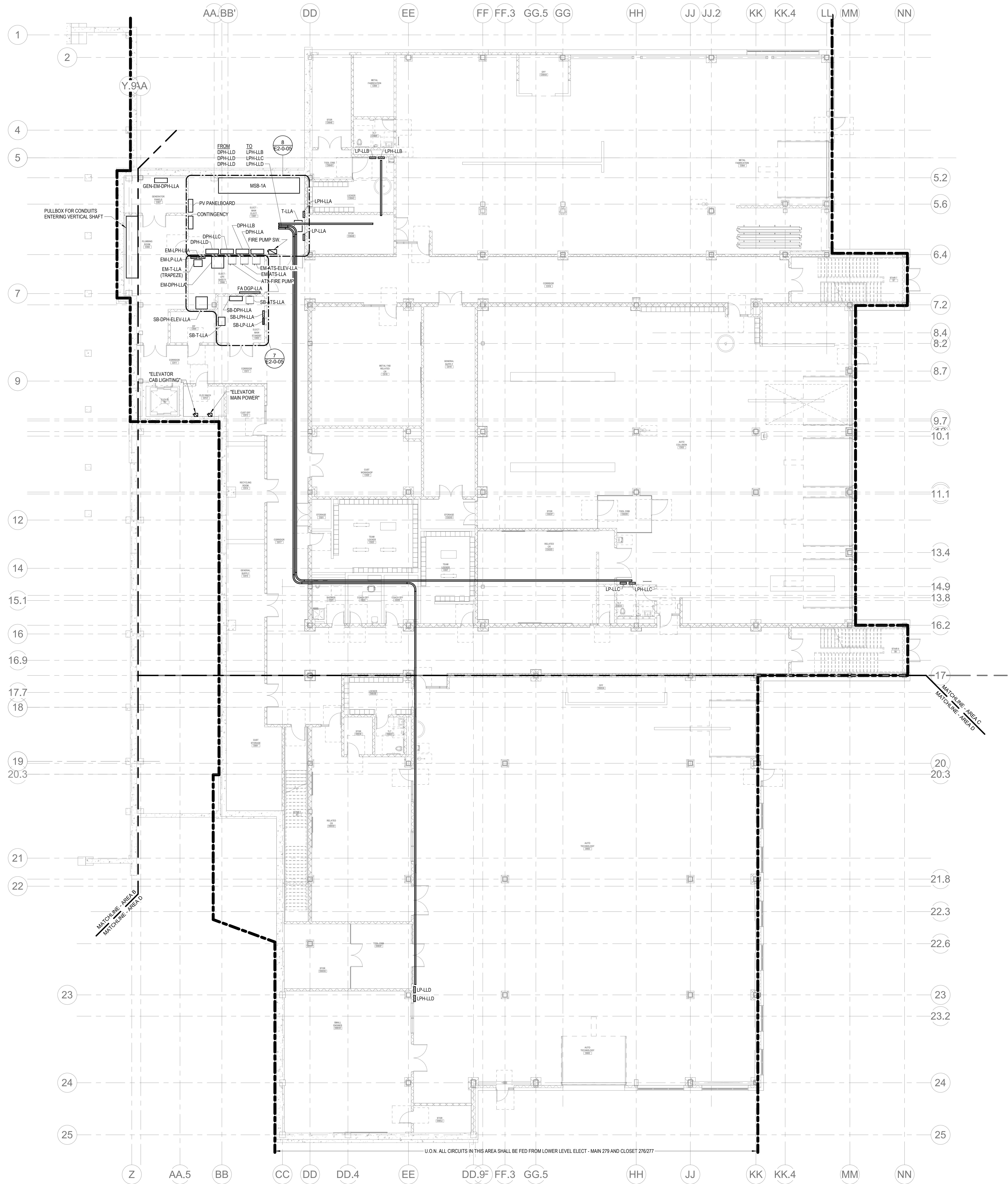
Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

E0-1-7





1 ELECTRICAL Level 0 OVERALL  
1" = 10'-0"

**GENERAL NOTES:**

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. OVERALL ELECTRICAL FLOOR PLANS SHOW LOCATIONS OF MAJOR DISTRIBUTION EQUIPMENT - SWITCHBOARDS, TRANSFER SWITCHES, TRANSFORMERS, PANEL BOARDS, AND CONDUIT RUNS FOR MAIN FEEDERS. REFER TO POWER AND LIGHTING AREA PLANS AND ENLARGED PLANS FOR LOCATIONS OF OTHER ELECTRICAL EQUIPMENT.



Drumme Rosane Anderson, Inc.  
225 Oakland Road  
Studio 205  
South Windsor, CT  
06074  
Tel: 817.984.1700  
www.dra-inc.com

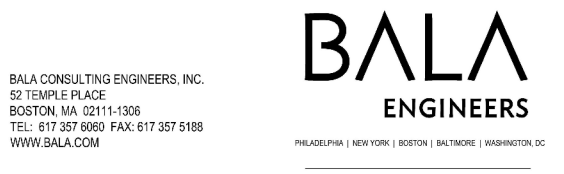
260 Charles Street  
Studio 300  
Waltham, MA  
02453

Planning | Architecture | Interior Design

**Northeast  
Metropolitan  
Regional  
Vocational High School**

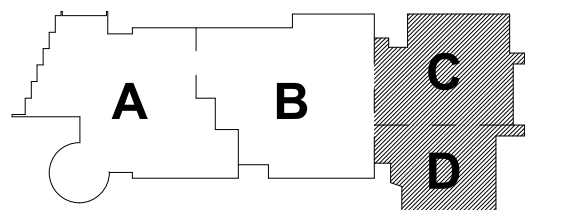
Wakefield, MA 01880

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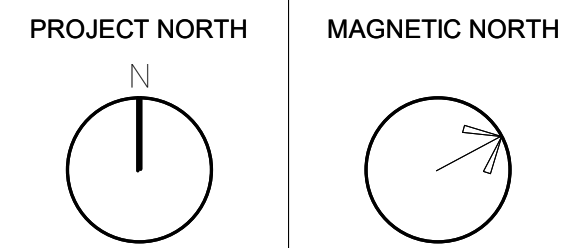


MSBA 60% CD  
SUBMISSION

January 13, 2023



**KEY PLAN**



**ELECTRICAL  
LOWER LEVEL  
FLOOR PLAN -  
OVERALL PLAN**

Scale: 1" = 10'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**E1-1-0**



DRA

Drumme Rosane Anderson, Inc.  
225 Oakland Road  
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06074  
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www.dra.com

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Wakefield, MA 01880

POWER GENERAL NOTES:

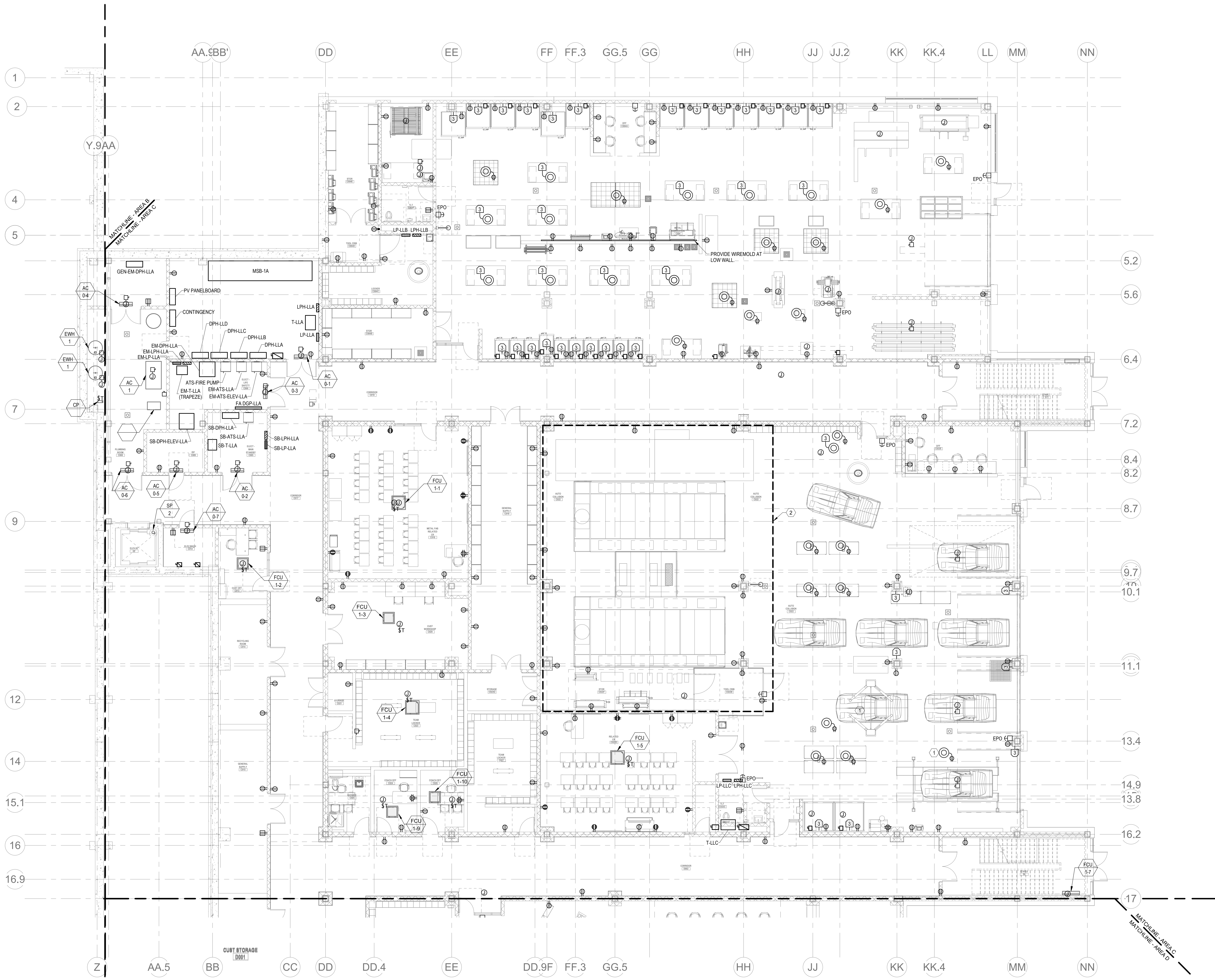
1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.1, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

KEY NOTES: (X)

1. PROVIDE 110/220V TYPE PULL DOWN RECEPTACLE.
2. PROVIDE EXPLOSION PROOF TYPE DEVICES AND FITTINGS WITHIN 10FT OF SPRAY BOOTH.

CIRCUIT LEGEND:

- A: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLA, CIRCUIT #  
U: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLB, CIRCUIT #  
V: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLC, CIRCUIT #  
AA: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLA, CIRCUIT #  
BB: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLB, CIRCUIT #  
BF: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLC, CIRCUIT #  
EJ: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLA, CIRCUIT #  
SA: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLA, CIRCUIT #  
SJ: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLA, CIRCUIT #



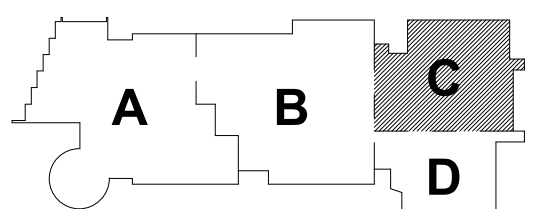
2 ELECTRICAL POWER Level 0 Area C  
1/8" = 1'-0"

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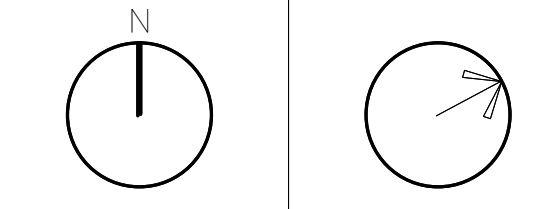
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
POWER LOWER  
LEVEL FLOOR  
PLAN - AREA C

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-0C



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**POWER GENERAL NOTES:**

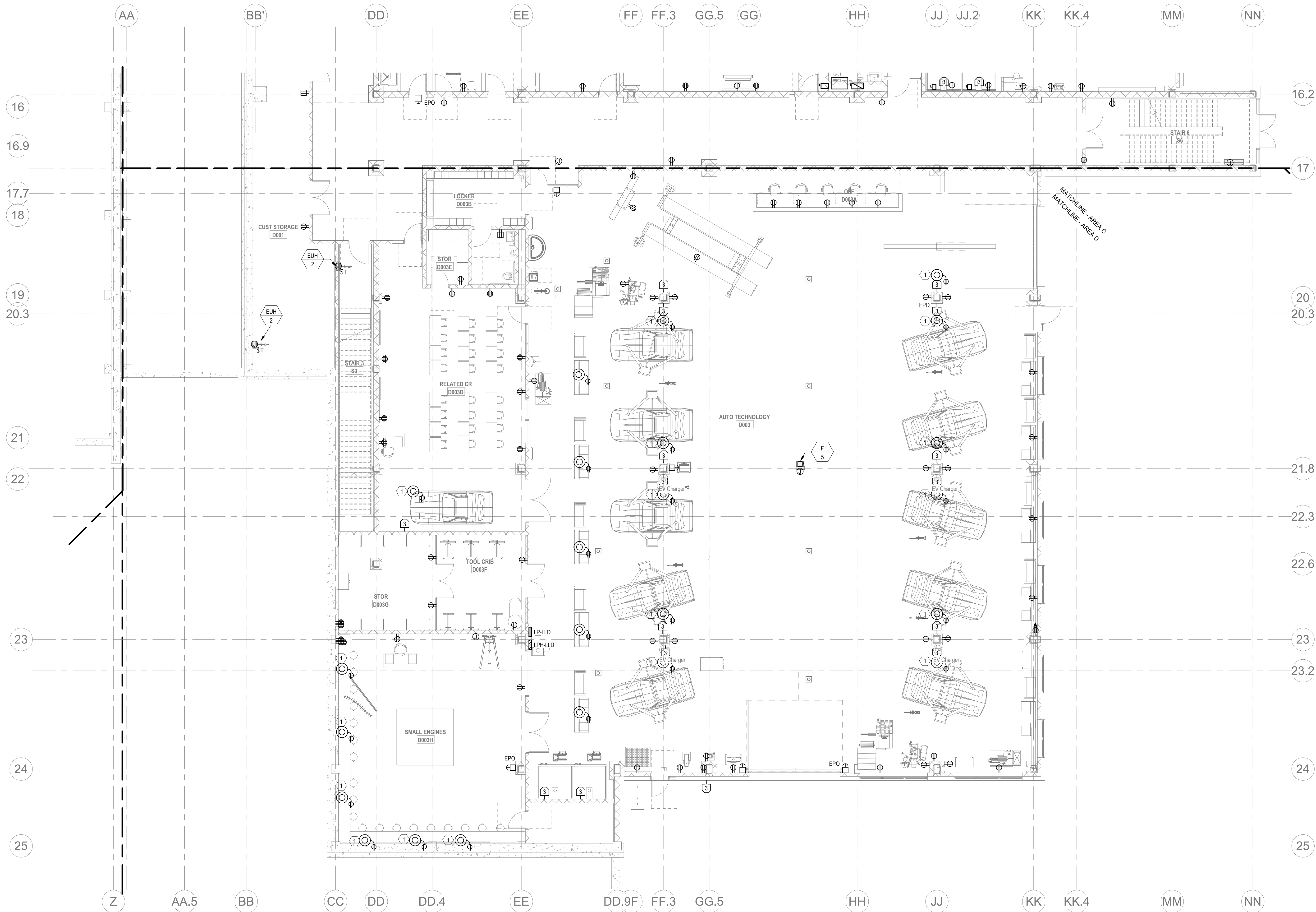
1. REFER TO E0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-3 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
3. REFER TO MECHANICAL FIRE PROTECTION AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
4. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
5. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**KEY NOTES:** (X)

1. PROVIDE 110/220V TYPE PULL DOWN RECEPTACLE.
2. PROVIDE EXPLOSION PROOF TYPE DEVICES AND FITTINGS WITHIN 10FT OF SPRAY BOOTHS.

**CIRCUIT LEGEND:**

A.# - DENOTES BRANCH CIRCUIT PANELBOARD (PHLLA, CIRCUIT #)  
W.# - DENOTES BRANCH CIRCUIT PANELBOARD (PHLLD, CIRCUIT #)  
AA.# - DENOTES BRANCH CIRCUIT PANELBOARD (LPLLA, CIRCUIT #)  
BB.# - DENOTES BRANCH CIRCUIT PANELBOARD (LPLLD, CIRCUIT #)  
EJ.# - DENOTES BRANCH CIRCUIT PANELBOARD (EMPLLA, CIRCUIT #)  
SA.# - DENOTES BRANCH CIRCUIT PANELBOARD (SLLPLLA, CIRCUIT #)  
SJ.# - DENOTES BRANCH CIRCUIT PANELBOARD (SLLPLLD, CIRCUIT #)



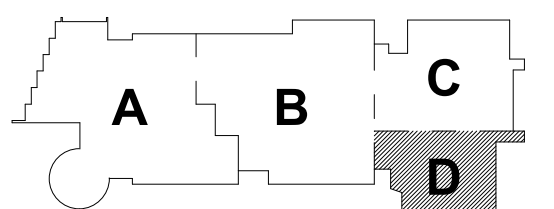
2 ELECTRICAL POWER Level 0 Area D  
1/8" = 1'-0"

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WWW.BALA-ENGINEERS.COM

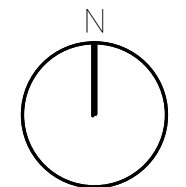
MSBA 60% CD  
SUBMISSION

January 13, 2023

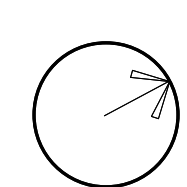


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**ELECTRICAL  
POWER LOWER  
LEVEL FLOOR  
PLAN - AREA D**

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

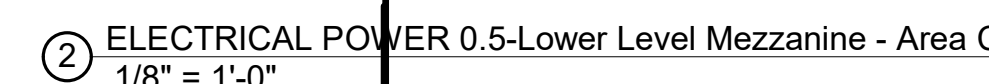
Date: January 13, 2023

**E1-1-0D**



1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK
2. REFER TO E3-0.1, 1 AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL, PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E0-0 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OR EQUIPMENT NOTED ON THESE PLANS WITH RESPECT TO ELECTRICAL REQUIREMENTS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH FACE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION AND PROTECTION TO BE PROVIDED.

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Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-MC





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260 Charles Street  
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Waltham, MA  
02453

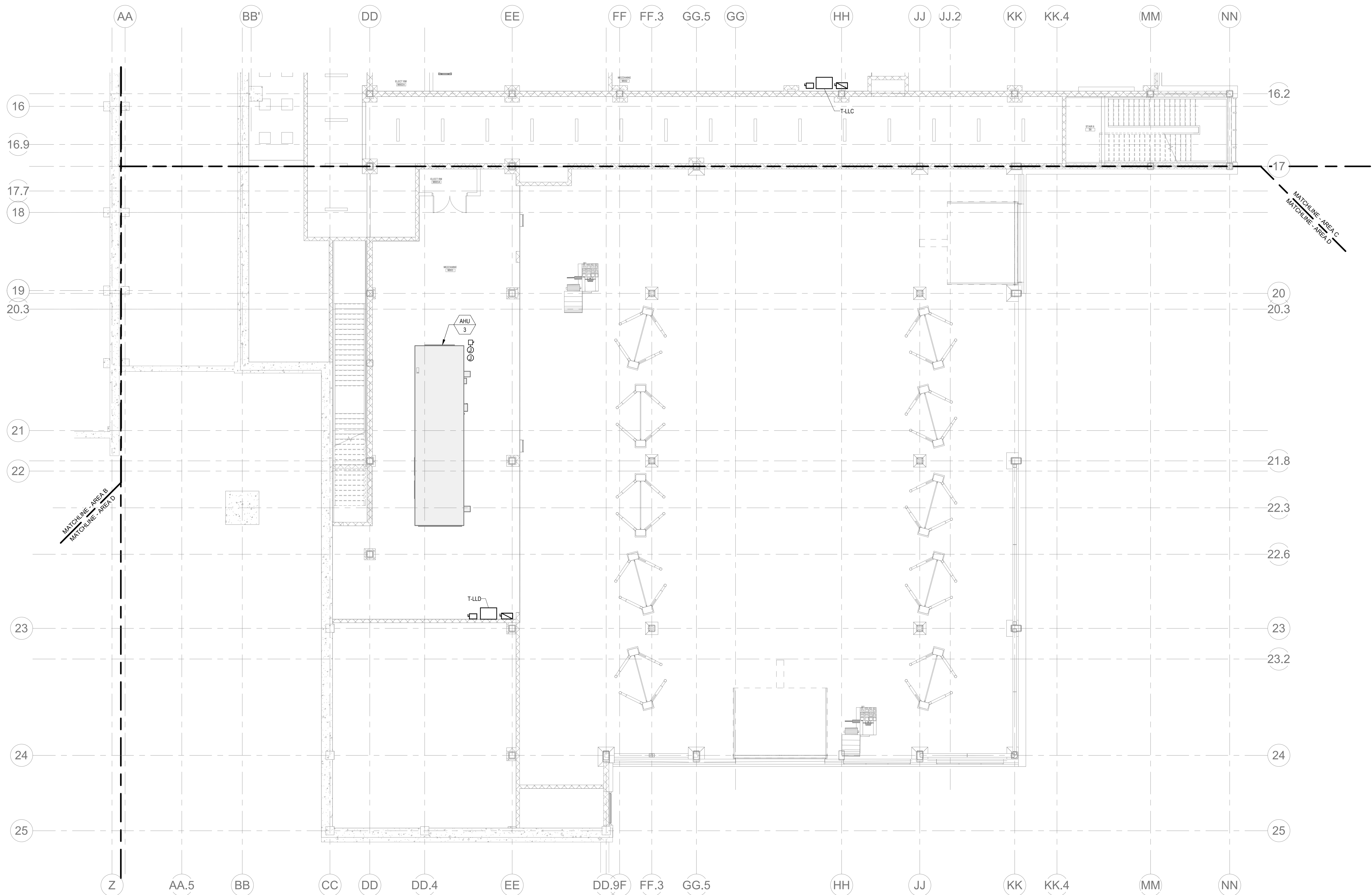
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**POWER GENERAL NOTES:**

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND AV RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
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6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.



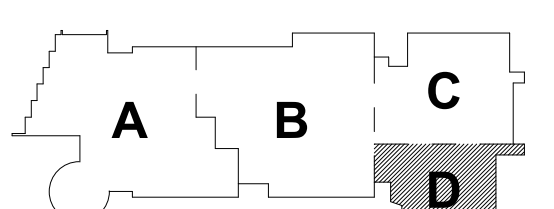
1 ELECTRICAL POWER 0.5-Lower Level Mezzanine - Area D  
1/8" = 1'-0"

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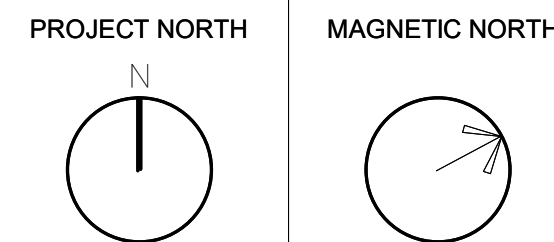


MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN



**ELECTRICAL  
POWER LOWER  
LEVEL  
MEZZANINE  
PLAN - AREA D**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

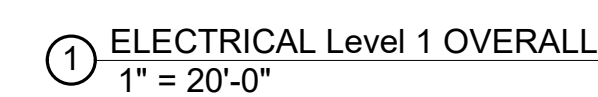
E1-1-MD



3. OVERALL ELECTRICAL FLOOR PLANS SHOW LOCATIONS OF MAJOR DISTRIBUTION EQUIPMENT - SWITCHBOARDS, TRANSFER SWITCHES, TRANSFORMERS, PANELBOARDS, AND CONDUIT RUNS FOR MAIN FEEDERS. REFER TO POWER AND LIGHTING AREA PLANS AND ENLARGED PLANS FOR LOCATIONS OF OTHER ELECTRICAL EQUIPMENT.

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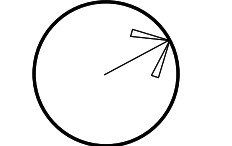
**BALA CONSULTING ENGINEERS, INC.**  
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January 13, 2023



**E1-1-1**

Drawn By: DRA  
Date: January 13, 2023

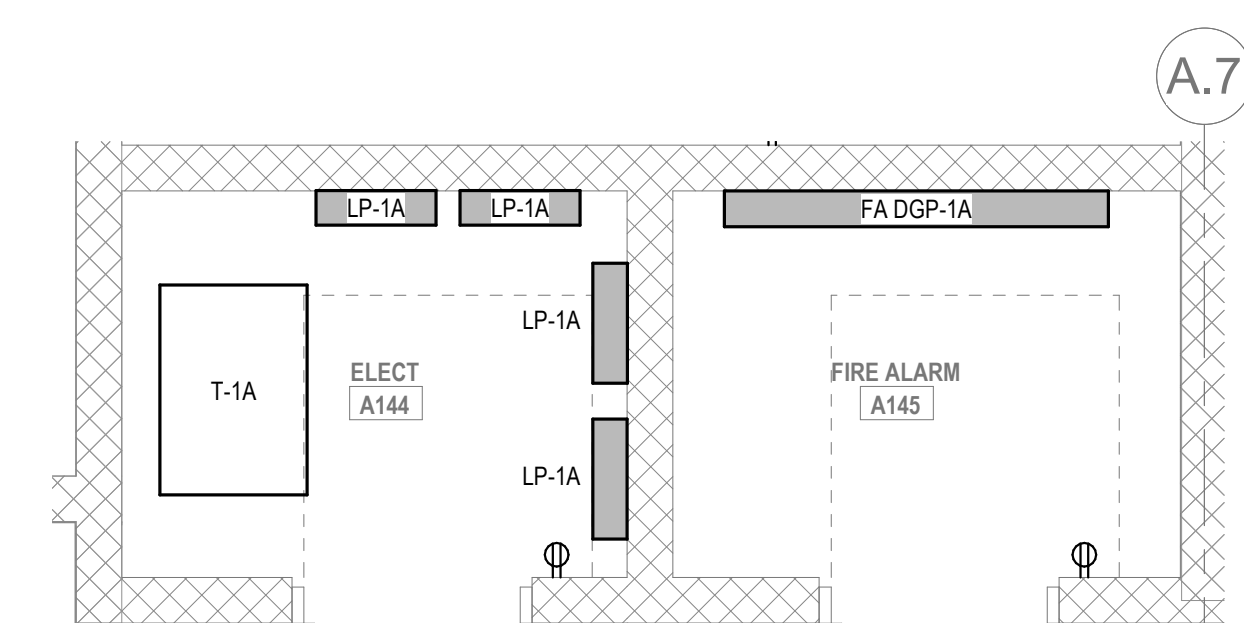


1. REFER TO E0-0-0 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-0-0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND VLT RELATED DEVICES. REFER TO E0-2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
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6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

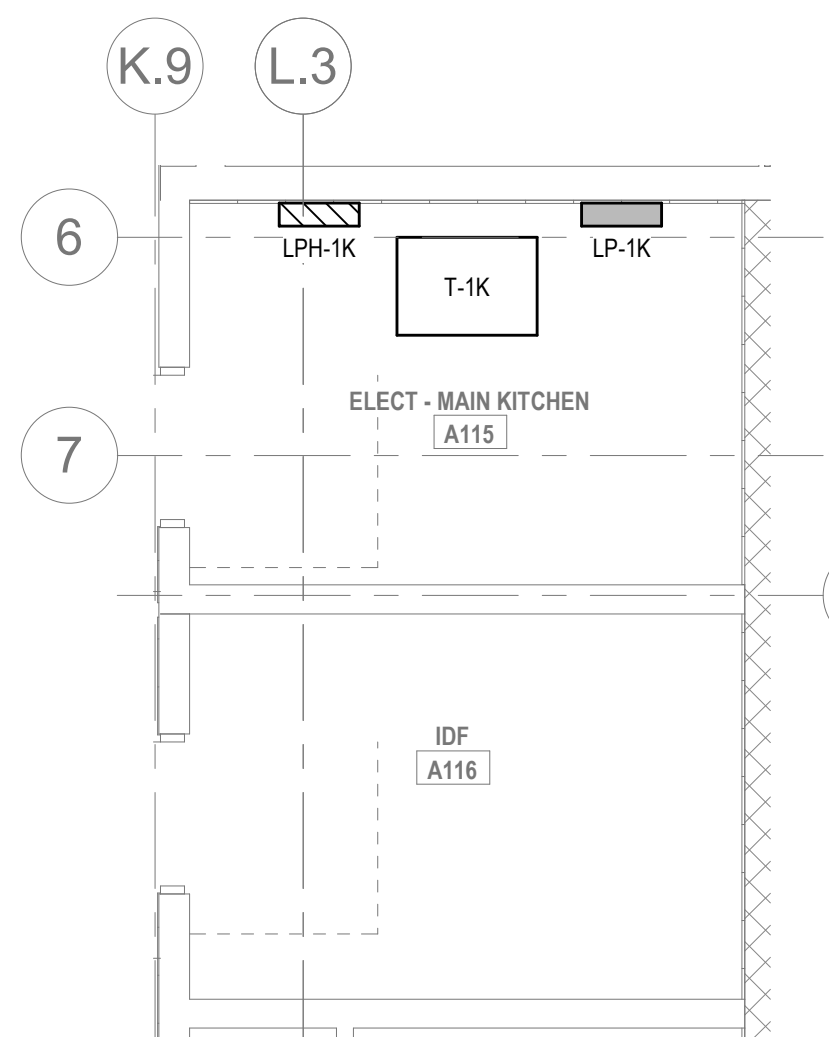
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G,  - DENOTES BRANCH CIRCUIT PANELBOARD LP#28 CIRCUIT #
H,  - DENOTES BRANCH CIRCUIT PANELBOARD LP#29 CIRCUIT #
K,  - DENOTES BRANCH CIRCUIT PANELBOARD LP#11 CIRCUIT #
L,  - DENOTES BRANCH CIRCUIT PANELBOARD LP#10 CIRCUIT #
M,  - DENOTES BRANCH CIRCUIT PANELBOARD LP#12 CIRCUIT #
N,  - DENOTES BRANCH CIRCUIT PANELBOARD LP#14 CIRCUIT #
AB, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1A CIRCUIT #
CB, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1B CIRCUIT #
DB, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1C CIRCUIT #
AM, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1D CIRCUIT #
AN, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1D CIRCUIT #
AP, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1K CIRCUIT #
AR, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1G CIRCUIT #
AR, - DENOTES BRANCH CIRCUIT PANELBOARD LP#1G2 CIRCUIT #
EL, - DENOTES BRANCH CIRCUIT PANELBOARD ELM#2A CIRCUIT #
SC, - DENOTES BRANCH CIRCUIT PANELBOARD ELM#2B CIRCUIT #
SC, - DENOTES BRANCH CIRCUIT PANELBOARD SBL#2A CIRCUIT #
SD, - DENOTES BRANCH CIRCUIT PANELBOARD SBL#2B CIRCUIT #
SD, - DENOTES BRANCH CIRCUIT PANELBOARD SBL#2C CIRCUIT #
SM, - DENOTES BRANCH CIRCUIT PANELBOARD SBL#2D CIRCUIT #

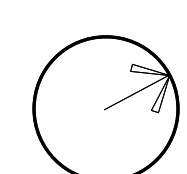
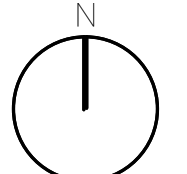
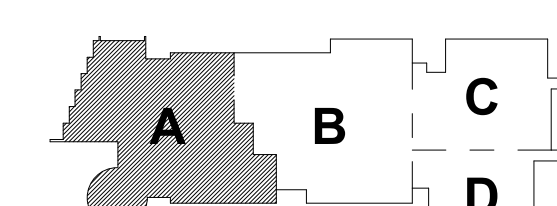
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③ ELECTRICAL Level 1 - ELECTRICAL ROOMS PART PLAN - ELECT A144  
& FA A145  
3/8" = 1'-0"

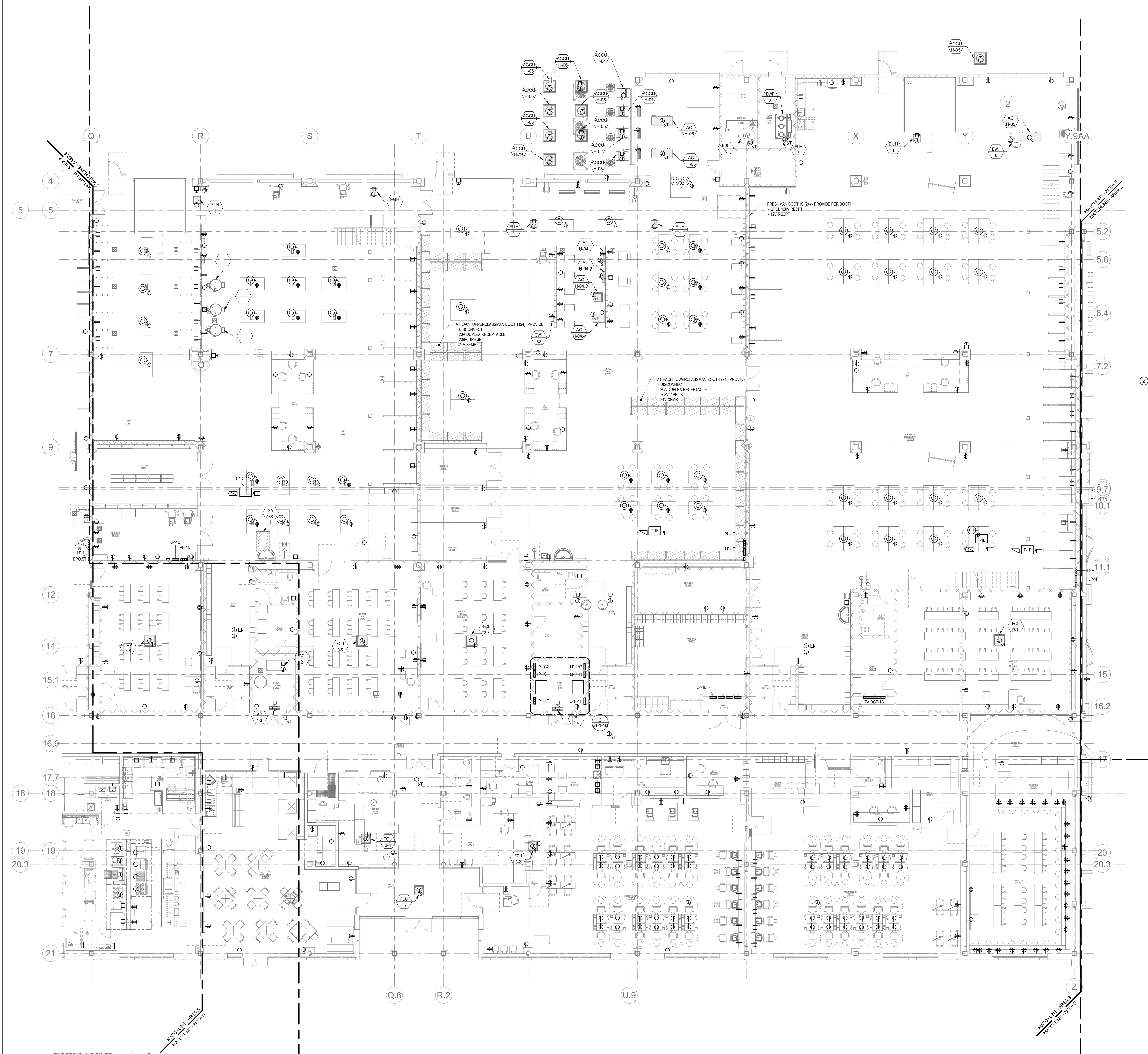


ELECTRICAL Level 1 - ELECTRICAL PART PLAN - ELEC A115 & IDF  
 A116  
 1/4" = 1'-0"



**ELECTRICAL  
POWER FIRST  
FLOOR PLAN -  
AREA A**



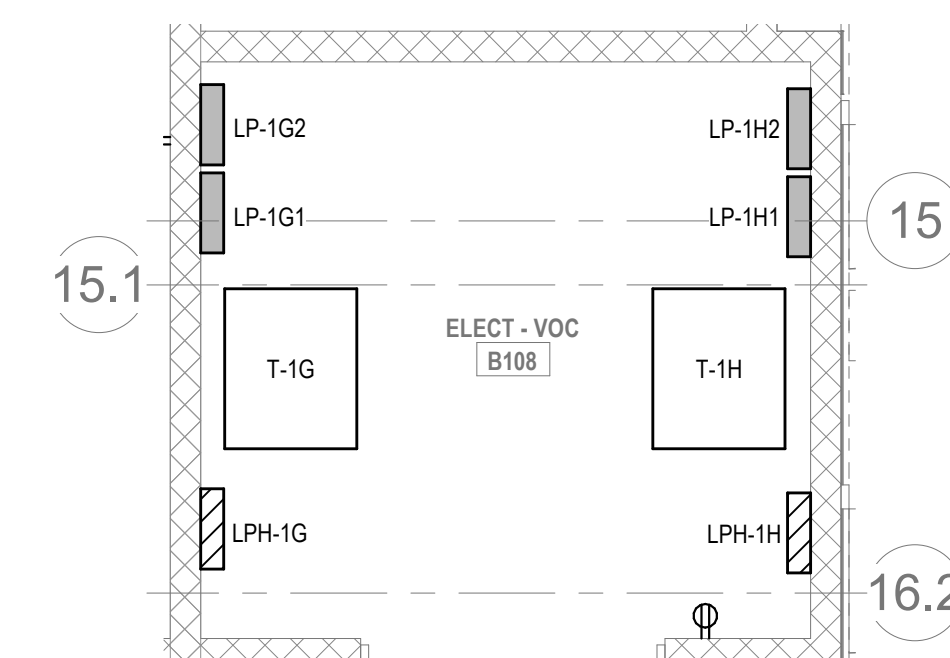


**POWER GENERAL NOTES:**

1. REFER TO E00-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-00, 1. AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND AIR RELATED DEVICES. REFER TO E04-2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
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6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**CIRCUIT LEGEND:**

|       |                                                         |
|-------|---------------------------------------------------------|
| G, V  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-24 CIRCUIT #    |
| H, V  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-26 CIRCUIT #    |
| L, F  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-10 CIRCUIT #    |
| N, F  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-12 CIRCUIT #    |
| N, A  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-6 CIRCUIT #     |
| O, A  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-17 CIRCUIT #    |
| P, F  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-18 CIRCUIT #    |
| P, F  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-16 CIRCUIT #    |
| R, F  | - DENOTES BRANCH CIRCUIT PANELBOARD PH4-15 CIRCUIT #    |
| AH, F | - DENOTES BRANCH CIRCUIT PANELBOARD P-18 CIRCUIT #      |
| AN, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-10 CIRCUIT #      |
| AN, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-12 CIRCUIT #      |
| AQ, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-15 CIRCUIT #      |
| AQ, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-16 CIRCUIT #      |
| AR, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-102 CIRCUIT #     |
| AR, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-103 CIRCUIT #     |
| BA, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-11 CIRCUIT #      |
| BB, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-12 CIRCUIT #      |
| BB, # | - DENOTES BRANCH CIRCUIT PANELBOARD P-13 CIRCUIT #      |
| EL, # | - DENOTES BRANCH CIRCUIT PANELBOARD EM4-P-24 CIRCUIT #  |
| EL, # | - DENOTES BRANCH CIRCUIT PANELBOARD EM4-P-26 CIRCUIT #  |
| SC, # | - DENOTES BRANCH CIRCUIT PANELBOARD SB4-PH-24 CIRCUIT # |
| SC, # | - DENOTES BRANCH CIRCUIT PANELBOARD SB4-PH-26 CIRCUIT # |
| SD, # | - DENOTES BRANCH CIRCUIT PANELBOARD SB4-PH-28 CIRCUIT # |
| SM, # | - DENOTES BRANCH CIRCUIT PANELBOARD SB4-PH-26 CIRCUIT # |



② ELECTRICAL POWER Level 1 Area B - ELECT - VOC B108  
1/4" = 1'-0"

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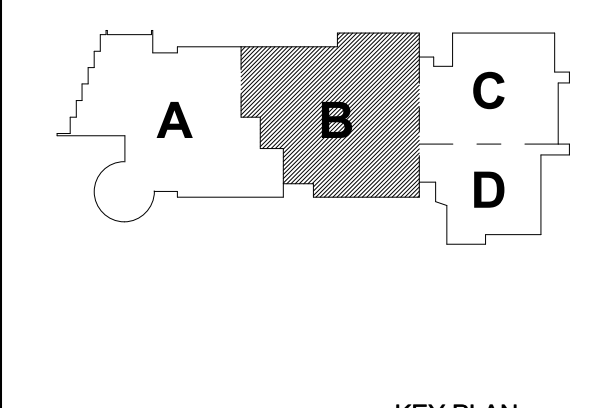
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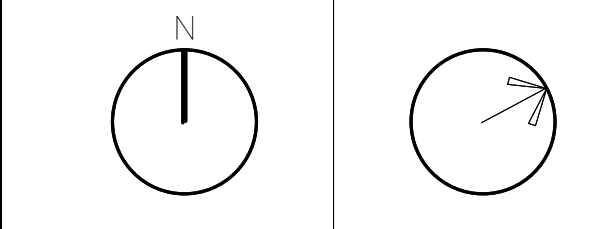
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| PROJECT NORTH | MAGNETIC NORTH |
|---------------|----------------|
|---------------|----------------|



**ELECTRICAL  
POWER FIRST  
FLOOR PLAN -  
AREA B**

Scale: As indicated  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023



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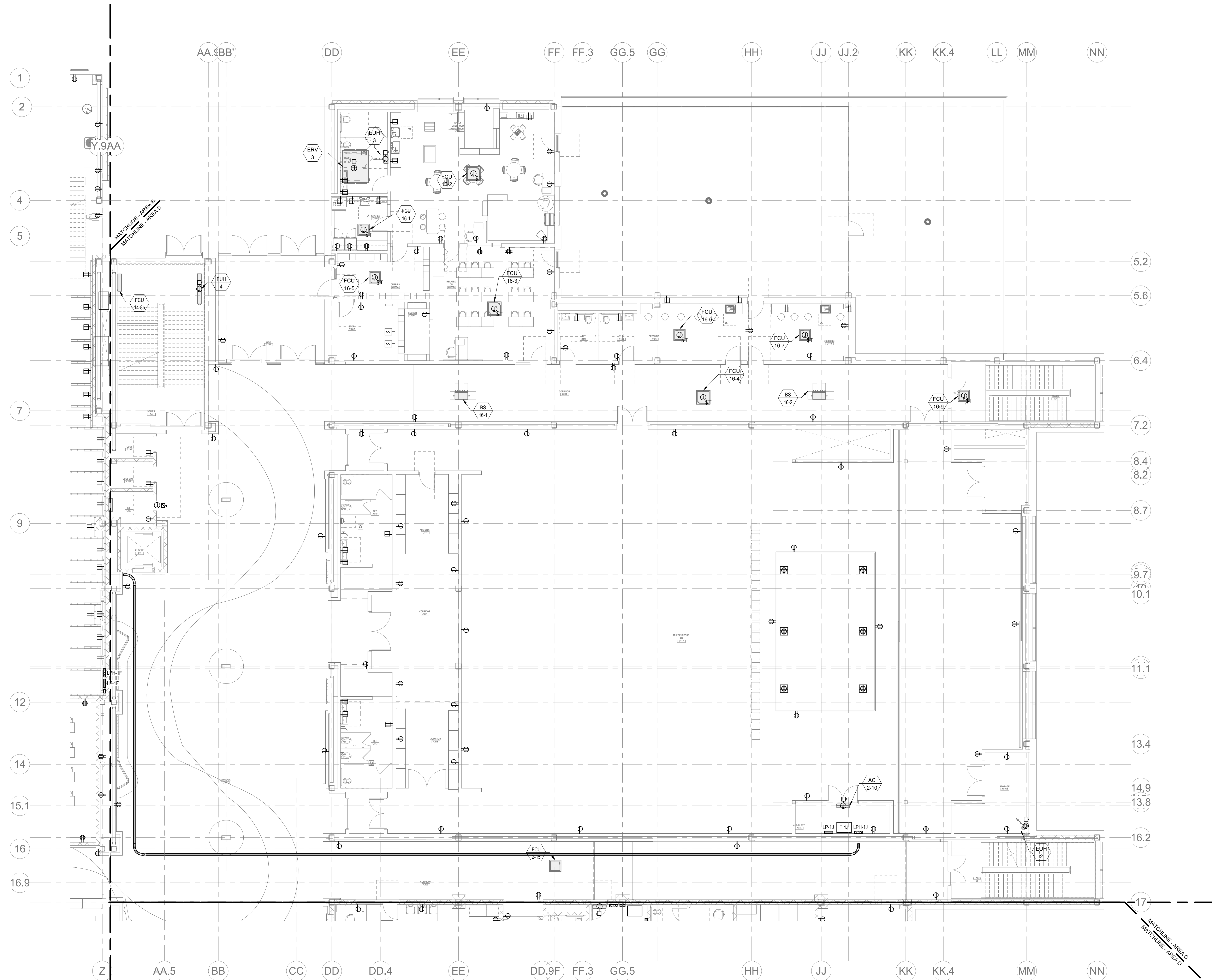
Wakefield, MA 01880

**POWER GENERAL NOTES:**

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
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6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**CIRCUIT LEGEND:**

B.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1C, CIRCUIT #  
C.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A, CIRCUIT #  
G.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B, CIRCUIT #  
K.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1L, CIRCUIT #  
L.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1D, CIRCUIT #  
M.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1K, CIRCUIT #  
N.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1G, CIRCUIT #  
R.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1J, CIRCUIT #  
AB.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1A, CIRCUIT #  
AC.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1C, CIRCUIT #  
AH.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1B, CIRCUIT #  
AM.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1L, CIRCUIT #  
AN.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1D, CIRCUIT #  
AP.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1K, CIRCUIT #  
AQ.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1G, CIRCUIT #  
AR.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1J, CIRCUIT #  
AZ.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1L, CIRCUIT #  
EK.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-P-1C, CIRCUIT #  
EL.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-P-2A, CIRCUIT #  
EM.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-P-2B, CIRCUIT #  
SB.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-1C, CIRCUIT #  
SC.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2A, CIRCUIT #  
SD.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2B, CIRCUIT #  
SK.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-1C, CIRCUIT #  
SL.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2A, CIRCUIT #  
SM.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2B, CIRCUIT #



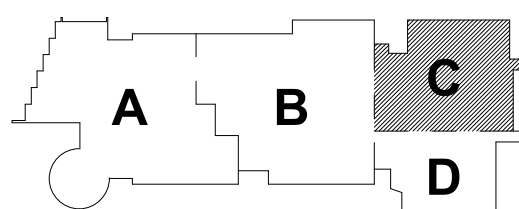
**ELECTRICAL POWER Level 1 Area C**  
1/18" = 1/4"

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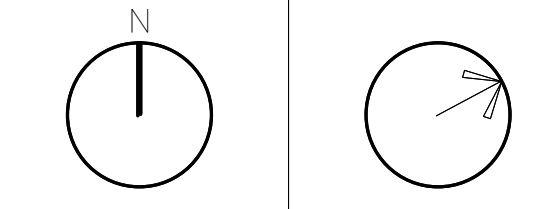
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



**ELECTRICAL  
POWER FIRST  
FLOOR PLAN -  
AREA C**

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

**E1-1-1C**



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POWER GENERAL NOTES:

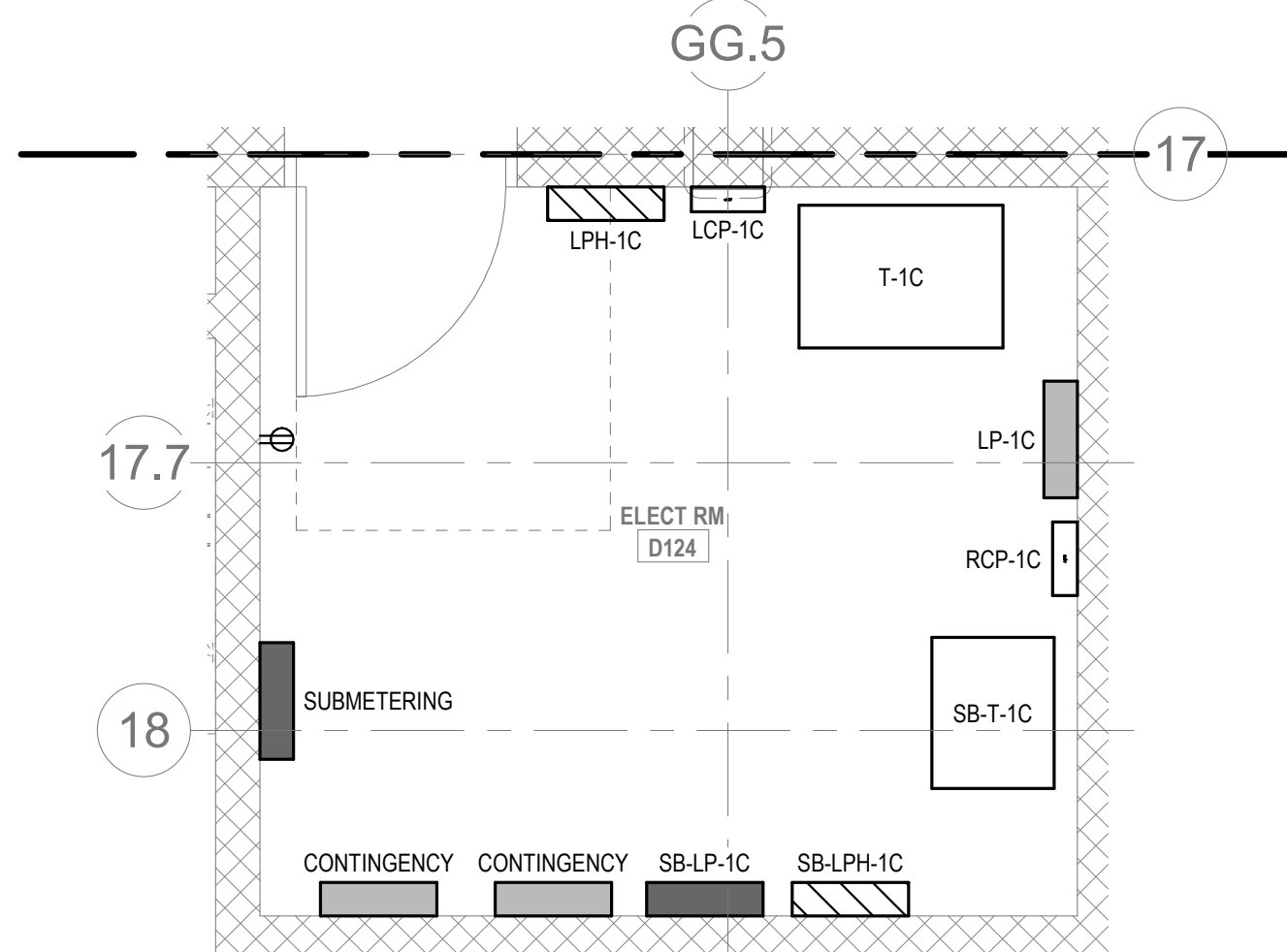
1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

CIRCUIT LEGEND:

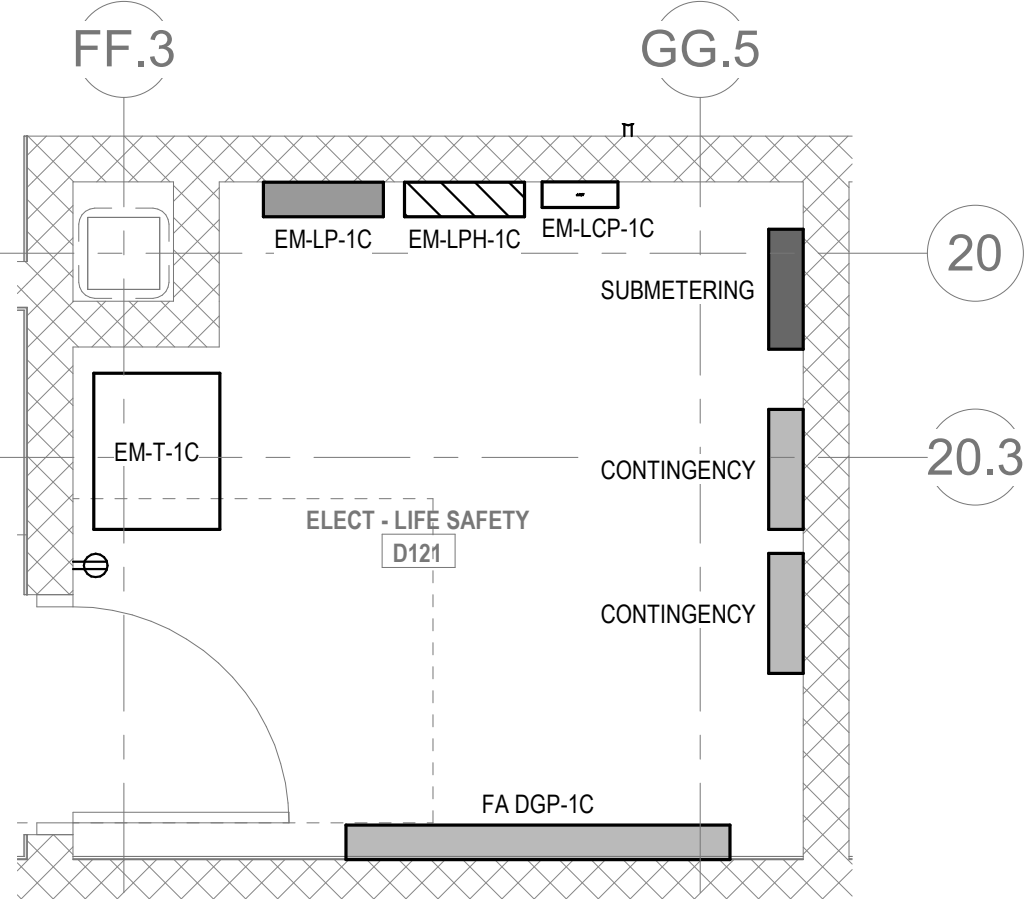
C.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A, CIRCUIT #  
G.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B, CIRCUIT #  
K.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1L, CIRCUIT #  
L.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1D, CIRCUIT #  
M.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1C, CIRCUIT #  
N.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1G, CIRCUIT #  
AB.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1A, CIRCUIT #  
AH.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1B, CIRCUIT #  
AM.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1C, CIRCUIT #  
AN.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1D, CIRCUIT #  
AP.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1E, CIRCUIT #  
AQ.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1F, CIRCUIT #  
AR.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-1G, CIRCUIT #  
EL.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-2A, CIRCUIT #  
EM.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-2B, CIRCUIT #  
SC.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2A, CIRCUIT #  
SD.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2B, CIRCUIT #  
SL.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2C, CIRCUIT #  
SM.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2D, CIRCUIT #



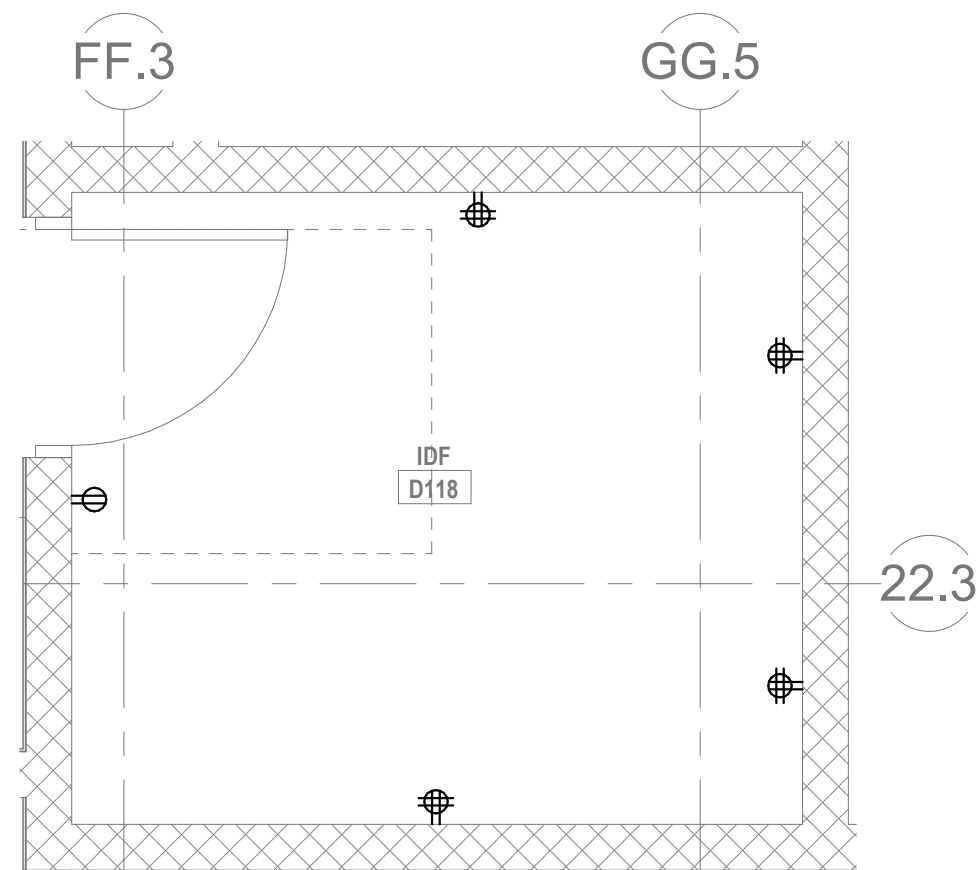
1 ELECTRICAL POWER Level 1 Area D  
1/8" = 1'-0"



2 ELECTRICAL POWER Level 1 Area D - ELECT RM D124  
3/8" = 1'-0"



3 ELECTRICAL POWER Level 1 Area D - ELECT-LIFE SAFETY D121  
3/8" = 1'-0"



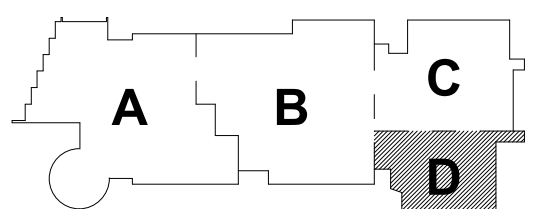
4 ELECTRICAL POWER Level 1 Area D - IDF D118  
3/8" = 1'-0"

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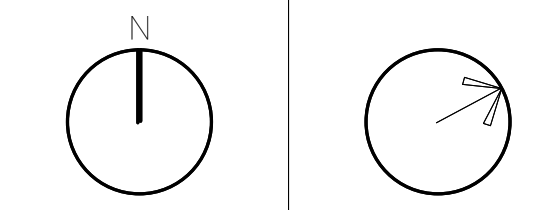
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
POWER FIRST  
FLOOR PLAN -  
AREA D

Scale: As indicated  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-1D



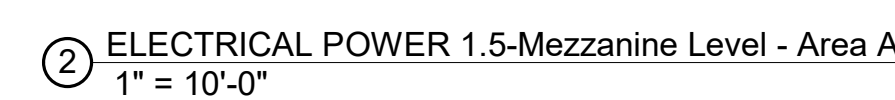
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|--------------------------------------------------------------|----------------------------------------------------------|
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- ## **POWER GENERAL NOTES:**
1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL, SCOPE OF WORK.
  2. REFER TO E0-0.1, 1 AND 2 FOR SINGLE LINE DIAGRAMS.
  3. REFER TO ARCHITECTURAL, PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
  4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
  5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSED DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATING AS RECOMMENDED BY MANUFACTURER.
  6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

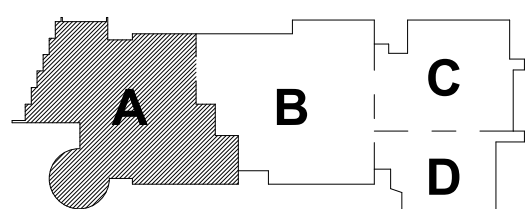


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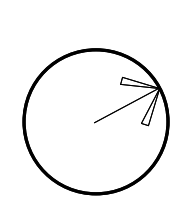
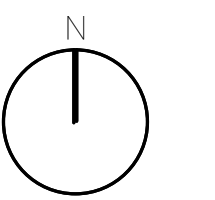
January 13, 2023



### KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**ELECTRICAL  
POWER FIRST  
FLOOR  
MEZZANINE  
PLAN - AREA A**

Scale: 1" = 10'-0"

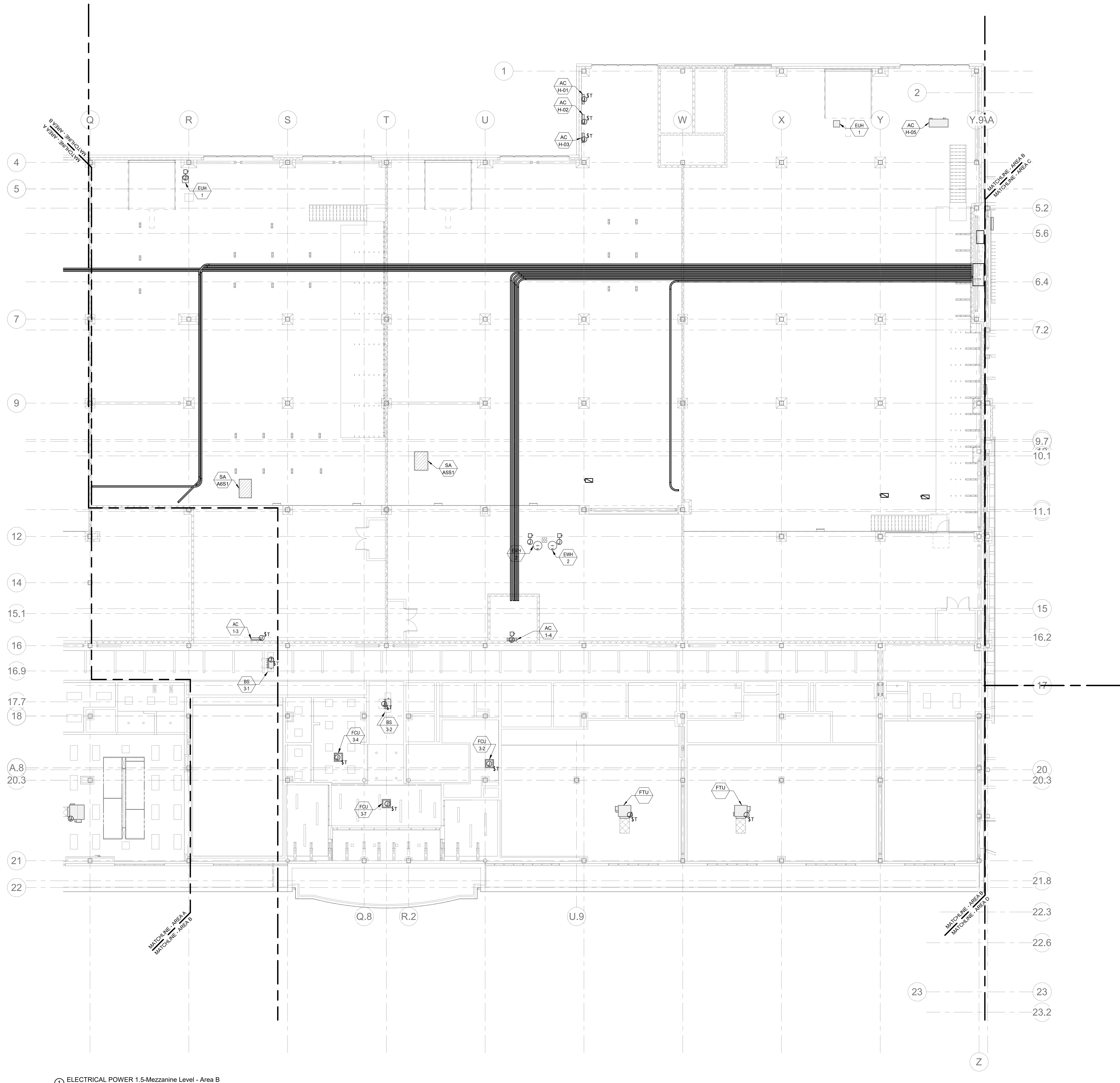
Job No.: 20203

Drawn By: DRA

Date: January 13, 2023

**E1-1-1MA**





- POWER GENERAL NOTES:**
1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
  2. REFER TO E3-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
  3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
  4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
  5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
  6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

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January 13, 2023

A B C D

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

ELECTRICAL  
POWER FIRST  
FLOOR  
MEZZANINE  
PLAN - AREA B

Scale: 1" = 10'-0"

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

E1-1-1MB

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GENERAL NOTES:

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0.1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. OVERALL ELECTRICAL FLOOR PLANS SHOW LOCATIONS OF MAJOR DISTRIBUTION EQUIPMENT - SWITCHBOARDS, TRANSFER SWITCHES, TRANSFORMERS, PANELBOARDS, AND CONDUIT RUNS FOR MAIN FEEDERS. REFER TO POWER AND LIGHTING AREA PLANS AND ENLARGED PLANS FOR LOCATIONS OF OTHER ELECTRICAL EQUIPMENT.

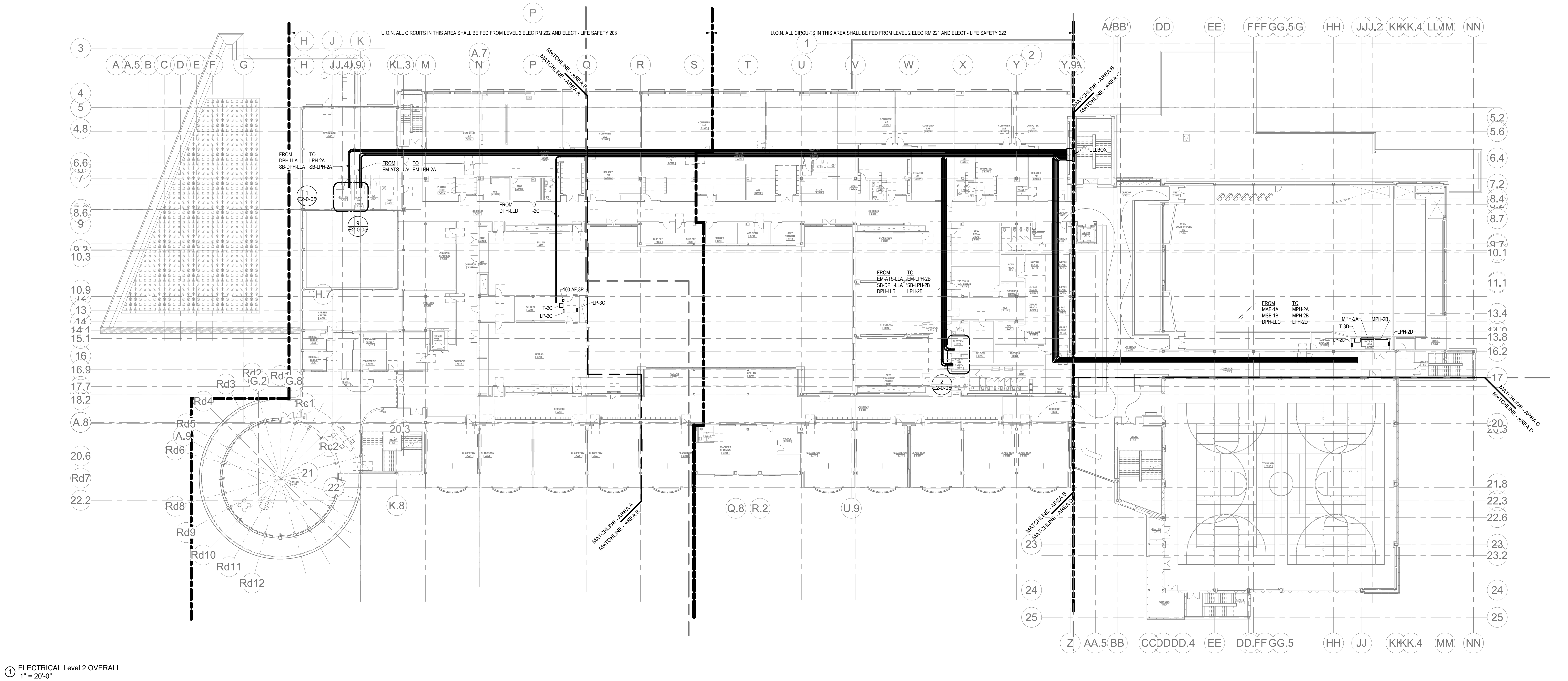
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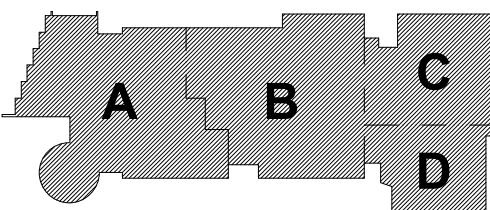
1 ELECTRICAL Level 2 OVERALL  
1" = 20'-0"

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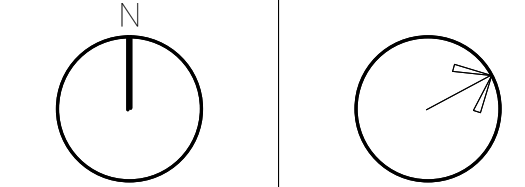
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH

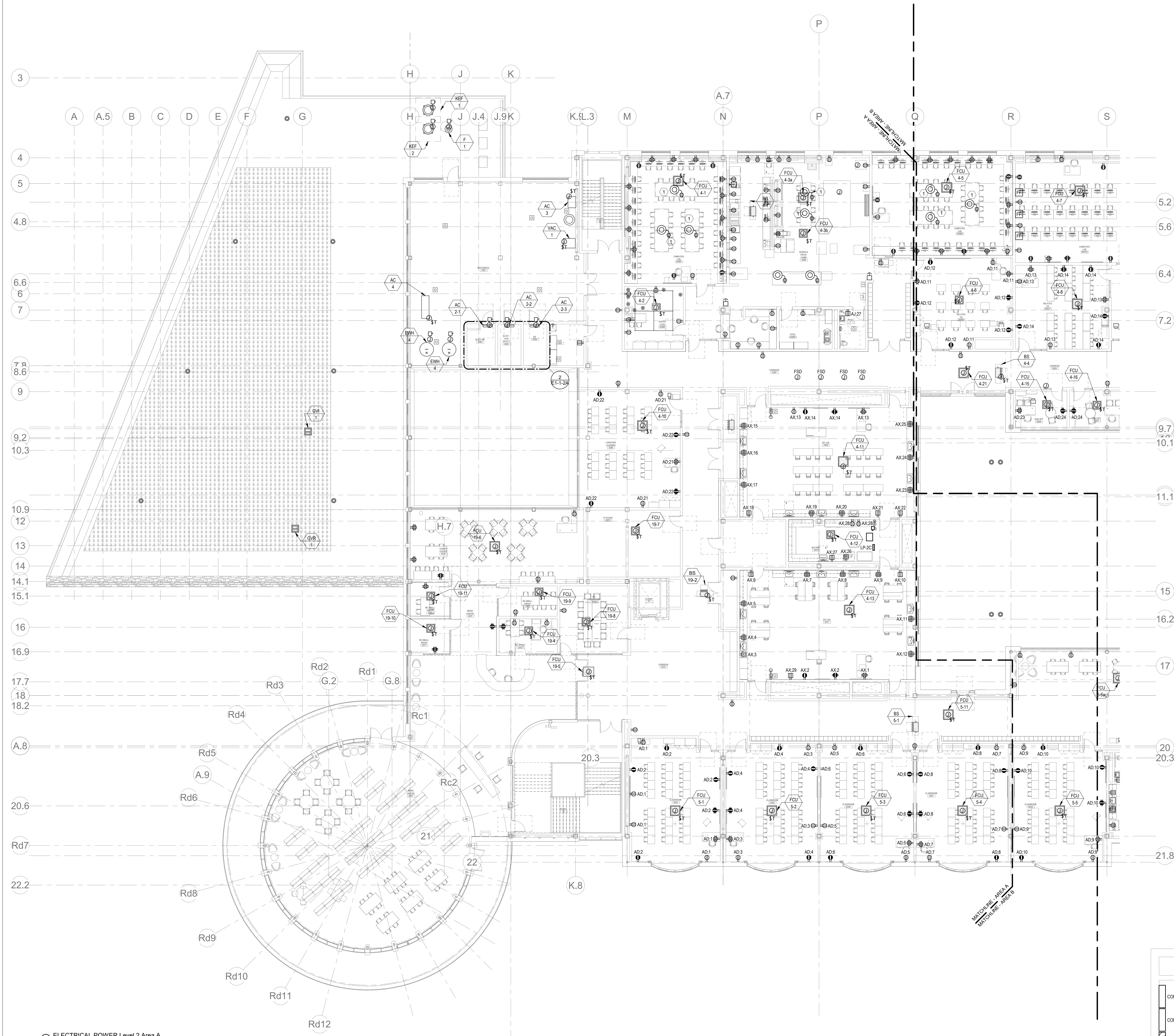


ELECTRICAL  
SECOND FLOOR  
PLAN - OVERALL  
PLAN

Scale: 1" = 20'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-2

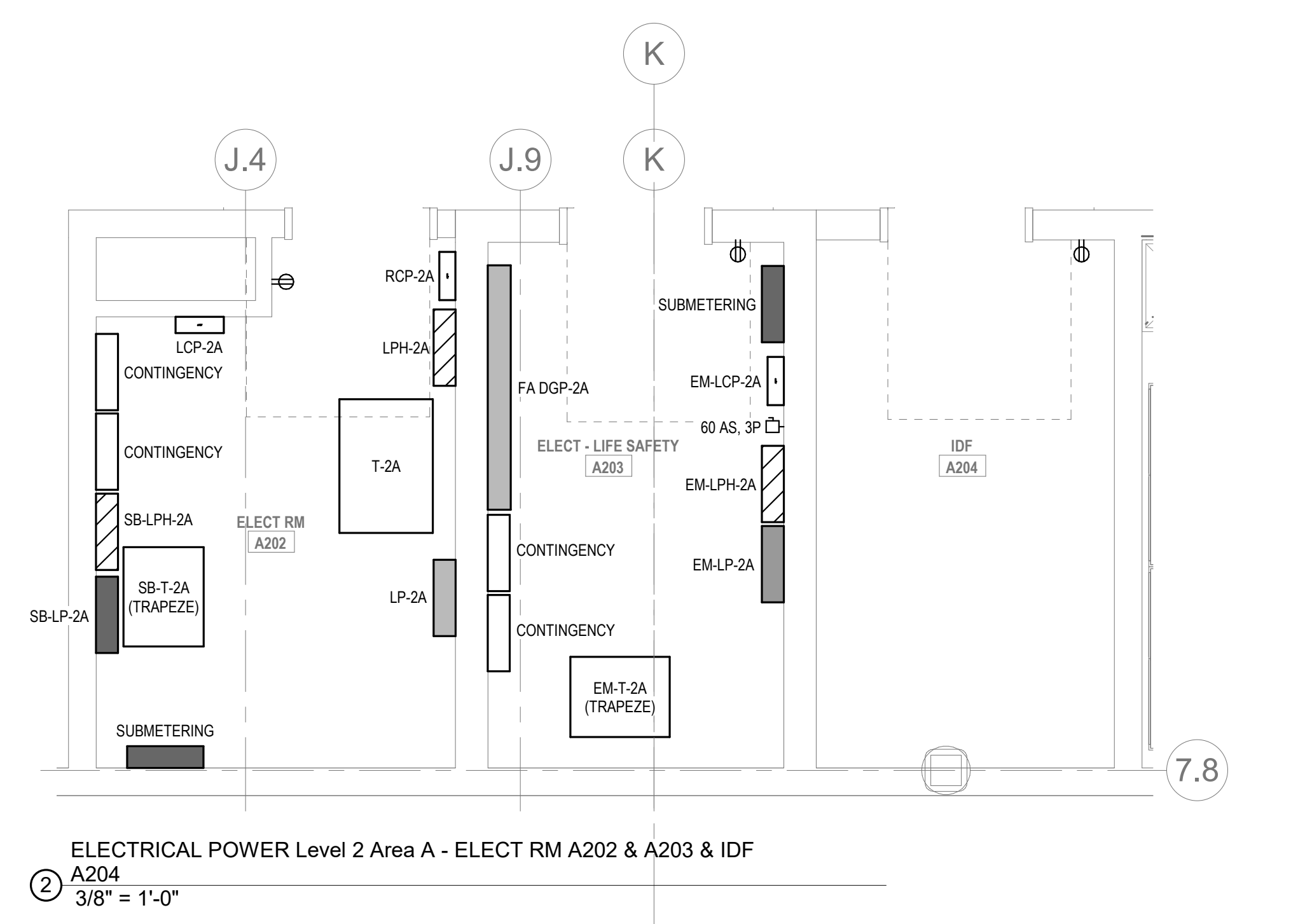




- POWER GENERAL NOTES:**
- REFER TO E&S-0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
  - REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E&S-2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
  - REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
  - PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
  - REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

- KEY NOTES:** (X)
- PROVIDE 120V/1PH QUAD PULLDOWN RECEPTACLE.

- CIRCUIT LEGEND:**
- C: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A, CIRCUIT #  
G: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B, CIRCUIT #  
AD: # - DENOTES BRANCH CIRCUIT PANELBOARD LP-2A, CIRCUIT #  
AJ: # - DENOTES BRANCH CIRCUIT PANELBOARD LP-2B, CIRCUIT #  
AX: # - DENOTES BRANCH CIRCUIT PANELBOARD LP-2C, CIRCUIT #  
EL: # - DENOTES BRANCH CIRCUIT PANELBOARD EM-P-2A, CIRCUIT #  
EM: # - DENOTES BRANCH CIRCUIT PANELBOARD EM-P-2B, CIRCUIT #  
SC: # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2A, CIRCUIT #  
SD: # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2B, CIRCUIT #  
SL: # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2A, CIRCUIT #  
SM: # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2B, CIRCUIT #



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January 13, 2023

KEY PLAN

PROJECT NORTH  
MAGNETIC NORTH

ELECTRICAL POWER SECOND FLOOR PLAN - AREA A

Scale: As indicated  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-2A



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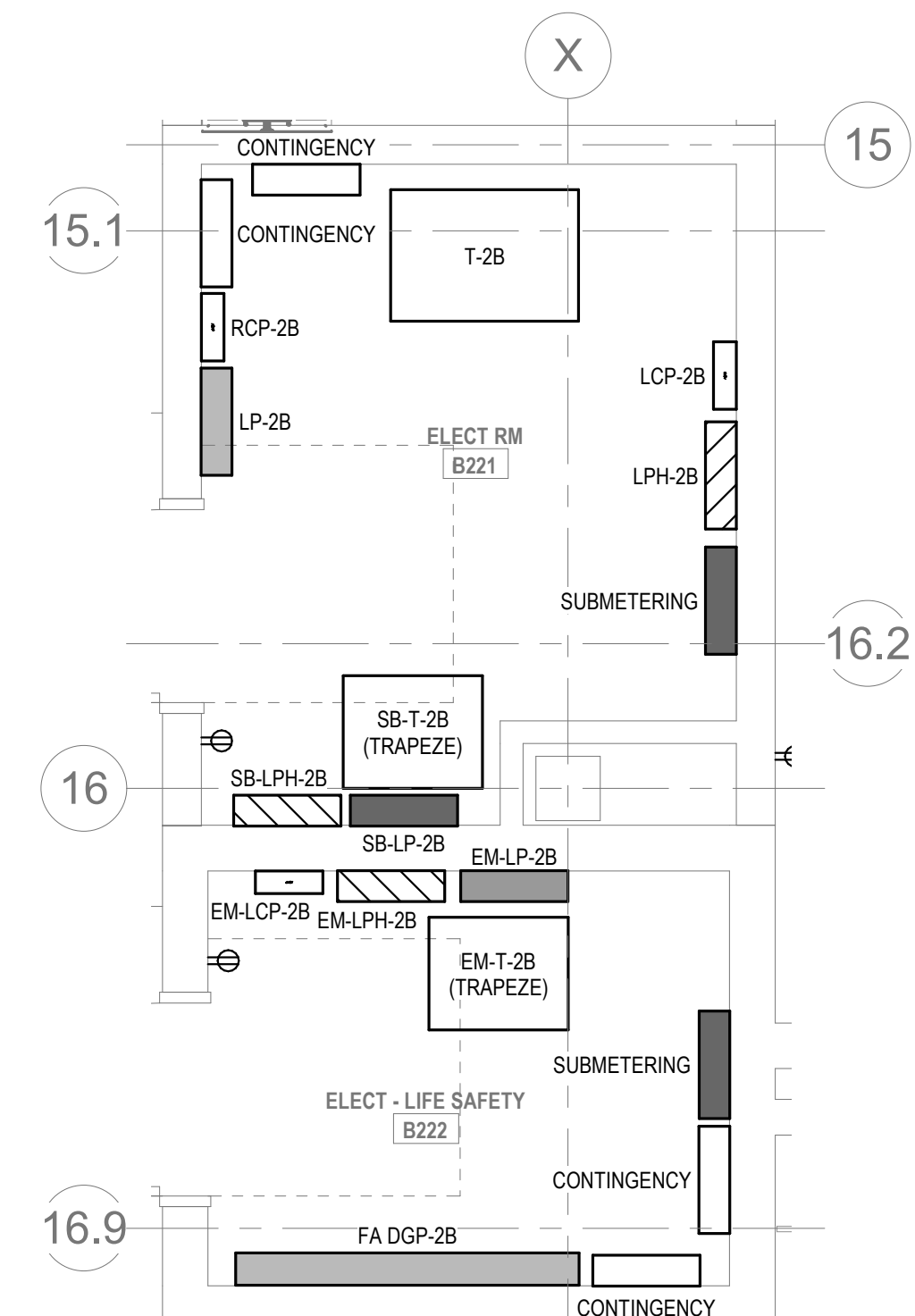
Wakefield, MA 01880

**POWER GENERAL NOTES:**

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-0.1, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E0-0.2 FOR PHYSICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**CIRCUIT LEGEND:**

- C.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A, CIRCUIT #  
G.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B, CIRCUIT #  
AD.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-2A, CIRCUIT #  
AJ.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-2B, CIRCUIT #  
EL.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-2A, CIRCUIT #  
EM.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-2B, CIRCUIT #  
SD.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2A, CIRCUIT #  
SL.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2B, CIRCUIT #  
SM.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2B, CIRCUIT #





|                                                              |                                                          |
|--------------------------------------------------------------|----------------------------------------------------------|
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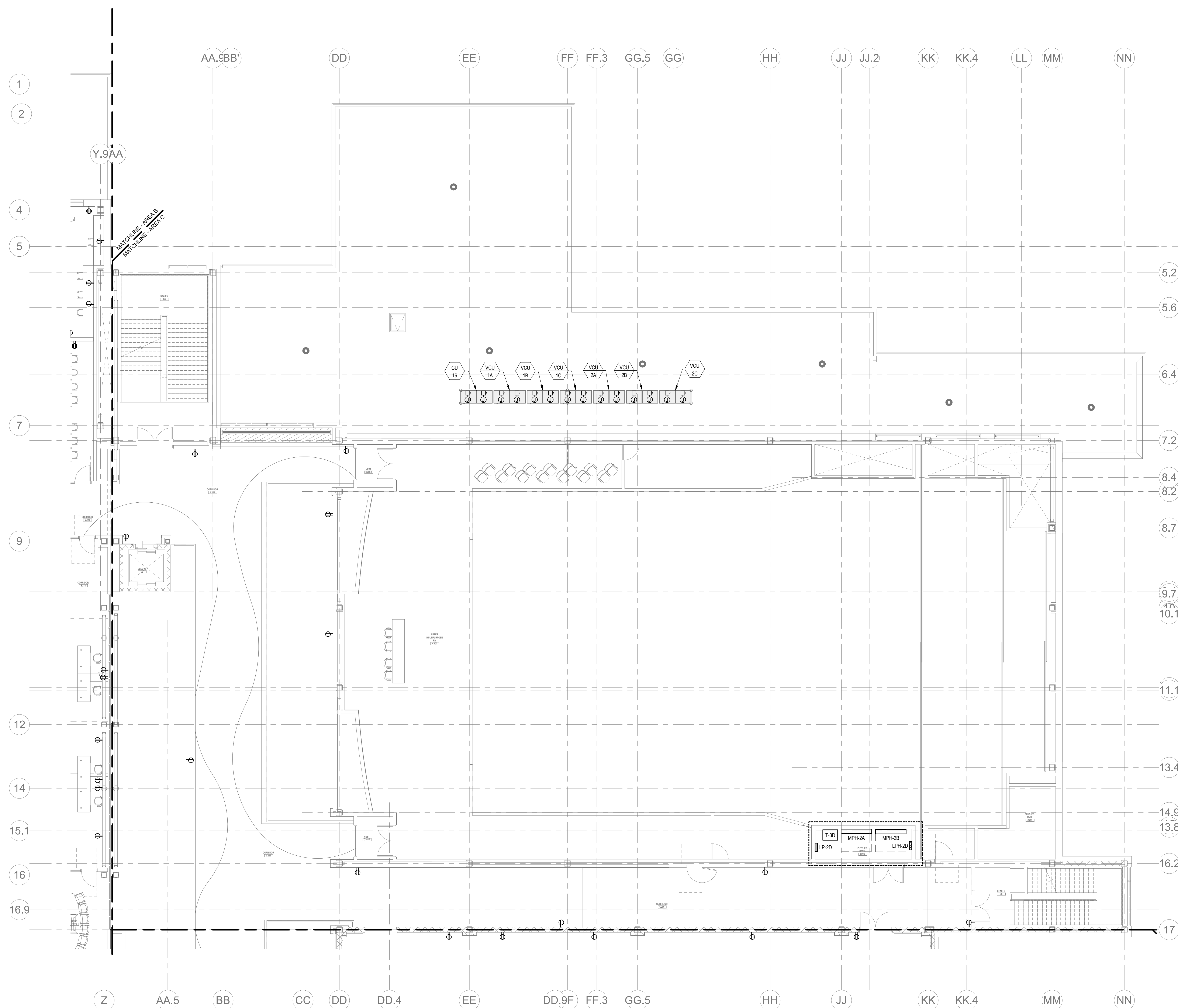
Wakefield, MA 01880

**POWER GENERAL NOTES:**

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.4, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND AIR FEED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH TYPE OF EQUIPMENT, PROVIDE A FLEXIBLE CONNECT SWING (WITH FUSED) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**CIRCUIT LEGEND:**

|      |                                                          |
|------|----------------------------------------------------------|
| C.#  | - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A; CIRCUIT #    |
| G.#  | - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B; CIRCUIT #    |
| R.#  | - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1; CIRCUIT #     |
| AD.# | - DENOTES BRANCH CIRCUIT PANELBOARD LP-2A; CIRCUIT #     |
| AJ.# | - DENOTES BRANCH CIRCUIT PANELBOARD LP-2B; CIRCUIT #     |
| AD.# | - DENOTES BRANCH CIRCUIT PANELBOARD LP-1; CIRCUIT #      |
| EL.# | - DENOTES BRANCH CIRCUIT PANELBOARD EM-PL-2A; CIRCUIT #  |
| EM.# | - DENOTES BRANCH CIRCUIT PANELBOARD EM-PL-2B; CIRCUIT #  |
| SC.# | - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2A; CIRCUIT # |
| SD.# | - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2B; CIRCUIT # |
| SL.# | - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2A; CIRCUIT #  |
| SM.# | - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2B; CIRCUIT #  |



① ELECTRICAL POWER Level 2 Area C  
1/8" = 1'-0"

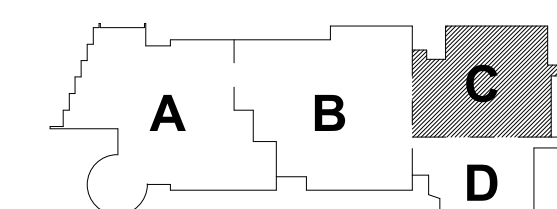
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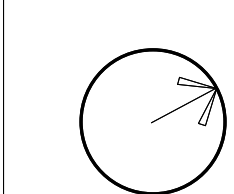
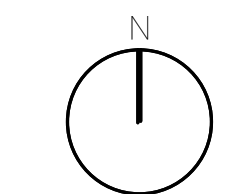
January 13, 2023



### KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**ELECTRICAL  
POWER SECOND  
FLOOR PLAN -  
AREA C**

Scale:  $1/8'' = 1'-0''$ 

Job No.: 20202

Page 35

Drawn By: DR.

Date: January 13, 2023

**E1-1-2C**

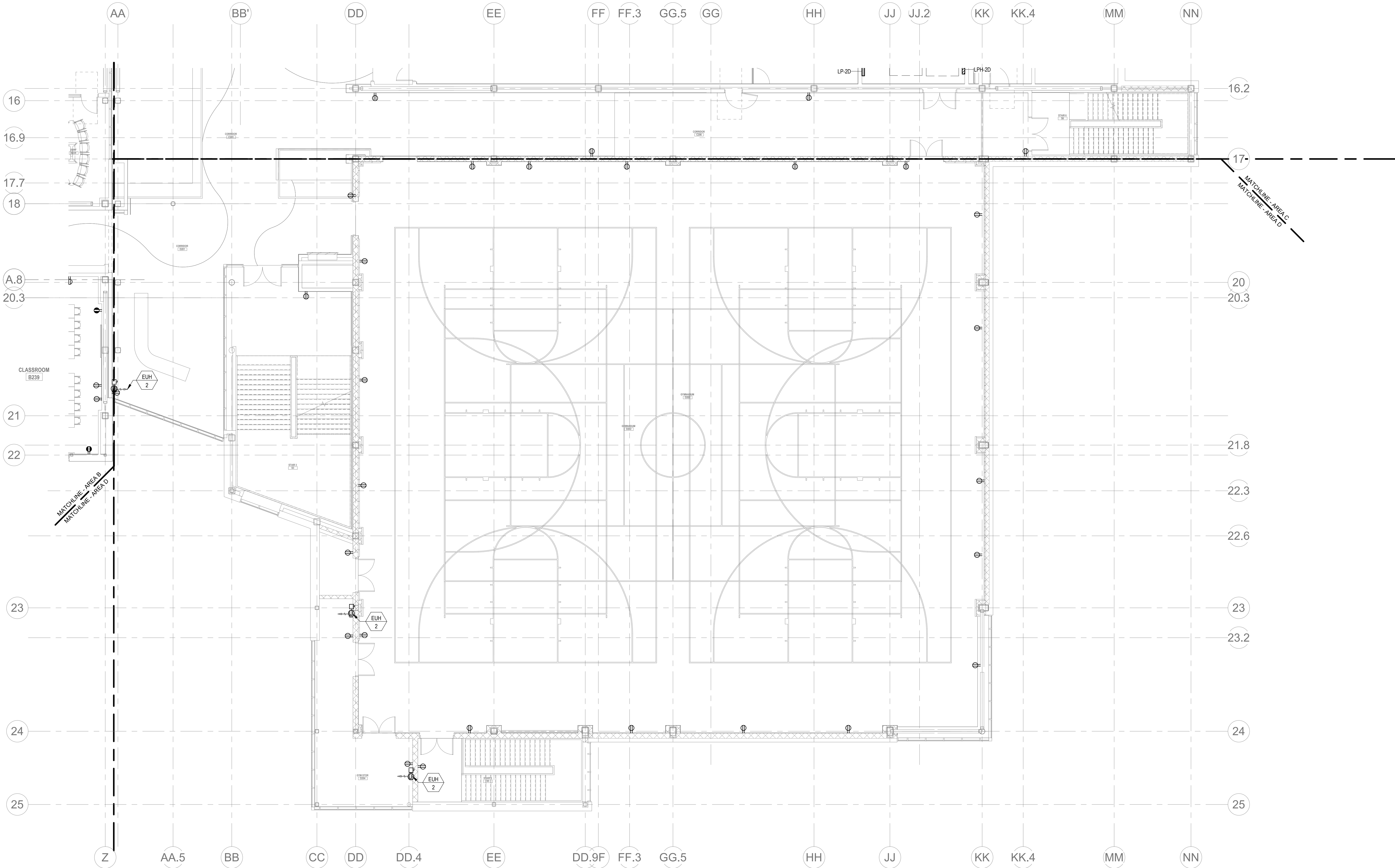


POWER GENERAL NOTES:

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

CIRCUIT LEGEND:

- C. # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A, CIRCUIT #  
G. # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B, CIRCUIT #  
P. # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2C, CIRCUIT #  
AD. # - DENOTES BRANCH CIRCUIT PANELBOARD LP-2A, CIRCUIT #  
AJ. # - DENOTES BRANCH CIRCUIT PANELBOARD LP-2B, CIRCUIT #  
AT. # - DENOTES BRANCH CIRCUIT PANELBOARD LP-2C, CIRCUIT #  
EL. # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-2A, CIRCUIT #  
EM. # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-2B, CIRCUIT #  
SC. # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2A, CIRCUIT #  
SD. # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-2B, CIRCUIT #  
SL. # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2A, CIRCUIT #  
SM. # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-2B, CIRCUIT #



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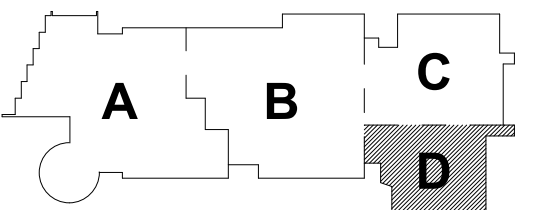
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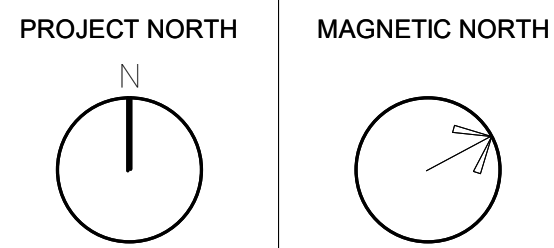
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WILSON, MA 01890  
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WWW.BALA-ENG.COM

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SUBMISSION

January 13, 2023



KEY PLAN



ELECTRICAL  
POWER SECOND  
FLOOR PLAN -  
AREA D

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-2D



GENERAL NOTES:

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0.1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. OVERALL ELECTRICAL FLOOR PLANS SHOW LOCATIONS OF MAJOR DISTRIBUTION EQUIPMENT - SWITCHBOARDS, TRANSFER SWITCHES, TRANSFORMERS, PANELBOARDS, AND CONDUIT RUNS FOR MAIN FEEDERS. REFER TO POWER AND LIGHTING AREA PLANS AND ENLARGED PLANS FOR LOCATIONS OF OTHER ELECTRICAL EQUIPMENT.

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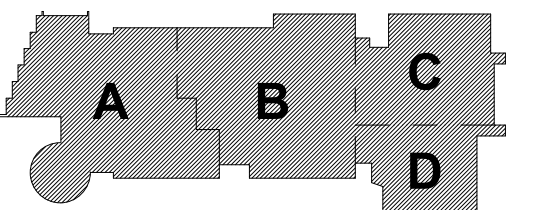
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Regional  
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Wakefield, MA 01880

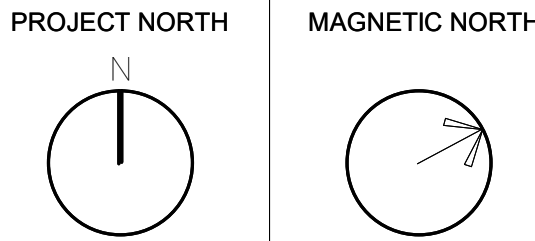
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January 13, 2023



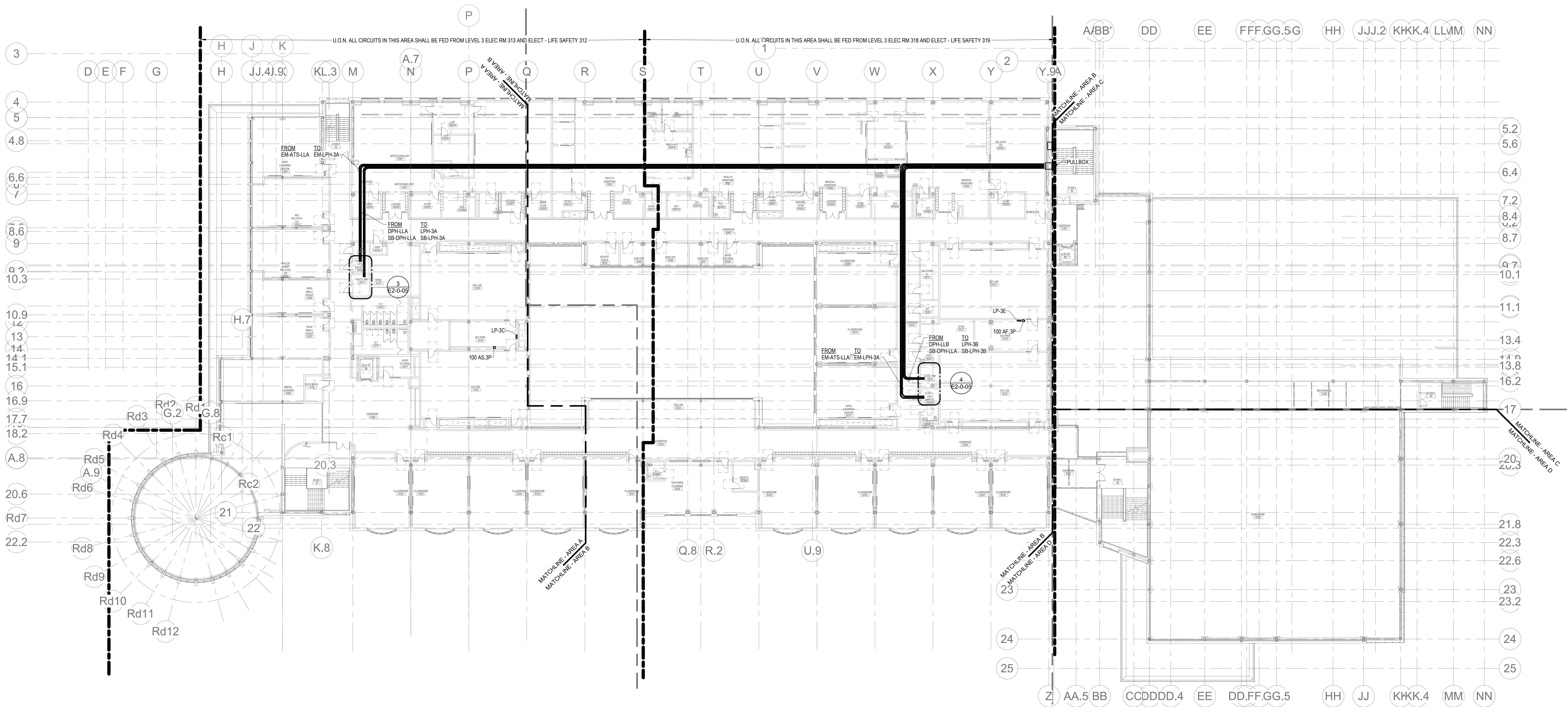
KEY PLAN



ELECTRICAL  
THIRD FLOOR  
PLAN - OVERALL  
PLAN

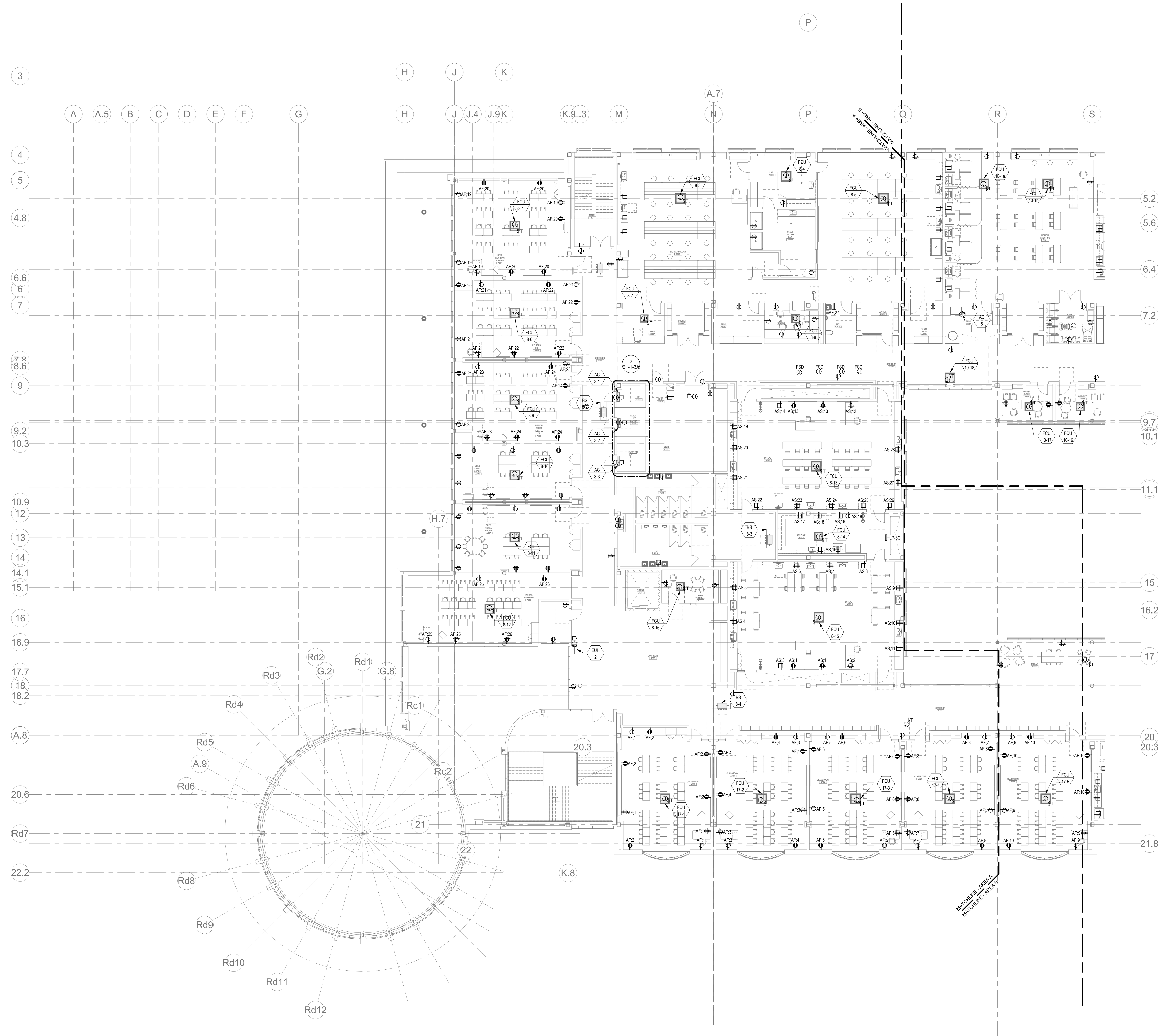
Scale: 1" = 20'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-3



1 ELECTRICAL Level 3 OVERALL  
1" = 20'-0"





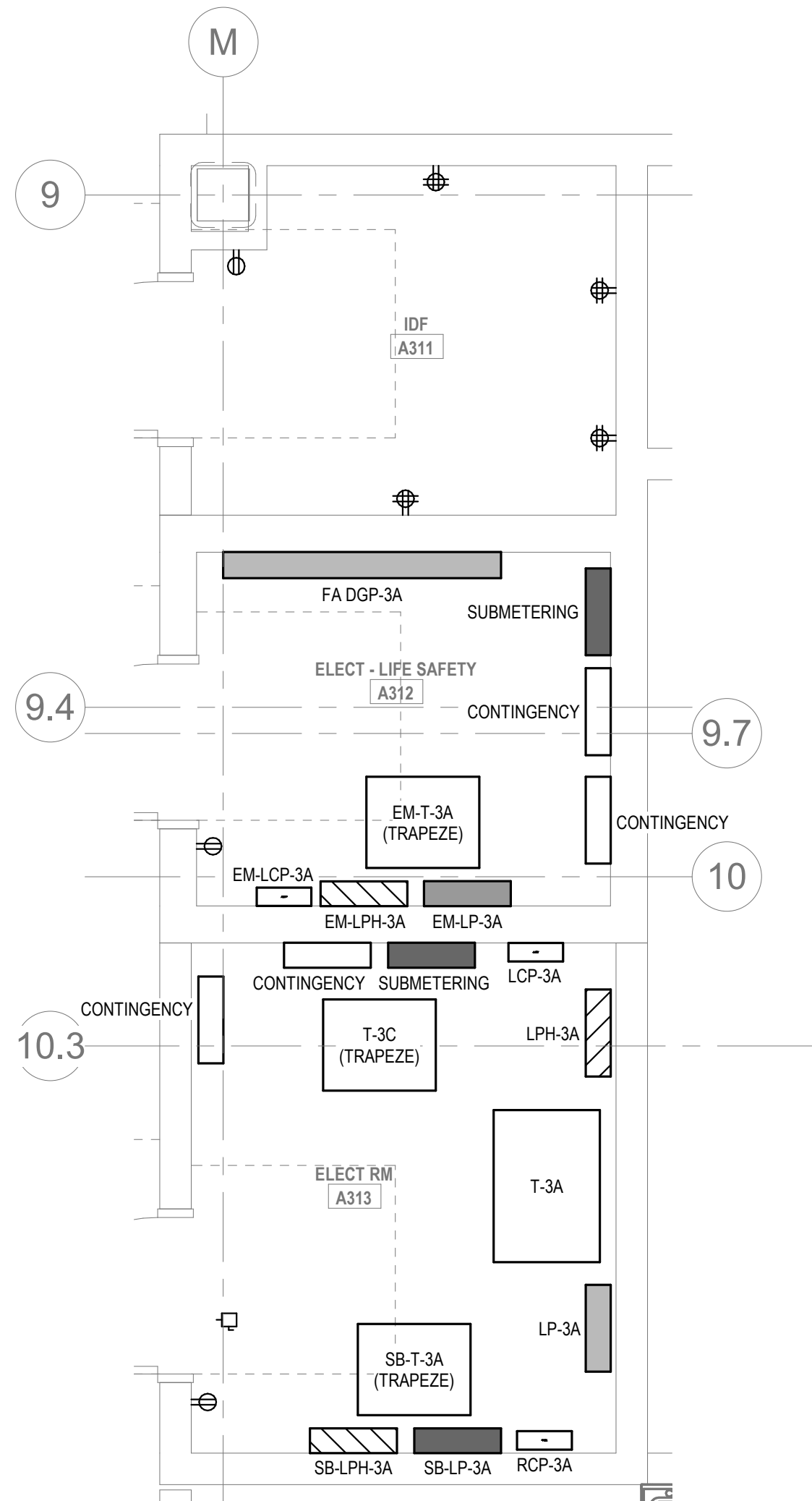
1 ELECTRICAL POWER Level 3 Area A  
1" = 10'-0"

**POWER GENERAL NOTES:**

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**CIRCUIT LEGEND:**

- D # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3A; CIRCUIT #  
H # - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A; CIRCUIT #  
AF # - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A; CIRCUIT #  
AK # - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A; CIRCUIT #  
AS # - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A; CIRCUIT #  
AW # - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A; CIRCUIT #  
EN # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3A; CIRCUIT #  
EP # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3A; CIRCUIT #  
SE # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3A; CIRCUIT #  
SF # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3A; CIRCUIT #  
SA # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3A; CIRCUIT #  
SP # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3A; CIRCUIT #



ELECTRICAL POWER Level 3 Area A - ELEC RM A313 & A312 & IDF  
2 A311  
3/8" = 1'-0"

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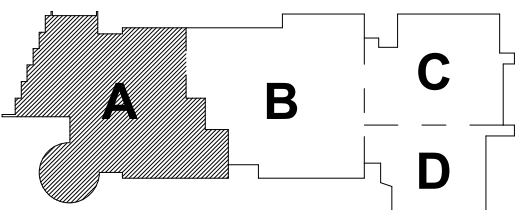
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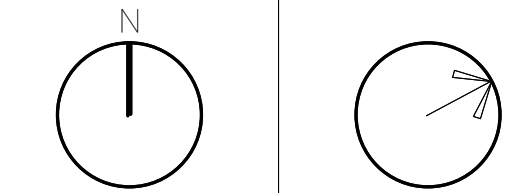
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



**ELECTRICAL  
POWER THIRD  
FLOOR PLAN -  
AREA A**

Scale: As indicated  
Job No.: 2002  
Drawn By: DRA  
Date: January 13, 2023

**E1-1-3A**



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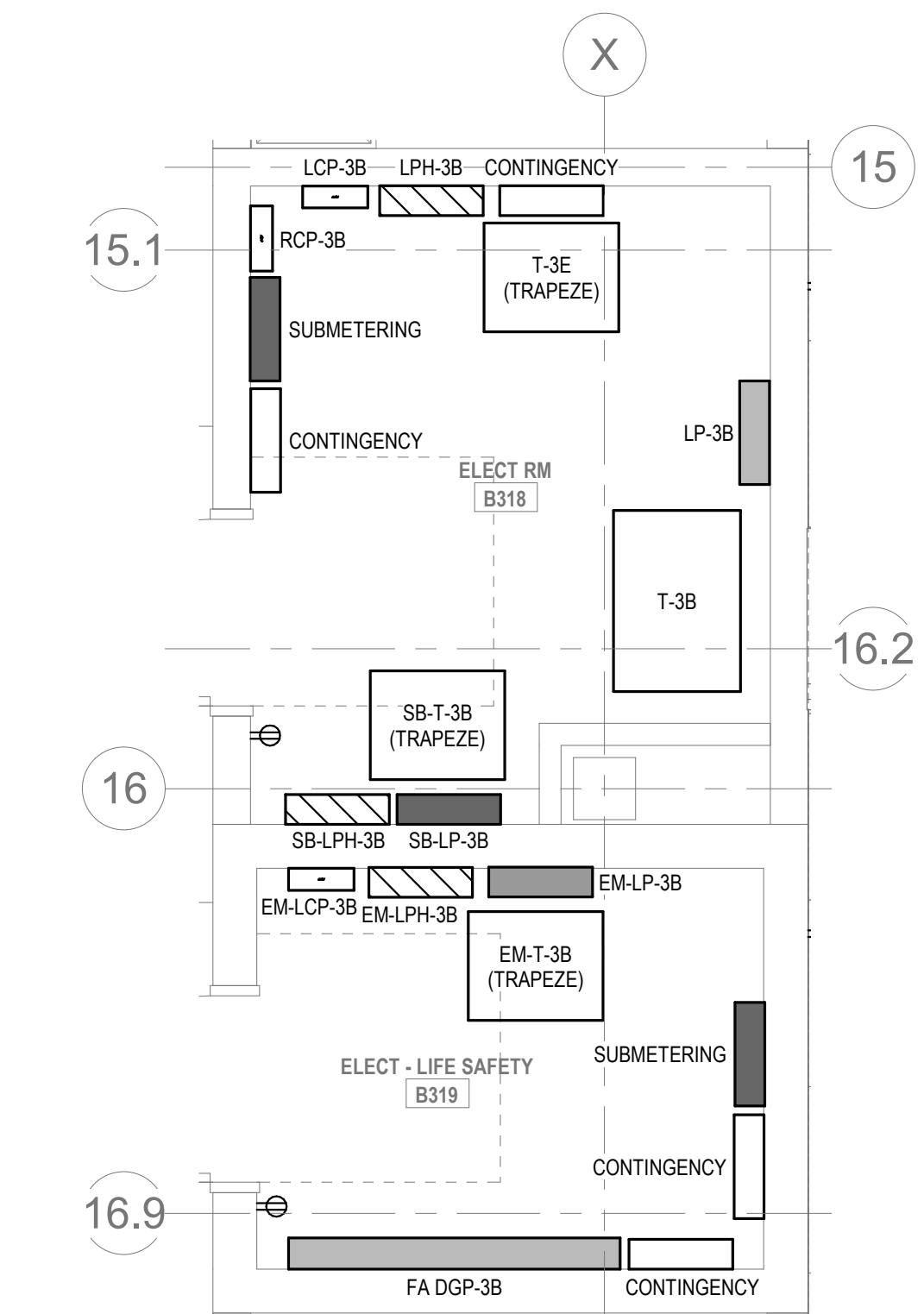
Wakefield, MA 01880

**POWER GENERAL NOTES:**

1. REFER TO E3-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E3-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**CIRCUIT LEGEND:**

- D.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3A, CIRCUIT #  
H.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3B, CIRCUIT #  
AF.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A, CIRCUIT #  
AK.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-3B, CIRCUIT #  
AS.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-3C, CIRCUIT #  
AW.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-3E, CIRCUIT #  
EN.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3A, CIRCUIT #  
EP.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3B, CIRCUIT #  
SE.# - DENOTES BRANCH CIRCUIT PANELBOARD SS-LPH-3A, CIRCUIT #  
SF.# - DENOTES BRANCH CIRCUIT PANELBOARD SS-LPH-3B, CIRCUIT #  
SN.# - DENOTES BRANCH CIRCUIT PANELBOARD SS-LP-3A, CIRCUIT #  
SP.# - DENOTES BRANCH CIRCUIT PANELBOARD SS-LP-3B, CIRCUIT #



② ELECTRICAL POWER Level 3 Area B - ELECT RM B318 & B319  
3/8" = 1'-0"

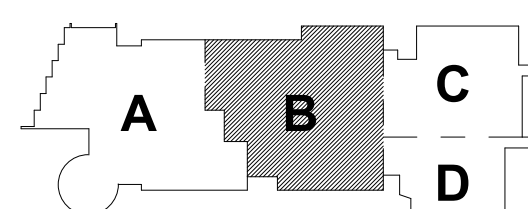
① ELECTRICAL POWER Level 3 Area B  
1/8" = 1'-0"

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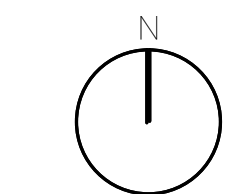
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January 13, 2023

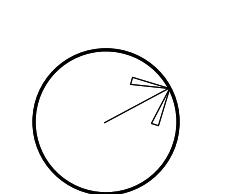


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**ELECTRICAL  
POWER THIRD  
FLOOR PLAN -  
AREA B**

Scale: As indicated  
Job No.: 2002  
Drawn By: DRA  
Date: January 13, 2023

E1-1-3B



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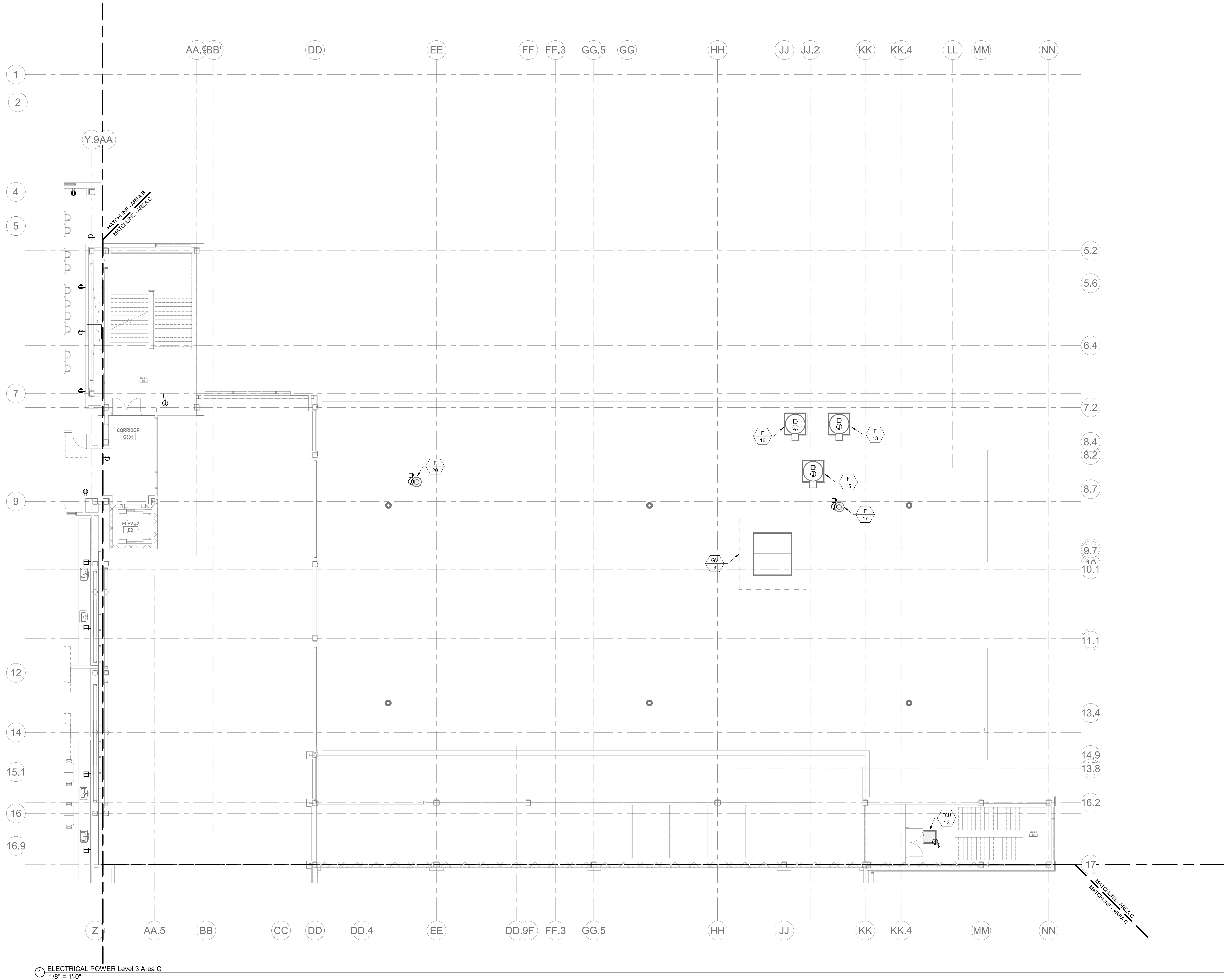
Wakefield, MA 01880

POWER GENERAL NOTES:

1. REFER TO E0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

CIRCUIT LEGEND:

- D.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3A, CIRCUIT #  
H.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3B, CIRCUIT #  
AF.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A, CIRCUIT #  
AK.# - DENOTES BRANCH CIRCUIT PANELBOARD LP-3B, CIRCUIT #  
EN.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3A, CIRCUIT #  
EP.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3B, CIRCUIT #  
SE.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3A, CIRCUIT #  
SF.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3B, CIRCUIT #  
SN.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-3A, CIRCUIT #  
SP.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-3B, CIRCUIT #

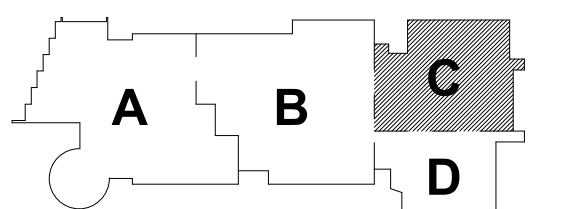


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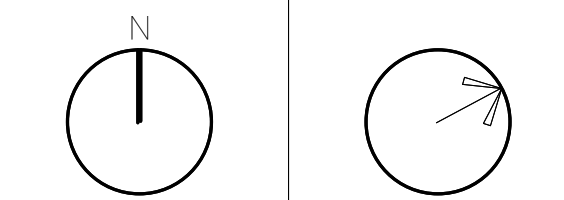
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
POWER THIRD  
FLOOR PLAN -  
AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

E1-1-3C



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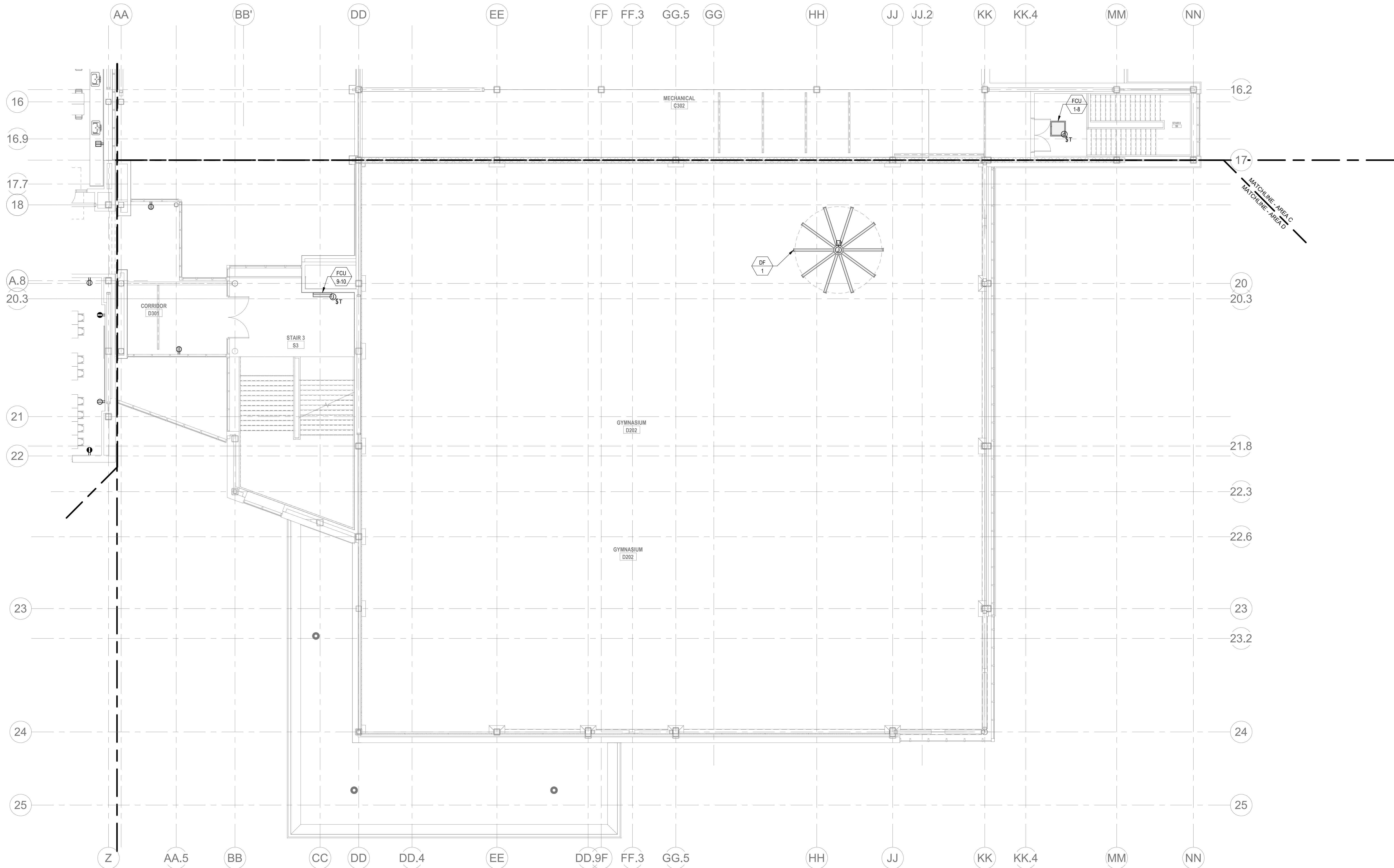
Wakefield, MA 01880

POWER GENERAL NOTES:

1. REFER TO E3-0.1 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-0.1, AND 2 FOR SINGLE LINE DIAGRAM.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E3-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

CIRCUIT LEGEND:

D # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3A, CIRCUIT #  
H # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3B, CIRCUIT #  
AF # - DENOTES BRANCH CIRCUIT PANELBOARD LP-3A, CIRCUIT #  
AK # - DENOTES BRANCH CIRCUIT PANELBOARD LP-3B, CIRCUIT #  
EN # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3A, CIRCUIT #  
EP # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LP-3B, CIRCUIT #  
SE # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3A, CIRCUIT #  
SF # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-3B, CIRCUIT #  
SN # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-3A, CIRCUIT #  
SP # - DENOTES BRANCH CIRCUIT PANELBOARD SB-LP-3B, CIRCUIT #



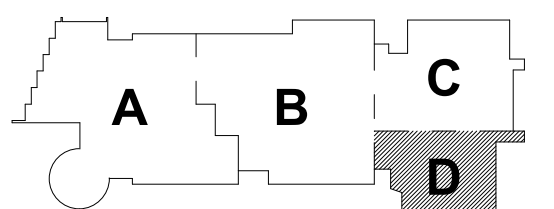
1 ELECTRICAL POWER Level 3 Area D  
1/8" = 1'-0"

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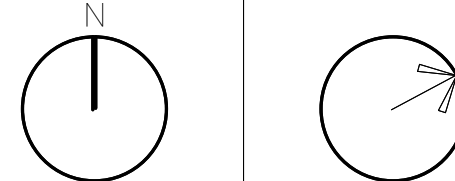
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
POWER THIRD  
FLOOR PLAN -  
AREA D

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-3D



|                                                              |                                                          |
|--------------------------------------------------------------|----------------------------------------------------------|
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|--------------------------------------------------------------|----------------------------------------------------------|

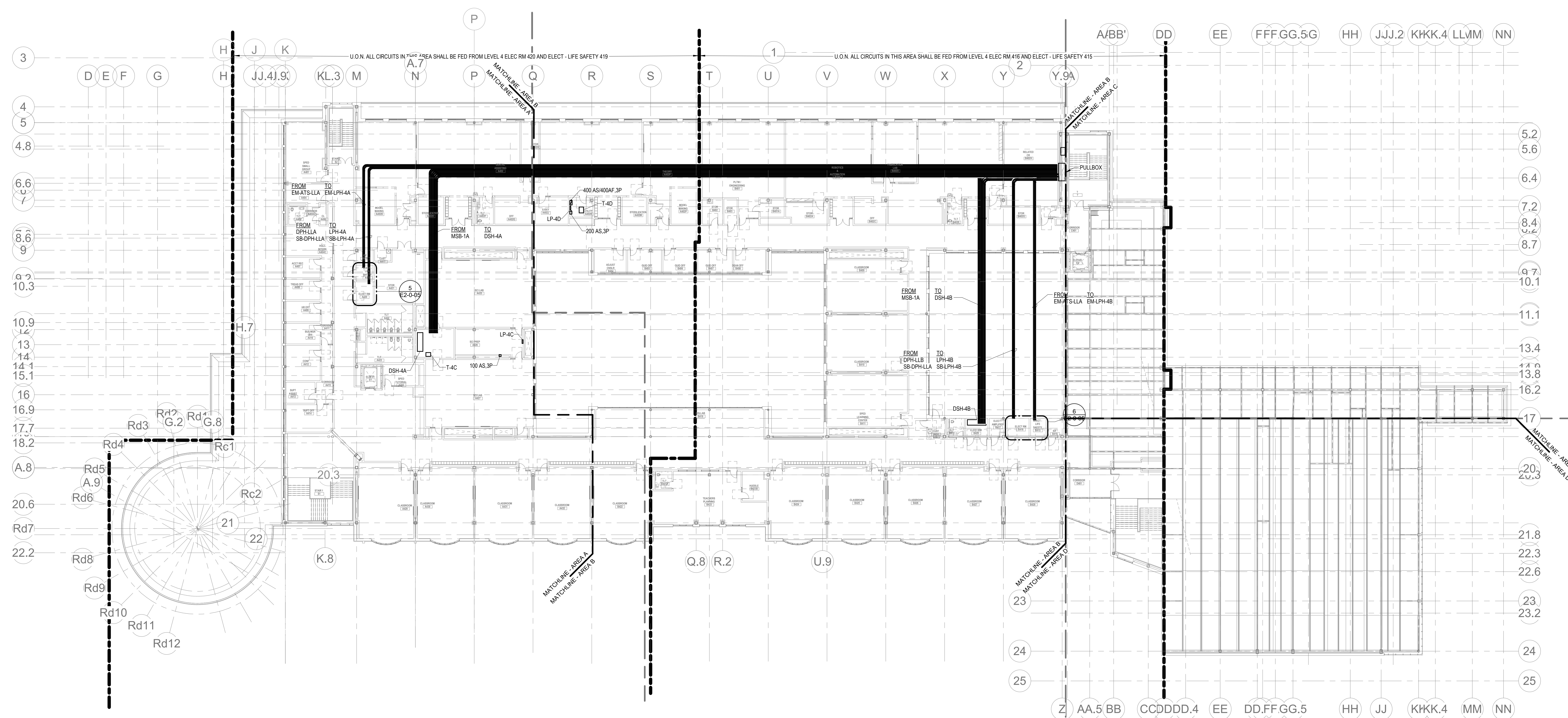
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**GENERAL NOTES:**

1. REFER TO E0-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-0-0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. OVERALL ELECTRICAL FLOOR PLANS SHOW LOCATIONS OF MAJOR DISTRIBUTION EQUIPMENT - SWITCHBOARDS, TRANSFER SWITCHES, TRANSFORMERS, PANELBOARDS, AND CONDUIT RUNS FOR MAIN FEEDERS. REFER TO POWER AND LIGHTING AREA PLANS AND ENLARGED PLANS FOR LOCATIONS OF OTHER ELECTRICAL EQUIPMENT.



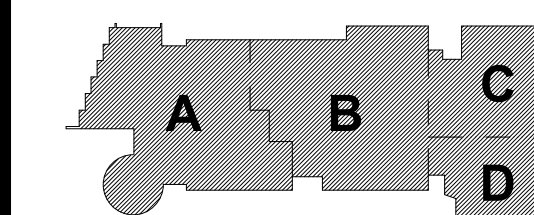
① ELECTRICAL Level 4 OVERALL  
1" = 20'-0"

CONVULSANT 004 DELIVERY DOSE AND ADMINISTRATION

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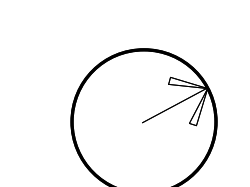
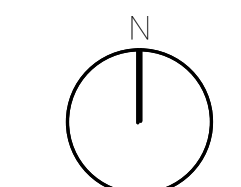
January 13, 2023



### KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**ELECTRICAL  
FOURTH FLOOR  
PLAN - OVERALL  
PLAN**

Scale: 1" = 200.0'

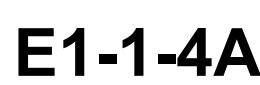
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Dr. Mary B. ...

Date: January 13, 20

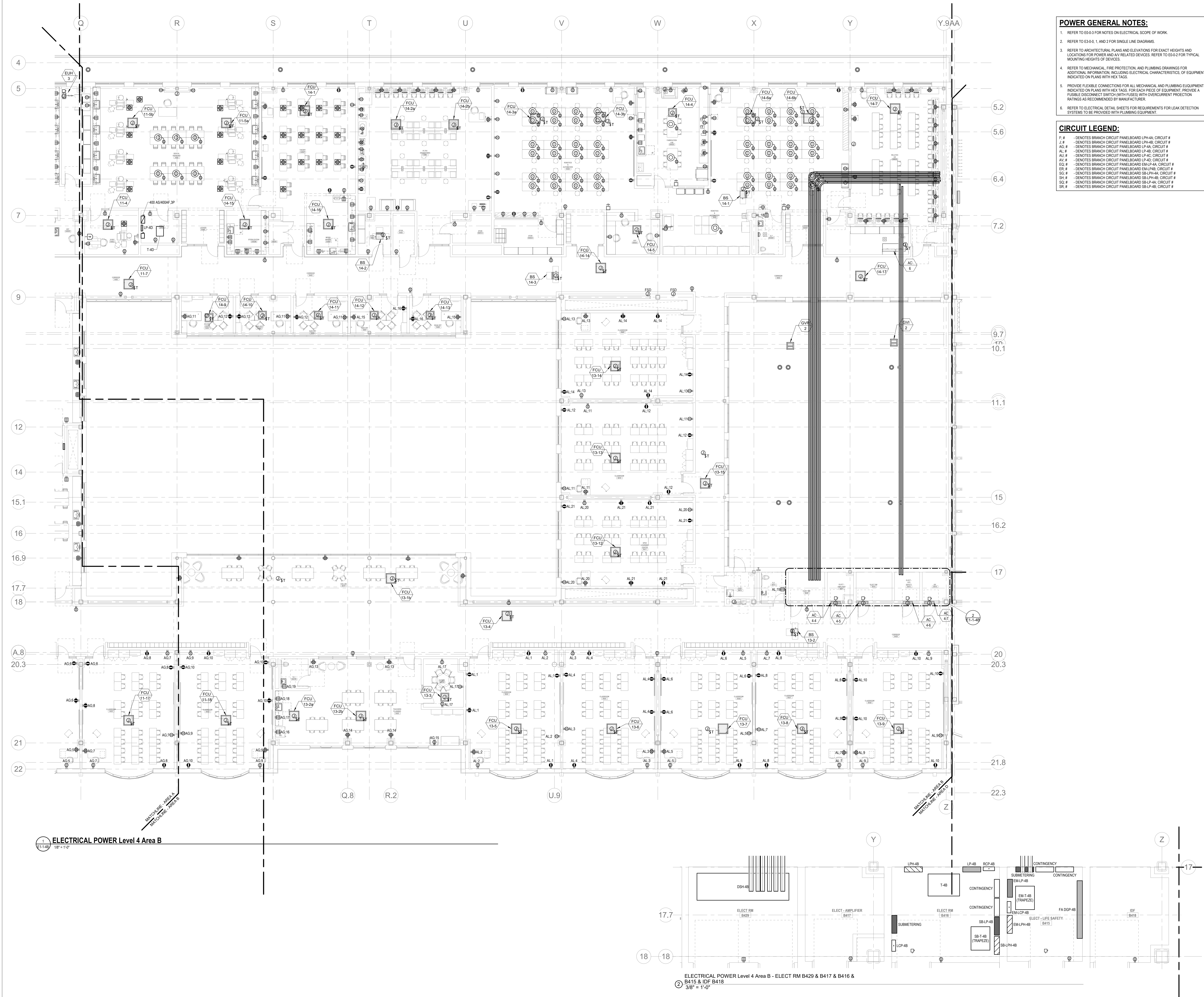
E1-1-4





① ELECTRICAL POWER Level 4 Area A  
1" = 10'-0"





- POWER GENERAL NOTES:**
- REFER TO E3-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
  - REFER TO E3-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
  - REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E3-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
  - REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
  - PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
  - REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

- CIRCUIT LEGEND:**
- F.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4A, CIRCUIT #  
J.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4B, CIRCUIT #  
AG.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4A, CIRCUIT #  
AL.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4B, CIRCUIT #  
AV.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4C, CIRCUIT #  
EQ.# - DENOTES BRANCH CIRCUIT PANELBOARD EMLP-4A, CIRCUIT #  
ER.# - DENOTES BRANCH CIRCUIT PANELBOARD EMLP-4B, CIRCUIT #  
SG.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-4A, CIRCUIT #  
SH.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-4B, CIRCUIT #  
SQ.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-4A, CIRCUIT #  
SR.# - DENOTES BRANCH CIRCUIT PANELBOARD SB-LPH-4B, CIRCUIT #

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January 13, 2023

KEY PLAN

PROJECT NORTH  
MAGNETIC NORTH

ELECTRICAL  
POWER FOURTH  
FLOOR PLAN -  
AREA B

Scale: As indicated  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-4B



GENERAL NOTES:

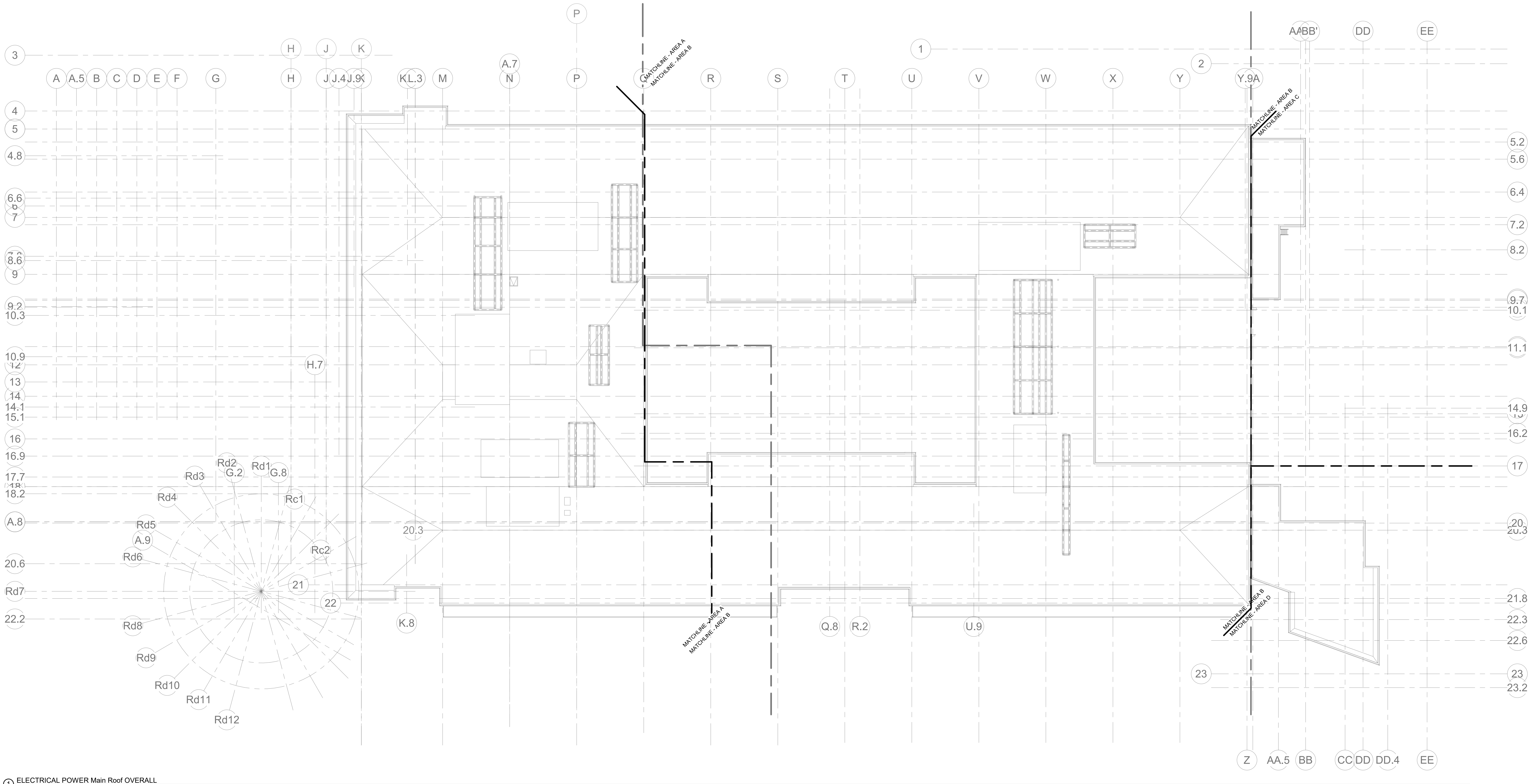
- REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
- REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
- OVERALL ELECTRICAL FLOOR PLANS SHOW LOCATIONS OF MAJOR DISTRIBUTION EQUIPMENT - SWITCHBOARDS, TRANSFER SWITCHES, TRANSFORMERS, PANELBOARDS, AND CONDUIT RUNS FOR MAIN FEEDERS. REFER TO POWER AND LIGHTING AREA PLANS AND ENLARGED PLANS FOR LOCATIONS OF OTHER ELECTRICAL EQUIPMENT.

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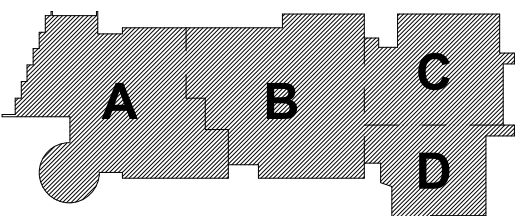


1 ELECTRICAL POWER Main Roof OVERALL  
1/16" = 1'-0"

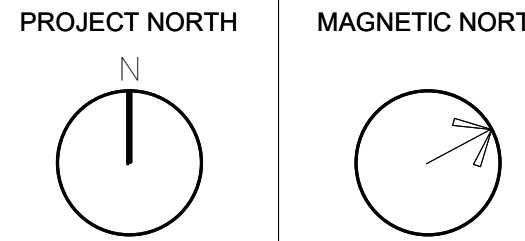
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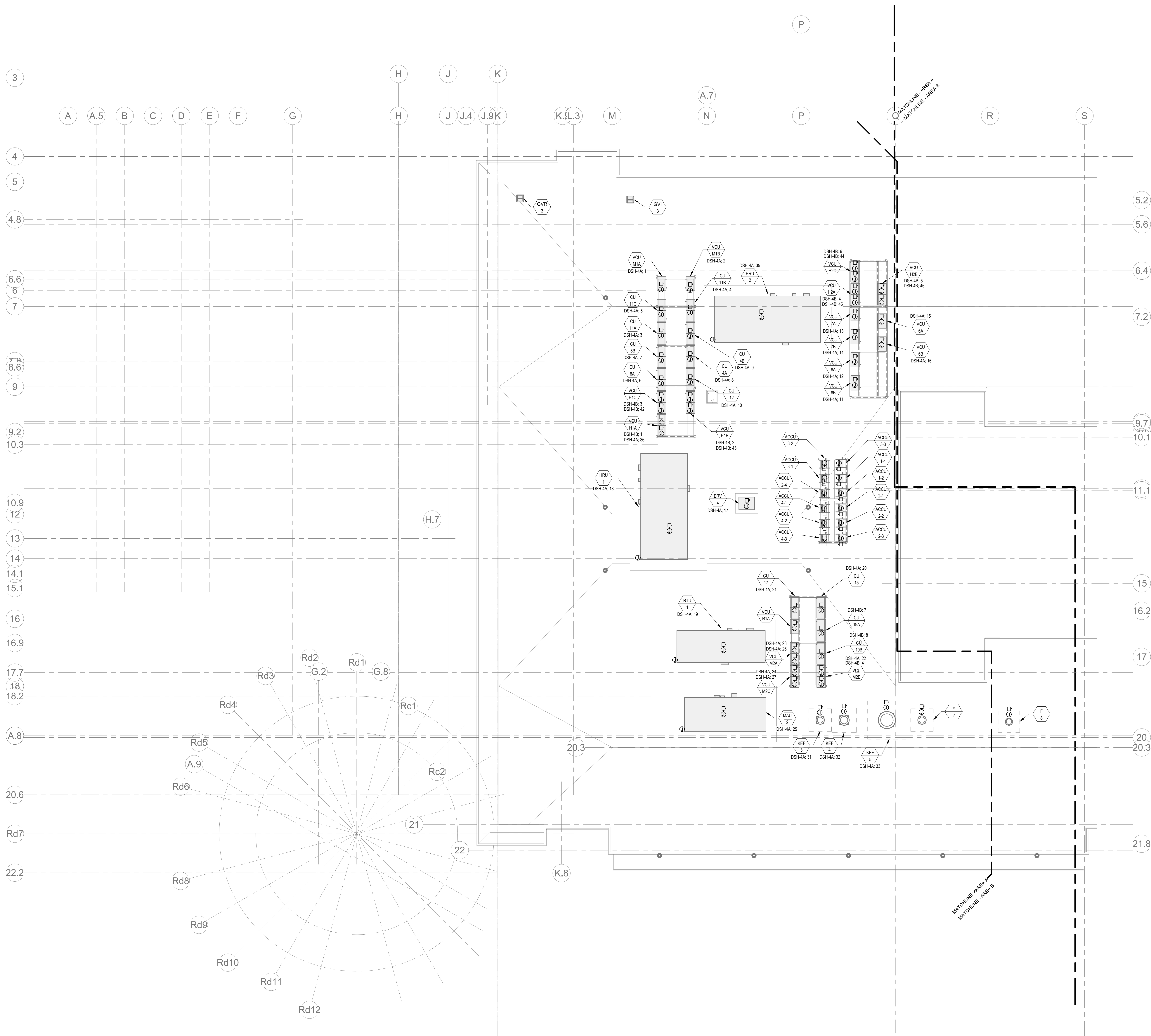
KEY PLAN



ELECTRICAL  
POWER ROOF  
PLAN - OVERALL  
PLAN

Scale: 1/16" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
E1-2-1





1 ELECTRICAL POWER Main Roof Area A  
1" = 10'-0"

**POWER GENERAL NOTES:**

1. REFER TO E0-0.1 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

**CIRCUIT LEGEND:**

X, # - DENOTES BRANCH CIRCUIT PANELBOARD DSH-4A, CIRCUIT #

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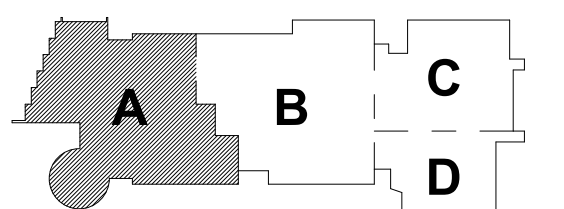
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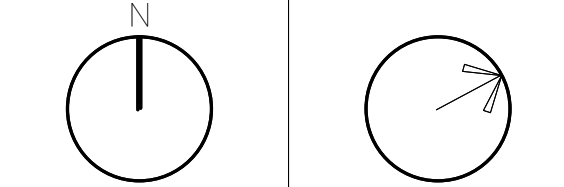
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January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH

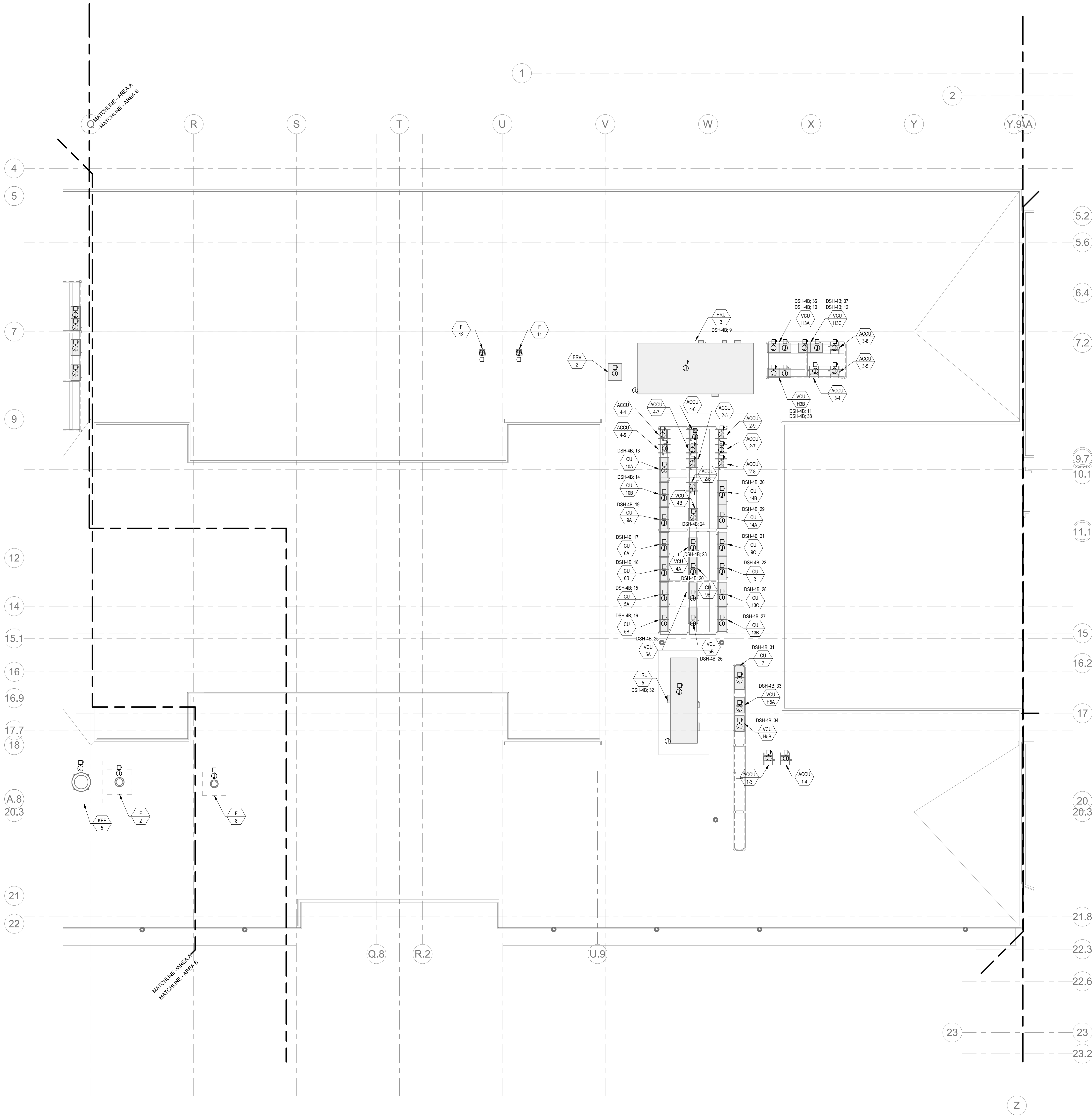


**ELECTRICAL  
POWER ROOF  
PLAN - AREA A**

Scale: 1" = 10'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**E1-2-1A**





1 ELECTRICAL POWER Main Roof Area B  
1" = 10'-0"

- POWER GENERAL NOTES:**
1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
  2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
  3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
  4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
  5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
  6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

- CIRCUIT LEGEND:**
- Y, # - DENOTES BRANCH CIRCUIT PANELBOARD DSH-4B, CIRCUIT #

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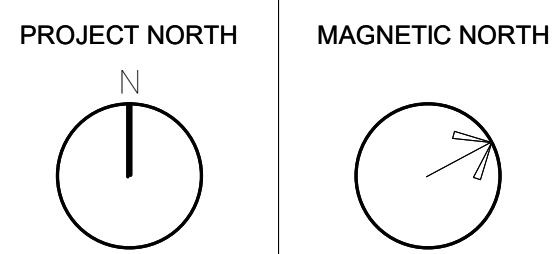
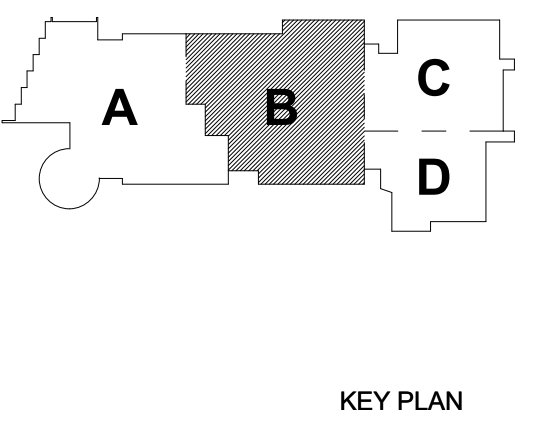
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**ELECTRICAL  
POWER ROOF  
PLAN - AREA B**

Scale: 1" = 10'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-2-1B



|                                                              |                                                          |
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1. REFER TO E-03.0 FOR NOTES ON ELECTRICAL SCOPES OF WORK
2. REFER TO E-03.0.1 AND 2. FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL, PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ILLUMINATED DEVICES. REFER TO E-03.0 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT NEAR OR ADJACENT TO THE WORK AREA.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATING AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH THE EQUIPMENT.

ZA; # - DENOTES BRANCH CIRCUIT PANELBOARD MPH-2A; CIRCUIT #  
ZB; # - DENOTES BRANCH CIRCUIT PANELBOARD MPH-2B; CIRCUIT #



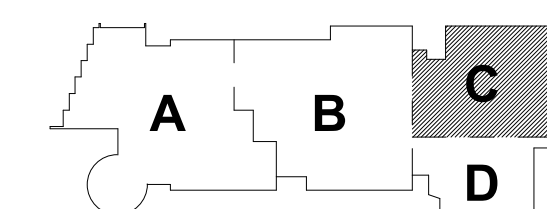
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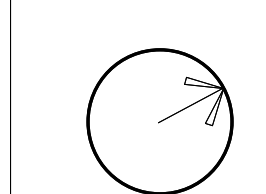
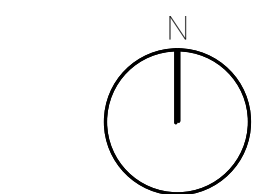
January 13, 2023



**KEY PLAIN**

PROJECT NORT

MAGNETIC NORTH



Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DR

Date: January 13, 2021

**E1-2-1C**



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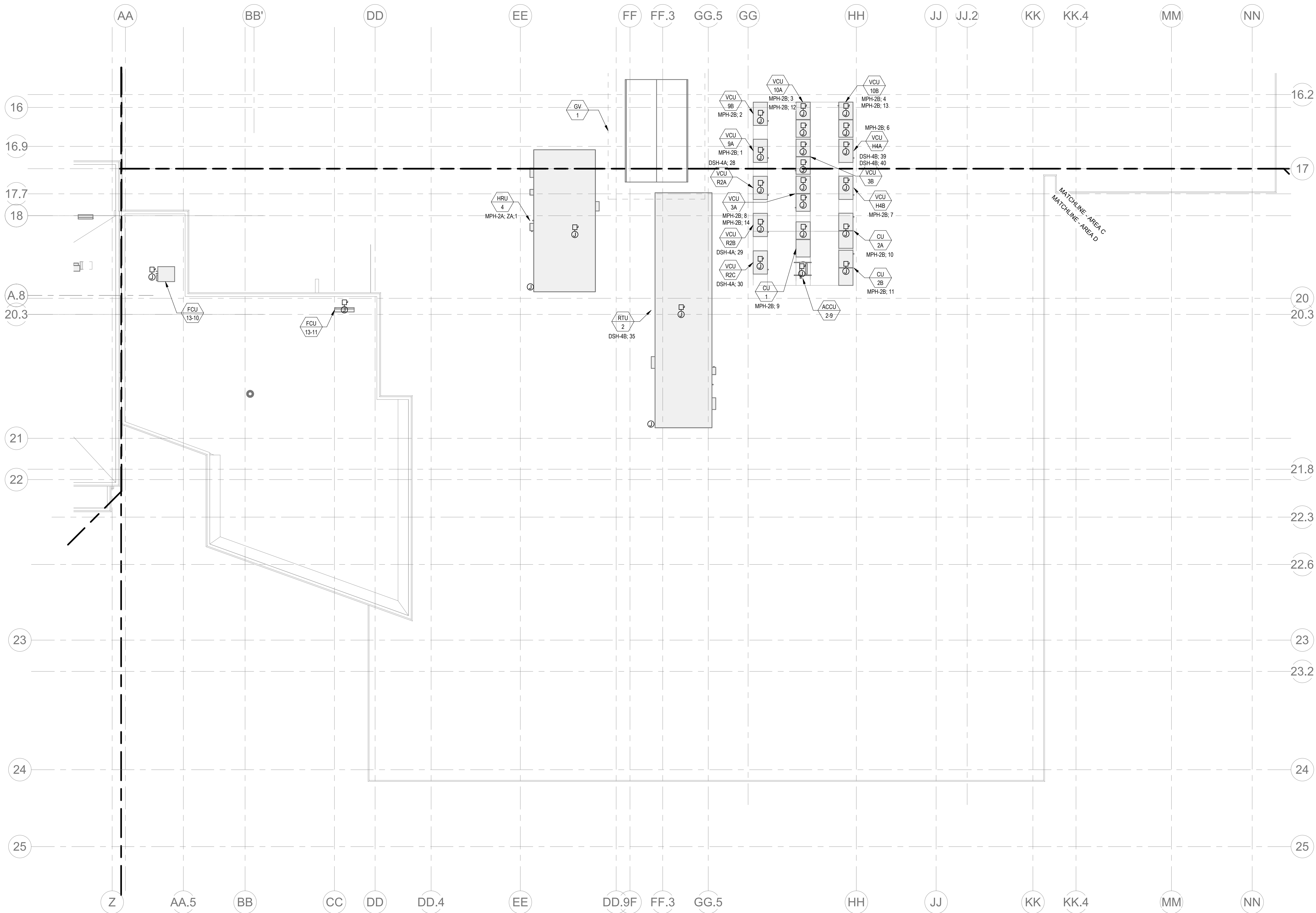
Wakefield, MA 01880

POWER GENERAL NOTES:

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAM.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

CIRCUIT LEGEND:

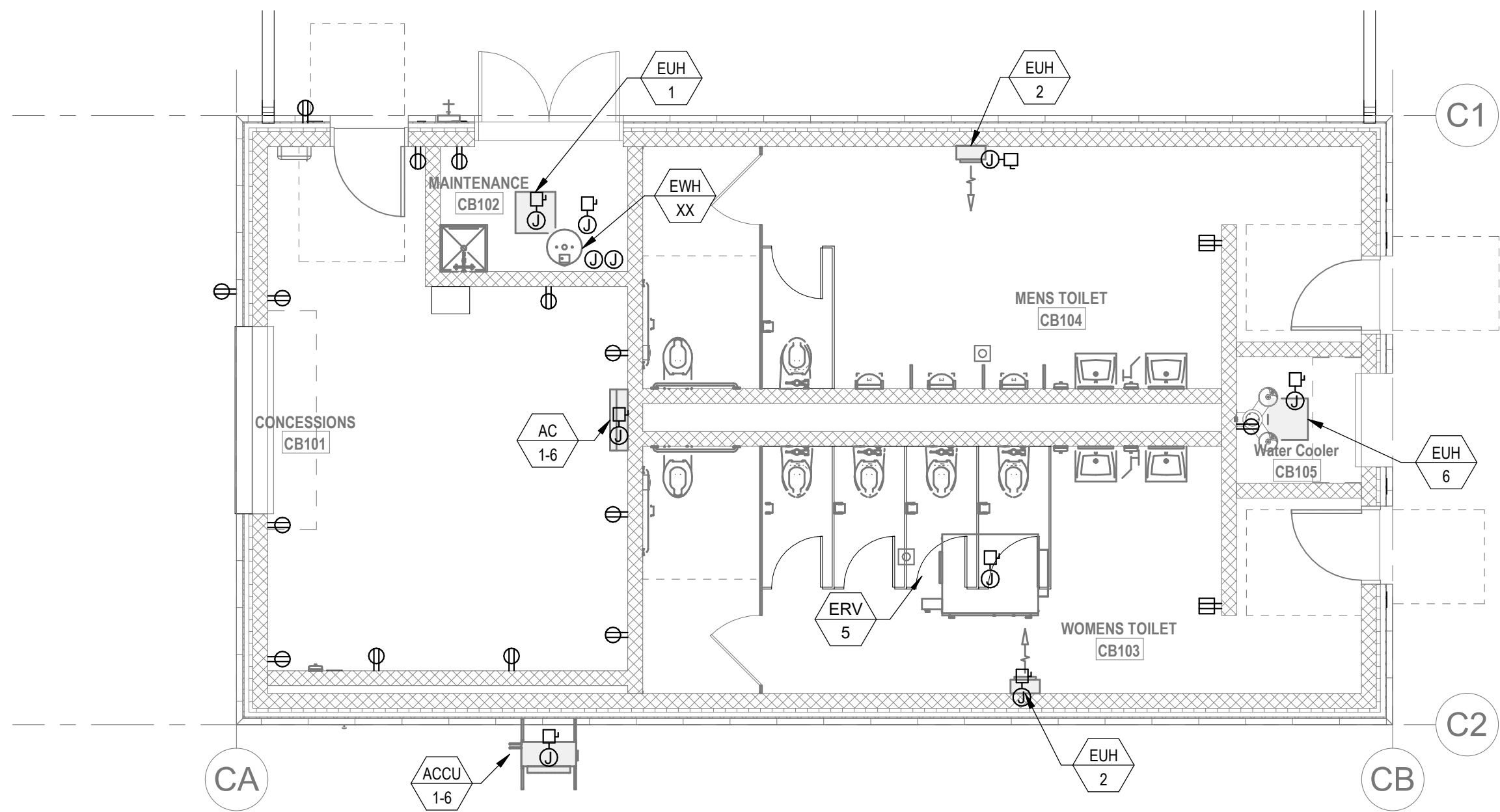
- ZA, # - DENOTES BRANCH CIRCUIT PANELBOARD MPH-2A, CIRCUIT #  
ZB, # - DENOTES BRANCH CIRCUIT PANELBOARD MPH-2B, CIRCUIT #





POWER GENERAL NOTES:

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E0-0.0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ALL RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.



1 ELECTRICAL - CONCESSIONS FLOOR LEVEL POWER PLAN (ADD ALTERNATE)  
E1-1-CB 3/16" = 1'-0"

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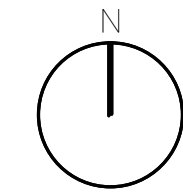
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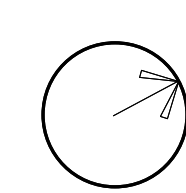
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January 13, 2023

PROJECT NORTH



MAGNETIC NORTH



ELECTRICAL  
POWER  
CONCESSIONS  
BUILDING PLAN

Scale: 3/16" = 1'-0"

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

E1-1-CB



1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E3-0.1, 1 AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E0-0.2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEAT TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEAT TAGS. PROVIDE A FUSE OR CIRCUIT BREAKER, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

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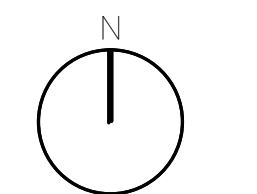
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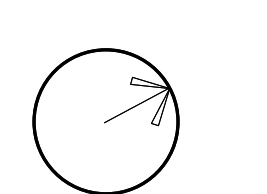
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PROJECT NORTH



MAGNETIC NORTH



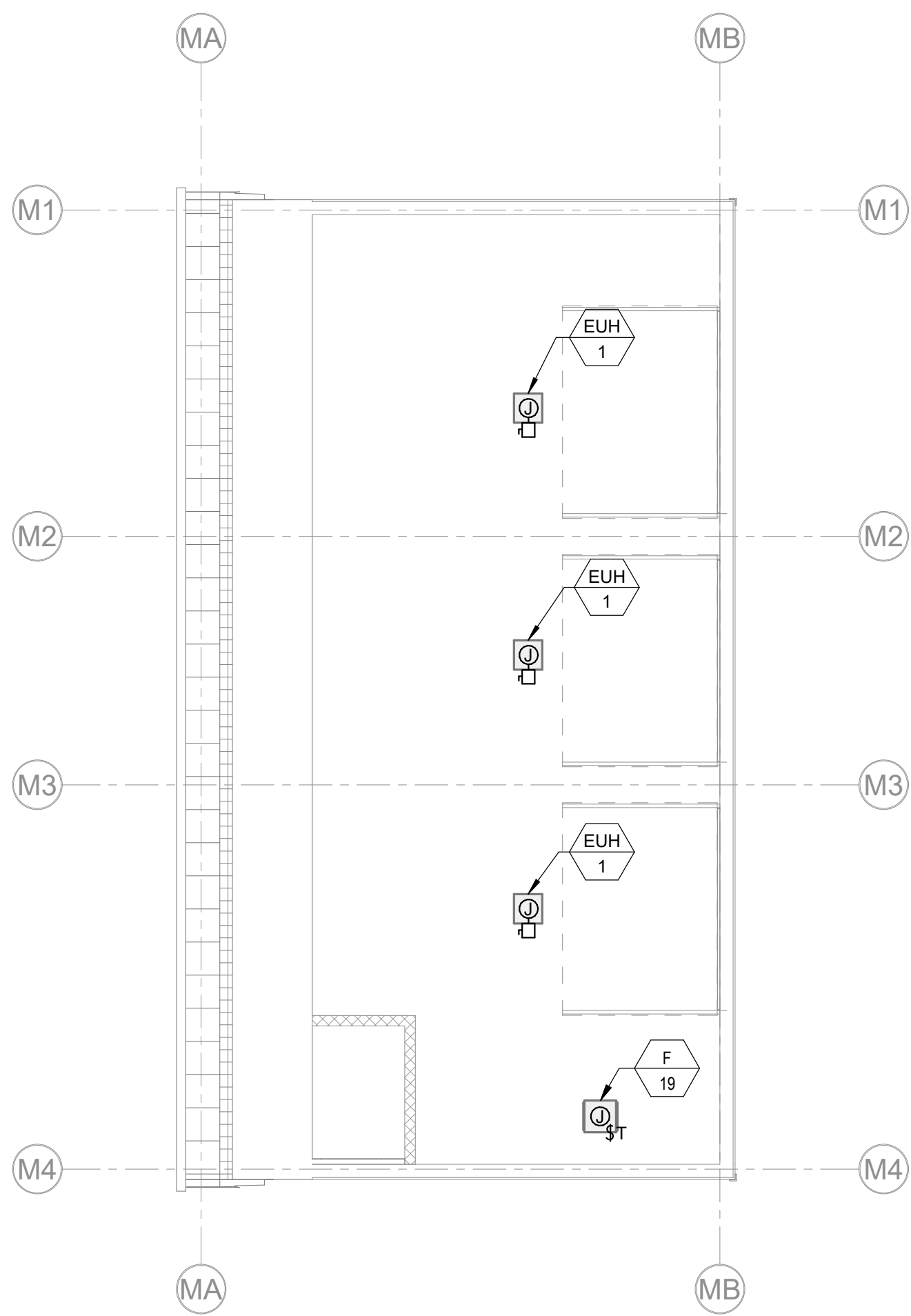
Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-LB



POWER GENERAL NOTES:

1. REFER TO EG-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO EG-0-0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO EG-0-2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.



2 ELECTRICAL POWER Maintenance Building Plan (ADD ALTERNATE)  
1/8" = 1'-0"



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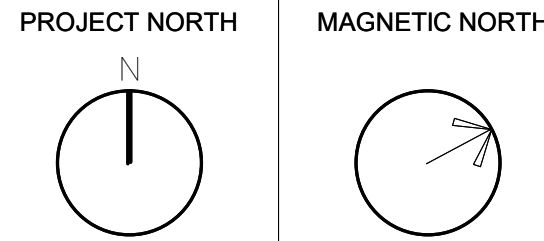
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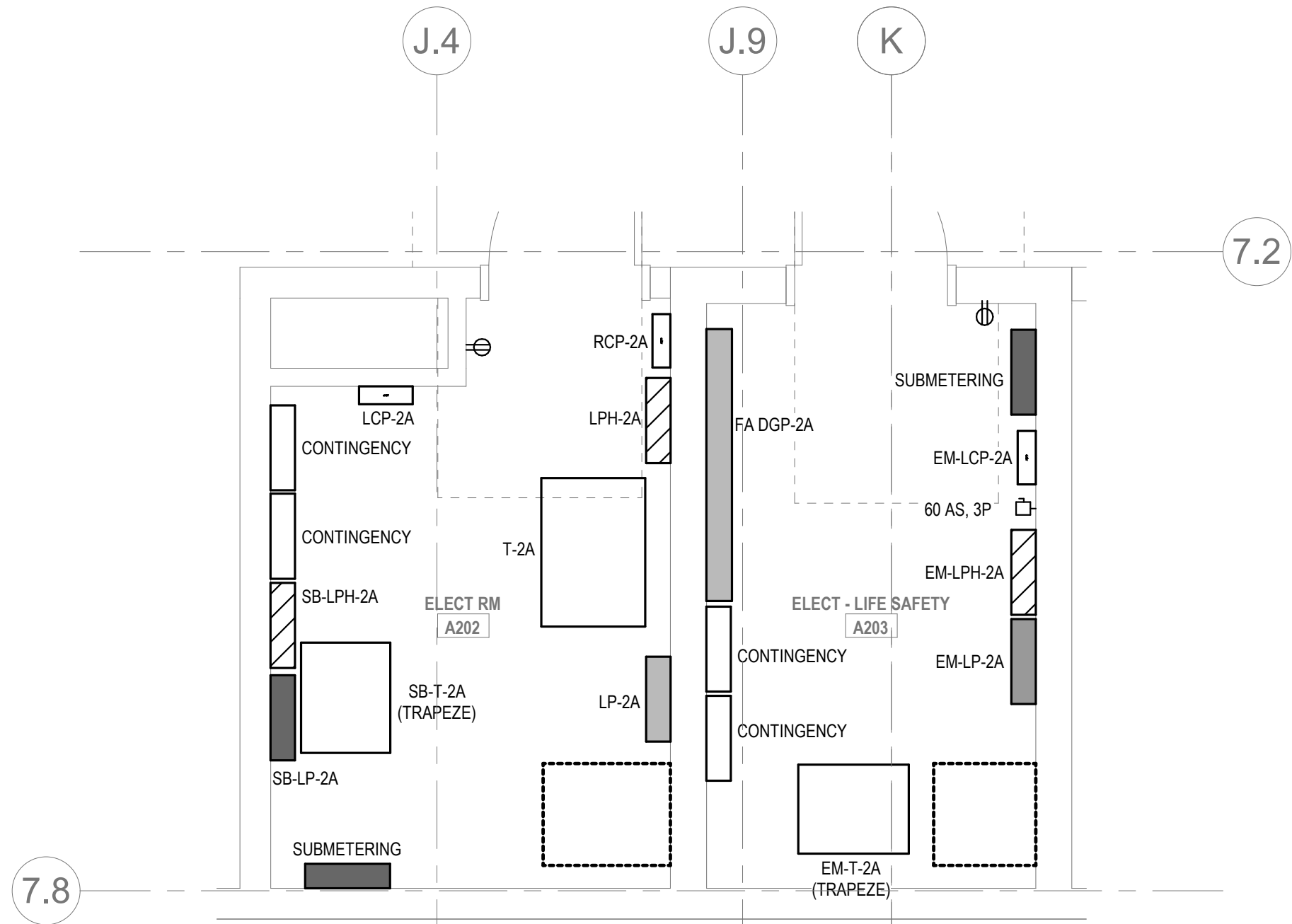


ELECTRICAL  
POWER  
MAINTENANCE  
BUILDING PLAN

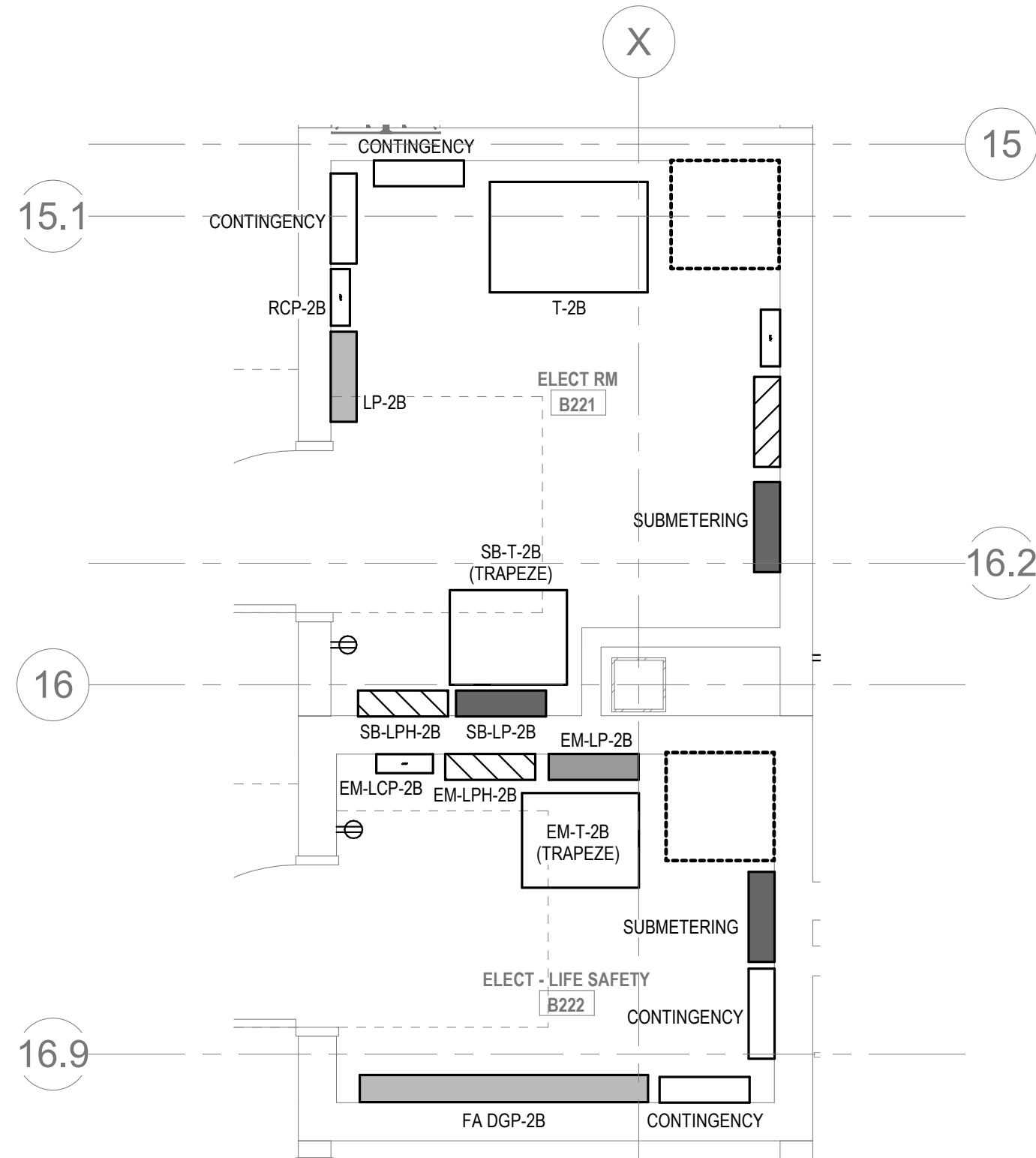
Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E1-1-MB

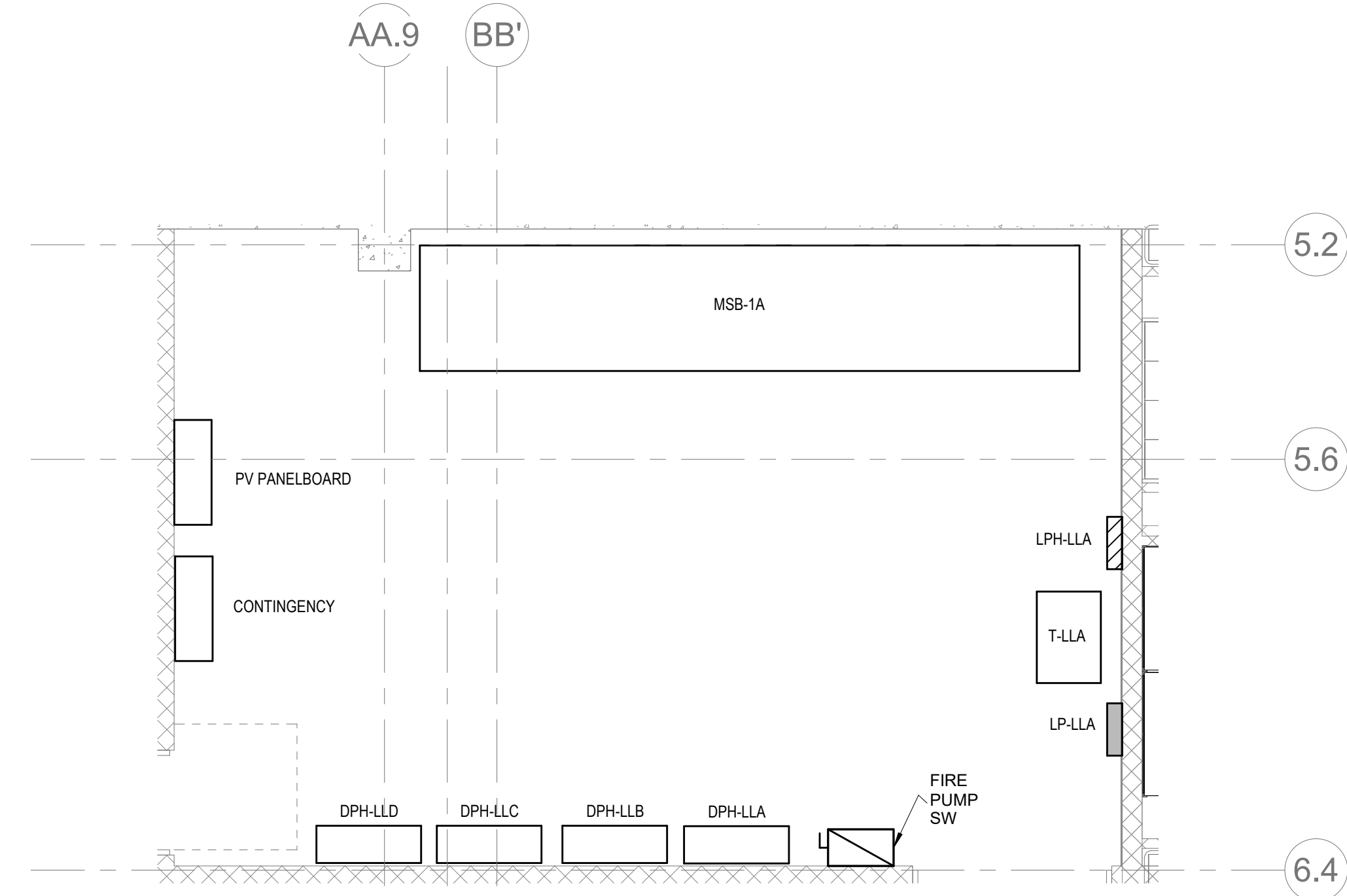




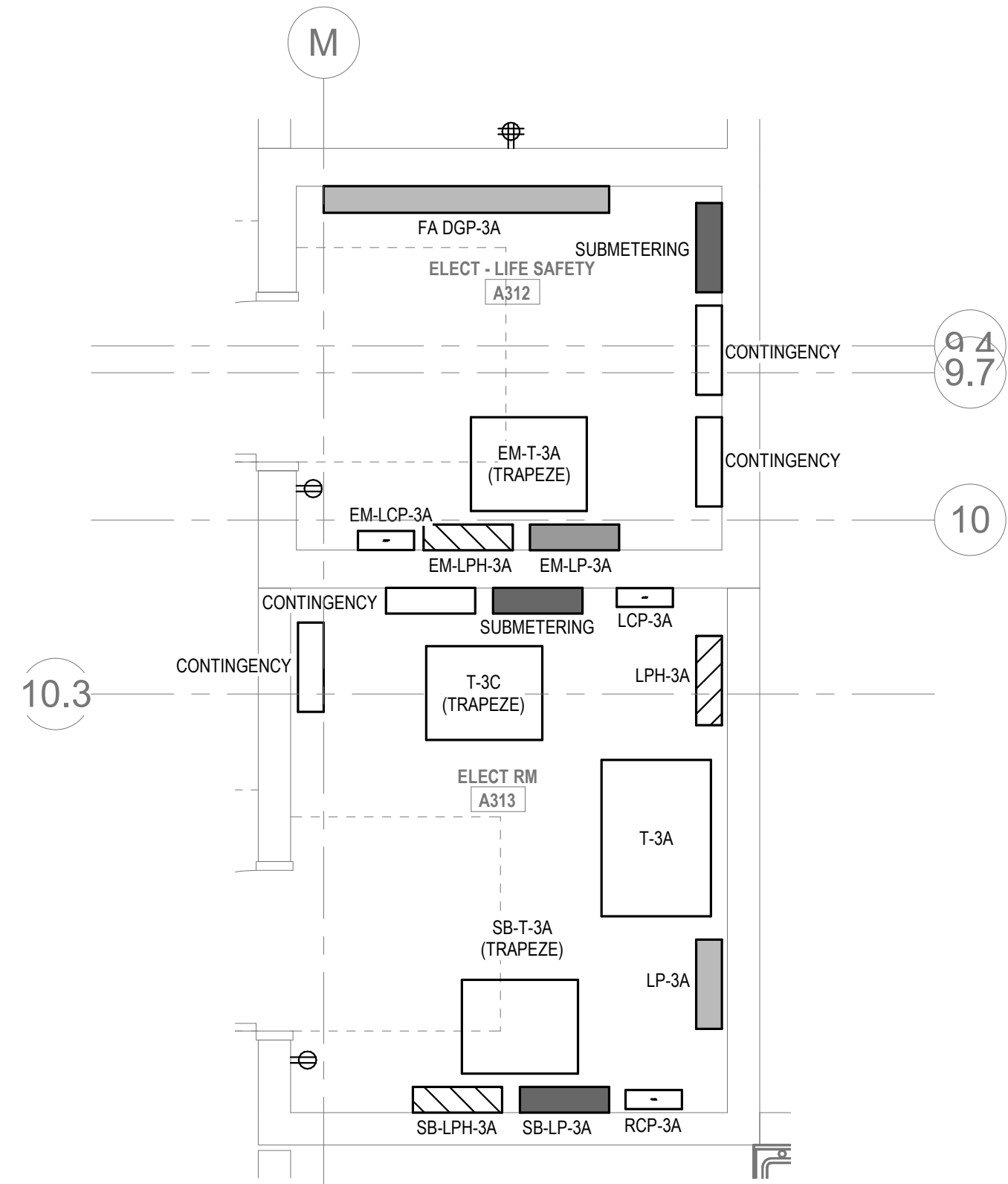
**1 ELECTRICAL Level 2 OVERALL - ELECTRICAL ROOMS PART PLAN - 2A**  
E2-0-05 3/8" = 1'-0"



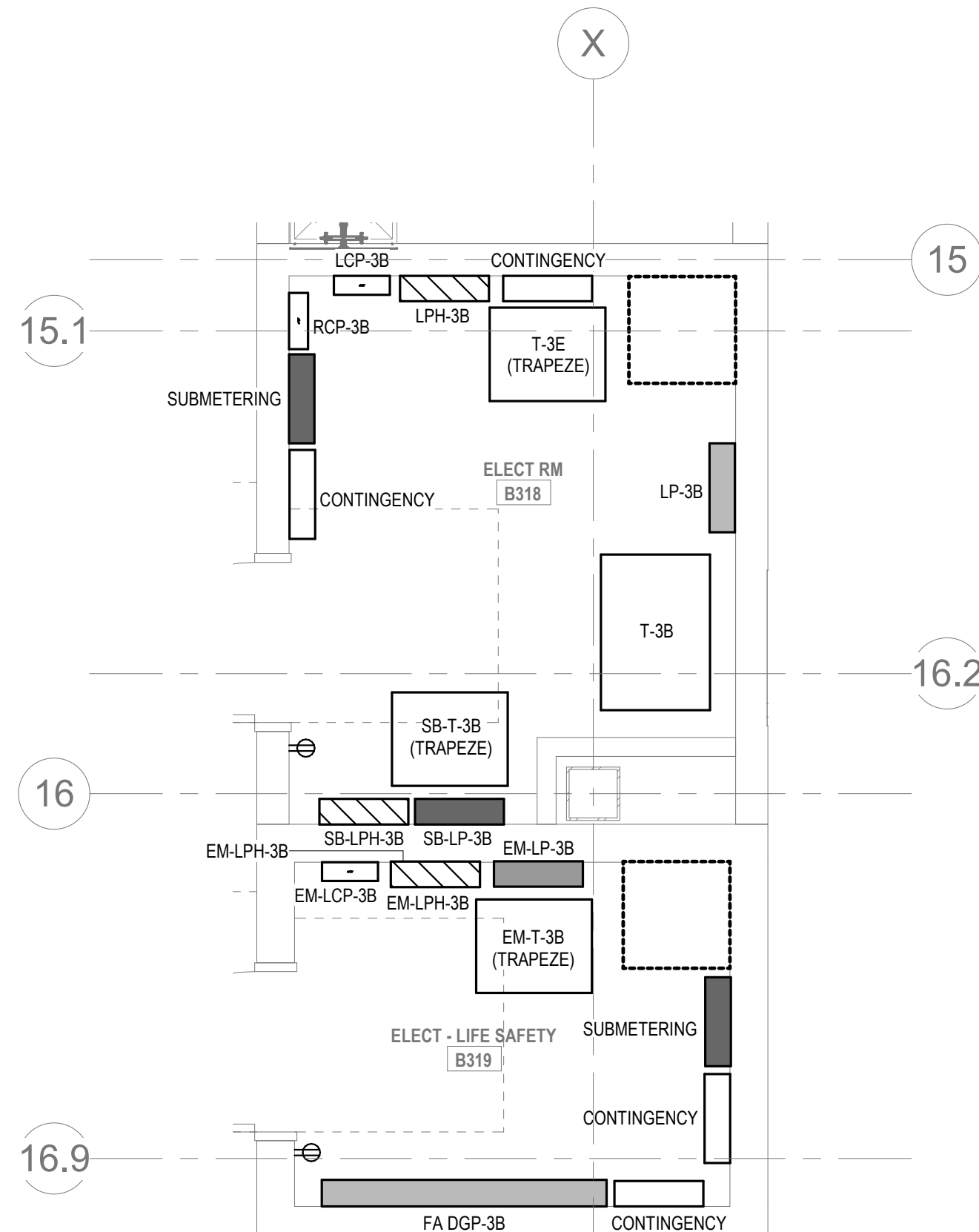
**2 ELECTRICAL Level 2 OVERALL - ELECTRICAL ROOMS PART PLAN - 2B**  
E2-0-05 3/8" = 1'-0"



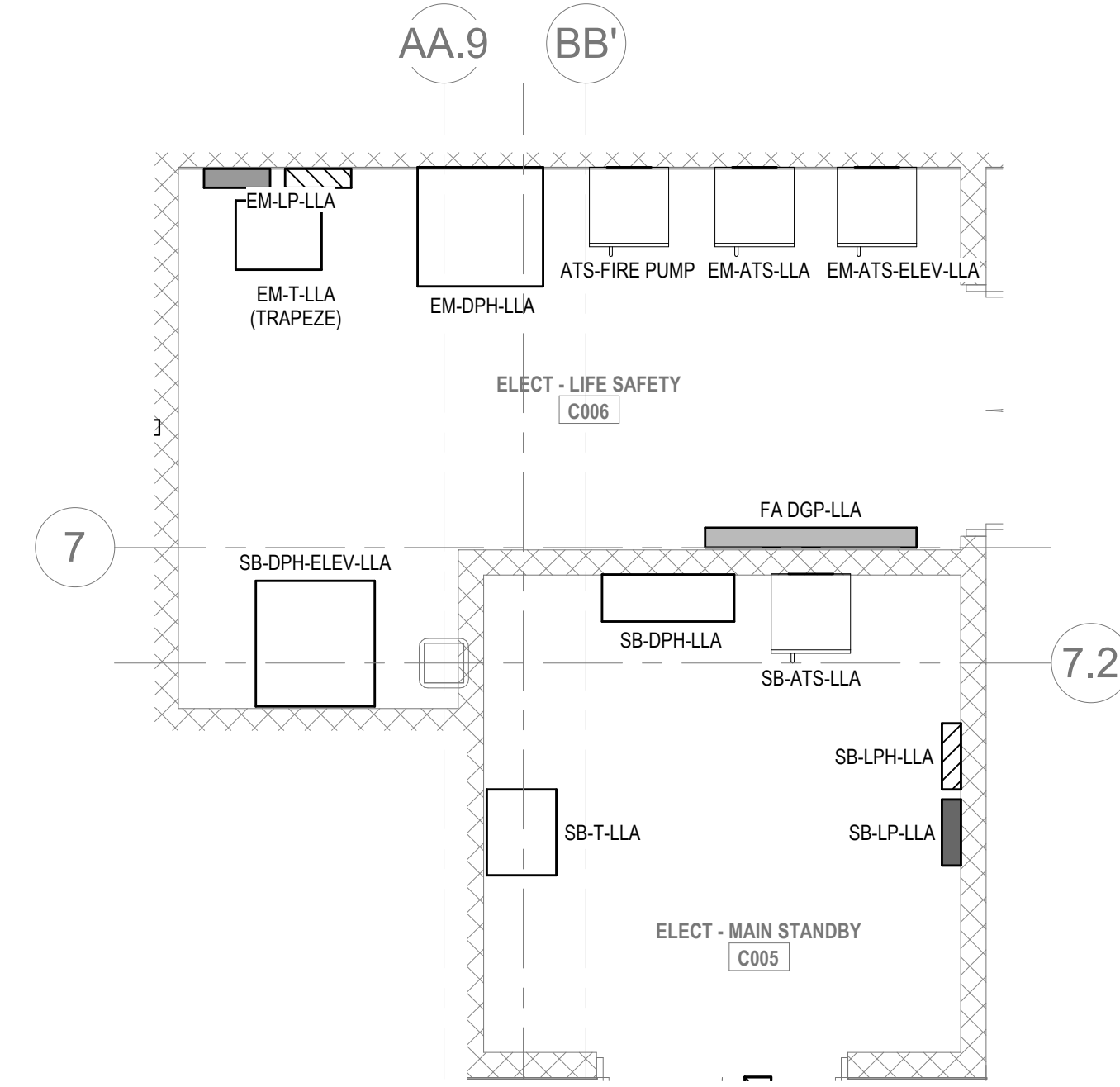
**8 ELECTRICAL Level 0 OVERALL - MAIN ELECTRIC ROOM**  
E2-0-05 1/4" = 1'-0"



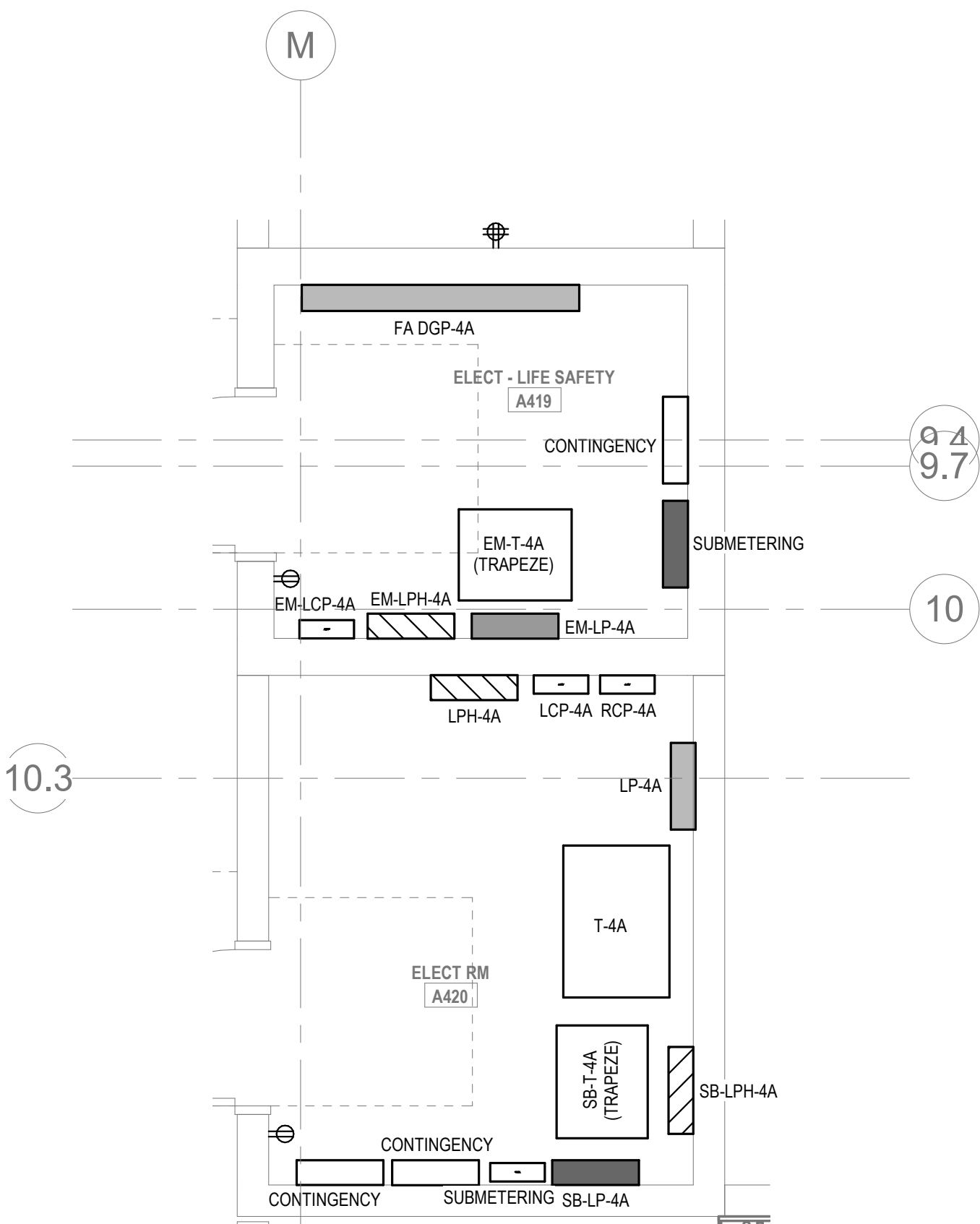
**3 ELECTRICAL Level 3 OVERALL - ELECTRICAL ROOMS PART PLAN - 3A**  
E2-0-05 3/8" = 1'-0"



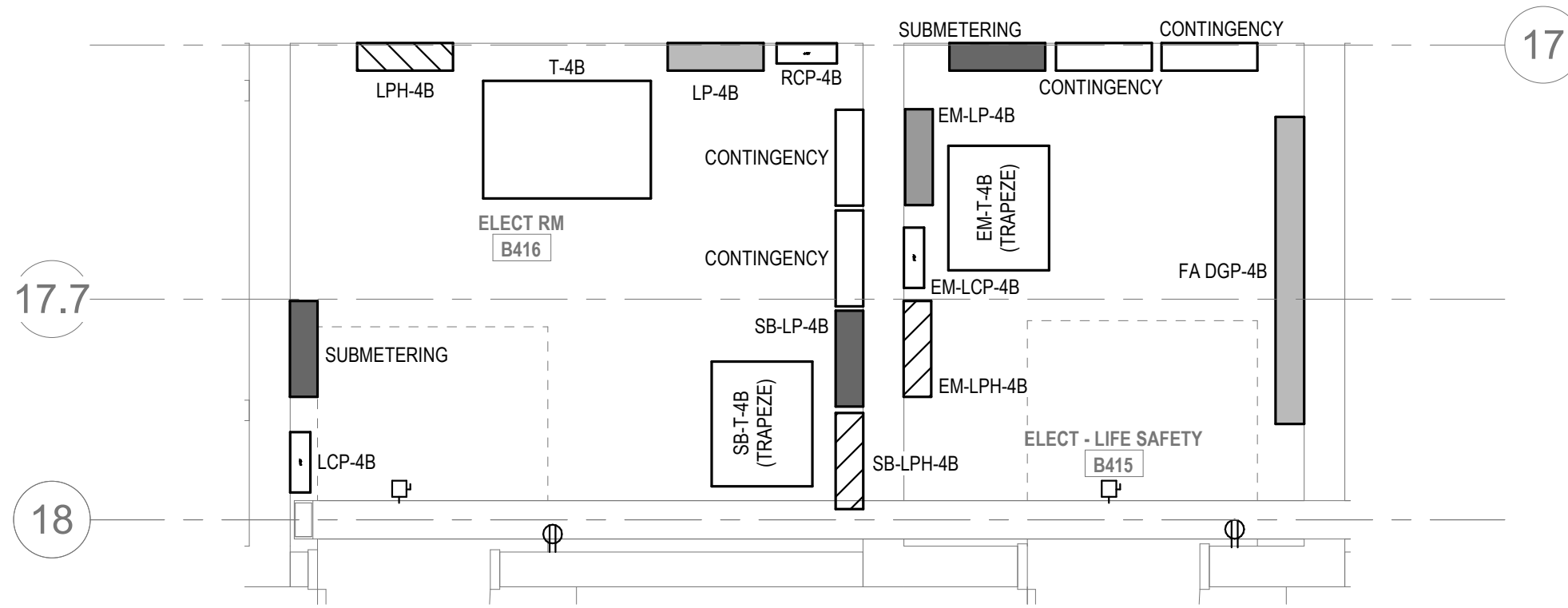
**4 ELECTRICAL Level 3 OVERALL - ELECTRICAL ROOMS PART PLAN - 3B**  
E2-0-05 3/8" = 1'-0"



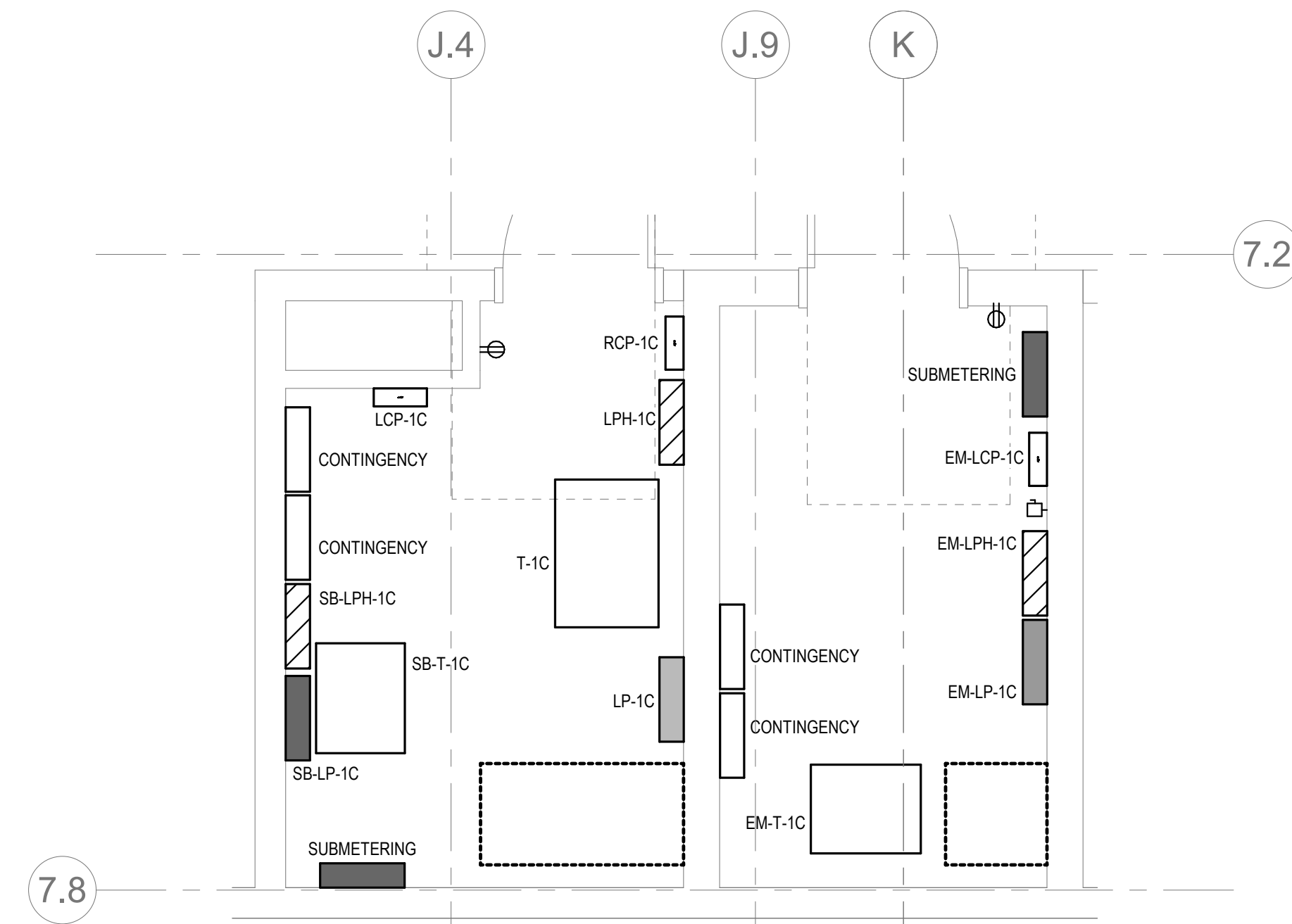
**7 ELECTRICAL Level 0 OVERALL - ELECTRIC ROOMS**  
E2-0-05 1/4" = 1'-0"



**5 ELECTRICAL Level 4 OVERALL - ELECTRICAL ROOMS PART PLAN - 4A**  
E2-0-05 3/8" = 1'-0"



**6 ELECTRICAL Level 4 OVERALL - ELECTRICAL ROOMS PART PLAN - 4B**  
E2-0-05 3/8" = 1'-0"



**9 ELECTRICAL Level 1 OVERALL - PROPOSED ELECTRICAL ROOMS PART PLAN - 1C**  
E2-0-05 3/8" = 1'-0"

#### POWER GENERAL NOTES:

1. REFER TO E2-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E2-0-0, 1, AND 2 FOR SINGLE LINE DIAGRAMS.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS FOR POWER AND ANY RELATED DEVICES. REFER TO E2-0-2 FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.
4. REFER TO MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING ELECTRICAL CHARACTERISTICS, OF EQUIPMENT INDICATED ON PLANS WITH HEX TAGS.
5. PROVIDE FLEXIBLE CONNECTIONS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON PLANS WITH HEX TAGS. FOR EACH PIECE OF EQUIPMENT, PROVIDE A FUSIBLE DISCONNECT SWITCH (WITH FUSES) WITH OVERCURRENT PROTECTION RATINGS AS RECOMMENDED BY MANUFACTURER.
6. REFER TO ELECTRICAL DETAIL SHEETS FOR REQUIREMENTS FOR LEAK DETECTION SYSTEMS TO BE PROVIDED WITH PLUMBING EQUIPMENT.

DRA

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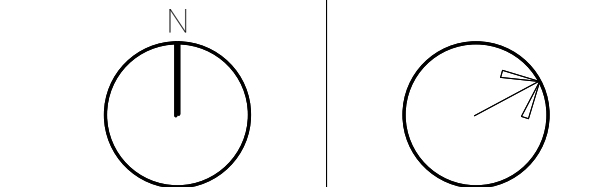
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SUBMISSION

January 13, 2023

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
ROOMS POWER  
PART PLANS

Scale: As indicated

Job No.: 2002

Drawn By: DRA

Date: January 13, 2023

E2-0-05



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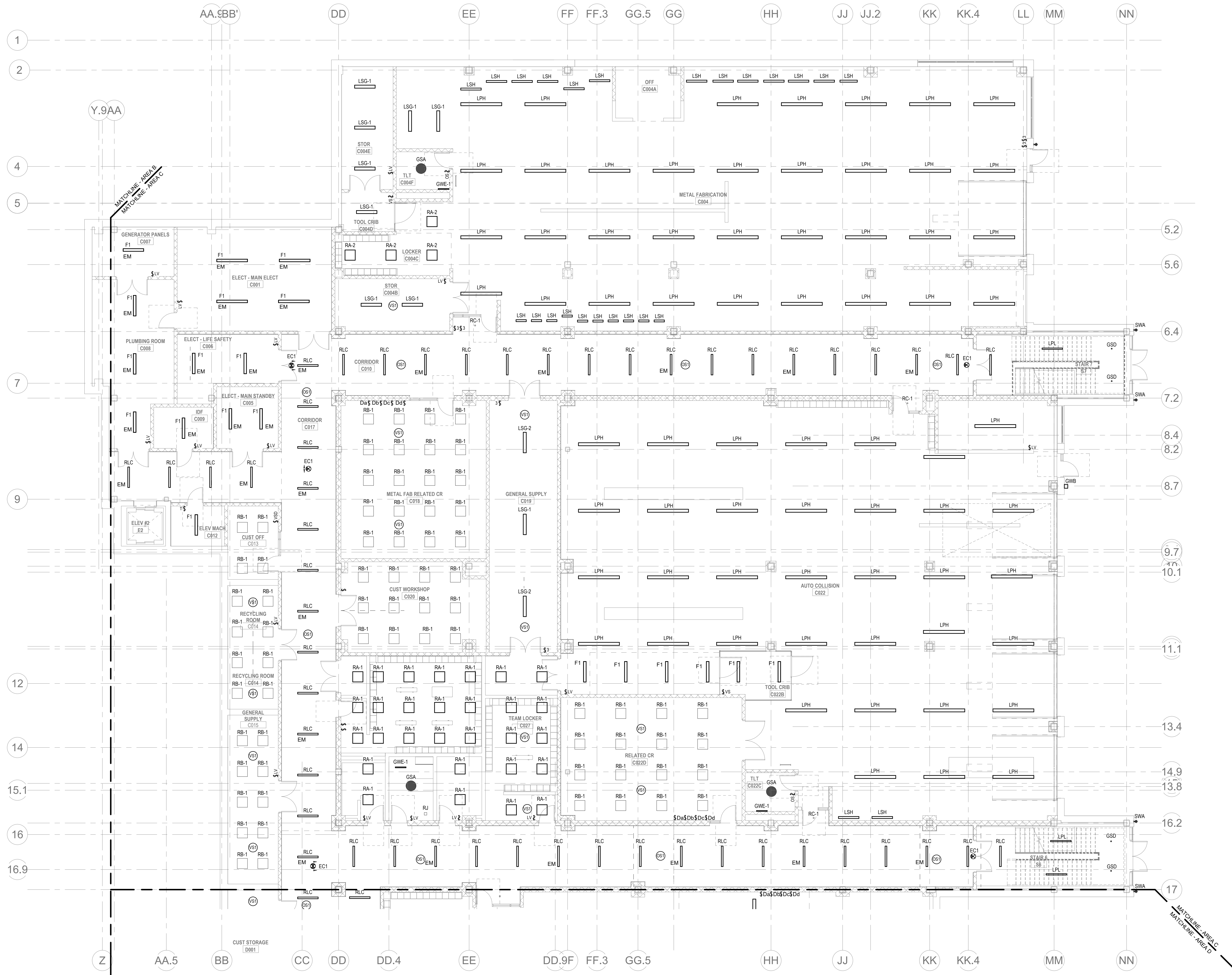
Wakefield, MA 01880

**LIGHTING GENERAL NOTES:**

1. REFER TO E4-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0.0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0.16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0.18 - E4-0.20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

EA # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-LLA; CIRCUIT #



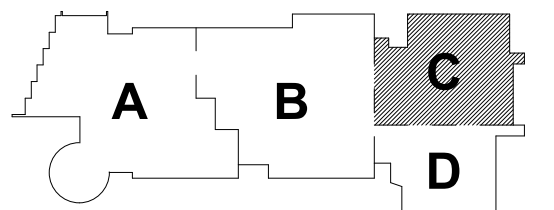
2 ELECTRICAL LIGHTING Level 0 Area C  
1/8" = 1'-0"

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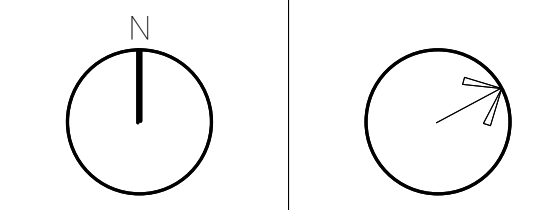
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SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



**ELECTRICAL  
LIGHTING  
LOWER LEVEL  
FLOOR PLAN -  
AREA C**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
**E2-1-0C**



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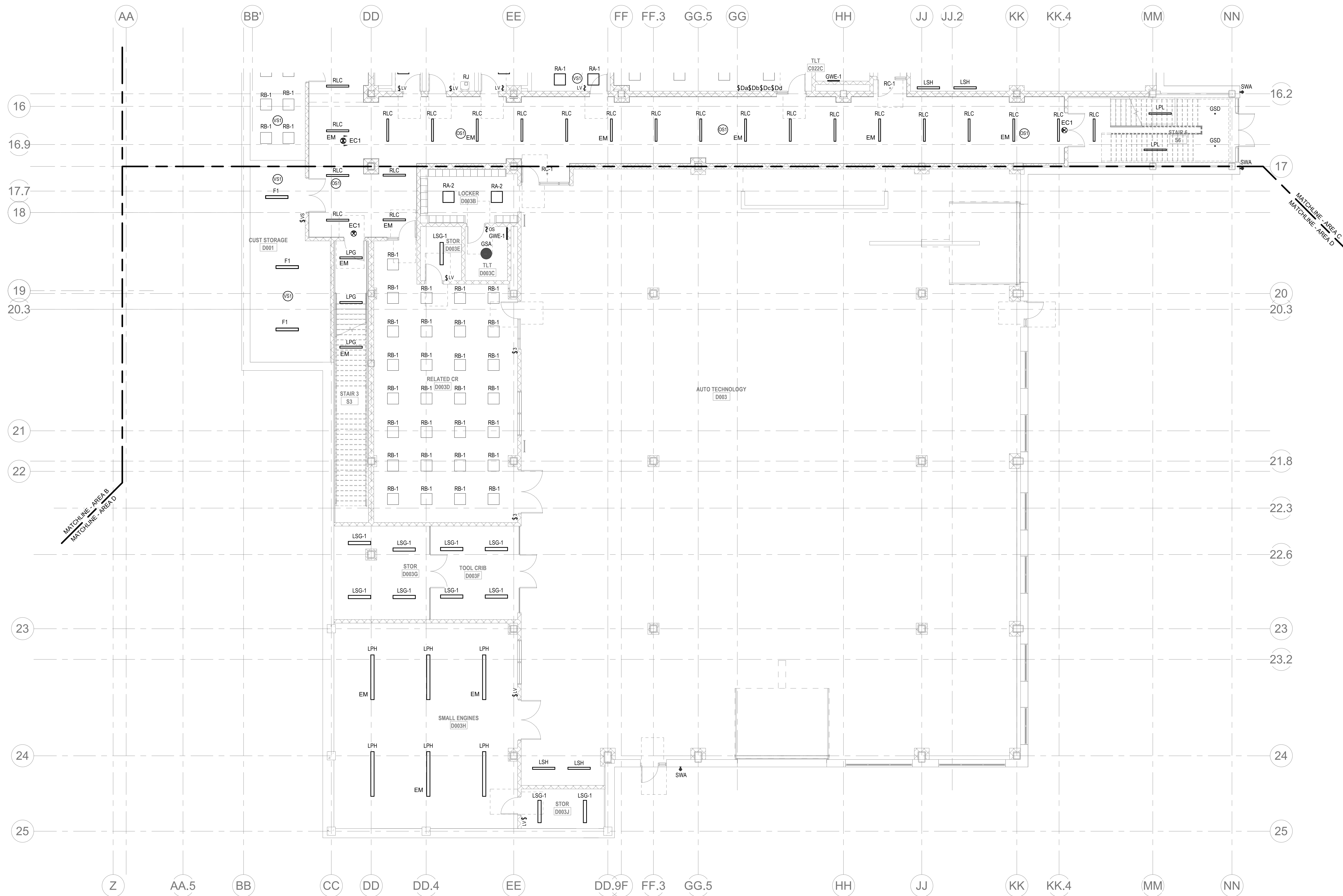
Wakefield, MA 01880

#### LIGHTING GENERAL NOTES:

1. REFER TO E4-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0.0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0.16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0.18 - E4-0.20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

#### CIRCUIT LEGEND:

- A: # . . . DENOTES BRANCH CIRCUIT PANELBOARD LPH-LLA; CIRCUIT #  
EA: # . . . DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-LLA; CIRCUIT #



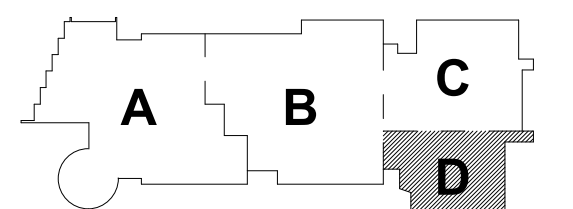
2 ELECTRICAL LIGHTING Level 0 Area D  
1/8" = 1'-0"

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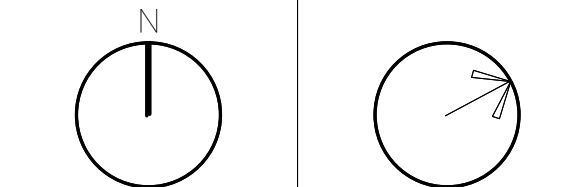
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
LIGHTING  
LOWER LEVEL  
FLOOR PLAN -  
AREA D

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E2-1-0D



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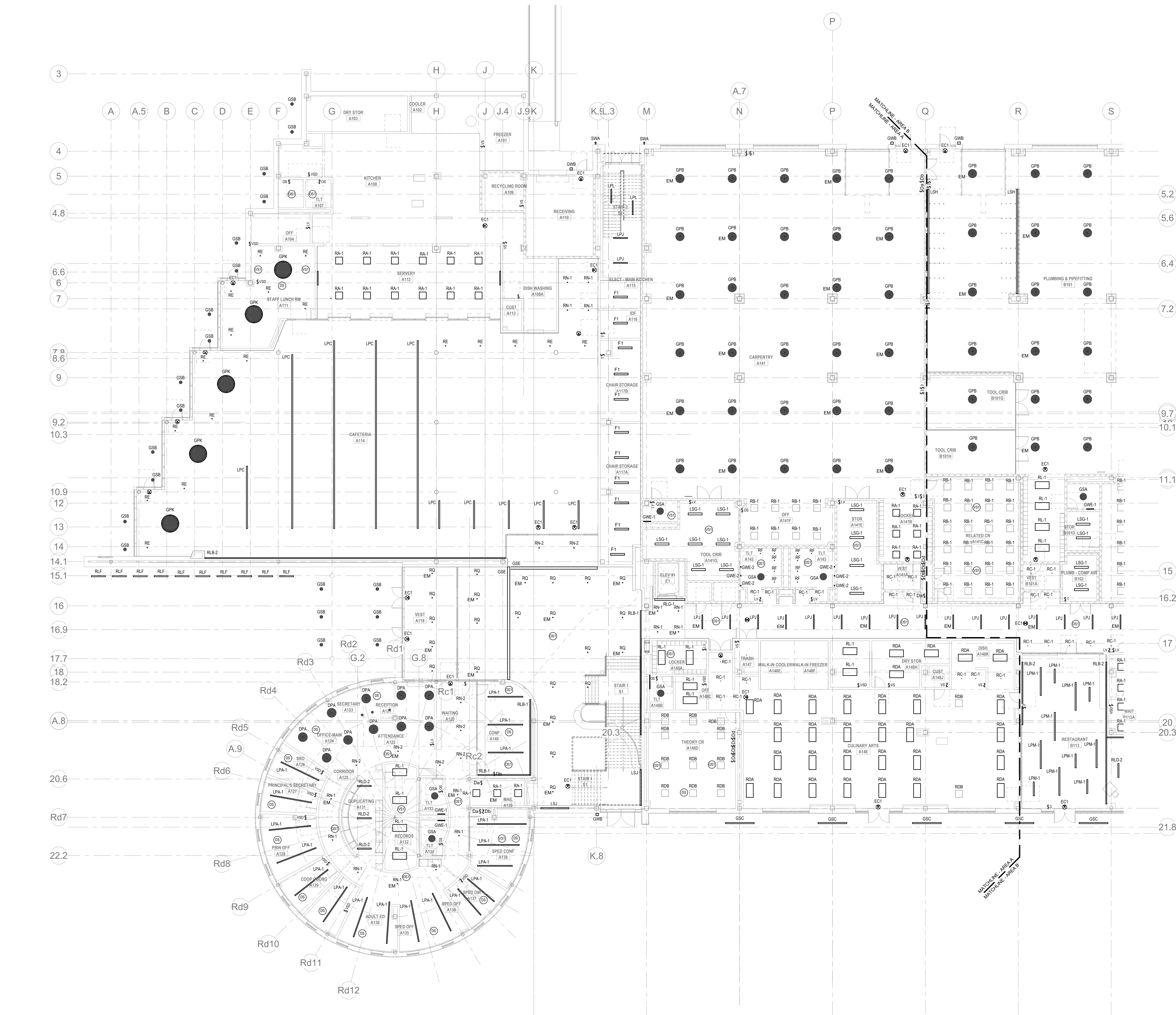
Wakefield, MA 01880

#### LIGHTING GENERAL NOTES:

1. REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0.0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0.16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0.18 - E4-0.20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL ROPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

#### CIRCUIT LEGEND:

- C # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A; CIRCUIT #  
G # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B; CIRCUIT #  
EC # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2A; CIRCUIT #  
ED # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2B; CIRCUIT #



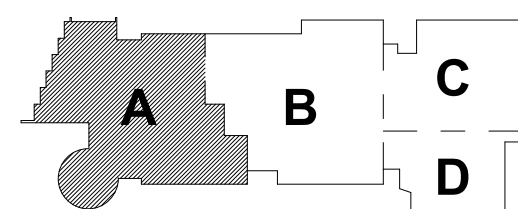
1 ELECTRICAL LIGHTING Level 1 Area A  
E2-1-1A 1" = 10'-0"

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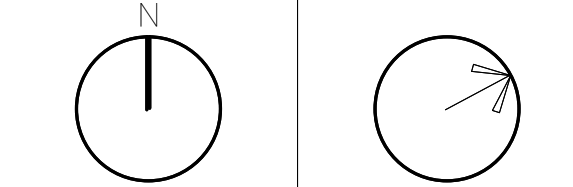
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
LIGHTING FIRST  
FLOOR PLAN -  
AREA A

Scale: 1" = 10'-0"  
Job No.: 20022  
Drawn By: DRA  
Date: January 13, 2023

E2-1-1A



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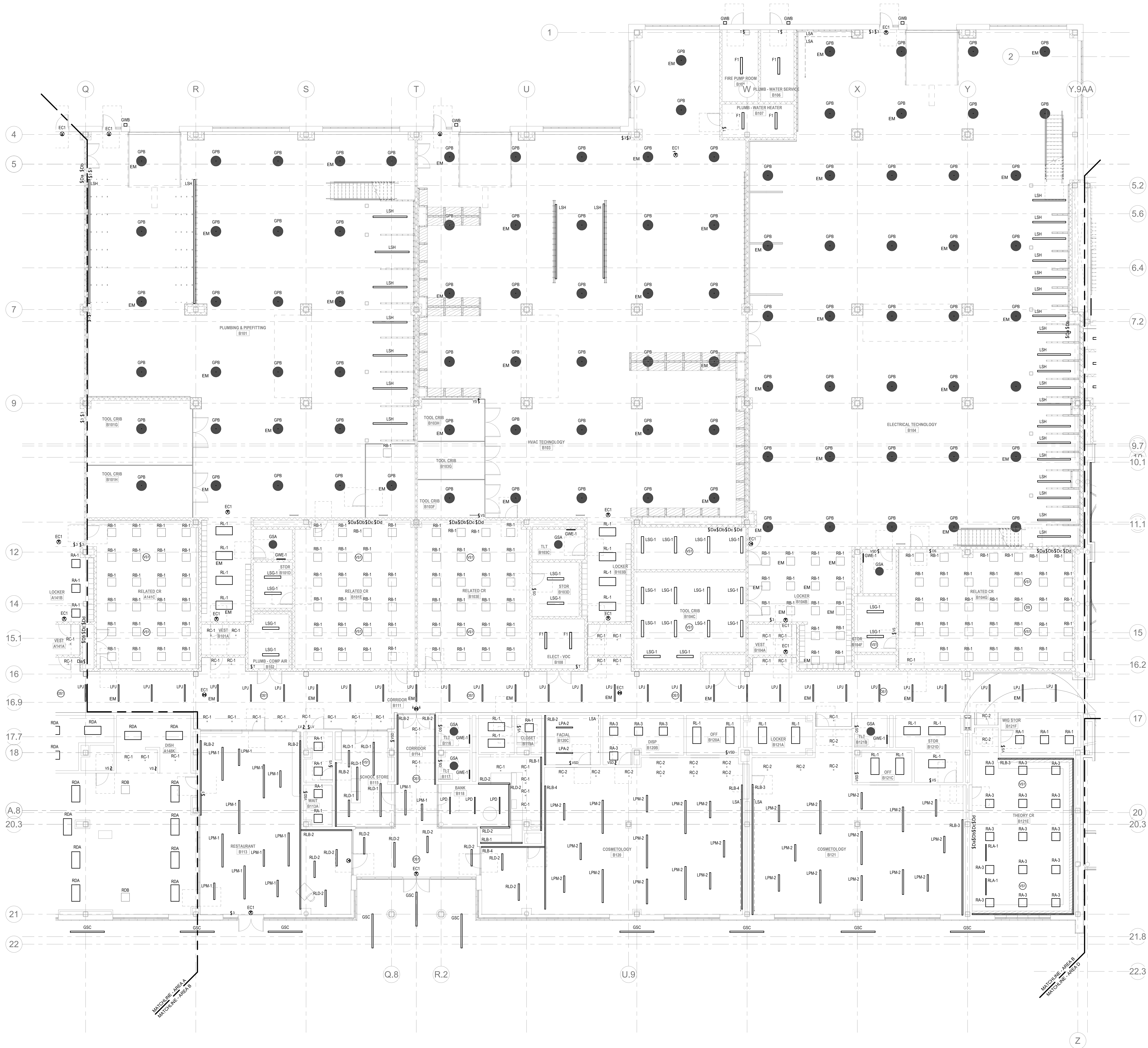
Wakefield, MA 01880

#### LIGHTING GENERAL NOTES:

1. REFER TO E4-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0.4 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0.16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0.18 - E4-0.20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

#### CIRCUIT LEGEND:

- C: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A; CIRCUIT #  
G: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B; CIRCUIT #  
EC: # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2A; CIRCUIT #  
ED: # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2B; CIRCUIT #



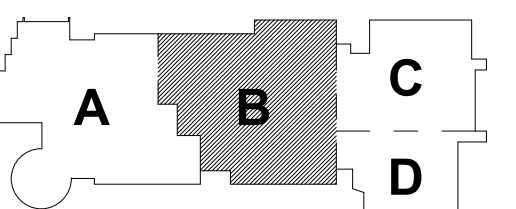
ELECTRICAL LIGHTING Level 1 Area B  
1/8" = 1'-0"

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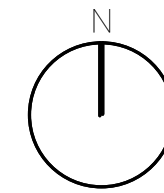
MSBA 60% CD  
SUBMISSION

January 13, 2023

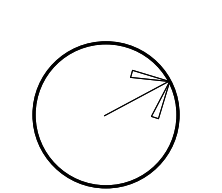


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



ELECTRICAL  
LIGHTING FIRST  
FLOOR PLAN -  
AREA B

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

E2-1-1B



|                                                              |                                                          |
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1. REFER TO E-0-0-3 FOR NOTES ON ELECTRICAL, SOURCE OF WORK.
2. REFER TO E-0-0-3 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E-0-16-0 FOR LIGHTING CONTROL, RISER DIAGRAM. REFER TO E-0-18-0, E-0-20-0 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM AND OTHER EQUIPMENT.
4. EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
6. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
7. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNED AS EMERGENCY

B: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-1C: CIRCUIT #  
C: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A: CIRCUIT #  
G: # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B: CIRCUIT #  
EB: # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-1C: CIRCUIT #  
EC: # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2A: CIRCUIT #  
ED: # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2B: CIRCUIT #

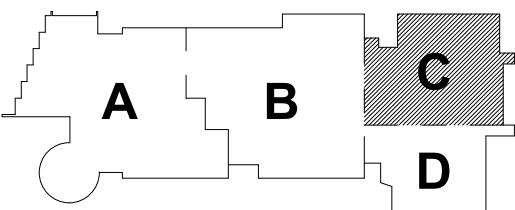


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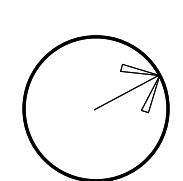
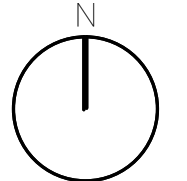
January 13, 2023



### KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**ELECTRICAL  
LIGHTING FIRST  
FLOOR PLAN -  
AREA C**

Scale: 1/8" = 1'-0"

Job No - 20202

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

**E2-1-1C**



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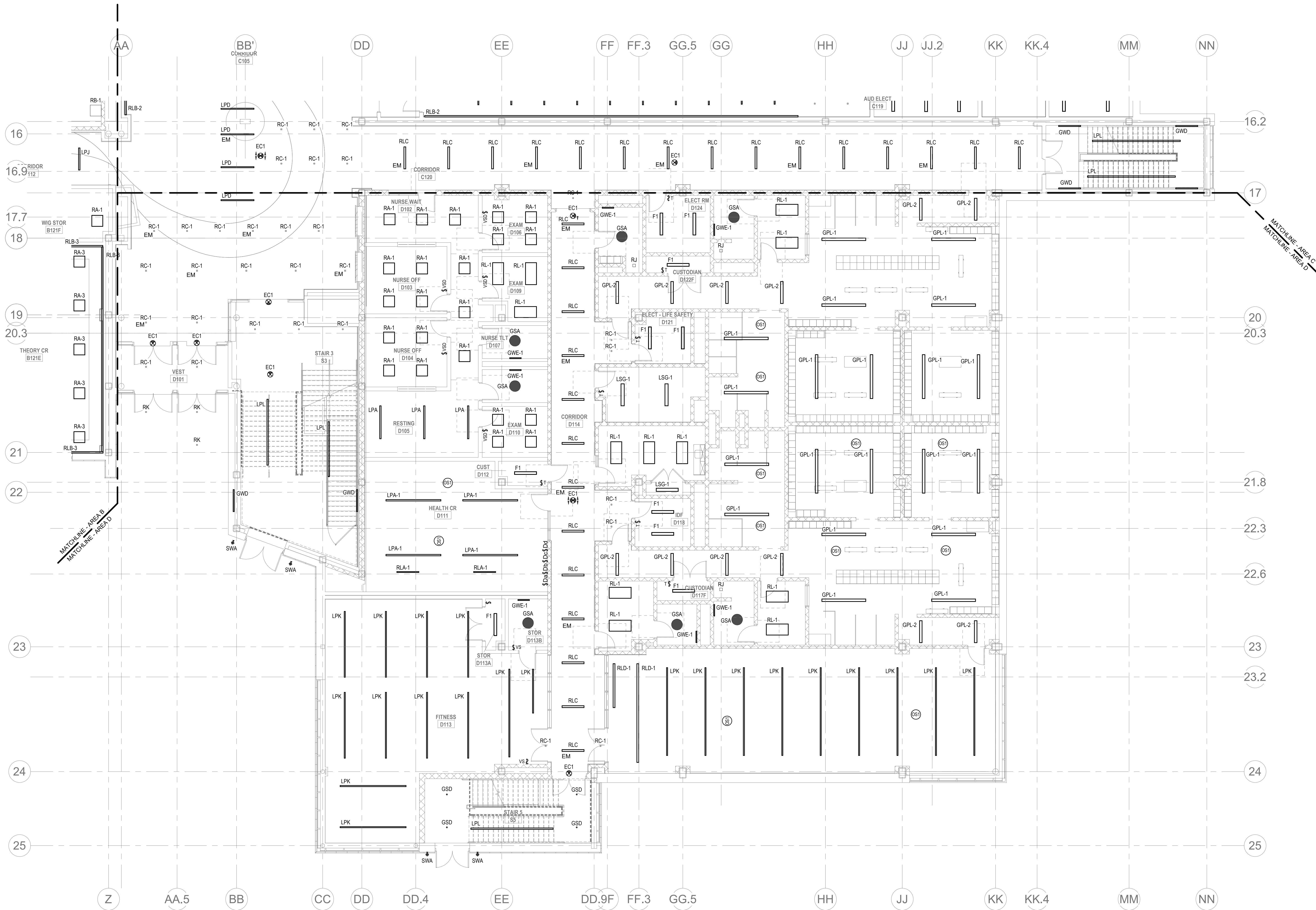
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**LIGHTING GENERAL NOTES:**

1. REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

- C # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A, CIRCUIT #  
G # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B, CIRCUIT #  
EC # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2A, CIRCUIT #  
ED # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2B, CIRCUIT #



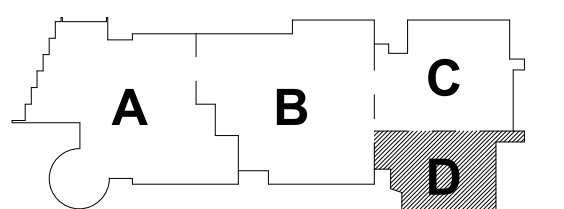
1 ELECTRICAL LIGHTING Level 1 Area D  
1/8" = 1'-0"

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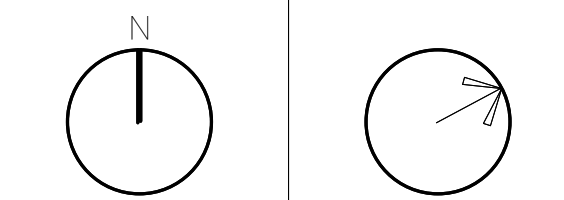
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



**ELECTRICAL  
LIGHTING FIRST  
FLOOR PLAN -  
AREA D**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**E2-1-1D**







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1. REFER TO E4-0.1 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0.4 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0.16 FOR LIGHTING CONTROL RISE/DIM DIAGRAM. REFER TO E4-0.18 - E4-0.20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONING LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RAMP FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

C; # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A; CIRCUIT #  
G; # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B; CIRCUIT #  
EC; # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2A; CIRCUIT #  
ED; # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2B; CIRCUIT #



**E2-1-2B**



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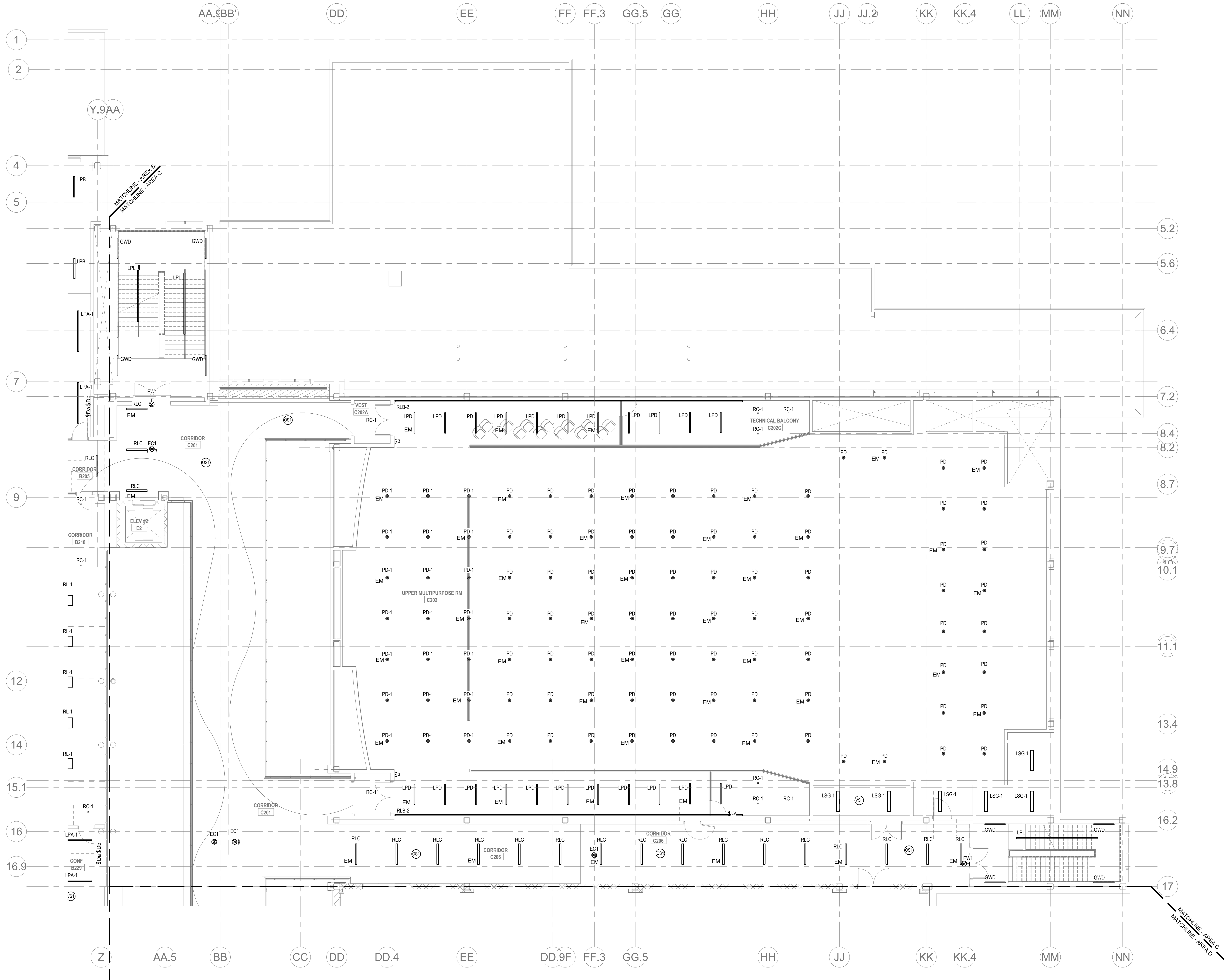
Wakefield, MA 01880

**LIGHTING GENERAL NOTES:**

1. REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCP'S FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

- C # - DENOTES BRANCH CIRCUIT PANELBOARD LPH 2A, CIRCUIT #  
G # - DENOTES BRANCH CIRCUIT PANELBOARD LPH 2B, CIRCUIT #  
EQ # - DENOTES BRANCH CIRCUIT PANELBOARD EM LPH 2A, CIRCUIT #  
ED # - DENOTES BRANCH CIRCUIT PANELBOARD EM LPH 2B, CIRCUIT #





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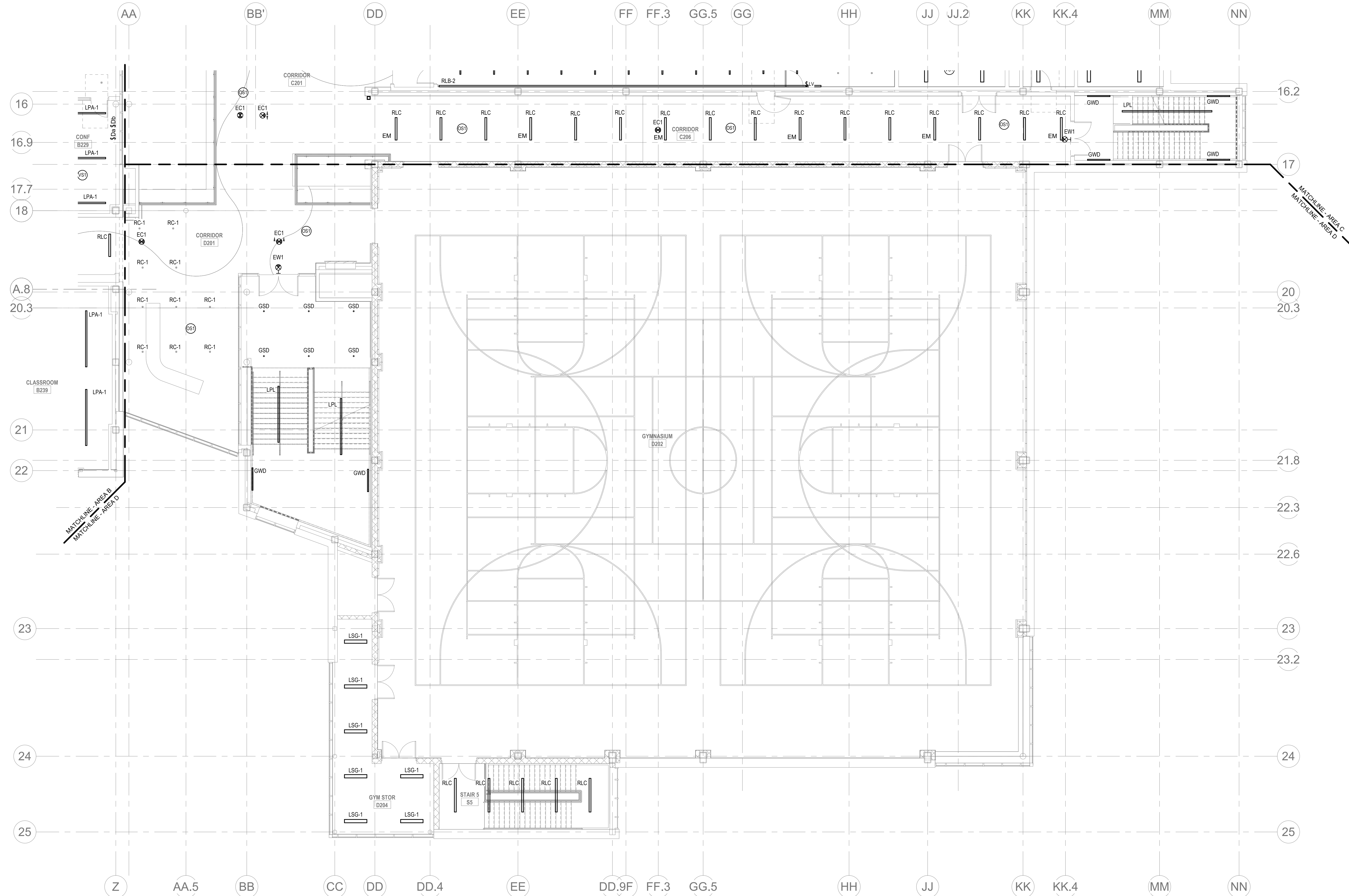
Wakefield, MA 01880

**LIGHTING GENERAL NOTES:**

1. REFER TO E4-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-4-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-6-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-6-18 - E4-6-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

- C-# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2A, CIRCUIT #  
G-# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-2B, CIRCUIT #  
EC-# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2A, CIRCUIT #  
ED-# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-2B, CIRCUIT #



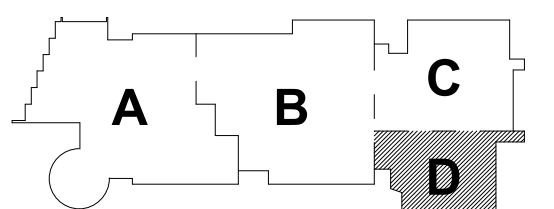
1 ELECTRICAL LIGHTING Level 2 Area D  
1/8" = 1'-0"

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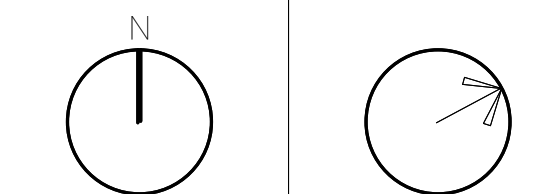
MSBA 60% CD  
SUBMISSION

January 13, 2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



ELECTRICAL  
LIGHTING  
SECOND FLOOR  
PLAN - AREA D

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E2-1-2D



|                                                              |                                                          |
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1. REFER TO E-0.3 FOR NOTES ON ELECTRICAL, SCOPE OF WORK.
2. REFER TO E-4.0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E-4.0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E-4.0-18, E-4.0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

D;# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3A; CIRCUIT #  
H;# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3B; CIRCUIT #  
EE;# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-3A; CIRCUIT #  
EF;# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-3B; CIRCUIT #

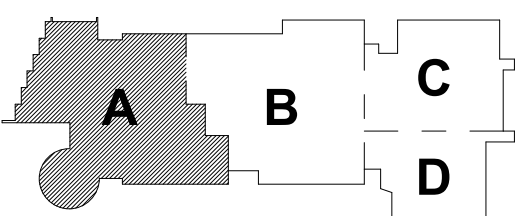


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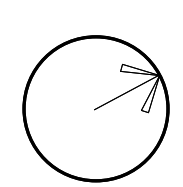
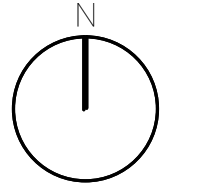
January 13, 2023



### KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**ELECTRICAL  
LIGHTING THIRD  
FLOOR PLAN -  
AREA A**

Scale:  $1'' = 10'-0''$

Job No. - 20202

DRYAN BIC DBA

Date: January 13, 2023

**E2-1-3A**



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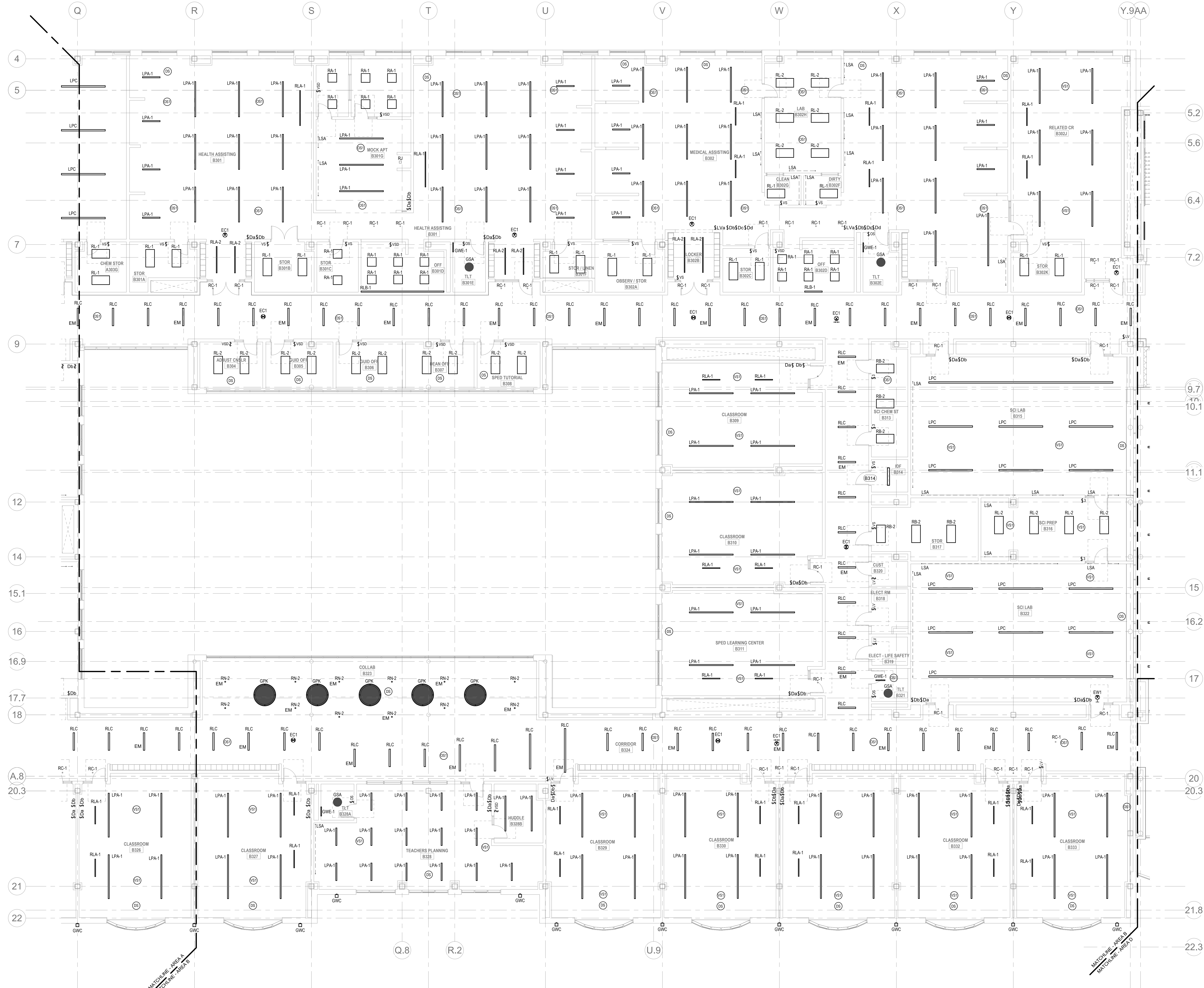
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**LIGHTING GENERAL NOTES:**

1. REFER TO E4-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

D.# - DENOTES BRANCH CIRCUIT PANELBOARD LPA-3A, CIRCUIT #  
H.# - DENOTES BRANCH CIRCUIT PANELBOARD LPA-3B, CIRCUIT #  
EE.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-3A, CIRCUIT #  
EF.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-3B, CIRCUIT #





|                                                              |                                                          |
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1. REFER TO E-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E-4.0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E-4.0-15 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E-4.0-16, E-4.0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT.
4. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY COORDINATED LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
6. ALL EXT. SIGNAL SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OR NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
7. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY

D; # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3A; CIRCUIT #  
H; # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3B; CIRCUIT #  
EE; # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-3A; CIRCUIT #  
EF; # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-3B; CIRCUIT #



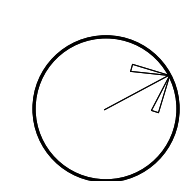
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January 13, 2023



MAGNETIC NORTH



Scale: 1/8" = 1'-0"

Job No - 20202

Drawn By: DR.

**E2-1-3C**



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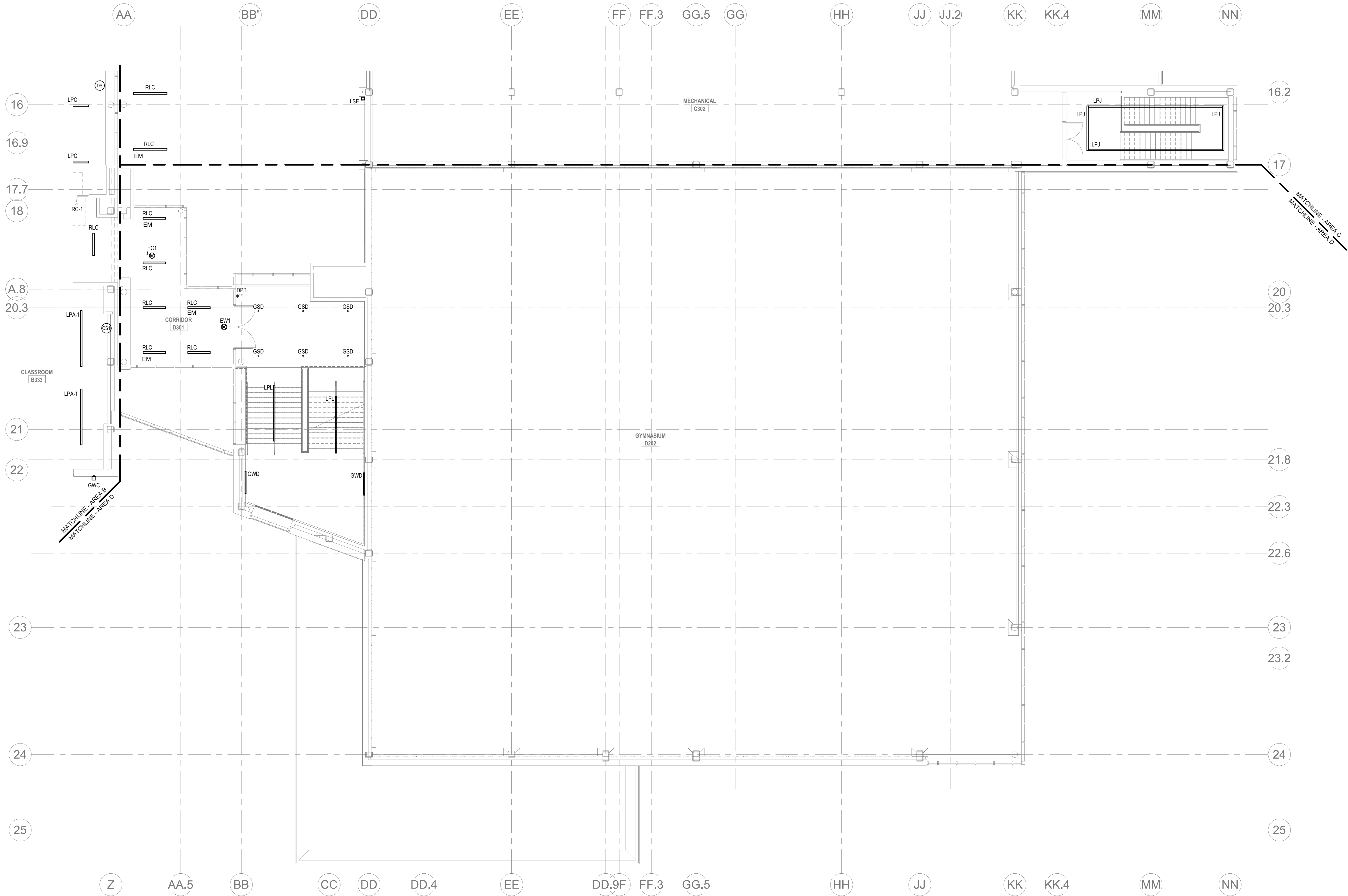
Wakefield, MA 01880

**LIGHTING GENERAL NOTES:**

1. REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
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5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

- D.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3A, CIRCUIT #  
H.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-3B, CIRCUIT #  
EE.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-3A, CIRCUIT #  
EF.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-3B, CIRCUIT #



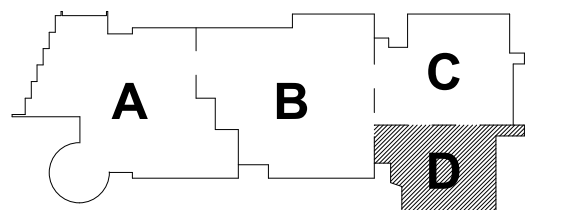
1 ELECTRICAL LIGHTING Level 3 Area D  
1/8" = 1'-0"

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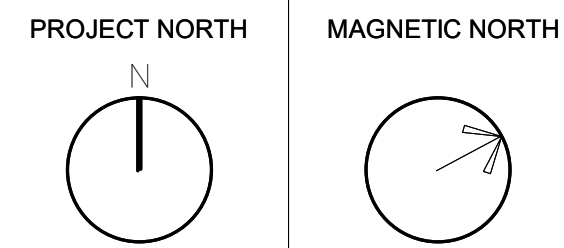
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SUBMISSION

January 13, 2023



KEY PLAN



ELECTRICAL  
LIGHTING THIRD  
FLOOR PLAN -  
AREA D

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E2-1-3D



|                                                              |                                                          |
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2. REFER TO E-0-0 FOR NOTES ON ELECTRICAL, SCOPE OF WORK.
3. REFER TO E-4-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E-4-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E-4-18 - E-4-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM AND OTHER COMPONENTS. COORDINATE EXISTING MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNINTERRUPTED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

F; # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4A; CIRCUIT #  
J; # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4B; CIRCUIT #  
EG; # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4A; CIRCUIT #  
EH; # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4B; CIRCUIT #

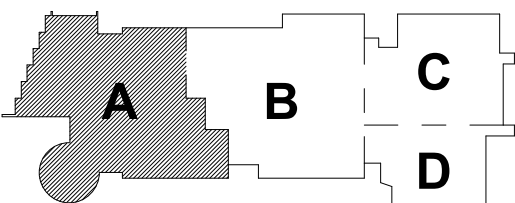


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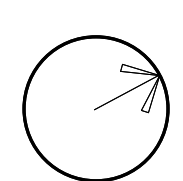
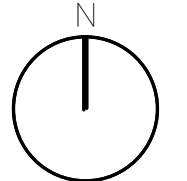
January 13, 2023



### KEY PLAN

PROJECT NORTH

MAGNETIC NORTH



**ELECTRICAL  
LIGHTING  
FOURTH FLOOR  
PLAN - AREA A**

Scale: 1" = 10'-0"

Job No. 20202

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

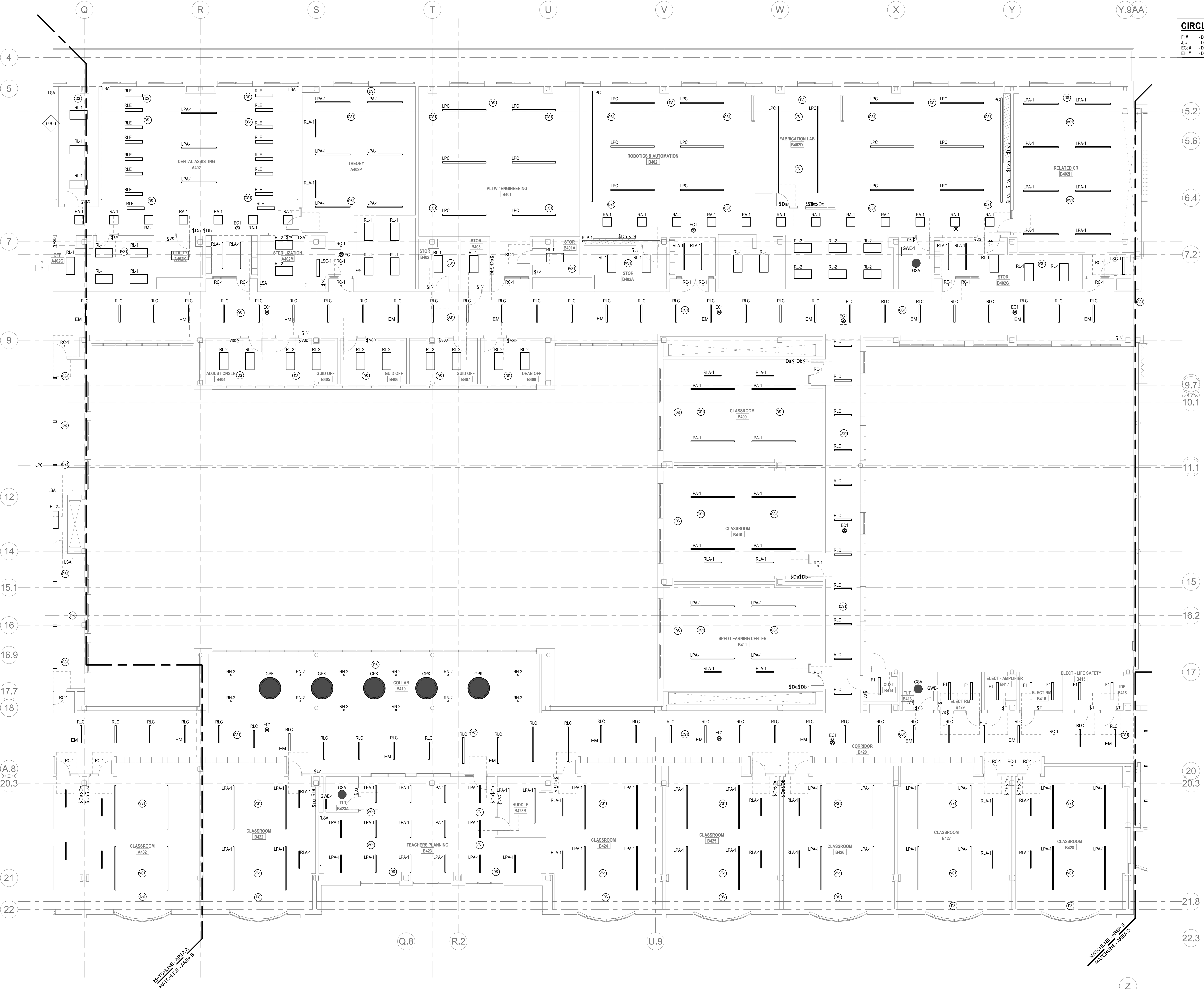
Date: January 13, 202

**E2-1-4A**



- LIGHTING GENERAL NOTES:**
1. REFER TO E4-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
  2. REFER TO E4-0.4 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0.16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0.18 - E4-0.20 FOR LIGHTING FIXTURE SCHEDULES.
  3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
  4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
  5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
  6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

- CIRCUIT LEGEND:**
- F # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4A, CIRCUIT #  
J # - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4B, CIRCUIT #  
EQ # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4A, CIRCUIT #  
EH # - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4B, CIRCUIT #



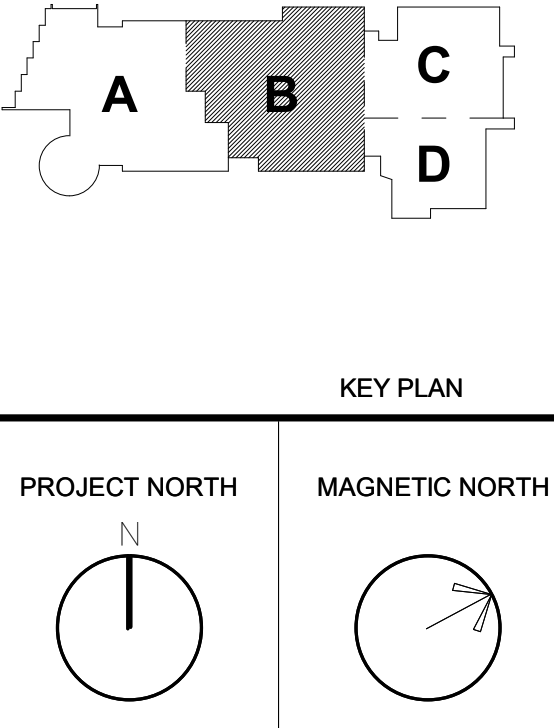
1 ELECTRICAL LIGHTING Level 4 Area B  
1/8" = 1'-0"

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January 13, 2023



**ELECTRICAL  
LIGHTING  
FOURTH FLOOR  
PLAN - AREA B**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
**E2-1-4B**



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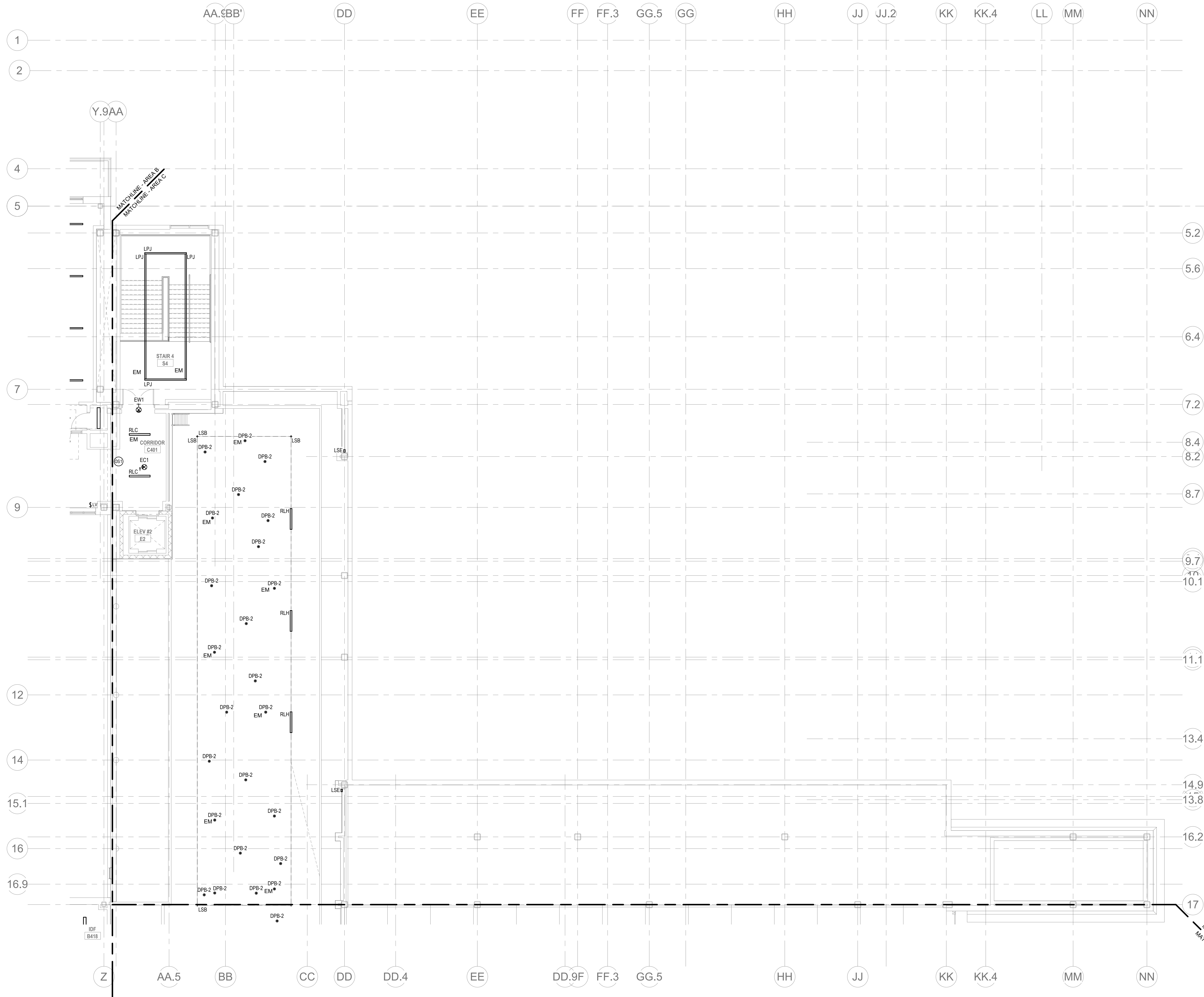
Wakefield, MA 01880

**LIGHTING GENERAL NOTES:**

- REFER TO E0-0.3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
- REFER TO E4-0.0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0.16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0.18 - E4-0.20 FOR LIGHTING FIXTURE SCHEDULES.
- REFER TO ARCHITECTURAL ROP'S FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
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- ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
- PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

- F.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4A, CIRCUIT #  
J.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4B, CIRCUIT #  
EQ.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4A, CIRCUIT #  
EN.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4B, CIRCUIT #



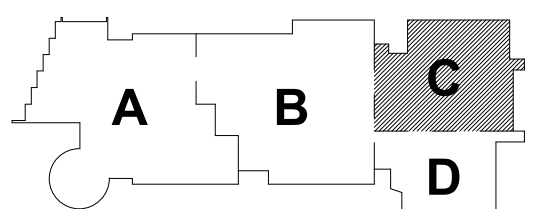
1 ELECTRICAL LIGHTING Level 4 Area C  
1/8" = 1'-0"

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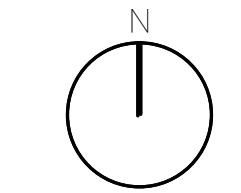
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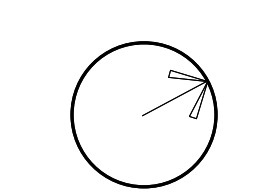


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**ELECTRICAL  
LIGHTING  
FOURTH FLOOR  
PLAN - AREA C**

Scale: 1/8" = 1'-0"

Job No.: 2002

Drawn By: DRA

Date: January 13, 2023

**E2-1-4C**



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**LIGHTING GENERAL NOTES:**

1. REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL ROPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
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6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

**CIRCUIT LEGEND:**

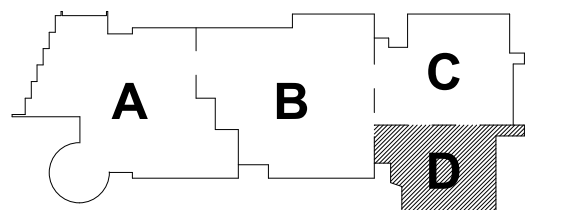
F.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4A, CIRCUIT #  
J.# - DENOTES BRANCH CIRCUIT PANELBOARD LPH-4B, CIRCUIT #  
EG.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4A, CIRCUIT #  
EH.# - DENOTES BRANCH CIRCUIT PANELBOARD EM-LPH-4B, CIRCUIT #

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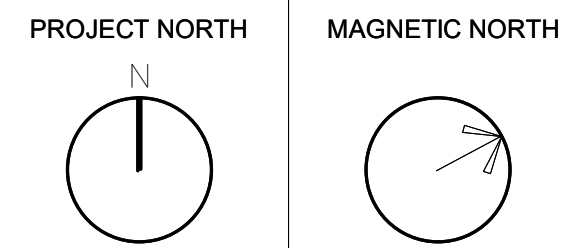
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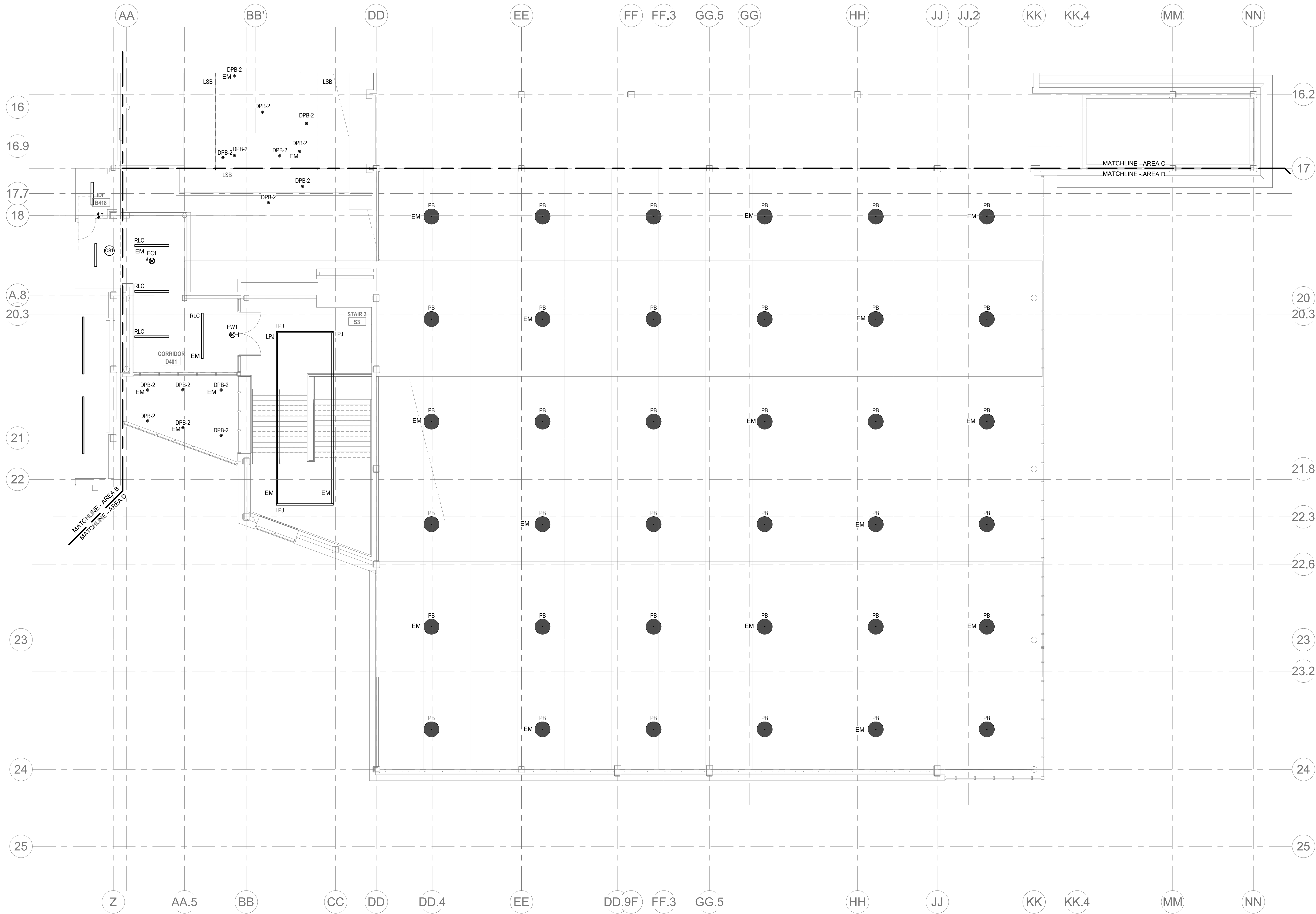
KEY PLAN



**ELECTRICAL  
LIGHTING  
FOURTH FLOOR  
PLAN - AREA D**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**E2-1-4D**



1 ELECTRICAL LIGHTING Level 4 Area D  
1/8" = 1'-0"





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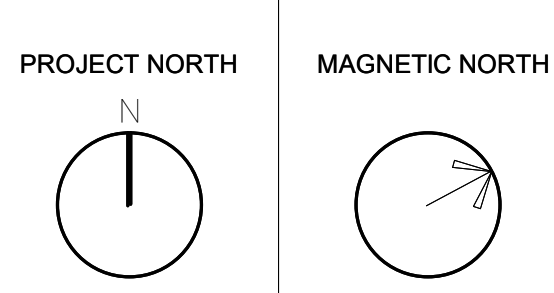
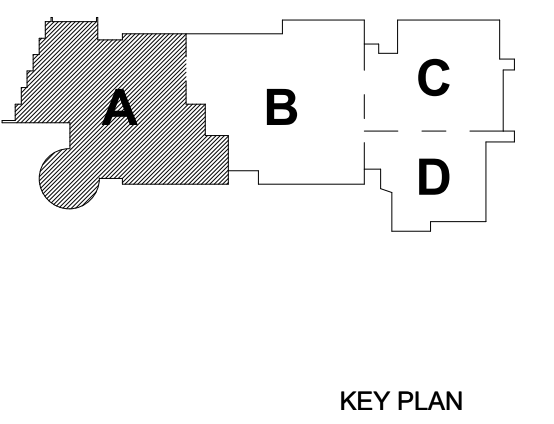
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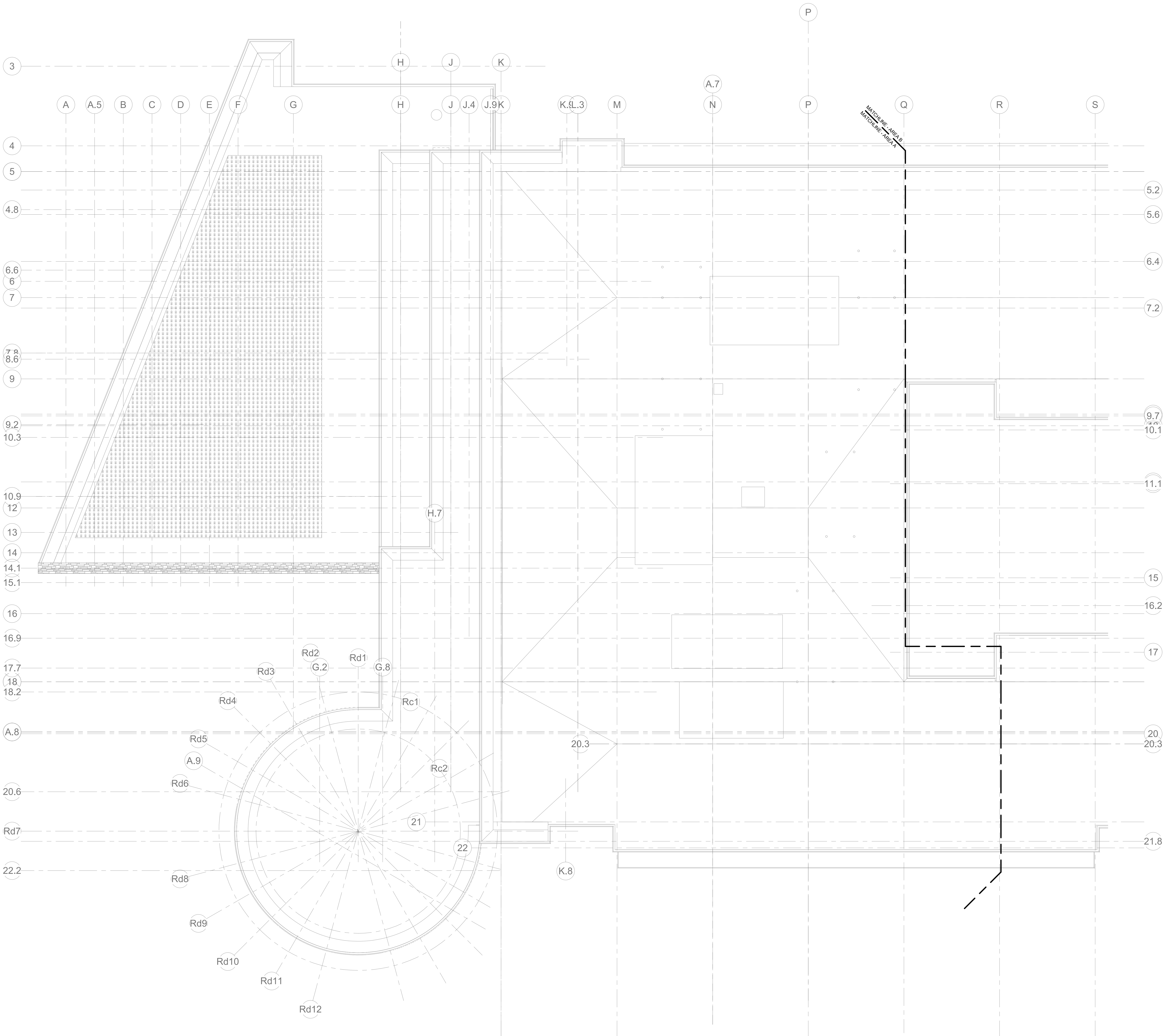
## ELECTRICAL LIGHTING ROOF PLAN - AREA A

Scale: 1" = 10'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E2-2-1A

### LIGHTING GENERAL NOTES:

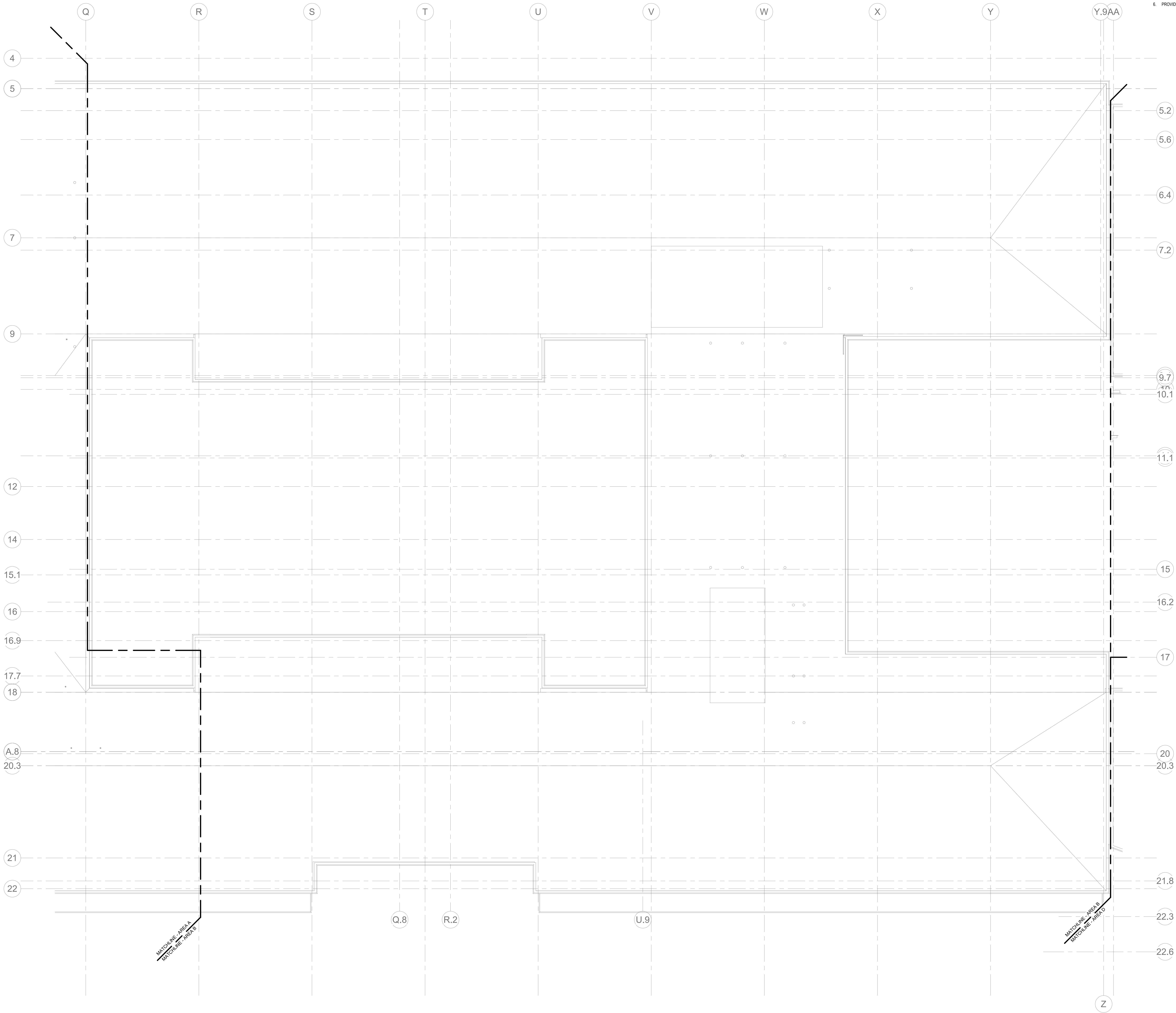
- REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
- REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
- REFER TO ARCHITECTURAL RCPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
- ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
- PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.



1 ELECTRICAL LIGHTING Main Roof Area A  
1" = 10'-0"



- LIGHTING GENERAL NOTES:**
1. REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
  2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
  3. REFER TO ARCHITECTURAL ROPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
  4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
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  6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.



ELECTRICAL LIGHTING Main Roof Area B  
1/8" = 1'-0"



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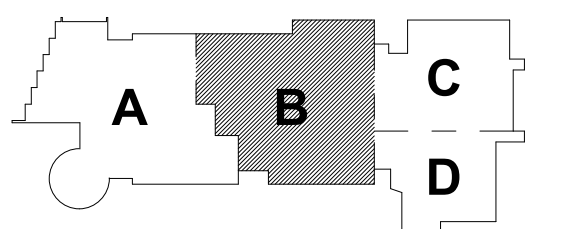
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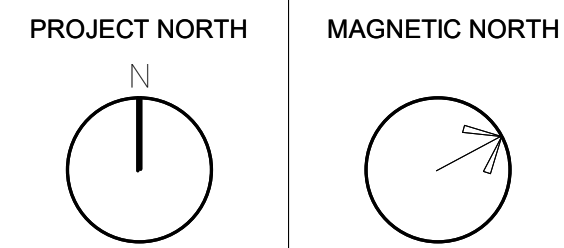
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January 13, 2023



KEY PLAN



**ELECTRICAL  
LIGHTING ROOF  
PLAN - AREA B**

Scale: 1/8" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**E2-2-1B**



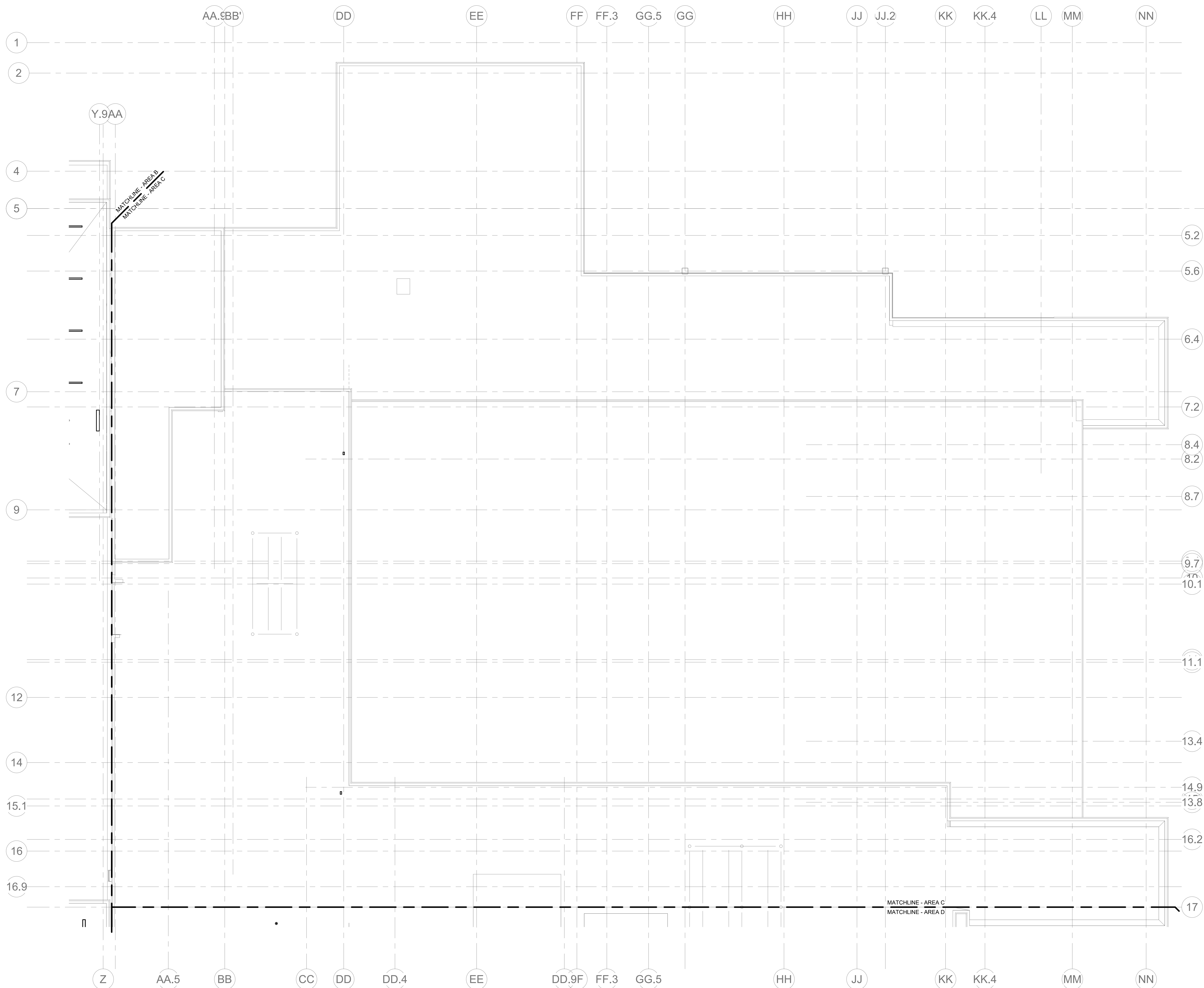
|                                                              |                                                          |
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**LIGHTING GENERAL NOTES:**

2. REFER TO E-40.5 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
3. REFER TO E-40.6 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E-40.16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E-40.18 - E-40.20 FOR LIGHTING FIXTURE SCHEDULES.
4. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LIGHTING OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE CEILING MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
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7. PROVIDE EMERGENCY BYPASS RAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY



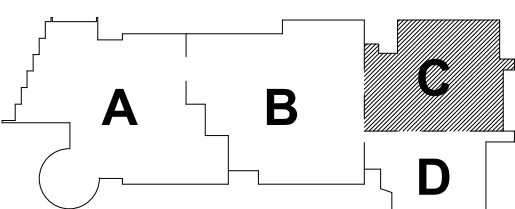
① ELECTRICAL LIGHTING Main Roof Area C  
1/8" = 1'-0"

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January 13, 2023



## KEY PLAN

PROJECT NORT

MAGNETIC NORTH

**ELECTRICAL  
LIGHTING ROOF  
PLAN - AREA C**

Scale:  $1/8'' = 1'-0''$ 

00000

**P** **D** **B**

Date: January 13, 202

**E2-2-1C**





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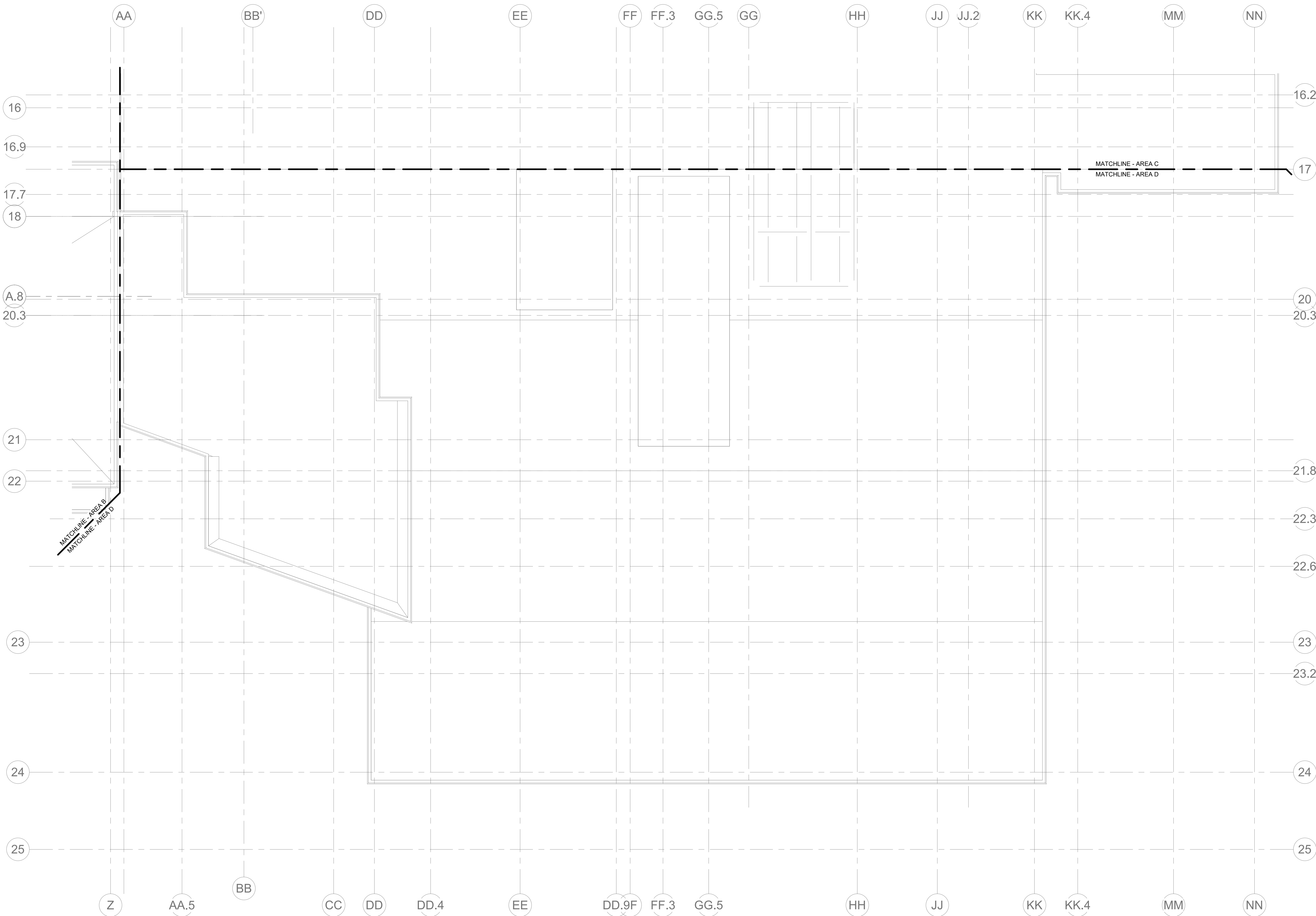
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**LIGHTING GENERAL NOTES:**

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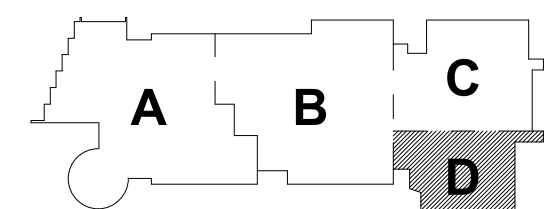
1 ELECTRICAL LIGHTING Main Roof Area D  
1/8" = 1'-0"

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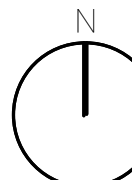
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January 13, 2023

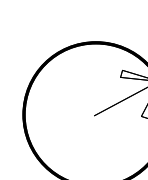


KEY PLAN

PROJECT NORTH



MAGNETIC NORTH



**ELECTRICAL  
LIGHTING ROOF  
PLAN - AREA D**

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

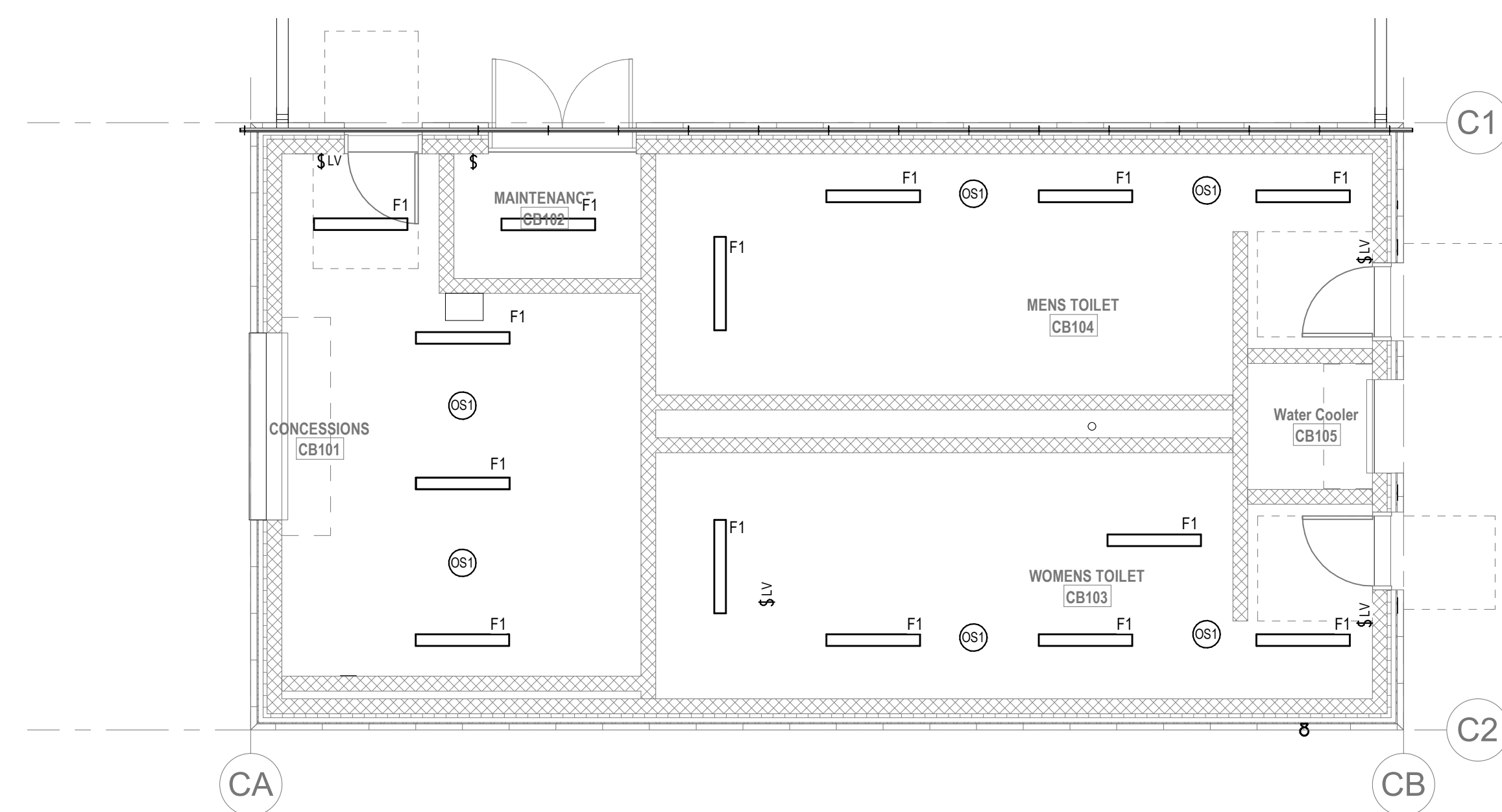
**E2-2-1D**



1. REFER TO E-0.3 FOR NOTES ON ELECTRICAL SCOP OF WORK.
2. REFER TO E-4.0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E-4.1-6 FOR LIGHTING CONTROL. RISER DIAGRAM. REFER TO E-4.1-8. E-4.2-0 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPs FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT HANGING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.

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1  
E2-1-CB ELECTRICAL - CONCESSIONS FLOOR LEVEL LIGHTING PLAN (ADD ALTERNATE)  
3/16" = 1'-0"

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**ELECTRICAL  
LIGHTING  
CONCESSIONS  
BUILDING PLAN**

Scale: 3/16" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

**E2-1-CB**



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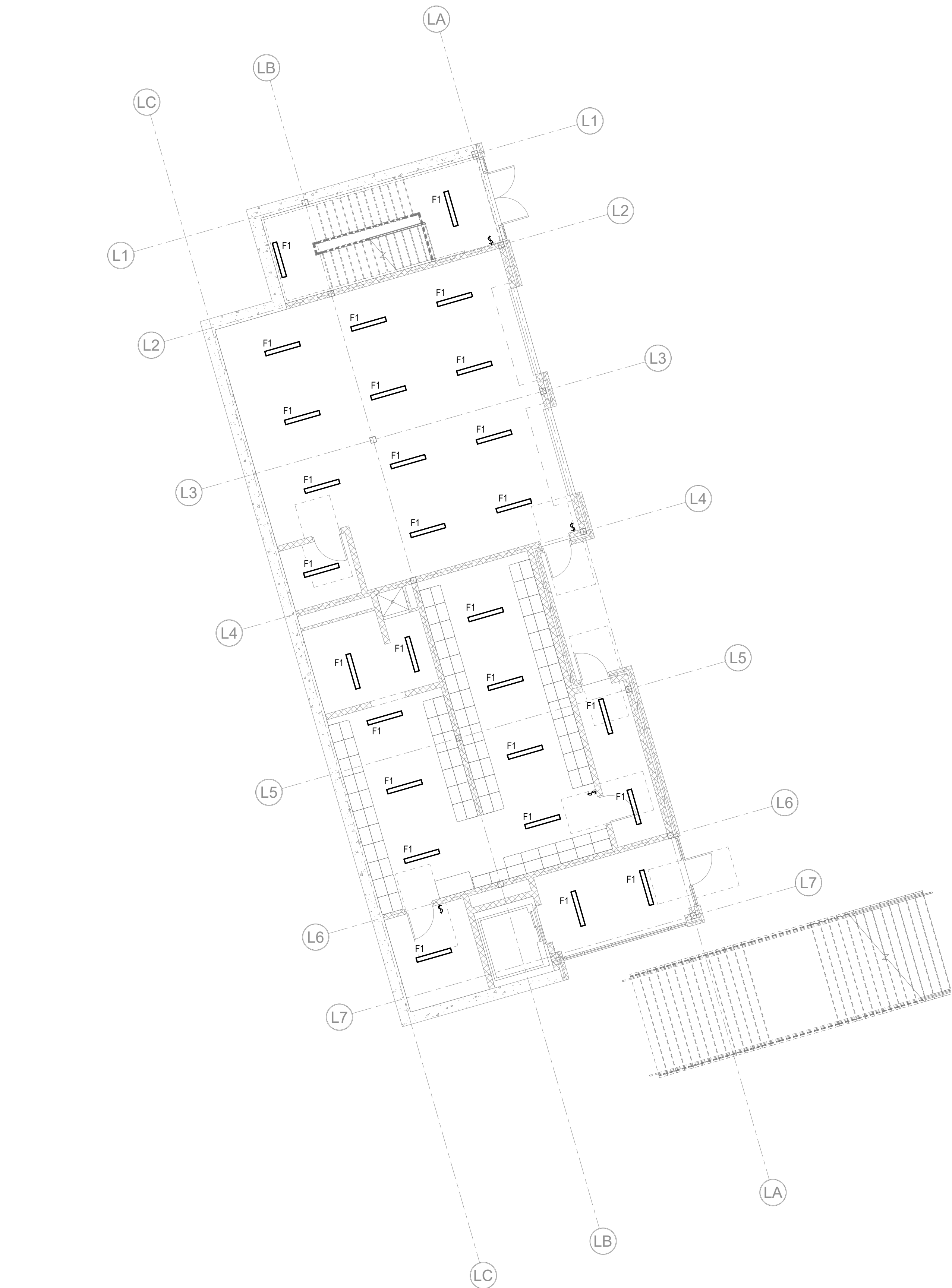
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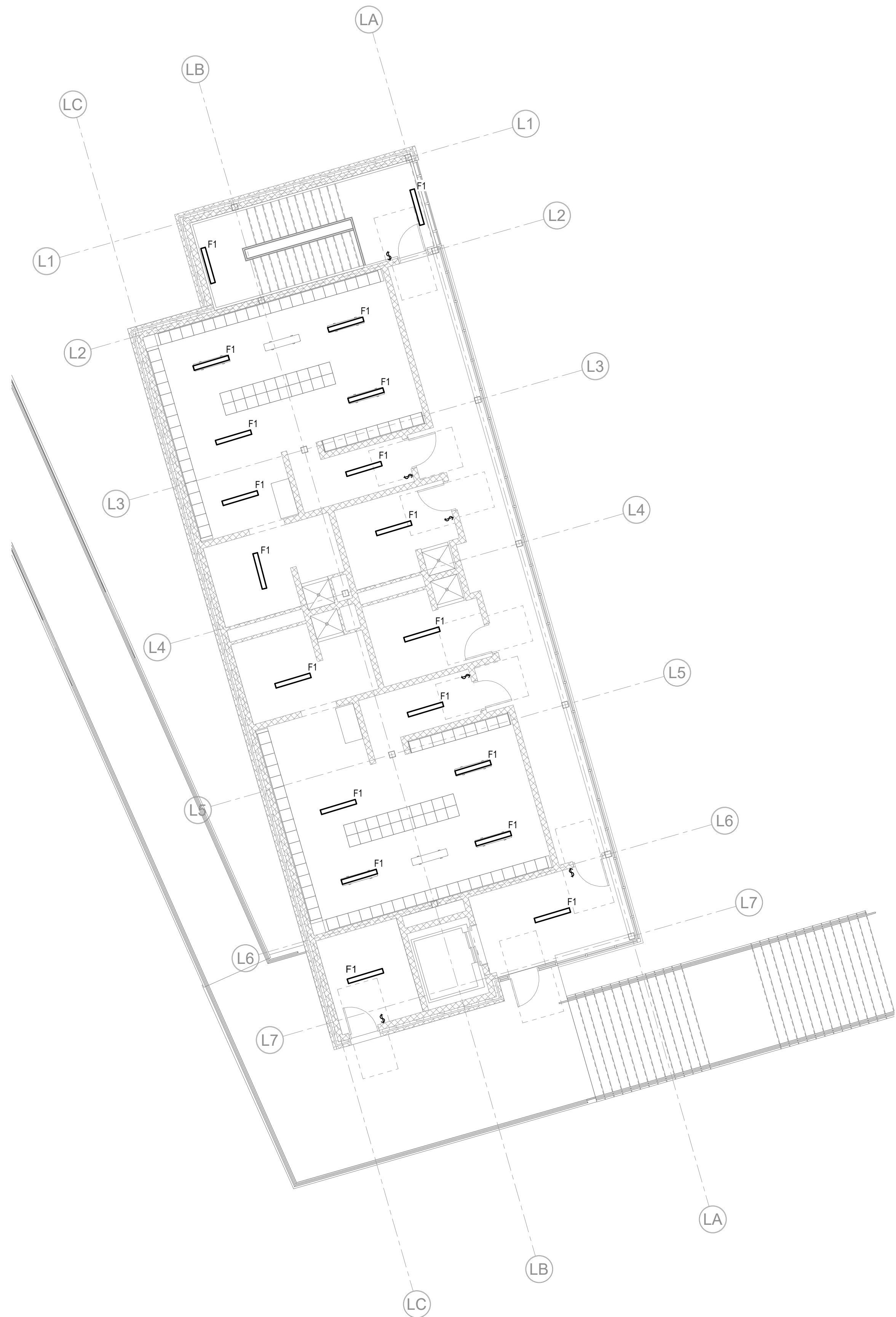
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**LIGHTING GENERAL NOTES:**

1. REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCPS FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM, AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.



1 ELECTRICAL LIGHTING Locker Building First Floor (ADD ALTERNATE)  
E2-1-LB  
1/8" = 1'-0"



2 ELECTRICAL LIGHTING Locker Building Second Level (ADD ALTERNATE)  
E2-1-LB  
1/8" = 1'-0"

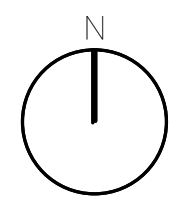
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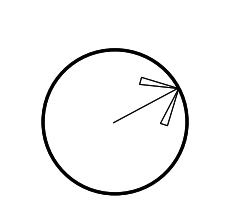
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PROJECT NORTH



MAGNETIC NORTH



ELECTRICAL  
LIGHTING  
LOCKER  
BUILDING PLAN

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: DRA

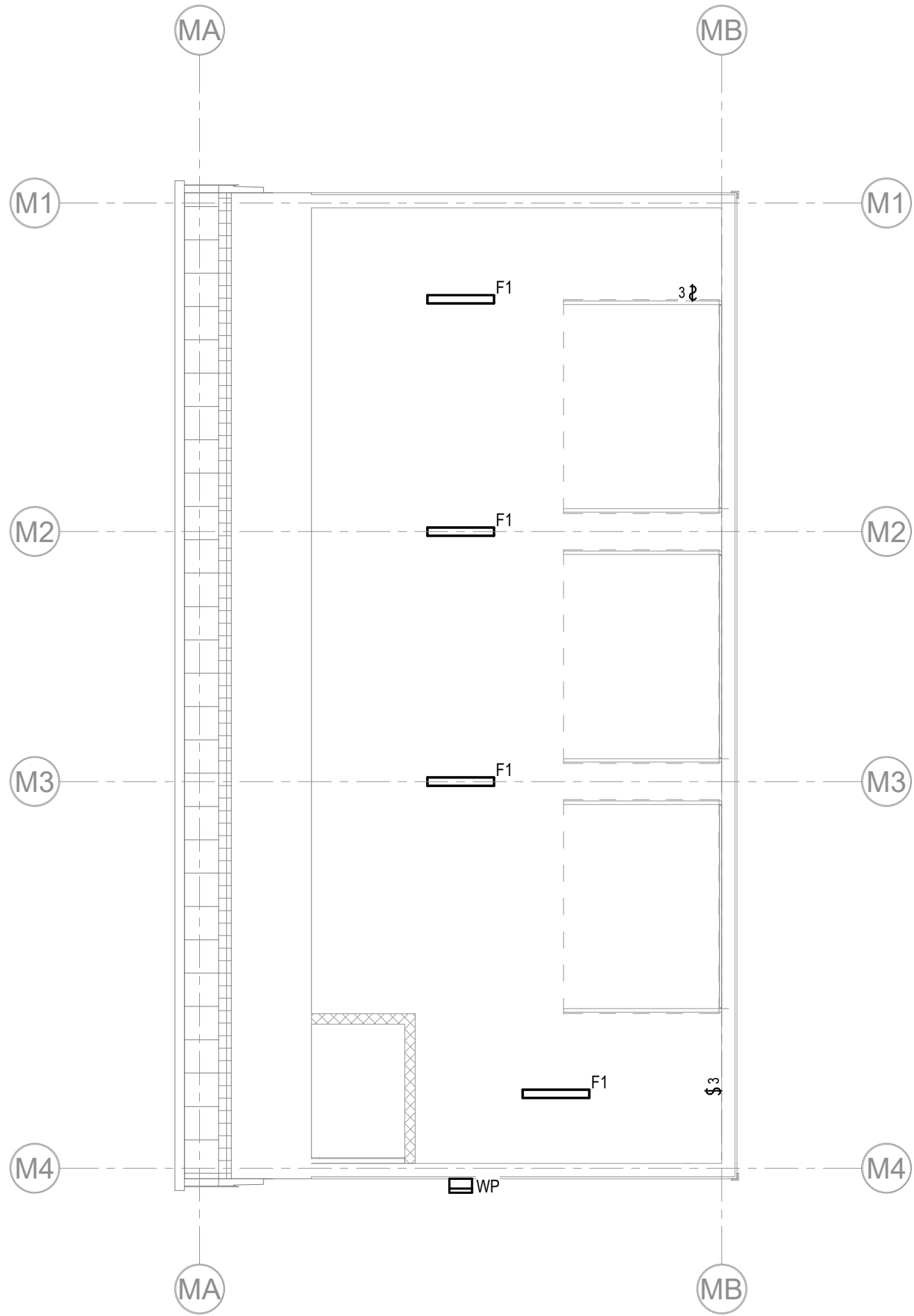
Date: January 13, 2023

E2-1-LB



LIGHTING GENERAL NOTES:

1. REFER TO E4-0-3 FOR NOTES ON ELECTRICAL SCOPE OF WORK.
2. REFER TO E4-0-0 FOR LIGHTING SEQUENCE OF OPERATIONS. REFER TO E4-0-16 FOR LIGHTING CONTROL RISER DIAGRAM. REFER TO E4-0-18 - E4-0-20 FOR LIGHTING FIXTURE SCHEDULES.
3. REFER TO ARCHITECTURAL RCP'S FOR CEILING TYPES, HEIGHTS, AND CONDITIONS. COORDINATE LOCATION OF FIXTURES WITH CEILING SYSTEM AND OTHER EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. PROVIDE EXACT TYPES AND QUANTITIES OF DEVICES RECOMMENDED BY MANUFACTURER FOR A COMPLETE SYSTEM.
5. ALL EXIT SIGNS SHALL BE CONNECTED TO LINE SIDE (UNSWITCHED) OF NEARBY EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE EMERGENCY BYPASS RELAY FOR ALL FIXTURES DESIGNATED AS EMERGENCY.



ELECTRICAL LIGHTING Maintenance Building Plan (ADD ALTERNATE)  
1/8" = 1'-0"



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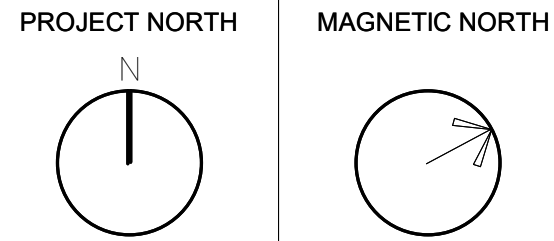
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ELECTRICAL  
LIGHTING  
MAINTENANCE  
BUILDING PLAN

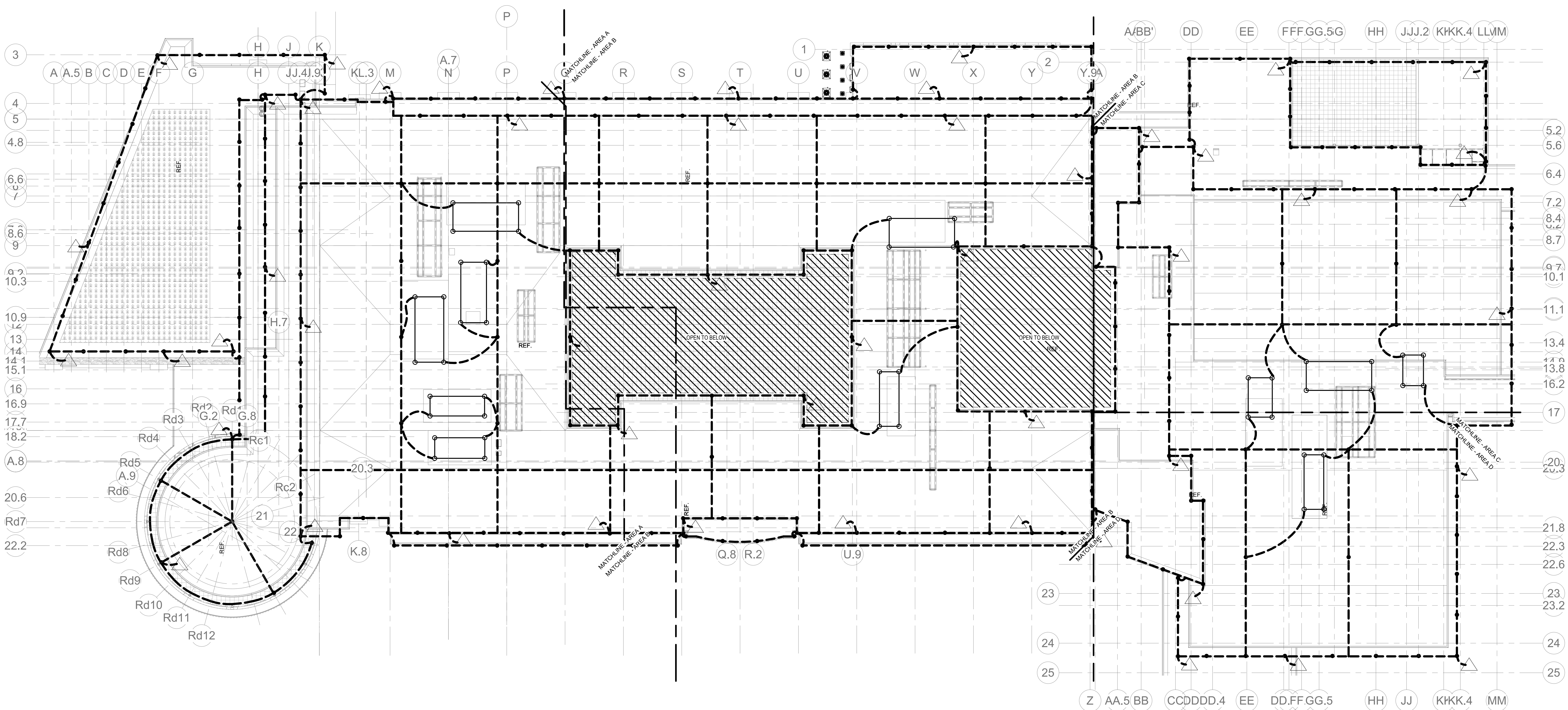
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Job No.: 20202  
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E2-1-MB



| LIGHTNING PROTECTION LEGEND |                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ●                           | AIR TERMINAL<br>REFER TO DRAWING E4-0-14 FOR DETAILS.                                                                                                                     |
| —                           | TERRACE HAND RAILING<br>RAILING SHALL BE AT LEAST 1/8" THICK AND EXTEND AT LEAST 10" ABOVE THE PARAPET AND MUST BE LOCATED WITHIN 24" OF THE OUTSIDE EDGE OF THE PARAPET. |
| △                           | THRU-ROOF ROD AND BOND PLATE<br>CONNECTION TO STRUCTURAL STEEL FRAMING<br>REFER TO DRAWING E-4#4 FOR DETAILS.                                                             |
| ○                           | CONNECTION FROM METAL RAILING TO CONDUCTOR CABLE<br>APPROXIMATE LOCATIONS SHOWN. FINAL LOCATIONS SHALL BE CONFIRMED ON SITE.                                              |

- LIGHTNING PROTECTION NOTES:**
- REFER TO DRAWING E4-0-14 FOR LIGHTNING PROTECTION DETAILS.
  - LIGHTNING PROTECTION AIR TERMINAL LAYOUT AND THRU-ROOF LOCATIONS ARE PRELIMINARY ONLY. FINAL SYSTEM SHALL BE DESIGNED BY LIGHTNING PROTECTION CONTRACTORS.
  - AIR TERMINALS MUST BE OF TIP-OVER TYPE (SPRING ADAPTOR AND LANYARD).
  - ELECTRICAL CONTRACTOR SHALL TIE-IN PV SYSTEM TO LIGHTNING PROTECTION SYSTEM.



① ELECTRICAL POWER Main Roof OVERALL LIGHTNING PROTECTION 1  
1" = 20'-0"

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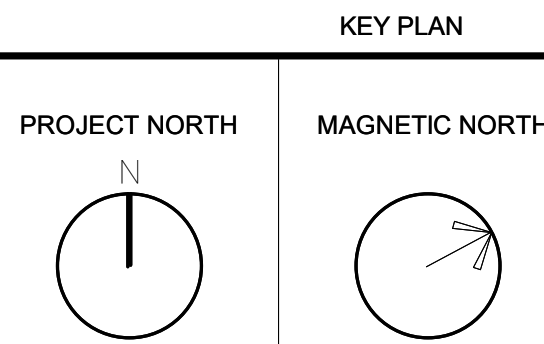
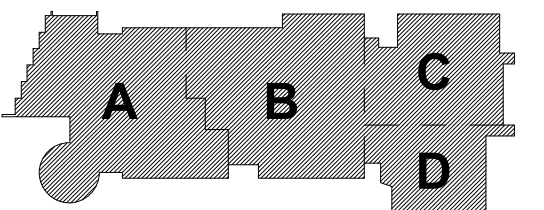
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LIGHTNING  
PROTECTION  
PLAN -  
ROOFTOP  
LAYOUT

Scale: 1" = 20'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
E2-3-1



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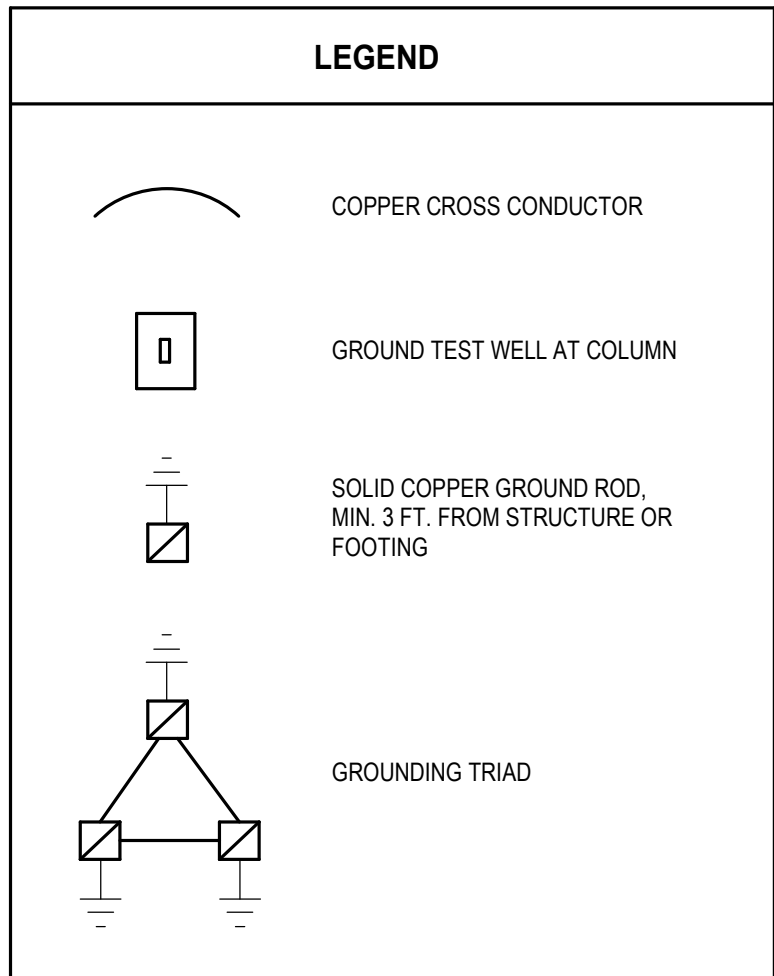
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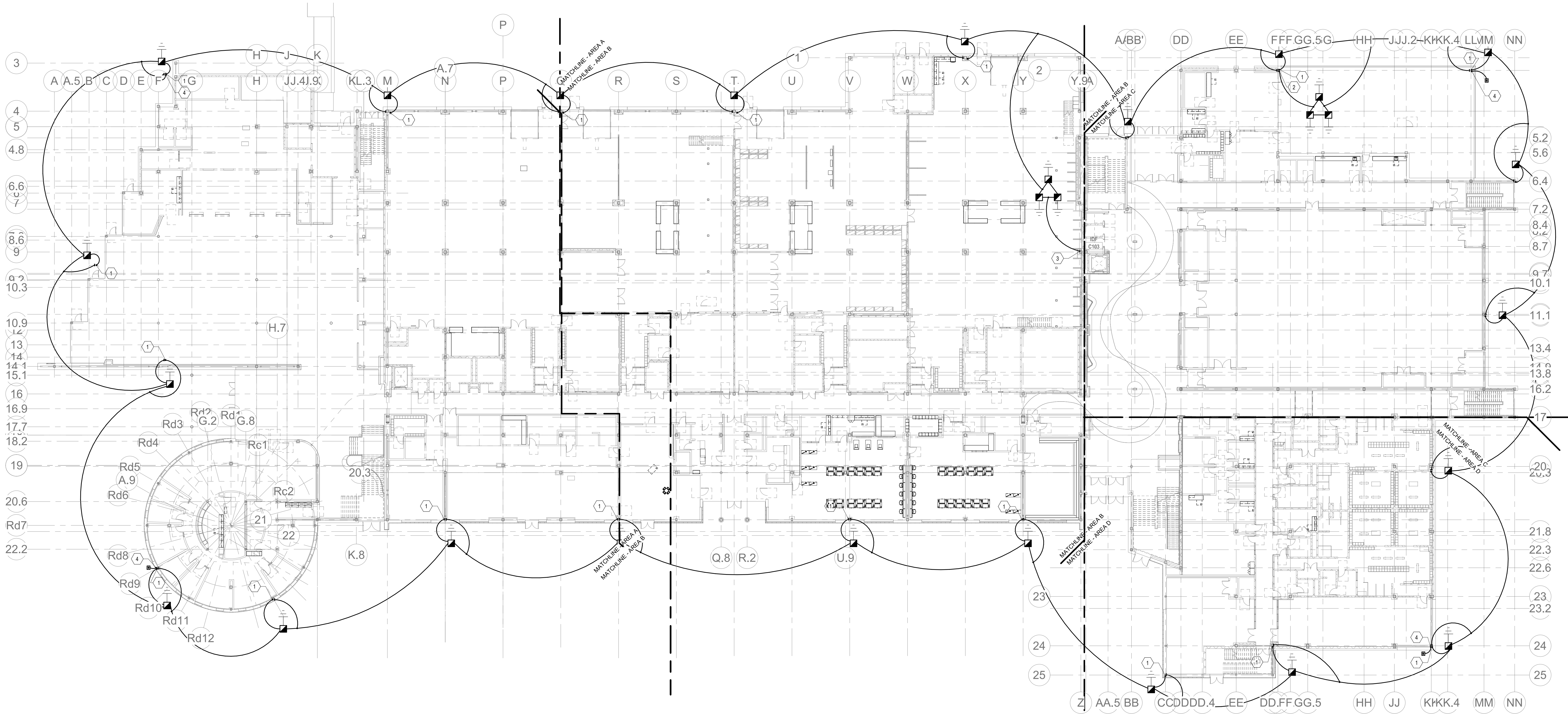


LIGHTNING PROTECTION GENERAL NOTES:

1. THE LIGHTNING PROTECTION SYSTEM AS SHOWN ON DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH UL96 & NFPA-780 LIGHTNING PROTECTION SYSTEM STANDARDS.
2. CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE, FREE FROM "U" OR "V" DOWN AND UP POCKETS.
3. NO BEND OF CONDUCTOR SHALL FORM AN ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND LESS THAN 12".
4. ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN DOWN CONDUCTOR, AND GROUND GROUND PLATES OR GROUNDING TRAD LOCATIONS.
5. BARE COPPER MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM OR GALVUM SURFACES AND ALUMINUM MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES.
6. ALL BOLTS ON BOLT-PRESSURE CONNECTORS SHALL BE TORQUED AT 150 POUND-FT (17N-m).
7. ALL CONNECTIONS MUST BE USED WITH UL LISTED CLASS II CABLE OF SAME METAL TYPE.
8. METALLIC BODIES OF INDUCTANCE SITUATED WITHIN 6" OF A LIGHTNING CONDUCTOR OR ANOTHER BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM, UNLESS INHERENTLY GROUND.
9. CONNECTIONS TO GROUND RODS SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW FINISHED GRADE AND AT LEAST 2'-0" AWAY FROM FOUNDATION WALL.
10. BOND TO WATERLINES (DOMESTIC & FIRE) AND GAS SERVICE LINES.
11. A LIGHTNING ARRESTOR, PROTECTOR OR ANTENNA DISCHARGE UNIT SHALL BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE AND RADIO AND TELEVISION ANTENNA LEAD-IN BY THE ELECTRICAL CONTRACTOR, IN ACCORDANCE WITH NFPA-70.
12. THE INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA-780 STANDARD. CERTIFICATION SHALL BE PROVIDED UPON COMPLETION OF INSTALLATION.
13. PROVIDE GROUNDING TRAD WITH CONNECTION FOR ELECTRIC AND TELECOM SERVICE.
14. ELECTRICAL CONTRACTOR SHALL TEST RESISTANCE TO EARTH OF EQUIPMENT GROUNDING SYSTEM TO ENSURE COMPLIANCE WITH NEC ARTICLE 250 PRIOR TO POURING CONCRETE. CONTRACTOR TO ADD GROUND PLATES, IF REQUIRED, TO MEET MINIMUM RESISTANCE REQUIREMENTS.

LIGHTNING PROTECTION KEY NOTES:

1. SURFACE MOUNTED LIGHTNING PROTECTION DOWN CONDUCTOR, UP TO STEEL COLUMN AT LOWER OR GROUND LEVEL.
2. SURFACE MOUNTED GROUNDING ELECTRODE CONDUCTOR, UP TO STEEL COLUMN AT LOWER OR GROUND LEVEL, FOR CONNECTION TO GROUND BAR IN MAIN ELECTRICAL ROOM. SEE DETAIL # ON E-#4. PROVIDE BLACK ENAMELITE EQUIPMENT TAG ON BOX WITH WHITE ENGRAVED UPPER CASE LETTERS. TAG SHALL SAY "GROUNDING ELECTRODE CONDUCTOR FOR EQUIPMENT GROUNDING SYSTEM".
3. SURFACE MOUNTED GROUNDING ELECTRODE CONDUCTOR, UP TO STEEL COLUMN AT LOWER OR GROUND LEVEL, FOR CONNECTION TO GROUND BAR IN MAIN DISTRIBUTION FRAME (MDF) ROOM. SEE DETAIL # ON E-#4. PROVIDE BLACK ENAMELITE EQUIPMENT TAG ON BOX WITH WHITE ENGRAVED UPPER CASE LETTERS. TAG SHALL SAY "GROUNDING ELECTRODE CONDUCTOR FOR EQUIPMENT GROUNDING SYSTEM".
4. CONNECTION TO GROUND TEST WELL.



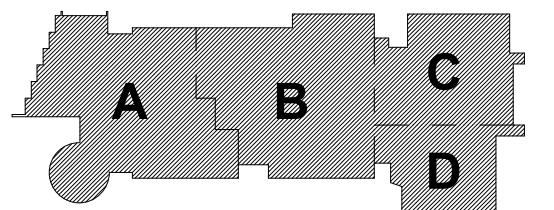
1 ELECTRICAL Level 1 OVERALL - LIGHTNING PROTECTION PLAN  
1" = 20'-0"

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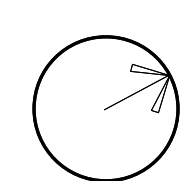
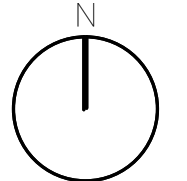
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KEY PLAN

PROJECT NORTH MAGNETIC NORTH



LIGHTNING  
PROTECTION  
PLAN -  
UNDERSLAB  
LAYOUT

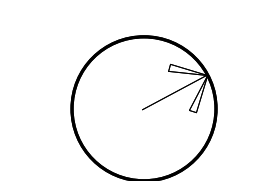
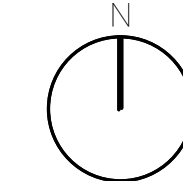
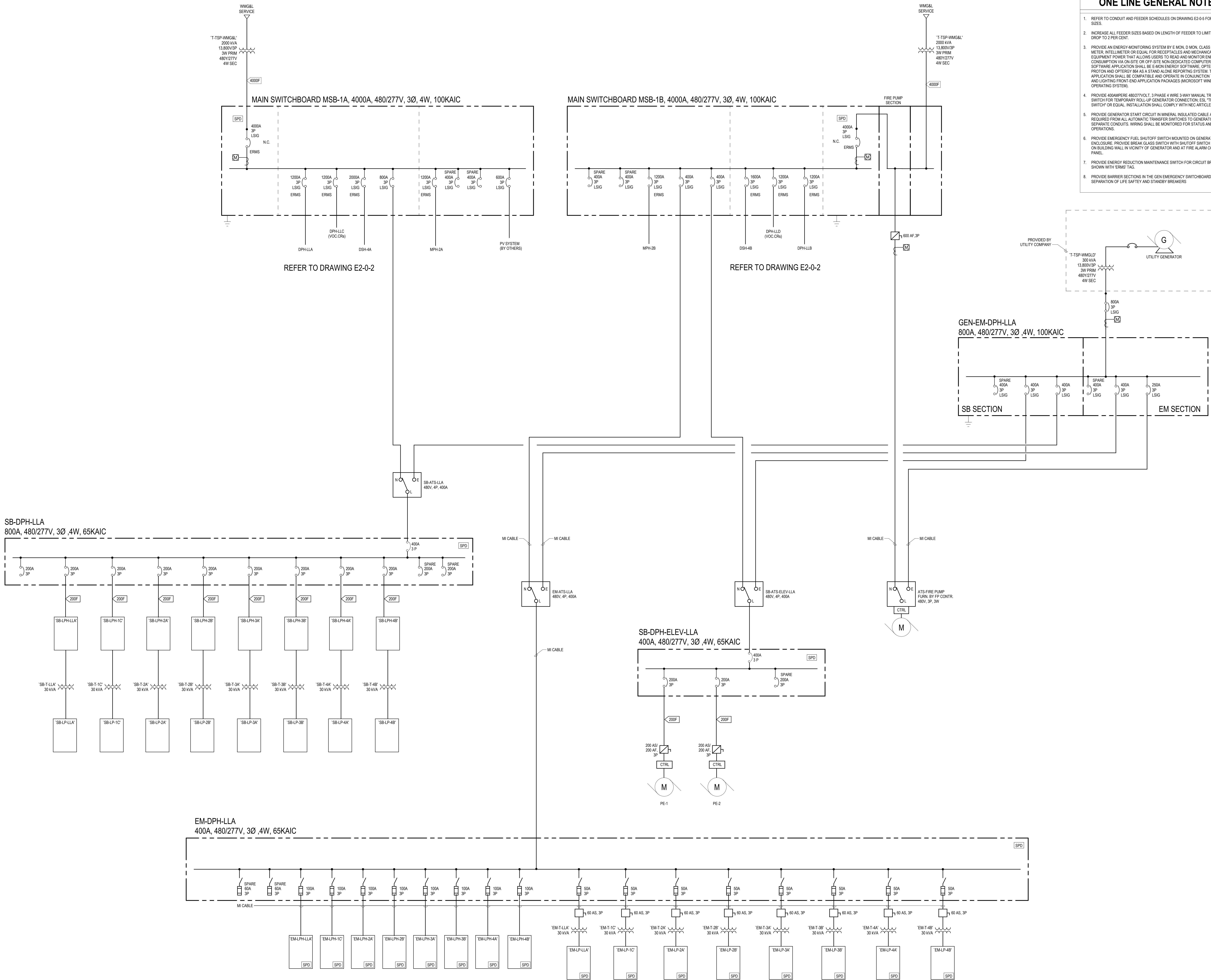
Scale: 1" = 20'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E2-3-2



## ONE LINE GENERAL NOTES

1. REFER TO CONDUIT AND FEEDER SCHEDULES ON DRAWING E2-0.5 FOR FEEDER SIZES.
2. INCREASE ALL FEEDER SIZES BASED ON LENGTH OF FEEDER TO LIMIT VOLTAGE DROP TO 2 PER CENT.
3. PROVIDE AN ENERGY MONITORING SYSTEM BY E-MON, D-MON, CLASS 2000 KIWH METER, INTELLIMETER OR EQUAL FOR RECEPTACLES AND MECHANICAL EQUIPMENT POWER THAT ALLOWS USERS TO READ AND MONITOR ENERGY CONSUMPTION VIA ON-SITE OR OFF-SITE NON-DEDICATED COMPUTERS. SOFTWARE APPLICATION SHALL BE E-MON ENERGY SOFTWARE. OPTERGY PROTON AND OPTERGY 864 AS A STAND ALONE REPORTING SYSTEM. THE APPLICATION SHALL BE COMPATIBLE AND OPERATE IN CONJUNCTION THE BAS AND LIGHTING FRONT-END APPLICATION PACKAGES (MICROSOFT WINDOWS OPERATING SYSTEM).
4. PROVIDE 400AMPERE 480/277VOLT, 3 PHASE 4 WIRE 3-WAY MANUAL TRANSFER SWITCH FOR TEMPORARY ROLL-UP GENERATOR CONNECTION, ESL, TRIPLE SWITCH OR EQUAL. INSTALLATION SHALL COMPLY WITH NEC ARTICLE 700.3(F).
5. PROVIDE GENERATOR START CIRCUIT MINERAL INSULATED CABLE AS REQUIRED FROM ALL AUTOMATIC TRANSFER SWITCHES TO GENERATOR IN SEPARATE CONDUITS. WIRING SHALL BE MONITORED FOR STATUS AND OPERATIONS.
6. PROVIDE EMERGENCY FUEL SHUTOFF SWITCH MOUNTED ON GENERATOR ENCLOSURE. PROVIDE BREAK GLASS SWITCH WITH SHUTOFF SWITCH MOUNTED ON BUILDING WALL IN VICINITY OF GENERATOR AND AT FIRE ALARM CONTROL PANEL.
7. PROVIDE ENERGY REDUCTION MAINTENANCE SWITCH FOR CIRCUIT BREAKERS SHOWN WITH ERMIS TAG.
8. PROVIDE BARRIER SECTIONS IN THE GEN EMERGENCY SWITCHBOARD FOR SEPARATION OF LIFE SAFETY AND STANDBY BREAKERS

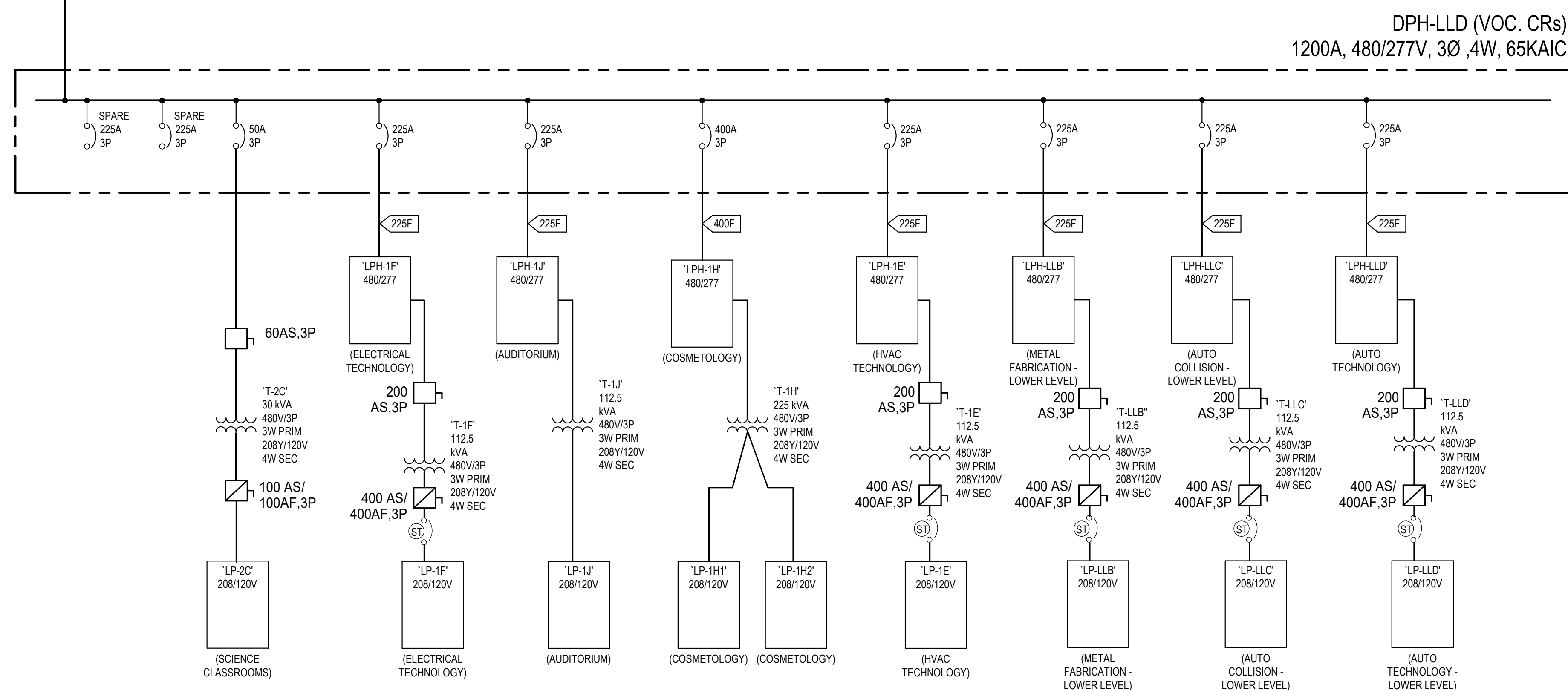
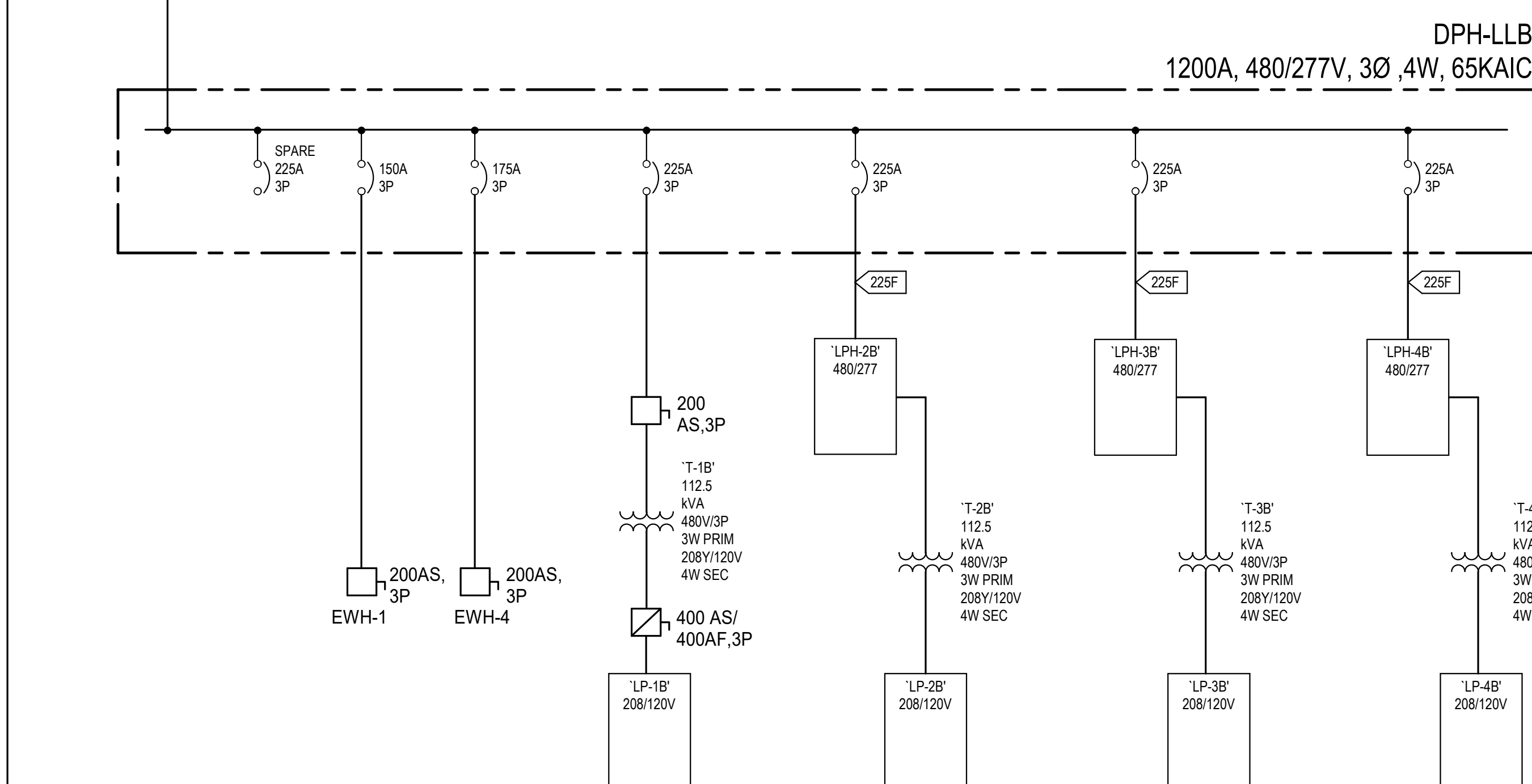




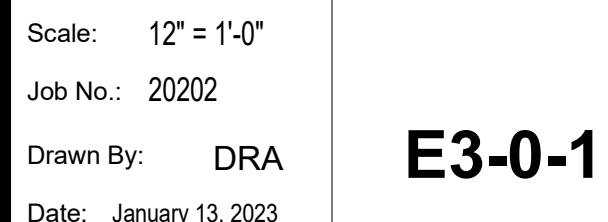
1. REFER TO CONDUIT AND FEEDER SCHEDULES ON DRAWING E-2.0.5 FOR FEEDER SIZES.
2. INCREASE ALL FEEDER SIZES BASED ON LENGTH OF FEEDER TO LIMIT VOLTAGE DROP TO 2 PER CENT.
3. PROVIDE AN ENERGY-MONITORING SYSTEM BY A MCM, D/MCM, CLASS 200 KW-METER, INTELLIMETER OR EQUAL, FOR RECEPTABLES AND MECHANICAL EQUIPMENT THAT WILL ALLOW US TO READ AND MONITOR ENERGY CONSUMPTION VOLTAGE ON-SITE OR OFF-SITE NON-REGISTERED COMPUTERS. SOFTWARE APPLICATION SHALL BE EMON ENERGY SOFTWARE, OPTERYN PROTON AND OPTERYN 864 AS A STAND ALONE REPORTING SYSTEM. THE APPLICATION SHALL BE COMPATIBLE AND OPERATE IN CONJUNCTION THE DAS AND LIGHTING FRONT-END APPLICATION PACKAGES (MICROSOFT WINDOWS OPERATING SYSTEM).
4. PROVIDE ALL REQUIRED ELECTRICAL EQUIPMENT REQUIRED FOR MECHANICAL UNIT INSTALLATIONS INCLUDING GFCO SERVICE RECEPTABLES, DISCONNECT SWITCHES, VOLTAGE BREAKERS, TRANSFORMERS, AND WEATHER-PROOF HATCHES WITH 20A WEATHER-PROOF SWITCHES AND GFCO RECEPTABLES.

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**E3-0-1**



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January 13, 2023



ale:  $12^{\circ} = 1^{\circ} - 0^{\circ}$

Drawn By: DRA  
Date: January 13, 2023

**E3-0-2**

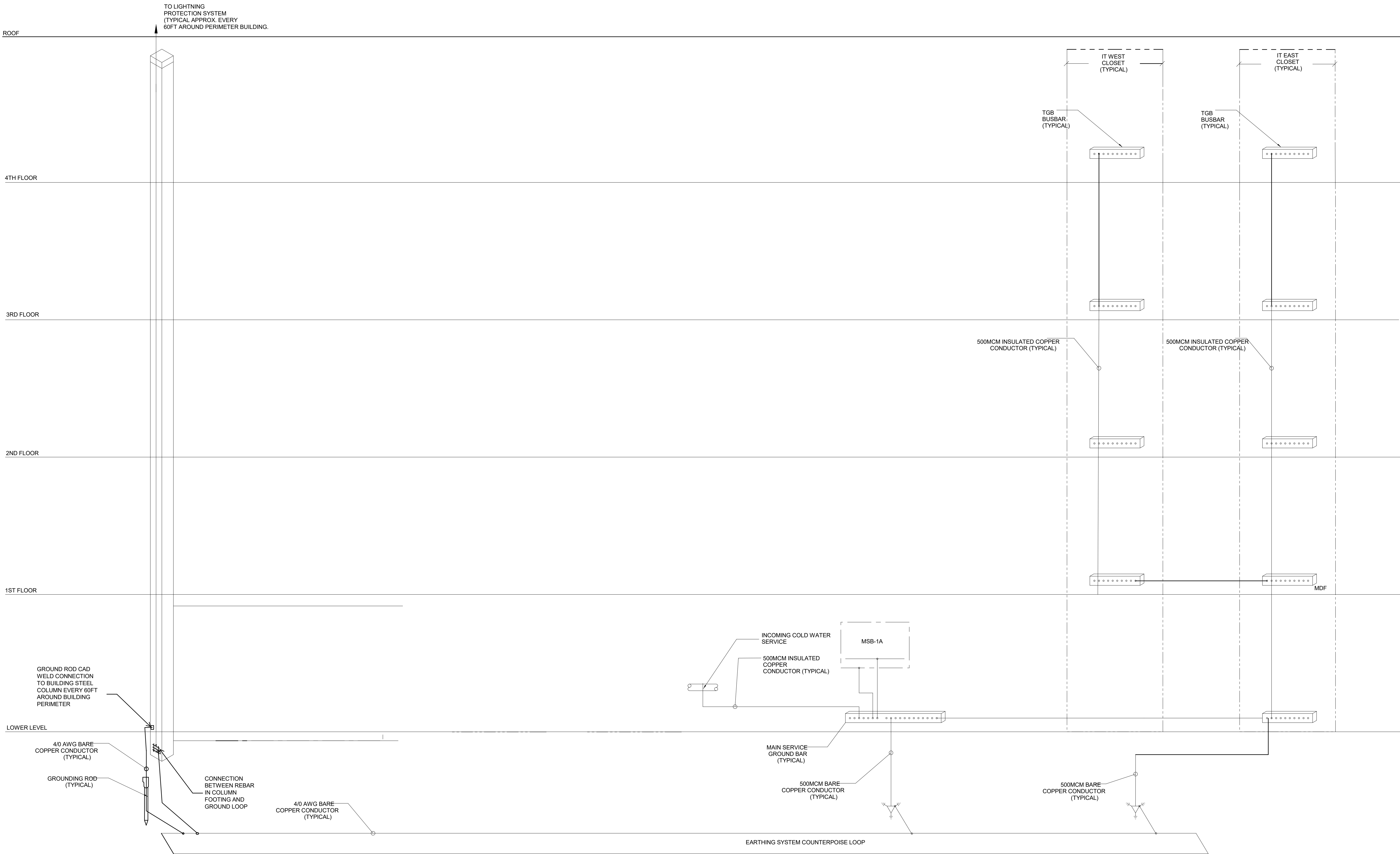




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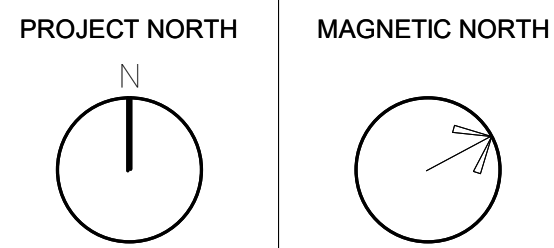
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GROUNDING  
RISER DIAGRAM

Scale:  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
E3-0-3



| CONDUIT AND FEEDER SCHEDULE - WITH 200% NEUTRAL |                    |                         |                      |                                   |                                   |                                   |                                   |                                  |  |
|-------------------------------------------------|--------------------|-------------------------|----------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|--|
| AMPS                                            | 1P+N+G             | 1P+N+G+G                | 2P+G                 | 2P+N+G                            | 3P+G                              | 3P+N+G                            | 3P+200%N+G                        | 3 PHASE MOTORS                   |  |
|                                                 | A                  | B                       | C                    | D                                 | E                                 | F                                 | F2                                | M                                |  |
| 15                                              | 2#12+1#12G, 3/4"C  | 2#12+1#12G+1#12G, 3/4"C | 2#12+1#12G, 3/4"C    | 3#12+1#12G, 3/4"C                 | 3#12+1#12G, 3/4"C                 | 4#12+1#12G, 3/4"C                 | 3#12+1#12G, 3/4"C                 | 3#12+1#12G, 3/4"C                |  |
| 20                                              | 2#12+1#12G, 3/4"C  | 2#12+1#12G+1#12G, 3/4"C | 2#12+1#12G, 3/4"C    | 3#12+1#12G, 3/4"C                 | 3#12+1#12G, 3/4"C                 | 4#12+1#12G, 3/4"C                 | 3#12+1#12G, 3/4"C                 | 3#12+1#12G, 3/4"C                |  |
| 30                                              | 2#10+1#10G, 3/4"C  | 2#10+1#10G+1#10G, 3/4"C | 2#10+1#10G, 3/4"C    | 3#10+1#10G, 3/4"C                 | 3#10+1#10G, 3/4"C                 | 4#10+1#10G, 3/4"C                 | 3#10+1#10G, 3/4"C                 | 3#10+1#10G, 3/4"C                |  |
| 50                                              | 2#8+1#10G, 3/4"C   | 2#8+1#10G+1#10G, 3/4"C  | 2#8+1#10G, 3/4"C     | 3#8+1#10G, 3/4"C                  | 3#8+1#10G, 3/4"C                  | 4#8+1#10G, 3/4"C                  | 3#8+1#10G, 3/4"C                  | 3#8+1#10G, 3/4"C                 |  |
| 60                                              | 2#6+1#8G, 1"C      | 2#6+1#8G+1#8G, 1"C      | 2#6+1#8G, 1"C        | 3#6+1#8G, 1"C                     | 3#6+1#8G, 1"C                     | 4#6+1#8G, 1"C                     | 3#6+1#8G, 1"C                     | 3#6+1#8G, 1"C                    |  |
| 70                                              | 2#4+1#8G, 1"C      | 2#4+1#8G+1#8G, 1 1/4"C  | 2#4+1#8G, 1"C        | 3#4+1#8G, 1"C                     | 3#4+1#8G, 1"C                     | 4#4+1#8G, 1 1/4"C                 | 3#4+1#8G, 1 1/4"C                 | 3#4+1#8G, 1"C                    |  |
| 80                                              | 2#4+1#8G, 1"C      | 2#4+1#8G+1#8G, 1 1/4"C  | 2#4+1#8G, 1"C        | 3#4+1#8G, 1"C                     | 3#4+1#8G, 1"C                     | 4#4+1#8G, 1 1/4"C                 | 3#4+1#8G, 1 1/4"C                 | 3#4+1#8G, 1"C                    |  |
| 90                                              | 2#3+1#8G, 1 1/4"C  | 2#3+1#8G+1#8G, 1 1/4"C  | 2#3+1#8G, 1 1/4"C    | 3#3+1#8G, 1 1/4"C                 | 3#3+1#8G, 1 1/4"C                 | 4#3+1#8G, 1 1/4"C                 | 3#3+1#8G, 1 1/4"C                 | 3#3+1#8G, 1 1/4"C                |  |
| 100                                             | 2#3+1#8G, 1 1/4"C  | 2#3+1#8G+1#8G, 1 1/4"C  | 2#3+1#8G, 1 1/4"C    | 3#3+1#8G, 1 1/4"C                 | 3#3+1#8G, 1 1/4"C                 | 4#3+1#8G, 1 1/4"C                 | 3#3+1#8G, 1 1/4"C                 | 3#3+1#8G, 1 1/4"C                |  |
| 125                                             | 2#1+1#6G, 1 1/4"C  | 2#1+1#6G+1#6G, 1 1/4"C  | 2#1+1#6G, 1 1/4"C    | 3#1+1#6G, 1 1/4"C                 | 3#1+1#6G, 1 1/4"C                 | 4#1+1#6G, 1 1/2"C                 | 3#1+1#6G, 2"C                     | 3#1+1#6G, 1 1/2"C                |  |
| 150                                             | 2#10+1#6G, 1 1/4"C | 2#10+1#6G+1#6G, 1 1/2"C | 2#10+1#6G, 1 1/4"C   | 3#10+1#6G, 1 1/2"C                | 3#10+1#6G, 1 1/2"C                | 4#10+1#6G, 2"C                    | 3#10+1#6G, 2"C                    | 3#10+1#6G, 1 1/2"C               |  |
| 175                                             | 2#20+1#6G, 1 1/2"C | 2#20+1#6G+1#6G, 2"C     | 2#20+1#6G, 1 1/2"C   | 3#20+1#6G, 2"C                    | 3#20+1#6G, 2"C                    | 4#20+1#6G, 2"C                    | 3#20+1#6G, 2"C                    | 3#20+1#6G, 2"C                   |  |
| 200                                             | 2#30+1#6G, 1 1/2"C | 2#30+1#6G+1#6G, 2"C     | 2#30+1#6G, 1 1/2"C   | 3#30+1#6G, 2"C                    | 3#30+1#6G, 2"C                    | 4#30+1#6G, 2"C                    | 3#30+1#6G, 2 1/2"C                | 3#30+1#6G, 2"C                   |  |
| 225                                             | 2#40+1#4G, 2"C     | 2#40+1#4G+1#4G, 2"C     | 2#40+1#4G, 2"C       | 3#40+1#4G, 2"C                    | 3#40+1#4G, 2"C                    | 4#40+1#4G, 2 1/2"C                | 3#40+1#4G, 2 1/2"C                | 3#40+1#4G, 2"C                   |  |
| 250                                             | 2#250+1#4G, 2"C    | 2#250+1#4G+1#4G, 2"C    | 2#250+1#4G, 2"C      | 3#250+1#4G, 2 1/2"C               | 3#250+1#4G, 2 1/2"C               | 4#250+1#4G, 2 1/2"C               | 3#250+1#4G, 3"C                   | 3#250+1#2G, 2 1/2"C              |  |
| 300                                             | 2#350+1#4G, 2"C    | 2#350+1#4G+1#4G, 2"C    | 2#350+1#4G, 2"C      | 3#350+1#4G, 2 1/2"C               | 3#350+1#4G, 2 1/2"C               | 4#350+1#4G, 3"C                   | 3#350+1#1G, 2 1/2"C               | 3#350+1#1G, 2 1/2"C              |  |
| 400                                             | 2#500+1#3G, 3"C    | 2#500+1#3G+1#3G, 3"C    | 2#500+1#3G, 3"C      | 3#500+1#3G, 3"C                   | 3#500+1#3G, 3"C                   | 4#500+1#3G, 3 1/2"C               | 3#500+1#3G, 3 1/2"C               | 3#500+1#10G, 3"C                 |  |
| 500                                             |                    |                         | 4#250+1#2G, 2 1/2"C  | (2 SETS)3#250+1#2G, (2) 2 1/2"C   | (2 SETS)3#250+1#2G, (2) 2 1/2"C   | (2 SETS)4#250+1#2G, (2) 2 1/2"C   | (2 SETS)3#250+1#2G, (2) 2 1/2"C   | (2 SETS)3#250+1#2G, (2) 2 1/2"C  |  |
| 600                                             |                    |                         | 4#350+1#1G, 3"C      | (2 SETS)3#350+1#1G, (2) 3 1/2"C   | (2 SETS)3#350+1#1G, (2) 3 1/2"C   | (2 SETS)4#350+1#1G, (2) 3 1/2"C   | (2 SETS)3#350+1#1G, (2) 3 1/2"C   | (2 SETS)3#350+1#30G, (2) 3 1/2"C |  |
| 700                                             |                    |                         | 4#500+1#10G, 3 1/2"C | (2 SETS)3#500+1#10G, (2) 3 1/2"C  | (2 SETS)3#500+1#10G, (2) 3 1/2"C  | (2 SETS)4#500+1#10G, (2) 3 1/2"C  | (2 SETS)3#500+1#10G, (2) 3 1/2"C  | (2 SETS)3#500+1#30G, (2) 3 1/2"C |  |
| 800                                             |                    |                         | 4#600+1#10G, 3 1/2"C | (2 SETS)3#600+1#10G, (2) 3 1/2"C  | (2 SETS)3#600+1#10G, (2) 3 1/2"C  | (2 SETS)4#600+1#10G, (2) 3 1/2"C  | (2 SETS)3#600+1#10G, (2) 3 1/2"C  | (2 SETS)3#600+1#30G, (2) 3 1/2"C |  |
| 900                                             |                    |                         |                      | (3 SETS)3#450+1#20G, (3) 3 1/2"C  | (3 SETS)3#450+1#20G, (3) 3 1/2"C  | (3 SETS)4#450+1#20G, (3) 3 1/2"C  | (3 SETS)3#450+1#20G, (3) 3 1/2"C  | (3 SETS)3#450+1#30G, (3) 3 1/2"C |  |
| 1000                                            |                    |                         |                      | (3 SETS)3#400+1#20G, (3) 3 1/2"C  | (3 SETS)3#400+1#20G, (3) 3 1/2"C  | (3 SETS)4#400+1#20G, (3) 3 1/2"C  | (3 SETS)3#400+1#20G, (3) 3 1/2"C  | (3 SETS)3#400+1#30G, (3) 3 1/2"C |  |
| 1200                                            |                    |                         |                      | (3 SETS)3#600+1#40G, (3) 3 1/2"C  | (3 SETS)3#600+1#40G, (3) 3 1/2"C  | (3 SETS)4#600+1#40G, (3) 3 1/2"C  | (3 SETS)3#600+1#40G, (3) 3 1/2"C  | (3 SETS)3#600+1#30G, (3) 3 1/2"C |  |
| 1600                                            |                    |                         |                      | (4 SETS)3#600+1#40G, (4) 3 1/2"C  | (4 SETS)3#600+1#40G, (4) 3 1/2"C  | (4 SETS)4#600+1#40G, (4) 3 1/2"C  | (4 SETS)3#600+1#40G, (4) 3 1/2"C  | (4 SETS)3#600+1#30G, (4) 3 1/2"C |  |
| 2000                                            |                    |                         |                      | (5 SETS)3#600+1#250G, (5) 3 1/2"C | (5 SETS)3#600+1#250G, (5) 3 1/2"C | (5 SETS)4#600+1#250G, (5) 3 1/2"C | (5 SETS)3#600+1#250G, (5) 3 1/2"C | (5 SETS)3#600+1#30G, (5) 3 1/2"C |  |
| 2400                                            |                    |                         |                      | (6 SETS)3#600+1#350G, (6) 3 1/2"C | (6 SETS)3#600+1#350G, (6) 3 1/2"C | (6 SETS)4#600+1#350G, (6) 3 1/2"C | (6 SETS)3#600+1#350G, (6) 3 1/2"C | (6 SETS)3#600+1#30G, (6) 3 1/2"C |  |
| 3000                                            |                    |                         |                      | (8 SETS)3#500+1#400G, (8) 3 1/2"C | (8 SETS)3#500+1#400G, (8) 3 1/2"C | (8 SETS)4#500+1#400G, (8) 3 1/2"C | (8 SETS)3#500+1#400G, (8) 3 1/2"C | (8 SETS)3#500+1#30G, (8) 3 1/2"C |  |

NOTES:  
1. ADJUST SIZE OF GROUNDING CONDUCTOR FOR SEPARATELY DERIVED SYSTEMS ACCORDING TO NEC TABLE 250.66.  
2. INCREASE SIZE OF UNGROUNDED CONDUCTORS FOR VOLTAGE DROP ACCORDING TO NEC 250.122(B).

| LIGHTING SEQUENCE OF OPERATION |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                        |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| TYPE                           | CONTROL DEVICES                                                                                                                 | SEQUENCE OF OPERATION - ASHRAE 90.1 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TYPICAL USE                                                                                                                            |
| 01                             | WALL SWITCH OCCUPANCY SENSOR WITH INTEGRAL OVERRIDE SWITCH                                                                      | WHEN OCCUPIED, ALL LIGHTING IN ROOM SHALL AUTOMATICALLY SWITCH TO FULL ON AND SHAL OVERRIDE SWITCH SHALL BE CAPABLE OF TURNING OFF ALL LIGHTING IN THE ROOM. RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.                                                                                                                                                                                                                                                                                                                   | Small Restrooms, Copy/Print Room                                                                                                       |
| 02                             | CEILING OR WALL MOUNTED OCCUPANCY SENSOR WITH POWER-PACK OR RELAY AND WALL MOUNTED OVERRIDE SWITCH                              | WHEN OCCUPIED, ALL LIGHTING IN ROOM SHALL AUTOMATICALLY SWITCH TO FULL ON AND SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.                                                                                                                                                                                                                                                                                                                                                                                            | Large, Multi-Stall Restrooms                                                                                                           |
| 03                             | CEILING OR WALL MOUNTED OCCUPANCY SENSOR WITH POWER-PACK OR RELAY AND WALL MOUNTED DIMMING / OVERRIDE SWITCH                    | WHEN OCCUPIED, ALL LIGHTING IN ROOM SHALL AUTOMATICALLY SWITCH ON TO 50% OF MAXIMUM OUTPUT. OVERRIDE SWITCH SHALL BE CAPABLE OF ADJUSTING LIGHT OUTPUT TO FULL ON, FULL OFF, AND DIMMING. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.                                                                                                                                                                                                                                                                  | Open office, Larger Storage Rooms, Fitness Room, Large Breakroom                                                                       |
| V1                             | WALL SWITCH VACANCY SENSOR WITH INTEGRAL OVERRIDE SWITCH                                                                        | OVERRIDE SWITCH SHALL BE CAPABLE OF SWITCHING ALL LIGHTING TO FULL ON OR FULL OFF. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.                                                                                                                                                                                                                                                                                                                                                                         | Storage Rooms <50 Sq. Ft.                                                                                                              |
| V2                             | CEILING OR WALL MOUNTED VACANCY SENSOR WITH POWER-PACK OR RELAY AND WALL MOUNTED OVERRIDE SWITCH                                | OVERRIDE SWITCH SHALL BE CAPABLE OF SWITCHING ALL LIGHTING TO FULL ON OR FULL OFF. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.                                                                                                                                                                                                                                                                                                                                                                         | Restrooms, Corridors, Lobbies, Healthcare facility                                                                                     |
| V3                             | WALL SWITCH VACANCY SENSOR WITH INTEGRAL DIMMING / OVERRIDE SWITCH                                                              | OVERRIDE SWITCH SHALL BE CAPABLE OF SWITCHING ALL LIGHTING TO FULL ON (OR PRESET), FULL OFF, AND DIMMING. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.                                                                                                                                                                                                                                                                                                                                                  | Small office                                                                                                                           |
| V4                             | CEILING OR WALL MOUNTED VACANCY SENSOR(S) WITH WALL MOUNTED DIMMING / OVERRIDE SWITCHES FOR EACH CONTROL ZONE                   | OVERRIDE SWITCH FOR EACH CONTROL ZONE SHALL BE CAPABLE OF SWITCHING ALL LIGHTING TO FULL ON (OR PROGRAMMED PRESET), FULL OFF, AND DIMMING. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.                                                                                                                                                                                                                                                                                                                 | Conference room, classrooms Multiple lighting control zones                                                                            |
| T1                             | TIME CLOCK CONTROL WITH SCHEDULED AUTOMATIC FULL ON AND AUTOMATIC FULL OFF                                                      | SCHEDULE TO ACCOUNT FOR NORMAL WORKING HOURS, WEEKENDS AND HOLIDAYS. PROVIDE OVERRIDE SWITCHES AS SHOWN ON PLAN TO OVERRIDE SCHEDULED OFF PERIODS FOR NOT MORE THAN TWO HOURS PER ACTIVATION. WHEN OVERRIDE IS USED PROVIDE FLASH FUNCTION 10 MINUTES BEFORE TIME-OUT.                                                                                                                                                                                                                                                                         | Corridors, Lobbies                                                                                                                     |
| D1                             | SIDELIGHT DAYLIGHT HARVESTING. PRIMARY ZONE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS AND CONTINUOUS DIMMING                       | PROVIDE DIMMABLE LIGHT FIXTURES AND CONTROLS TO CONTINUOUSLY ADJUST THE LIGHT OUTPUT BASED ON THE AMOUNT OF AVAILABLE DAYLIGHT. DAYLIGHT SENSORS SHOWN ON LIGHTING PLANS ARE PLACED AT SUGGESTED LOCATIONS AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER INSTRUCTIONS. CONTROL DEVICES SHALL BE IN READILY ACCESSIBLE LOCATION AND MOUNTED NO HIGHER THAN 11 FEET ABOVE FINISHED FLOOR.                                                                                                                                                     | For Sidelighted areas with a lighting load of 150 Watts, but less than 300 Watts                                                       |
| D2                             | SIDELIGHT DAYLIGHT HARVESTING. PROVIDE PRIMARY AND SECONDARY ZONE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS AND CONTINUOUS DIMMING | PROVIDE DIMMABLE LIGHT FIXTURES AND CONTROLS TO CONTINUOUSLY ADJUST THE LIGHT OUTPUT BASED ON THE AMOUNT OF AVAILABLE DAYLIGHT. PRIMARY ZONE SHALL BE SEPARATELY CONTROLLED FROM SECONDARY ZONE WITH PRIMARY ZONE HAVING MORE GAIN (REACTING MORE TO DAYLIGHT) THAN SECONDARY ZONE. DAYLIGHT SENSORS SHOWN ON LIGHTING PLANS ARE PLACED AT SUGGESTED LOCATIONS AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER INSTRUCTIONS. CONTROL DEVICES SHALL BE IN READILY ACCESSIBLE LOCATION AND MOUNTED NO HIGHER THAN 11 FEET ABOVE FINISHED FLOOR. | For Sidelighted areas with a lighting load of 300 Watts or more                                                                        |
| D3                             | TOPLIGHT DAYLIGHT HARVESTING. AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS AND CONTINUOUS DIMMING                                     | PROVIDE DIMMABLE LIGHT FIXTURES AND CONTROLS TO CONTINUOUSLY ADJUST THE LIGHT OUTPUT BASED ON THE AMOUNT OF AVAILABLE DAYLIGHT. WHERE TOP LIGHTING OVERLAPS, SIDELIGHTING, THE LIGHTING SERVING THE OVERLAPPING AREAS SHALL BE CONTROLLED TOGETHER. DAYLIGHT SENSORS SHOWN ON LIGHTING PLANS ARE PLACED AT SUGGESTED LOCATIONS AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER INSTRUCTIONS. CONTROL DEVICES SHALL BE IN READILY ACCESSIBLE LOCATION AND MOUNTED NO HIGHER THAN 11 FEET ABOVE FINISHED FLOOR.                                 | For Toplighting areas with a lighting load of 150 Watts or more                                                                        |
| M1                             | MANUAL LIGHT SWITCH(S) USED TO CONTROL ROOM LIGHTING                                                                            | MANUAL LIGHT SWITCH(S) USED TO CONTROL ROOM LIGHTING. ALL LIGHTING IN ROOM SHALL MANUALLY SWITCH TO FULL ON, AND MANUALLY SWITCH TO FULL OFF. MANUAL SWITCH USED WHERE AUTOMATIC SHUT-OFF WOULD ENDANGER THE SAFETY OR SECURITY OF ROOM OR BUILDING OCCUPANTS.                                                                                                                                                                                                                                                                                 | Kitchen food prep room, shops                                                                                                          |
| M2                             | TIMER SWITCH                                                                                                                    | TIMER LIGHT SWITCH(S) USED TO CONTROL ROOM LIGHTING. ALL LIGHTING IN ROOM SHALL MANUALLY SWITCH TO FULL ON, AND CAN BE MANUALLY SWITCHED TO FULL OFF OR SWITCHED TO FULL OFF AFTER TIME-OUT.                                                                                                                                                                                                                                                                                                                                                   | Electrical rooms, mechanical rooms, IT rooms                                                                                           |
| S1                             | STAIRWELL INTEGRAL FIXTURE CONTROLS                                                                                             | LIGHTING ALWAYS ON AT REDUCED LEVEL (30% - 50% OF FULL LEVEL) WHEN UNOCCUPIED. PROVIDE LIGHT FIXTURES WITH INTEGRAL OCCUPANCY SENSOR TO RAISE THE LIGHT OUTPUT TO 100% WHEN OCCUPIED. STAIRWELL LIGHTING SHALL RETURN TO REDUCED LEVEL WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES. LIGHTING TO BE ON EMERGENCY POWER, WHEN GENERATOR IS USED FOR EMERGENCY POWER, PROVIDE INTEGRAL BATTERY IN EACH LIGHT FIXTURE.                                                                                                                             | Stairwell                                                                                                                              |
| R1                             | AUTOMATIC RECEPACLE CONTROL USING TIME CLOCK                                                                                    | AN INDEPENDENT PROGRAM SHALL BE PROVIDED FOR CONTROLLED AREAS UP TO 5000 SQUARE FEET. PROVIDE OVERRIDE SWITCHES AS SHOWN ON PLAN TO OVERRIDE SCHEDULED OFF PERIODS FOR NOT MORE THAN TWO HOURS PER ACTIVATION. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED PER NEC 406.4(E), TO VISUALLY DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.                                                                                                                                                                                          | Time clock control Private offices, conference rooms, printing and copying rooms, break rooms, classrooms and individual workstations. |
| E1                             | EXTERIOR BUILDING FACADE AND LANDSCAPE LIGHTING CONTROL, PHOTOCELL AND TIME CLOCK                                               | PROVIDE RELAY CONTROLS USING PHOTOCELL TO TURN LIGHTS ON AND ASTRONOMICAL TIME CLOCK TO TURN LIGHTS OFF. AND OCCUPANCY SENSOR(S) TO DETECT ACTIVITY. ALL BUILDING FACADE AND LANDSCAPE LIGHTING SHALL AUTOMATICALLY TURN OFF AT MIDNIGHT OR BUILDING CLOSING (WHICHEVER IS LATER), AND 6AM OR BUSINESS OPENING (WHICHEVER COMES FIRST) OR TIMES ESTABLISHED BY AIA.                                                                                                                                                                            | Exterior building facade and landscape lighting                                                                                        |
| E2                             | EXTERIOR PARKING LOT LIGHTING CONTROL, PHOTOCELL, TIME CLOCK AND OCCUPANCY SENSORS                                              | PROVIDE RELAY CONTROLS USING PHOTOCELL TO TURN LIGHTS ON AND ASTRONOMICAL TIME CLOCK TO TURN LIGHTS OFF. AND OCCUPANCY SENSOR(S) TO DETECT ACTIVITY. PROVIDE CONTROLS TO REDUCE POWER AT EACH LUMINAIRE BY 50% OR MORE WHEN NO ACTIVITY HAS BEEN DETECTED FOR A TIME NO LONGER THAN 15 MINUTES.                                                                                                                                                                                                                                                | Exterior parking lots                                                                                                                  |

NOTES:  
1. PER ASHRAE 90.1 2016, 9.4.3, ALL LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE FUNCTIONALLY TESTED FOR PROPER OPERATION BY AN INDEPENDENT PARTY THAT IS NOT DIRECTLY INVOLVED WITH EITHER THE DESIGN OR THE CONSTRUCTION OF THE LIGHTING SYSTEM.  
2. ALL CALIBRATION MECHANISMS SHALL BE IN ACCESSIBLE LOCATIONS.  
3. ALL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTINGS DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.  
4. LIGHTING CONTROLS SHALL BE CONFIGURED SUCH THAT DAYLIGHT RESPONSIVE CONTROL ARE ONLY ACTIVE WHEN OCCUPANCY FOR THE SAME ROOMS OR SPACES IS DETECTED.  
5. FIXTURES NOTED WITH 'EM' (SWITCHED OR DIMMED EMERGENCY) OR 'EMNL' (NIGHT LIGHT) ARE FOR EMERGENCY EGRESS LIGHTING. NIGHT LIGHTS SHALL BE DIMMED TO MATCH PRESETS FOR LIKE TYPES OF ADJACENT LIGHTING. PROVIDE EMERGENCY POWER FOR THESE FIXTURES AND EXIT SIGNS FROM AVAILABLE CIRCUITS OF EMERGENCY PANELS LOCATED. PROVIDE STEP DOWN TRANSFORMER FOR 150V FIXTURES DESIGATED FOR EMERGENCY.

| COPPER BRANCH AND FEEDER SCHEDULE |                   |                     |                                      |                                    |                     |
|-----------------------------------|-------------------|---------------------|--------------------------------------|------------------------------------|---------------------|
| AMPS                              | 1P+N+G            | 2P+G                | 2P+N+G                               | 3P+G                               | 3P+N+G              |
|                                   | A                 | C                   | D                                    | E                                  | F                   |
| 15                                | 2#12+1#12G, 3/4"C | 2#12+1#12G, 3/4"C   | 3#12+1#12G, 3/4"C                    | 3#12+1#12G, 3/4"C                  | 4#12+1#12G, 3/4"C   |
| 20                                | 2#12+1#12G, 3/4"C | 2#12+1#12G, 3/4"C   | 3#12+1#12G, 3/4"C                    | 3#12+1#12G, 3/4"C                  | 4#12+1#12G, 3/4"C   |
| 25                                | 2#10+1#10G, 3/4"C | 2#10+1#10G, 3/4"C   | 3#10+1#10G, 3/4"C                    | 3#10+1#10G, 3/4"C                  | 4#10+1#10G, 3/4"C   |
| 30                                | 2#10+1#10G, 3/4"C | 2#10+1#10G, 3/4"C   | 3#10+1#10G, 3/4"C                    | 3#10+1#10G, 3/4"C                  | 4#10+1#10G, 3/4"C   |
| 35                                | 2#8+1#10G, 3/4"C  | 2#8+1#10G, 3/4"C    | 3#8+1#10G, 3/4"C                     | 3#8+1#10G, 3/4"C                   | 4#8+1#10G, 3/4"C    |
| 40                                | 2#8+1#10G, 3/4"C  | 2#8+1#10G, 3/4"C    | 3#8+1#10G, 3/4"C                     | 3#8+1#10G, 3/4"C                   | 4#8+1#10G, 3/4"C    |
| 45                                | 2#6+1#10G, 3/4"C  | 2#6+1#10G, 3/4"C    | 3#6+1#10G, 1"C                       | 3#6+1#10G, 1"C                     | 4#6+1#10G, 1"C      |
| 50                                | 2#6+1#10G, 3/4"C  | 2#6+1#10G, 3/4"C    | 3#6+1#10G, 1 1/4"C                   | 3#6+1#10G, 1 1/4"C                 | 4#6+1#10G, 1 1/4"C  |
| 60                                | 2#4+1#10G, 1"C    | 2#4+1#10G, 1"C      | 3#4+1#10G, 1"C                       | 3#4+1#10G, 1"C                     | 4#4+1#10G, 1-1/4"C  |
| 70                                | 2#4+1#8G, 1"C     | 2#4+1#8G, 1"C       | 3#4+1#8G, 1-1/4"C                    | 3#4+1#8G, 1-1/4"C                  | 4#4+1#8G, 1-1/4"C   |
| 80                                | 2#3+1#8G, 1"C     | 2#3+1#8G, 1"C       | 3#3+1#8G, 1-1/4"C                    | 3#3+1#8G, 1-1/4"C                  | 4#3+1#8G, 1-1/4"C   |
| 90                                | 2#2+1#8G, 1"C     | 2#2+1#8G, 1"C       | 3#2+1#8G, 1-1/4"C                    | 3#2+1#8G, 1-1/4"C                  | 4#2+1#8G, 1-1/2"C   |
| 100                               | 2#1+1#8G, 1-1/4"C | 2#1+1#8G, 1-1/4"C   | 3#1+1#8G, 1-1/2"C                    | 3#1+1#8G, 1-1/2"C                  | 4#1+1#8G, 2"C       |
| 110                               |                   | 2#2+1#6G, 1-1/4"C   | 3#2+1#6G, 1-1/4"C                    | 3#2+1#6G, 1-1/4"C                  | 4#2+1#6G, 1-1/2"C   |
| 125                               |                   | 2#1+1#6G, 1-1/4"C   | 3#1+1#6G, 1-1/2"C                    | 3#1+1#6G, 1-1/2"C                  | 4#1+1#6G, 2"C       |
| 150                               |                   | 2#10+1#6G, 1-1/2"C  | 3#10+1#6G, 1-1/2"C                   | 3#10+1#6G, 1-1/2"C                 | 4#10+1#6G, 2"C      |
| 175                               |                   | 2#20+1#6G, 1-1/2"C  | 3#20+1#6G, 2"C                       | 3#20+1#6G, 2"C                     | 4#20+1#6G, 2"C      |
| 200                               |                   | 2#30+1#6G, 1-1/2"C  | 3#30+1#6G, 2"C                       | 3#30+1#6G, 2"C                     | 4#30+1#6G, 2-1/2"C  |
| 225                               |                   | 2#40+1#4G, 2"C      | 3#40+1#4G, 2"C                       | 3#40+1#4G, 2"C                     | 4#40+1#4G, 2-1/2"C  |
| 250                               |                   | 2#250+1#4G, 2"C     | 3#250+1#4G, 2-1/2"C                  | 3#250+1#4G, 2-1/2"C                | 4#250+1#4G, 3"C     |
| 300                               |                   | 2#350+1#4G, 2"C     | 3#350+1#4G, 3"C                      | 3#350+1#4G, 3"C                    | 4#350+1#4G, 3"C     |
| 350                               |                   | 2#500+1#3G, 2-1/2"C | 3#500+1#3G, 3"C                      | 3#500+1#3G, 3"C                    | 4#500+1#3G, 3-1/2"C |
| 400                               |                   | 2#600+1#3G, 3"C     | 3#600+1#3G, 3-1/2"C                  | 3#600+1#3G, 3-1/2"C                | 4#600+1#3G, 4"C     |
| 450                               |                   |                     | (2 Sets) 3#40+1#2G, (2) 2"C          | (2 Sets) 4#40+1#2G, (2) 2-1/2"C    |                     |
| 500                               |                   |                     | (2 Sets) 3#250+1#2G, (2) 2-1/2"C     | (2 Sets) 4#250+1#2G, (2) 3-1/2"C   |                     |
| 600                               |                   |                     | (2 Sets) 3#350+1#1G, (2) 3"C         | (2 Sets) 4#350+1#1G, (2) 3"C       |                     |
| 700                               |                   |                     | (2 Sets) 3#500+1#10G, (2) 3 1/2"C    | (2 Sets) 4#500+1#10G, (2) 3-1/2"C  |                     |
| 800                               |                   |                     | (2 Sets) 3#600+1#10G, (2) 3-1/2"C    | (2 Sets) 4#600+1#10G, (2) 4"C      |                     |
| 1000                              |                   |                     | (3 Sets) 3#400+1#20G, (3) 3"C        | (3 Sets) 4#400+1#20G, (3) 3-1/2"C  |                     |
| 1200                              |                   |                     | (3 Sets) 3#600+1#30G, (3) 3-1/2"C    | (3 Sets) 4#600+1#30G, (3) 4"C      |                     |
| 1600                              |                   |                     | (4 Sets) 3#600+1#40G, (4) 3-1/2"C    | (4 Sets) 4#600+1#40G, (4) 4"C      |                     |
| 2000                              |                   |                     | (5 Sets) 3#600+1#250G, (5) 3-1/2"C   | (5 Sets) 4#600+1#250G, (5) 4"C     |                     |
| 2500                              |                   |                     | (6 Sets) 3#600+1#350G, (6) 3-1/2"C   | (6 Sets) 4#600+1#350G, (6) 4"C     |                     |
| 3000                              |                   |                     | (8 Sets) 3#500+1#400G, (8) 3-1/2"C   | (8 Sets) 4#500+1#400G, (8) 3-1/2"C |                     |
| 4000                              |                   |                     | (10 Sets) 3#600+1#500G, (10) 3-1/2"C | (10 Sets) 4#600+1#500G, (10) 4"C   |                     |

NOTES:  
1. DESIGN BASIS:  
a. CONDUCTOR SIZES BASED ON AMBIENT TEMPERATURE OF 78F TO 86F (26C TO 30C). FOR AMBIENT TEMPERATURES ABOVE 30C, THE AMPACITY SHALL BE REDUCED PER NEC TABLE 310.15(B)(2)(a). WIRE SIZES SHALL NOT BE REDUCED BELOW THE 30C RATING.  
b. OCPD SIZES FOR SMALL CONDUCTORS BASED ON NEC 240.4(D)(3), NEC 240.4(D)(5) AND NEC 240.4(D)(7).  
c. CONDUCTOR SIZES BASED ON 60C COLUMN OF NEC 2017 TABLE 310.15(B)(16) FOR 100A AND SMALLER OCPDS. WIRES ARE ALLOWED TO BE SIZED BASED



| Switchboard: MSB-1A   |                     |               |                    |                                   |                        |         |
|-----------------------|---------------------|---------------|--------------------|-----------------------------------|------------------------|---------|
| Location: BOILER C002 |                     |               | Volts: 480/277 Wye |                                   | A.I.C. Rating: 200A/IC |         |
| Supply From:          |                     |               | Phases: 3          |                                   | Main Type: MLO         |         |
| Mounting:             |                     |               | Wires: 4           |                                   | Main Rating: 4000 A    |         |
| Enclosure:            |                     |               |                    |                                   | MCB Rating: 4000 A     |         |
| CKT                   | CIRCUIT DESCRIPTION | POLES         | FRAME              | TRIP                              | LOAD                   | REMARKS |
| 1                     | DSH4B               | 3             | 800 A              | 800 A                             | 1037626 VA             |         |
| 2                     | DSH4A               | 3             | 1200 A             | 1200 A                            | 96900 VA               |         |
| 3                     | DPH4LD              | 3             | 1200 A             | 1200 A                            | 6300 VA                |         |
| 4                     | DPH4LLC             | 3             | 1200 A             | 1200 A                            | 22320 VA               |         |
| 5                     | DPH4LLB             | 3             | 1200 A             | 1200 A                            | 90900 VA               |         |
| 6                     | DPH4LLA             | 3             | 1200 A             | 1200 A                            | 78840 VA               |         |
| 7                     | EMATS4LLA           | 3             | 400 A              | 400 A                             | 0 VA                   |         |
| 8                     | SB-ATS4LLA          | 3             | 800 A              | 800 A                             | 0 VA                   |         |
| 9                     | EM-ATS4LEV-LLA      | 3             | 400 A              | 400 A                             | 0 VA                   |         |
| 10                    | MPH42A              | 3             | 400 A              | 20 A                              | 50881 VA               |         |
| 11                    | PV SYSTEM           | 3             | 600 A              | 600 A                             | 0 VA                   |         |
| 12                    | SPARE               | 3             | 800 A              | 800 A                             | 0 VA                   |         |
| 13                    | SPARE               | 3             | 400 A              | 400 A                             | 0 VA                   |         |
| 14                    | SPARE               | 3             | 400 A              | 400 A                             | 0 VA                   |         |
| 15                    | SPARE               | 3             | 400 A              | 400 A                             | 0 VA                   |         |
| 16                    | MPH42B              | 3             | 400 A              | 20 A                              | 262089 VA              |         |
| 17                    |                     |               |                    |                                   |                        |         |
| 18                    |                     |               |                    |                                   |                        |         |
| 19                    |                     |               |                    |                                   |                        |         |
| 20                    |                     |               |                    |                                   |                        |         |
| 21                    |                     |               |                    |                                   |                        |         |
| 22                    |                     |               |                    |                                   |                        |         |
| 23                    |                     |               |                    |                                   |                        |         |
| 24                    |                     |               |                    |                                   |                        |         |
| Total Conn. Load:     |                     |               |                    |                                   | 2518876 VA             |         |
| Total Amps:           |                     |               |                    |                                   | 3030 A                 |         |
| LOAD CLASSIFICATION   | CONNECTED LOAD      | DEMAND FACTOR | ESTIMATED DEMAND   | TOTALS                            |                        |         |
| EQUIPMENT             | 2320516 VA          | 75.00%        | 1740387 VA         | Total Conn. Load: 2518876 VA      |                        |         |
| RECEPT                | 195830 VA           | 52.52%        | 104190 VA          | Total Est. Demand: 1844567 VA     |                        |         |
|                       |                     |               |                    | Total Conn. Current: 3030 A       |                        |         |
|                       |                     |               |                    | Total Est. Demand Current: 2219 A |                        |         |
| NOTES:                |                     |               |                    |                                   |                        |         |

| Switchboard: DPH-LLA  |                     |                |                    |                  |                       |                                 |         |
|-----------------------|---------------------|----------------|--------------------|------------------|-----------------------|---------------------------------|---------|
| Location: BOILER C002 |                     |                | Volts: 480/277 Wye |                  | A.I.C. Rating: 65A/IC |                                 |         |
| Supply From: MSB-1A   |                     |                | Phases: 3          |                  | Main Type: MLO        |                                 |         |
| Mounting: Enclosure:  |                     |                | Wires: 4           |                  | Main Rating: 1200 A   |                                 |         |
|                       |                     |                |                    |                  | MCB Rating: 1200 A    |                                 |         |
| CKT                   | CIRCUIT DESCRIPTION |                | POLES              | FRAME            | TRIP                  | LOAD                            | REMARKS |
| 1                     | LPH4-2A             |                | 3                  | 225-A            | 225 A                 | 28380 VA                        |         |
| 2                     | LPH4-3A             |                | 3                  | 225-A            | 225 A                 | 30240 VA                        |         |
| 3                     | LPH4-4A             |                | 3                  | 225-A            | 225 A                 | 26520 VA                        |         |
| 4                     | T-1A                |                | 3                  | 225-A            | 225 A                 | 0 VA                            |         |
| 5                     | LPH4-LLA            |                | 3                  | 225-A            | 225 A                 | 0 VA                            |         |
| 6                     | LPH4-1C             |                | 3                  | 400-A            | 20 A                  | 0 VA                            |         |
| 7                     | EWH4-1A             |                | 3                  | 150-A            | 150 A                 | 0 VA                            |         |
| 8                     | EWH4-2A             |                | 3                  | 175-A            | 175 A                 | 0 VA                            |         |
| 9                     | SPARE               |                | 3                  | 225-A            | 225 A                 | 0 VA                            |         |
| 10                    |                     |                |                    |                  |                       |                                 |         |
| Total Conn. Load:     |                     |                |                    |                  | 78840 VA              |                                 |         |
| Total Amps:           |                     |                |                    |                  | 56 A                  |                                 |         |
| LOAD CLASSIFICATION   |                     | CONNECTED LOAD | DEMAND FACTOR      | ESTIMATED DEMAND |                       | TOTALS                          |         |
| RECEPT                |                     | 78840 VA       | 56.34%             | 44420 VA         |                       |                                 |         |
|                       |                     |                |                    |                  |                       | Total Conn. Load: 78840 VA      |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand: 44420 VA     |         |
|                       |                     |                |                    |                  |                       | Total Conn. Current: 56 A       |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand Current: 53 A |         |
| NOTES:                |                     |                |                    |                  |                       |                                 |         |

| Switchboard: DPH-LLB  |                     |                |                    |                  |                       |                                 |         |
|-----------------------|---------------------|----------------|--------------------|------------------|-----------------------|---------------------------------|---------|
| Location: BOILER C002 |                     |                | Volts: 480/277 Wye |                  | A.I.C. Rating: 65A/IC |                                 |         |
| Supply From: MSB-1A   |                     |                | Phases: 3          |                  | Maine Type: MLO       |                                 |         |
| Mounting: Enclosure:  |                     |                | Wires: 4           |                  | Maine Rating: 1200 A  |                                 |         |
|                       |                     |                |                    |                  | MCB Rating: 1200 A    |                                 |         |
| CKT                   | CIRCUIT DESCRIPTION |                | POLES              | FRAME            | TRIP                  | LOAD                            | REMARKS |
| 1                     | LPH42B              |                | 3                  | 225 A            | 225 A                 | 32940 VA                        |         |
| 2                     | LPH43B              |                | 3                  | 225 A            | 225 A                 | 30960 VA                        |         |
| 3                     | LPH44B              |                | 3                  | 225 A            | 225 A                 | 27900 VA                        |         |
| 4                     | T-1B                |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 5                     | EWH41B              |                | 3                  | 150 A            | 150 A                 | 0 VA                            |         |
| 6                     | EWH42B              |                | 3                  | 175 A            | 175 A                 | 0 VA                            |         |
| 7                     | SPARE               |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 8                     |                     |                |                    |                  |                       |                                 |         |
| Total Conn. Load:     |                     |                |                    |                  | 90900 VA              |                                 |         |
| Total Amps:           |                     |                |                    |                  | 109 A                 |                                 |         |
| LOAD CLASSIFICATION   |                     | CONNECTED LOAD | DEMAND FACTOR      | ESTIMATED DEMAND |                       | TOTALS                          |         |
| RECEPT                |                     | 90900 VA       | 55.50%             | 50450 VA         |                       |                                 |         |
|                       |                     |                |                    |                  |                       | Total Conn. Load: 90900 VA      |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand: 50450 VA     |         |
|                       |                     |                |                    |                  |                       | Total Conn. Current: 109 A      |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand Current: 81 A |         |
| NOTES:                |                     |                |                    |                  |                       |                                 |         |

| Switchboard: DPH-LLC  |                     |                |                    |                  |                       |                                 |         |
|-----------------------|---------------------|----------------|--------------------|------------------|-----------------------|---------------------------------|---------|
| Location: BOILER C002 |                     |                | Volts: 480/277 Wye |                  | A.I.C. Rating: 65A/IC |                                 |         |
| Supply From: MSB-1A   |                     |                | Phases: 3          |                  | Main Type: MLO        |                                 |         |
| Mounting: Enclosure:  |                     |                | Wires: 4           |                  | Main Rating: 1200 A   |                                 |         |
|                       |                     |                |                    |                  | MCB Rating: 1200 A    |                                 |         |
| CKT                   | CIRCUIT DESCRIPTION |                | POLES              | FRAME            | TRIP                  | LOAD                            | REMARKS |
| 1                     | LPH42D              |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 2                     | LPH41L              |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 3                     | LPH41D              |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 4                     | LPH41K              |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 5                     | LPH41G              |                | 3                  | 400 A            | 400 A                 | 0 VA                            |         |
| 6                     | T-3E                |                | 3                  | 50 A             | 50 A                  | 8280 VA                         |         |
| 7                     | T4C                 |                | 3                  | 50 A             | 50 A                  | 7380 VA                         |         |
| 8                     | T4D                 |                | 3                  | 125 A            | 125 A                 | 0 VA                            |         |
| 9                     | T-3C                |                | 3                  | 50 A             | 50 A                  | 6660 VA                         |         |
| 10                    | SPARE               |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 11                    | SPARE               |                | 3                  | 225 A            | 225 A                 | 0 VA                            |         |
| 12                    |                     |                |                    |                  |                       |                                 |         |
| Total Conn. Load:     |                     |                |                    |                  |                       | 23200 VA                        |         |
| Total Amps:           |                     |                |                    |                  |                       | 27 A                            |         |
| LOAD CLASSIFICATION   |                     | CONNECTED LOAD | DEMAND FACTOR      | ESTIMATED DEMAND |                       | TOTALS                          |         |
| RECEPT                |                     | 23200 VA       | 72.40%             | 16160 VA         |                       | Total Conn. Load: 23200 VA      |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand: 16160 VA     |         |
|                       |                     |                |                    |                  |                       | Total Conn. Current: 27 A       |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand Current: 19 A |         |
| NOTES:                |                     |                |                    |                  |                       |                                 |         |

| Switchboard: DPH-LLD  |                     |                |                    |                  |                       |                                |         |
|-----------------------|---------------------|----------------|--------------------|------------------|-----------------------|--------------------------------|---------|
| Location: BOILER C002 |                     |                | Volts: 480/277 Wye |                  | A.I.C. Rating: 65A/IC |                                |         |
| Supply From: MSB-1A   |                     |                | Phases: 3          |                  | Main Type: MLO        |                                |         |
| Mounting: Enclosure:  |                     |                | Wires: 4           |                  | Main Rating: 1200 A   |                                |         |
|                       |                     |                |                    |                  | MCB Rating: 1200 A    |                                |         |
| CKT                   | CIRCUIT DESCRIPTION |                | POLES              | FRAME            | TRIP                  | LOAD                           | REMARKS |
| 1                     | LPH-1H              |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 2                     | LPH-1F              |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 3                     | LPH-1J              |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 4                     | LPH-LLD             |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 5                     | LPH-1E              |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 6                     | LPH-LLC             |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 7                     | LPH-LLB             |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 8                     | T-OC                |                | 3                  | 50 A             | 50 A                  | 6300 VA                        |         |
| 9                     | SPARE               |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| 10                    | SPARE               |                | 3                  | 225-A            | 225 A                 | 0 VA                           |         |
| Total Conn. Load:     |                     |                |                    |                  |                       | 6300 VA                        |         |
| Total Amps:           |                     |                |                    |                  |                       | 8 A                            |         |
| LOAD CLASSIFICATION   |                     | CONNECTED LOAD | DEMAND FACTOR      | ESTIMATED DEMAND |                       | TOTALS                         |         |
| RECEPT                |                     | 6300 VA        | 100.00%            | 6300 VA          |                       |                                |         |
|                       |                     |                |                    |                  |                       | Total Conn. Load: 6300 VA      |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand: 6300 VA     |         |
|                       |                     |                |                    |                  |                       | Total Conn. Current: 8 A       |         |
|                       |                     |                |                    |                  |                       | Total Est. Demand Current: 8 A |         |
| NOTES:                |                     |                |                    |                  |                       |                                |         |

| Panelboard: LPH-1L                                                       |        |            |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  |          |        |       |
|--------------------------------------------------------------------------|--------|------------|------------------|------|-----------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------------------------|-------------------------------------------------------------------------------|------------------|----------|--------|-------|
| Location: Supply From: DPH4LLC<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |            |                  |      | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                   |                   |                   |                                     | A.I.C. Rating: 42KA/IC<br>Main Type: MLO<br>Main Rating: 225 A<br>MCB Rating: |                  |          |        |       |
| Notes                                                                    | Wiring | CKt. No.   | Load Description | Trip | Poles                                                                       | LOAD PHASE-A (VA) | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles                               | Trip                                                                          | Load Description | CKt. No. | Wiring | Notes |
|                                                                          |        | K-3        |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-4      |        |       |
|                                                                          |        | K-5        |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-6      |        |       |
|                                                                          |        | K-7        |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-8      |        |       |
|                                                                          |        | K-9        |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-10     |        |       |
|                                                                          |        | K-11       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-12     |        |       |
|                                                                          |        | K-13       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-14     |        |       |
|                                                                          |        | K-15       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-16     |        |       |
|                                                                          |        | K-17       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-18     |        |       |
|                                                                          |        | K-19       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-20     |        |       |
|                                                                          |        | K-21       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-22     |        |       |
|                                                                          |        | K-23       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-24     |        |       |
|                                                                          |        | K-25       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-26     |        |       |
|                                                                          |        | K-27       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-28     |        |       |
|                                                                          |        | K-29       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-30     |        |       |
|                                                                          |        | K-31       |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  | K-32     |        |       |
| --                                                                       | --     | K-33 SPARE | 20 A 1           |      |                                                                             | 0 / 0             |                   |                   |                                     | 1                                                                             | 20 A SPARE       | K-34     | --     | --    |
| --                                                                       | --     | K-35 SPARE | 20 A 1           |      |                                                                             |                   |                   | 0 / 0             |                                     | 1                                                                             | 20 A SPARE       | K-36     | --     | --    |
| --                                                                       | --     | K-37 SPARE | 20 A 1           |      | 0 / 0                                                                       |                   |                   |                   |                                     |                                                                               |                  | K-38     |        |       |
| --                                                                       | --     | K-39 SPARE | 20 A 1           |      |                                                                             | 0 / 0             |                   |                   |                                     | 3                                                                             | 175 A T-1L       | K-40     |        |       |
| --                                                                       | --     | K-41 SPARE | 20 A 1           |      |                                                                             |                   |                   | 0 / 0             |                                     |                                                                               |                  | K-42     |        |       |
|                                                                          |        |            | Load Per...      |      |                                                                             | 0 VA              | 0 VA              | 0 VA              |                                     |                                                                               |                  |          |        |       |
| Load Classification                                                      |        |            |                  |      |                                                                             | Connected...      | Demand...         | Est. Demand       | Panel Totals                        |                                                                               |                  |          |        |       |
|                                                                          |        |            |                  |      |                                                                             |                   |                   |                   | TOTAL CONNECTED LOAD: 0 VA          |                                                                               |                  |          |        |       |
|                                                                          |        |            |                  |      |                                                                             |                   |                   |                   | TOTAL ESTIMATED DEMAND: 0 VA        |                                                                               |                  |          |        |       |
|                                                                          |        |            |                  |      |                                                                             |                   |                   |                   | TOTAL CONNECTED CURRENT: 0 A        |                                                                               |                  |          |        |       |
|                                                                          |        |            |                  |      |                                                                             |                   |                   |                   | TOTAL ESTIMATED DEMAND CURRENT: 0 A |                                                                               |                  |          |        |       |
| NOTES:                                                                   |        |            |                  |      |                                                                             |                   |                   |                   |                                     |                                                                               |                  |          |        |       |

| Panelboard: LPH-1D                                                        |        |          |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  |          |        |       |
|---------------------------------------------------------------------------|--------|----------|------------------|------|-----------------------------------------------------------------------------|-------------------------------------|-------------------|-------------------------------------------------------------------------------|--------------|-------|------------------|----------|--------|-------|
| Location: Supply From: DPH-LLC<br>Mounting: SURF-ACE<br>Enclosure: TYPE 1 |        |          |                  |      | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                                     |                   | A.I.C. Rating: 42KA/IC<br>Main Type: MLO<br>Main Rating: 225 A<br>MCB Rating: |              |       |                  |          |        |       |
| Notes                                                                     | Wiring | CKt. No. | Load Description | Trip | Poles                                                                       | LOAD PHASE-A (VA)                   | LOAD PHASE-B (VA) | LOAD PHASE-C (VA)                                                             | Poles        | Trip  | Load Description | CKt. No. | Wiring | Notes |
|                                                                           |        | L-1      |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-2      |        |       |
|                                                                           |        | L-3      |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-4      |        |       |
|                                                                           |        | L-5      |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-6      |        |       |
|                                                                           |        | L-7      |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-8      |        |       |
|                                                                           |        | L-9      |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-10     |        |       |
|                                                                           |        | L-11     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-12     |        |       |
|                                                                           |        | L-13     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-14     |        |       |
|                                                                           |        | L-15     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-16     |        |       |
|                                                                           |        | L-17     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-18     |        |       |
|                                                                           |        | L-19     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-20     |        |       |
|                                                                           |        | L-21     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-22     |        |       |
|                                                                           |        | L-23     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-24     |        |       |
|                                                                           |        | L-25     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-26     |        |       |
|                                                                           |        | L-27     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-28     |        |       |
|                                                                           |        | L-29     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-30     |        |       |
|                                                                           |        | L-31     |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  | L-32     |        |       |
| --                                                                        | --     | L-33     | SPARE            | 20 A | 1                                                                           | 0 / 0                               |                   |                                                                               | 1            | 20 A  | SPARE            | L-34     | --     | --    |
| --                                                                        | --     | L-35     | SPARE            | 20 A | 1                                                                           |                                     |                   | 0 / 0                                                                         | 1            | 20 A  | SPARE            | L-36     | --     | --    |
| --                                                                        | --     | L-37     | SPARE            | 20 A | 1                                                                           | 0 / 0                               |                   |                                                                               | 3            | 175 A | T-1D             | L-38     |        |       |
| --                                                                        | --     | L-39     | SPARE            | 20 A | 1                                                                           |                                     | 0 / 0             |                                                                               |              |       |                  | L-40     |        |       |
| --                                                                        | --     | L-41     | SPARE            | 20 A | 1                                                                           |                                     |                   | 0 / 0                                                                         |              |       |                  | L-42     |        |       |
|                                                                           |        |          | Load Per...      |      |                                                                             | 0 VA                                | 0 VA              | 0 VA                                                                          |              |       |                  |          |        |       |
| Load Classification                                                       |        |          |                  |      |                                                                             | Connected...                        | Demand...         | Est. Demand                                                                   | Panel Totals |       |                  |          |        |       |
|                                                                           |        |          |                  |      |                                                                             | TOTAL CONNECTED LOAD: 0 VA          |                   |                                                                               |              |       |                  |          |        |       |
|                                                                           |        |          |                  |      |                                                                             | TOTAL ESTIMATED DEMAND: 0 VA        |                   |                                                                               |              |       |                  |          |        |       |
|                                                                           |        |          |                  |      |                                                                             | TOTAL CONNECTED CURRENT: 0 A        |                   |                                                                               |              |       |                  |          |        |       |
|                                                                           |        |          |                  |      |                                                                             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |                   |                                                                               |              |       |                  |          |        |       |
| NOTES:                                                                    |        |          |                  |      |                                                                             |                                     |                   |                                                                               |              |       |                  |          |        |       |



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| Panelboard: LPH-1G                                                          |        |           |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  |                                     |        |       |  |  |
|-----------------------------------------------------------------------------|--------|-----------|------|------|-----------------------------------------------------------------------------|-------|--|-------|-------|--------------------------------------------------------------------------------------|--|---|-------|------------------|-------------------------------------|--------|-------|--|--|
| Location:<br>Supply From: DPH-LLC<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |           |      |      | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |       |  |       |       | A.I.C. Rating: 42kAIC<br>Mains Type: MCB<br>Mains Rating: 400 A<br>MCB Rating: 400 A |  |   |       |                  |                                     |        |       |  |  |
| Load Description                                                            |        |           |      |      | LOAD PHASE-A (VA)                                                           |       |  |       |       | LOAD PHASE-B (VA)                                                                    |  |   |       |                  | LOAD PHASE-C (VA)                   |        |       |  |  |
| Notes                                                                       | Wiring | Chk. No.  |      | Trip | Poles                                                                       |       |  |       |       |                                                                                      |  |   |       | Load Description | Chk. No.                            | Wiring | Notes |  |  |
|                                                                             |        | N1        |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N2                                  |        |       |  |  |
|                                                                             |        | N3        |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N4                                  |        |       |  |  |
|                                                                             |        | N5        |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N6                                  |        |       |  |  |
|                                                                             |        | N7        |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N8                                  |        |       |  |  |
|                                                                             |        | N9        |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N10                                 |        |       |  |  |
|                                                                             |        | N11       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N12                                 |        |       |  |  |
|                                                                             |        | N13       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N14                                 |        |       |  |  |
|                                                                             |        | N15       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N16                                 |        |       |  |  |
|                                                                             |        | N17       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N18                                 |        |       |  |  |
|                                                                             |        | N19       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N20                                 |        |       |  |  |
|                                                                             |        | N21       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N22                                 |        |       |  |  |
|                                                                             |        | N23       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N24                                 |        |       |  |  |
|                                                                             |        | N25       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N26                                 |        |       |  |  |
|                                                                             |        | N27       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N28                                 |        |       |  |  |
|                                                                             |        | N29       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N30                                 |        |       |  |  |
|                                                                             |        | N31       |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | N32                                 |        |       |  |  |
| --                                                                          | --     | N33 SPARE | 20 A | 1    |                                                                             |       |  | 0 / 0 |       |                                                                                      |  | 1 | 20 A  | SPARE            | N34                                 | --     | --    |  |  |
| --                                                                          | --     | N35 SPARE | 20 A | 1    |                                                                             |       |  |       | 0 / 0 |                                                                                      |  | 1 | 20 A  | SPARE            | N36                                 | --     | --    |  |  |
| --                                                                          | --     | N37 SPARE | 20 A | 1    |                                                                             | 0 / 0 |  |       |       |                                                                                      |  |   |       |                  | N38                                 |        |       |  |  |
| --                                                                          | --     | N39 SPARE | 20 A | 1    |                                                                             |       |  | 0 / 0 |       |                                                                                      |  | 3 | 350 A | T-1G             | N40                                 |        |       |  |  |
| --                                                                          | --     | N41 SPARE | 20 A | 1    |                                                                             |       |  |       |       | 0 / 0                                                                                |  |   |       |                  | N42                                 |        |       |  |  |
| Load Per...                                                                 |        |           | 0 VA |      |                                                                             | 0 VA  |  |       | 0 VA  |                                                                                      |  |   |       |                  |                                     |        |       |  |  |
| Load Classification                                                         |        |           |      |      | Connected...                                                                |       |  |       |       | Demand...                                                                            |  |   |       |                  | Est. Demand                         |        |       |  |  |
|                                                                             |        |           |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | Panel Totals                        |        |       |  |  |
|                                                                             |        |           |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | TOTAL CONNECTED LOAD: 0 VA          |        |       |  |  |
|                                                                             |        |           |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | TOTAL ESTIMATED DEMAND: 0 VA        |        |       |  |  |
|                                                                             |        |           |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | TOTAL CONNECTED CURRENT: 0 A        |        |       |  |  |
|                                                                             |        |           |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |        |       |  |  |
| NOTES:                                                                      |        |           |      |      |                                                                             |       |  |       |       |                                                                                      |  |   |       |                  |                                     |        |       |  |  |

| Panelboard: LPH-1K                                                          |        |           |                |       |                                                                             |                   |       |                   |             |                                                                                |       |                                     |        |       |
|-----------------------------------------------------------------------------|--------|-----------|----------------|-------|-----------------------------------------------------------------------------|-------------------|-------|-------------------|-------------|--------------------------------------------------------------------------------|-------|-------------------------------------|--------|-------|
| Location:<br>Supply From: DPH-LLC<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |           |                |       | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                   |       |                   |             | A.I.C. Rating: 42KAIC<br>Mains Type: MLO<br>Mains Rating: 225 A<br>MCB Rating: |       |                                     |        |       |
| Load Description                                                            |        |           | Modifications: |       |                                                                             | LOAD PHASE-A (VA) |       | LOAD PHASE-B (VA) |             | LOAD PHASE-C (VA)                                                              |       | Load Description                    |        |       |
| Notes                                                                       | Wiring | Chk. No.  | Trip           | Poles |                                                                             |                   |       |                   |             |                                                                                |       | Chk. No.                            | Wiring | Notes |
|                                                                             |        | M1        |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M2                                  |        |       |
|                                                                             |        | M3        |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M4                                  |        |       |
|                                                                             |        | M5        |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M6                                  |        |       |
|                                                                             |        | M7        |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M8                                  |        |       |
|                                                                             |        | M9        |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M10                                 |        |       |
|                                                                             |        | M11       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M12                                 |        |       |
|                                                                             |        | M13       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M14                                 |        |       |
|                                                                             |        | M15       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M16                                 |        |       |
|                                                                             |        | M17       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M18                                 |        |       |
|                                                                             |        | M19       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M20                                 |        |       |
|                                                                             |        | M21       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M22                                 |        |       |
|                                                                             |        | M23       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M24                                 |        |       |
|                                                                             |        | M25       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M26                                 |        |       |
|                                                                             |        | M27       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M28                                 |        |       |
|                                                                             |        | M29       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M30                                 |        |       |
|                                                                             |        | M31       |                |       |                                                                             |                   |       |                   |             |                                                                                |       | M32                                 |        |       |
| --                                                                          | --     | M33 SPARE | 20 A           | 1     |                                                                             |                   | 0 / 0 |                   |             | 1                                                                              | 20 A  | SPARE                               | M34    | --    |
| --                                                                          | --     | M35 SPARE | 20 A           | 1     |                                                                             |                   |       | 0 / 0             |             | 1                                                                              | 20 A  | SPARE                               | M36    | --    |
| --                                                                          | --     | M37 SPARE | 20 A           | 1     |                                                                             | 0 / 0             |       |                   |             |                                                                                |       |                                     | M38    |       |
| --                                                                          | --     | M39 SPARE | 20 A           | 1     |                                                                             |                   | 0 / 0 |                   |             | 3                                                                              | 175 A | T-1K                                | M40    |       |
| --                                                                          | --     | M41 SPARE | 20 A           | 1     |                                                                             |                   |       |                   | 0 / 0       |                                                                                |       |                                     | M42    |       |
| Load Per...                                                                 |        |           |                |       |                                                                             | 0 VA              |       | 0 VA              |             | 0 VA                                                                           |       |                                     |        |       |
| Load Classification                                                         |        |           | Connected...   |       |                                                                             | Demand...         |       |                   | Est. Demand |                                                                                |       | Panel Totals                        |        |       |
|                                                                             |        |           |                |       |                                                                             |                   |       |                   |             |                                                                                |       | TOTAL CONNECTED LOAD: 0 VA          |        |       |
|                                                                             |        |           |                |       |                                                                             |                   |       |                   |             |                                                                                |       | TOTAL ESTIMATED DEMAND: 0 VA        |        |       |
|                                                                             |        |           |                |       |                                                                             |                   |       |                   |             |                                                                                |       | TOTAL CONNECTED CURRENT: 0 A        |        |       |
|                                                                             |        |           |                |       |                                                                             |                   |       |                   |             |                                                                                |       | TOTAL ESTIMATED DEMAND CURRENT: 0 A |        |       |
| NOTES:                                                                      |        |           |                |       |                                                                             |                   |       |                   |             |                                                                                |       |                                     |        |       |

| Panelboard: LPH-3A                                                          |        |           |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       |       |
|-----------------------------------------------------------------------------|--------|-----------|----------------|-------|-----------------------------------------------------------------------------|-------------------|--|----------|-------------------|--------------------------------------------------------------------------------|--|--------------------------------------|-------|-------|
| Location:<br>Supply From: DPH-LLA<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |           |                |       | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                   |  |          |                   | A.I.C. Rating: 42kAIC<br>Mains Type: MLO<br>Mains Rating: 225 A<br>MCB Rating: |  |                                      |       |       |
| Load Description                                                            |        |           | Modifications: |       |                                                                             | LOAD PHASE-A (VA) |  |          | LOAD PHASE-B (VA) |                                                                                |  | LOAD PHASE-C (VA)                    |       |       |
| Notes                                                                       | Wiring | Chk. No.  | Trip           | Poles |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | Notes |
|                                                                             |        | D1        |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D2    |
|                                                                             |        | D3        |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D4    |
|                                                                             |        | D5        |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D6    |
|                                                                             |        | D7        |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D8    |
|                                                                             |        | D9        |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D10   |
|                                                                             |        | D11       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D12   |
|                                                                             |        | D13       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D14   |
|                                                                             |        | D15       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D16   |
|                                                                             |        | D17       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D18   |
|                                                                             |        | D19       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D20   |
|                                                                             |        | D21       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D22   |
|                                                                             |        | D23       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D24   |
|                                                                             |        | D25       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D26   |
|                                                                             |        | D27       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D28   |
|                                                                             |        | D29       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D30   |
|                                                                             |        | D31       |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       | D32   |
| --                                                                          | --     | D33 SPARE | 20 A           | 1     |                                                                             |                   |  | 0 / 0    |                   |                                                                                |  | 1                                    | 20 A  | SPARE |
| --                                                                          | --     | D35 SPARE | 20 A           | 1     |                                                                             |                   |  |          | 0 / 0             |                                                                                |  | 1                                    | 20 A  | SPARE |
| --                                                                          | --     | D37 SPARE | 20 A           | 1     |                                                                             | 0 / 11340         |  |          |                   |                                                                                |  |                                      |       | D38   |
| --                                                                          | --     | D39 SPARE | 20 A           | 1     |                                                                             |                   |  | 0 / 9360 |                   |                                                                                |  | 3                                    | 175 A | T-3A  |
| --                                                                          | --     | D41 SPARE | 20 A           | 1     |                                                                             |                   |  |          |                   | 0 / 9540                                                                       |  |                                      |       | D42   |
| Load Per...                                                                 |        |           | 11340 VA       |       |                                                                             | 3360 VA           |  |          | 9540 VA           |                                                                                |  |                                      |       |       |
| Load Classification                                                         |        |           | Connected...   |       |                                                                             | Demand...         |  |          | Est. Demand       |                                                                                |  | Panel Totals                         |       |       |
| RECEPT                                                                      |        |           | 3040 VA        |       |                                                                             | 66.55%            |  |          | 2020 VA           |                                                                                |  | TOTAL CONNECTED LOAD: 3040 VA        |       |       |
|                                                                             |        |           |                |       |                                                                             |                   |  |          |                   |                                                                                |  | TOTAL ESTIMATED DEMAND: 2020 VA      |       |       |
|                                                                             |        |           |                |       |                                                                             |                   |  |          |                   |                                                                                |  | TOTAL CONNECTED CURRENT: 36 A        |       |       |
|                                                                             |        |           |                |       |                                                                             |                   |  |          |                   |                                                                                |  | TOTAL ESTIMATED DEMAND CURRENT: 24 A |       |       |
| NOTES:                                                                      |        |           |                |       |                                                                             |                   |  |          |                   |                                                                                |  |                                      |       |       |

| Panelboard: LPH-1H                                                          |        |          |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  |          |        |       |
|-----------------------------------------------------------------------------|--------|----------|------------------|------|-----------------------------------------------------------------------------|-------------------------------------|-------------------|-------------------|--------------|--------------------------------------------------------------------------------------|------------------|----------|--------|-------|
| Location:<br>Supply From: DPH-LLD<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |      | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                                     |                   |                   |              | A.I.C. Rating: 42kAIC<br>Mains Type: MCB<br>Mains Rating: 400 A<br>MCB Rating: 400 A |                  |          |        |       |
| Notes                                                                       | Wiring | Chk. No. | Load Description | Trip | Poles                                                                       | LOAD PHASE-A (VA)                   | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles        | Trip                                                                                 | Load Description | Chk. No. | Wiring | Notes |
|                                                                             |        | S1       |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S2       |        |       |
|                                                                             |        | S3       |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S4       |        |       |
|                                                                             |        | S5       |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S6       |        |       |
|                                                                             |        | S7       |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S8       |        |       |
|                                                                             |        | S9       |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S10      |        |       |
|                                                                             |        | S11      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S12      |        |       |
|                                                                             |        | S13      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S14      |        |       |
|                                                                             |        | S15      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S16      |        |       |
|                                                                             |        | S17      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S18      |        |       |
|                                                                             |        | S19      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S20      |        |       |
|                                                                             |        | S21      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S22      |        |       |
|                                                                             |        | S23      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S24      |        |       |
|                                                                             |        | S25      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S26      |        |       |
|                                                                             |        | S27      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S28      |        |       |
|                                                                             |        | S29      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S30      |        |       |
|                                                                             |        | S31      |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  | S32      |        |       |
| --                                                                          | --     | S33      | SPARE            | 20 A | 1                                                                           |                                     | 0 / 0             |                   | 1            | 20 A                                                                                 | SPARE            | S34      | --     | --    |
| --                                                                          | --     | S35      | SPARE            | 20 A | 1                                                                           |                                     |                   | 0 / 0             | 1            | 20 A                                                                                 | SPARE            | S36      | --     | --    |
| --                                                                          | --     | S37      | SPARE            | 20 A | 1                                                                           | 0 / 0                               |                   |                   |              |                                                                                      |                  | S38      |        |       |
| --                                                                          | --     | S39      | SPARE            | 20 A | 1                                                                           |                                     | 0 / 0             |                   | 3            | 350 A                                                                                | 1-1H             | S39      |        |       |
| --                                                                          | --     | S41      | SPARE            | 20 A | 1                                                                           |                                     |                   | 0 / 0             |              |                                                                                      |                  | S42      |        |       |
|                                                                             |        |          | Load Per...      |      |                                                                             | 0 VA                                | 0 VA              | 0 VA              |              |                                                                                      |                  |          |        |       |
| Load Classification                                                         |        |          |                  |      |                                                                             | Connected...                        | Demand...         | Est. Demand       | Panel Totals |                                                                                      |                  |          |        |       |
|                                                                             |        |          |                  |      |                                                                             | TOTAL CONNECTED LOAD: 0 VA          |                   |                   |              |                                                                                      |                  |          |        |       |
|                                                                             |        |          |                  |      |                                                                             | TOTAL ESTIMATED DEMAND: 0 VA        |                   |                   |              |                                                                                      |                  |          |        |       |
|                                                                             |        |          |                  |      |                                                                             | TOTAL CONNECTED CURRENT: 0 A        |                   |                   |              |                                                                                      |                  |          |        |       |
|                                                                             |        |          |                  |      |                                                                             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |                   |                   |              |                                                                                      |                  |          |        |       |
| NOTES:                                                                      |        |          |                  |      |                                                                             |                                     |                   |                   |              |                                                                                      |                  |          |        |       |



| Panelboard: LPH-4B                                                          |        |          |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|-----------------------------------------------------------------------------|--------|----------|------------------|-----------|-----------------------------------------------------------------------------|--------------------------------------|-------------------|-------------------|-------|--------------------------------------------------------------------------------|------------------|----------|--------|-------|--|--|--|--|--|--|
| Location:<br>Supply From: DPH-LLB<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |           | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                                      |                   |                   |       | A.I.C. Rating: 42kAIC<br>Mains Type: MLO<br>Mains Rating: 225 A<br>MCB Rating: |                  |          |        |       |  |  |  |  |  |  |
| Notes                                                                       | Wiring | Ckt. No. | Load Description | Trip      | Poles                                                                       | LOAD PHASE-A (VA)                    | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip                                                                           | Load Description | Ckt. No. | Wiring | Notes |  |  |  |  |  |  |
|                                                                             |        | J1       |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J2       |        |       |  |  |  |  |  |  |
|                                                                             |        | J3       |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J4       |        |       |  |  |  |  |  |  |
|                                                                             |        | J5       |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J6       |        |       |  |  |  |  |  |  |
|                                                                             |        | J7       |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J8       |        |       |  |  |  |  |  |  |
|                                                                             |        | J9       |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J10      |        |       |  |  |  |  |  |  |
|                                                                             |        | J11      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J12      |        |       |  |  |  |  |  |  |
|                                                                             |        | J13      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J14      |        |       |  |  |  |  |  |  |
|                                                                             |        | J15      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J16      |        |       |  |  |  |  |  |  |
|                                                                             |        | J17      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J18      |        |       |  |  |  |  |  |  |
|                                                                             |        | J19      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J20      |        |       |  |  |  |  |  |  |
|                                                                             |        | J21      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J22      |        |       |  |  |  |  |  |  |
|                                                                             |        | J23      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J24      |        |       |  |  |  |  |  |  |
|                                                                             |        | J25      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J26      |        |       |  |  |  |  |  |  |
|                                                                             |        | J27      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J28      |        |       |  |  |  |  |  |  |
|                                                                             |        | J29      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J30      |        |       |  |  |  |  |  |  |
|                                                                             |        | J31      |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  | J32      |        |       |  |  |  |  |  |  |
| --                                                                          | --     | J33      | SPARE            | 20 A      | 1                                                                           |                                      | 0 / 0             |                   | 1     | 20 A                                                                           | SPARE            | J34      | --     | --    |  |  |  |  |  |  |
| --                                                                          | --     | J35      | SPARE            | 20 A      | 1                                                                           |                                      |                   | 0 / 0             | 1     | 20 A                                                                           | SPARE            | J36      | --     | --    |  |  |  |  |  |  |
| --                                                                          | --     | J37      | SPARE            | 20 A      | 1                                                                           | 0 / 11340                            |                   |                   |       |                                                                                |                  | J38      |        |       |  |  |  |  |  |  |
| --                                                                          | --     | J39      | SPARE            | 20 A      | 1                                                                           |                                      | 0 / 9720          |                   |       |                                                                                |                  | J40      |        |       |  |  |  |  |  |  |
| --                                                                          | --     | J41      | SPARE            | 20 A      | 1                                                                           |                                      |                   | 0 / 6840          |       |                                                                                |                  | J42      |        |       |  |  |  |  |  |  |
| Load Per...                                                                 |        |          |                  |           |                                                                             | 11340 VA                             | 9720 VA           | 6840 VA           |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
| Load Classification                                                         |        |          | Connected...     | Demand... | Est. Demand                                                                 | Panel Totals                         |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
| RECEPT                                                                      |        |          | 27900 VA         | 67.92%    | 19560 VA                                                                    | TOTAL CONNECTED LOAD: 27900 VA       |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|                                                                             |        |          |                  |           |                                                                             | TOTAL ESTIMATED DEMAND: 19560 VA     |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|                                                                             |        |          |                  |           |                                                                             | TOTAL CONNECTED CURRENT: 34 A        |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|                                                                             |        |          |                  |           |                                                                             | TOTAL ESTIMATED DEMAND CURRENT: 23 A |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
| NOTES:                                                                      |        |          |                  |           |                                                                             |                                      |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |

| Panelboard: LPH-LLC                                                         |        |          |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  |          |        |       |              |  |  |  |  |  |
|-----------------------------------------------------------------------------|--------|----------|------------------|------|-----------------------------------------------------------------------------|-------------------------------------|-------------------|-------------------|-------|--------------------------------------------------------------------------------|------------------|----------|--------|-------|--------------|--|--|--|--|--|
| Location:<br>Supply From: DPH-LLD<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |      | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                                     |                   |                   |       | A.I.C. Rating: 42kAIC<br>Mains Type: MLO<br>Mains Rating: 225 A<br>MCB Rating: |                  |          |        |       |              |  |  |  |  |  |
| Notes                                                                       | Wiring | Ckt. No. | Load Description | Trip | Poles                                                                       | LOAD PHASE-A (VA)                   | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip                                                                           | Load Description | Ckt. No. | Wiring | Notes |              |  |  |  |  |  |
|                                                                             |        | V1       |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V2       |        |       |              |  |  |  |  |  |
|                                                                             |        | V3       |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V4       |        |       |              |  |  |  |  |  |
|                                                                             |        | V5       |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V6       |        |       |              |  |  |  |  |  |
|                                                                             |        | V7       |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V8       |        |       |              |  |  |  |  |  |
|                                                                             |        | V9       |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V10      |        |       |              |  |  |  |  |  |
|                                                                             |        | V11      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V12      |        |       |              |  |  |  |  |  |
|                                                                             |        | V13      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V14      |        |       |              |  |  |  |  |  |
|                                                                             |        | V15      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V16      |        |       |              |  |  |  |  |  |
|                                                                             |        | V17      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V18      |        |       |              |  |  |  |  |  |
|                                                                             |        | V19      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V20      |        |       |              |  |  |  |  |  |
|                                                                             |        | V21      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V22      |        |       |              |  |  |  |  |  |
|                                                                             |        | V23      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V24      |        |       |              |  |  |  |  |  |
|                                                                             |        | V25      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V26      |        |       |              |  |  |  |  |  |
|                                                                             |        | V27      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V28      |        |       |              |  |  |  |  |  |
|                                                                             |        | V29      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V30      |        |       |              |  |  |  |  |  |
|                                                                             |        | V31      |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  | V32      |        |       |              |  |  |  |  |  |
| --                                                                          | --     | V33      | SPARE            | 20 A | 1                                                                           |                                     | 0 / 0             |                   | 1     | 20 A                                                                           | SPARE            | V34      | --     | --    |              |  |  |  |  |  |
| --                                                                          | --     | V35      | SPARE            | 20 A | 1                                                                           |                                     |                   | 0 / 0             | 1     | 20 A                                                                           | SPARE            | V36      | --     | --    |              |  |  |  |  |  |
| --                                                                          | --     | V37      | SPARE            | 20 A | 1                                                                           | 0 / 0                               |                   |                   |       |                                                                                |                  | V38      | --     | --    |              |  |  |  |  |  |
| --                                                                          | --     | V39      | SPARE            | 20 A | 1                                                                           |                                     | 0 / 0             |                   | 3     | 175 A                                                                          | T-LLC            | V40      |        |       |              |  |  |  |  |  |
| --                                                                          | --     | V41      | SPARE            | 20 A | 1                                                                           |                                     |                   | 0 / 0             |       |                                                                                |                  | V42      |        |       |              |  |  |  |  |  |
| Load Per...                                                                 |        |          |                  |      |                                                                             | 0 VA                                | 0 VA              | 0 VA              |       |                                                                                |                  |          |        |       |              |  |  |  |  |  |
| Load Classification                                                         |        |          |                  |      |                                                                             | Connected...                        | Demand...         | Est. Demand       |       |                                                                                |                  |          |        |       | Panel Totals |  |  |  |  |  |
|                                                                             |        |          |                  |      |                                                                             | TOTAL CONNECTED LOAD: 0 VA          |                   |                   |       |                                                                                |                  |          |        |       |              |  |  |  |  |  |
|                                                                             |        |          |                  |      |                                                                             | TOTAL ESTIMATED DEMAND: 0 VA        |                   |                   |       |                                                                                |                  |          |        |       |              |  |  |  |  |  |
|                                                                             |        |          |                  |      |                                                                             | TOTAL CONNECTED CURRENT: 0 A        |                   |                   |       |                                                                                |                  |          |        |       |              |  |  |  |  |  |
|                                                                             |        |          |                  |      |                                                                             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |                   |                   |       |                                                                                |                  |          |        |       |              |  |  |  |  |  |
| NOTES:                                                                      |        |          |                  |      |                                                                             |                                     |                   |                   |       |                                                                                |                  |          |        |       |              |  |  |  |  |  |

| Panelboard: LPH-LLD                                                         |        |          |                  |      |       |                                                                             |                   |                   |       |       |                  |                                                                                |        |       |              |  |  |  |  |  |
|-----------------------------------------------------------------------------|--------|----------|------------------|------|-------|-----------------------------------------------------------------------------|-------------------|-------------------|-------|-------|------------------|--------------------------------------------------------------------------------|--------|-------|--------------|--|--|--|--|--|
| Location:<br>Supply From: DPH-LLD<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |      |       | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                   |                   |       |       |                  | A.I.C. Rating: 42kAIC<br>Mains Type: MLO<br>Mains Rating: 225 A<br>MCB Rating: |        |       |              |  |  |  |  |  |
| Notes                                                                       | Wiring | Ckt. No. | Load Description | Trip | Poles | LOAD PHASE-A (VA)                                                           | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip  | Load Description | Ckt. No.                                                                       | Wiring | Notes |              |  |  |  |  |  |
|                                                                             |        | W3       |                  |      |       |                                                                             |                   |                   |       |       |                  | W2                                                                             |        |       |              |  |  |  |  |  |
|                                                                             |        | W5       |                  |      |       |                                                                             |                   |                   |       |       |                  | W4                                                                             |        |       |              |  |  |  |  |  |
|                                                                             |        | W7       |                  |      |       |                                                                             |                   |                   |       |       |                  | W6                                                                             |        |       |              |  |  |  |  |  |
|                                                                             |        | W9       |                  |      |       |                                                                             |                   |                   |       |       |                  | W8                                                                             |        |       |              |  |  |  |  |  |
|                                                                             |        | W11      |                  |      |       |                                                                             |                   |                   |       |       |                  | W10                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W13      |                  |      |       |                                                                             |                   |                   |       |       |                  | W12                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W15      |                  |      |       |                                                                             |                   |                   |       |       |                  | W14                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W17      |                  |      |       |                                                                             |                   |                   |       |       |                  | W16                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W19      |                  |      |       |                                                                             |                   |                   |       |       |                  | W18                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W21      |                  |      |       |                                                                             |                   |                   |       |       |                  | W20                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W23      |                  |      |       |                                                                             |                   |                   |       |       |                  | W22                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W25      |                  |      |       |                                                                             |                   |                   |       |       |                  | W24                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W27      |                  |      |       |                                                                             |                   |                   |       |       |                  | W26                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W29      |                  |      |       |                                                                             |                   |                   |       |       |                  | W28                                                                            |        |       |              |  |  |  |  |  |
|                                                                             |        | W31      |                  |      |       |                                                                             |                   |                   |       |       |                  | W30                                                                            |        |       |              |  |  |  |  |  |
| --                                                                          | --     | W33      | SPARE            | 20 A | 1     |                                                                             | 0 / 0             |                   | 1     | 20 A  | SPARE            | W34                                                                            | --     | --    |              |  |  |  |  |  |
| --                                                                          | --     | W35      | SPARE            | 20 A | 1     |                                                                             |                   | 0 / 0             | 1     | 20 A  | SPARE            | W36                                                                            | --     | --    |              |  |  |  |  |  |
| --                                                                          | --     | W37      | SPARE            | 20 A | 1     | 0 / 0                                                                       |                   |                   |       |       |                  | W38                                                                            | --     | --    |              |  |  |  |  |  |
| --                                                                          | --     | W39      | SPARE            | 20 A | 1     |                                                                             | 0 / 0             |                   | 3     | 175 A | T-LLD            | W40                                                                            |        |       |              |  |  |  |  |  |
| --                                                                          | --     | W41      | SPARE            | 20 A | 1     |                                                                             |                   | 0 / 0             |       |       |                  | W42                                                                            |        |       |              |  |  |  |  |  |
| Load Per...                                                                 |        |          |                  |      |       | 0 VA                                                                        | 0 VA              | 0 VA              |       |       |                  |                                                                                |        |       |              |  |  |  |  |  |
| Load Classification                                                         |        |          |                  |      |       | Connected...                                                                | Demand...         | Est. Demand       |       |       |                  |                                                                                |        |       | Panel Totals |  |  |  |  |  |
|                                                                             |        |          |                  |      |       | TOTAL CONNECTED LOAD: 0 VA                                                  |                   |                   |       |       |                  |                                                                                |        |       |              |  |  |  |  |  |
|                                                                             |        |          |                  |      |       | TOTAL ESTIMATED DEMAND: 0 VA                                                |                   |                   |       |       |                  |                                                                                |        |       |              |  |  |  |  |  |
|                                                                             |        |          |                  |      |       | TOTAL CONNECTED CURRENT: 0 A                                                |                   |                   |       |       |                  |                                                                                |        |       |              |  |  |  |  |  |
|                                                                             |        |          |                  |      |       | TOTAL ESTIMATED DEMAND CURRENT: 0 A                                         |                   |                   |       |       |                  |                                                                                |        |       |              |  |  |  |  |  |
| NOTES:                                                                      |        |          |                  |      |       |                                                                             |                   |                   |       |       |                  |                                                                                |        |       |              |  |  |  |  |  |

| Panelboard: LPH-LLB                                                         |        |          |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|-----------------------------------------------------------------------------|--------|----------|------------------|-----------|-----------------------------------------------------------------------------|-------------------------------------|-------------------|-------------------|-------|--------------------------------------------------------------------------------|------------------|----------|--------|-------|--|--|--|--|--|--|
| Location:<br>Supply From: DPH-LLD<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |           | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                                     |                   |                   |       | A.I.C. Rating: 42kAIC<br>Mains Type: MLO<br>Mains Rating: 225 A<br>MCB Rating: |                  |          |        |       |  |  |  |  |  |  |
| Notes                                                                       | Wiring | Ckt. No. | Load Description | Trip      | Poles                                                                       | LOAD PHASE-A (VA)                   | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip                                                                           | Load Description | Ckt. No. | Wiring | Notes |  |  |  |  |  |  |
|                                                                             |        | U1       |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U2       |        |       |  |  |  |  |  |  |
|                                                                             |        | U3       |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U4       |        |       |  |  |  |  |  |  |
|                                                                             |        | U5       |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U6       |        |       |  |  |  |  |  |  |
|                                                                             |        | U7       |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U8       |        |       |  |  |  |  |  |  |
|                                                                             |        | U9       |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U10      |        |       |  |  |  |  |  |  |
|                                                                             |        | U11      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U12      |        |       |  |  |  |  |  |  |
|                                                                             |        | U13      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U14      |        |       |  |  |  |  |  |  |
|                                                                             |        | U15      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U16      |        |       |  |  |  |  |  |  |
|                                                                             |        | U17      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U18      |        |       |  |  |  |  |  |  |
|                                                                             |        | U19      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U20      |        |       |  |  |  |  |  |  |
|                                                                             |        | U21      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U22      |        |       |  |  |  |  |  |  |
|                                                                             |        | U23      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U24      |        |       |  |  |  |  |  |  |
|                                                                             |        | U25      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U26      |        |       |  |  |  |  |  |  |
|                                                                             |        | U27      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U28      |        |       |  |  |  |  |  |  |
|                                                                             |        | U29      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U30      |        |       |  |  |  |  |  |  |
|                                                                             |        | U31      |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  | U32      |        |       |  |  |  |  |  |  |
| --                                                                          | --     | U33      | SPARE            | 20 A      | 1                                                                           |                                     | 0 / 0             |                   | 1     | 20 A                                                                           | SPARE            | U34      | --     | --    |  |  |  |  |  |  |
| --                                                                          | --     | U35      | SPARE            | 20 A      | 1                                                                           |                                     |                   | 0 / 0             | 1     | 20 A                                                                           | SPARE            | U36      | --     | --    |  |  |  |  |  |  |
| --                                                                          | --     | U37      | SPARE            | 20 A      | 1                                                                           | 0 / 0                               |                   |                   |       |                                                                                |                  | U38      |        |       |  |  |  |  |  |  |
| --                                                                          | --     | U39      | SPARE            | 20 A      | 1                                                                           |                                     | 0 / 0             |                   |       |                                                                                |                  | U40      |        |       |  |  |  |  |  |  |
| --                                                                          | --     | U41      | SPARE            | 20 A      | 1                                                                           |                                     |                   | 0 / 0             |       |                                                                                |                  | U42      |        |       |  |  |  |  |  |  |
| Load Per...                                                                 |        |          |                  |           |                                                                             | 0 VA                                | 0 VA              | 0 VA              |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
| Load Classification                                                         |        |          | Connected...     | Demand... | Est. Demand                                                                 | Panel Totals                        |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|                                                                             |        |          |                  |           |                                                                             | TOTAL CONNECTED LOAD: 0 VA          |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|                                                                             |        |          |                  |           |                                                                             | TOTAL ESTIMATED DEMAND: 0 VA        |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|                                                                             |        |          |                  |           |                                                                             | TOTAL CONNECTED CURRENT: 0 A        |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
|                                                                             |        |          |                  |           |                                                                             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |
| NOTES:                                                                      |        |          |                  |           |                                                                             |                                     |                   |                   |       |                                                                                |                  |          |        |       |  |  |  |  |  |  |

| Panelboard: LPH-LLA |  |  |
|---------------------|--|--|
|---------------------|--|--|



| Panelboard: LP-1A                                                        |        |          |                  |      |       |                                                                             |           |             |       |                                                                                |                  |                                     |        |
|--------------------------------------------------------------------------|--------|----------|------------------|------|-------|-----------------------------------------------------------------------------|-----------|-------------|-------|--------------------------------------------------------------------------------|------------------|-------------------------------------|--------|
| Location:<br>Supply From: T-1A<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |      |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |           |             |       | A.I.C. Rating: 10kAIC<br>Mains Type: MLO<br>Mains Rating: 400 A<br>MCB Rating: |                  |                                     |        |
| Notes                                                                    | Wiring | Ckt. No. | Load Description | Trip | Poles | A                                                                           | B         | C           | Poles | Trip                                                                           | Load Description | Ckt. No.                            | Wiring |
|                                                                          |        | AB.1     |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.2                                |        |
|                                                                          |        | AB.3     |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.4                                |        |
|                                                                          |        | AB.5     |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.6                                |        |
|                                                                          |        | AB.7     |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.8                                |        |
|                                                                          |        | AB.9     |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.10                               |        |
|                                                                          |        | AB.11    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.12                               |        |
|                                                                          |        | AB.13    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.14                               |        |
|                                                                          |        | AB.15    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.16                               |        |
|                                                                          |        | AB.17    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.18                               |        |
|                                                                          |        | AB.19    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.20                               |        |
|                                                                          |        | AB.21    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.22                               |        |
|                                                                          |        | AB.23    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.24                               |        |
|                                                                          |        | AB.25    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.26                               |        |
|                                                                          |        | AB.27    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.28                               |        |
|                                                                          |        | AB.29    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.30                               |        |
|                                                                          |        | AB.31    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.32                               |        |
|                                                                          |        | AB.33    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.34                               |        |
|                                                                          |        | AB.35    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.36                               |        |
|                                                                          |        | AB.37    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.38                               |        |
|                                                                          |        | AB.39    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.40                               |        |
|                                                                          |        | AB.41    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.42                               |        |
|                                                                          |        | AB.43    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.44                               |        |
|                                                                          |        | AB.45    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.46                               |        |
|                                                                          |        | AB.47    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.48                               |        |
|                                                                          |        | AB.49    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.50                               |        |
|                                                                          |        | AB.51    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.52                               |        |
|                                                                          |        | AB.53    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.54                               |        |
|                                                                          |        | AB.55    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.56                               |        |
|                                                                          |        | AB.57    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.58                               |        |
|                                                                          |        | AB.59    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.60                               |        |
|                                                                          |        | AB.61    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.62                               |        |
|                                                                          |        | AB.63    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.64                               |        |
|                                                                          |        | AB.65    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.66                               |        |
|                                                                          |        | AB.67    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.68                               |        |
|                                                                          |        | AB.69    |                  |      |       |                                                                             |           |             |       |                                                                                |                  | AB.70                               |        |
| --                                                                       | --     | AB.71    | SPARE            | 2    | 1     | 0 / 0                                                                       |           |             | 1     | 20 A                                                                           | SPARE            | AB.72                               | -- --  |
| --                                                                       | --     | AB.73    | SPARE            | 2    | 1     |                                                                             | 0 / 0     |             | 1     | 20 A                                                                           | SPARE            | AB.74                               | -- --  |
| --                                                                       | --     | AB.75    | SPARE            | 2    | 1     |                                                                             |           | 0 / 0       | 1     | 20 A                                                                           | SPARE            | AB.76                               | -- --  |
| --                                                                       | --     | AB.77    | SPARE            | 2    | 1     | 0 / 0                                                                       |           |             | 1     | 20 A                                                                           | SPARE            | AB.78                               | -- --  |
| --                                                                       | --     | AB.79    | SPARE            | 2    | 1     |                                                                             |           | 0 / 0       | 1     | 20 A                                                                           | SPARE            | AB.80                               | -- --  |
| --                                                                       | --     | AB.81    | SPARE            | 2    | 1     |                                                                             | 0 / 0     |             | 1     | 20 A                                                                           | SPARE            | AB.82                               | -- --  |
| --                                                                       | --     | AB.83    | SPARE            | 2    | 1     |                                                                             |           | 0 / 0       | 1     | 20 A                                                                           | SPARE            | AB.84                               | -- --  |
| Load Per...                                                              |        |          |                  |      |       | 0 VA                                                                        |           | 0 VA        |       |                                                                                |                  |                                     |        |
| Load Classification                                                      |        |          |                  |      |       | Connected...                                                                | Demand... | Est. Demand |       | Panel Totals                                                                   |                  |                                     |        |
|                                                                          |        |          |                  |      |       |                                                                             |           |             |       |                                                                                |                  | TOTAL CONNECTED LOAD: 0 VA          |        |
|                                                                          |        |          |                  |      |       |                                                                             |           |             |       |                                                                                |                  | TOTAL ESTIMATED DEMAND: 0 VA        |        |
|                                                                          |        |          |                  |      |       |                                                                             |           |             |       |                                                                                |                  | TOTAL CONNECTED CURRENT: 0 A        |        |
|                                                                          |        |          |                  |      |       |                                                                             |           |             |       |                                                                                |                  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |        |
| NOTES:                                                                   |        |          |                  |      |       |                                                                             |           |             |       |                                                                                |                  |                                     |        |

| Panelboard: LP-1B                                                        |        |          |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  |          |        |
|--------------------------------------------------------------------------|--------|----------|------------------|------|-------|-----------------------------------------------------------------------------|-------------------|-------------------|-------|--------------------------------------------------------------------------------|------------------|----------|--------|
| Location:<br>Supply From: T-1B<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |      |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                   |                   |       | A.I.C. Rating: 10kAIC<br>Mains Type: MLO<br>Mains Rating: 400 A<br>MCB Rating: |                  |          |        |
| Notes                                                                    | Wiring | Ckt. No. | Load Description | Trip | Poles | LOAD PHASE-A (VA)                                                           | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip                                                                           | Load Description | Ckt. No. | Wiring |
|                                                                          |        | AH1      |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH2      |        |
|                                                                          |        | AH3      |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH4      |        |
|                                                                          |        | AH5      |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH6      |        |
|                                                                          |        | AH7      |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH8      |        |
|                                                                          |        | AH9      |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH10     |        |
|                                                                          |        | AH11     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH12     |        |
|                                                                          |        | AH13     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH14     |        |
|                                                                          |        | AH15     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH16     |        |
|                                                                          |        | AH17     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH18     |        |
|                                                                          |        | AH19     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH20     |        |
|                                                                          |        | AH21     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH22     |        |
|                                                                          |        | AH23     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH24     |        |
|                                                                          |        | AH25     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH26     |        |
|                                                                          |        | AH27     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH28     |        |
|                                                                          |        | AH29     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH30     |        |
|                                                                          |        | AH31     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH32     |        |
|                                                                          |        | AH33     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH34     |        |
|                                                                          |        | AH35     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH36     |        |
|                                                                          |        | AH37     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH38     |        |
|                                                                          |        | AH39     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH40     |        |
|                                                                          |        | AH41     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH42     |        |
|                                                                          |        | AH43     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH44     |        |
|                                                                          |        | AH45     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH46     |        |
|                                                                          |        | AH47     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH48     |        |
|                                                                          |        | AH49     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH50     |        |
|                                                                          |        | AH51     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH52     |        |
|                                                                          |        | AH53     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH54     |        |
|                                                                          |        | AH55     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH56     |        |
|                                                                          |        | AH57     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH58     |        |
|                                                                          |        | AH59     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH60     |        |
|                                                                          |        | AH61     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH62     |        |
|                                                                          |        | AH63     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH64     |        |
|                                                                          |        | AH65     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH66     |        |
|                                                                          |        | AH67     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH68     |        |
|                                                                          |        | AH69     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH70     |        |
|                                                                          |        | AH71     |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | AH72     |        |
| --                                                                       | --     | AH73     | SPARE            | 20 A | 1     | 0 / 0                                                                       |                   |                   | 1     | 20 A                                                                           | SPARE            | AH74     | --     |
| --                                                                       | --     | AH75     | SPARE            | 20 A | 1     |                                                                             | 0 / 0             |                   | 1     | 20 A                                                                           | SPARE            | AH76     | --     |
| --                                                                       | --     | AH77     | SPARE            | 20 A | 1     |                                                                             |                   | 0 / 0             | 1     | 20 A                                                                           | SPARE            | AH78     | --     |
| --                                                                       | --     | AH79     | SPARE            | 20 A | 1     | 0 / 0                                                                       |                   |                   | 1     | 20 A                                                                           | SPARE            | AH80     | --     |
| --                                                                       | --     | AH81     | SPARE            | 20 A | 1     |                                                                             | 0 / 0             |                   | 1     | 20 A                                                                           | SPARE            | AH82     | --     |
| --                                                                       | --     | AH83     | SPARE            | 20 A | 1     |                                                                             |                   | 0 / 0             | 1     | 20 A                                                                           | SPARE            | AH84     | --     |
| Load Per...                                                              |        |          |                  |      |       | 0 VA                                                                        | 0 VA              | 0 VA              |       |                                                                                |                  |          |        |
| Load Classification                                                      |        |          |                  |      |       | Connected...                                                                | Demand...         | Est. Demand       |       | Panel Totals                                                                   |                  |          |        |
|                                                                          |        |          |                  |      |       |                                                                             |                   |                   |       | TOTAL CONNECTED LOAD: 0 VA                                                     |                  |          |        |
|                                                                          |        |          |                  |      |       |                                                                             |                   |                   |       | TOTAL ESTIMATED DEMAND: 0 VA                                                   |                  |          |        |
|                                                                          |        |          |                  |      |       |                                                                             |                   |                   |       | TOTAL CONNECTED CURRENT: 0 A                                                   |                  |          |        |
|                                                                          |        |          |                  |      |       |                                                                             |                   |                   |       | TOTAL ESTIMATED DEMAND CURRENT: 0 A                                            |                  |          |        |
| NOTES:                                                                   |        |          |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  |          |        |

| Panelboard: LP-1L                                                        |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|--------------------------------------------------------------------------|--------|----------|------------------|------|-------|-----------------------------------------------------------------------------|-------|-------|-------|------|------------------|--------------------------------------------------------------------------------|--------|-------|
| Location:<br>Supply From: T-1L<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |      |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |       |       |       |      |                  | A.I.C. Rating: 10kAIC<br>Mains Type: MLO<br>Mains Rating: 400 A<br>MCB Rating: |        |       |
| Notes                                                                    | Wiring | Ckt. No. | Load Description | Trip | Poles | A                                                                           | B     | C     | Poles | Trip | Load Description | Ckt. No.                                                                       | Wiring | Notes |
|                                                                          |        | AM.1     |                  |      |       |                                                                             |       |       |       |      |                  | AM.2                                                                           |        |       |
|                                                                          |        | AM.3     |                  |      |       |                                                                             |       |       |       |      |                  | AM.4                                                                           |        |       |
|                                                                          |        | AM.5     |                  |      |       |                                                                             |       |       |       |      |                  | AM.6                                                                           |        |       |
|                                                                          |        | AM.7     |                  |      |       |                                                                             |       |       |       |      |                  | AM.8                                                                           |        |       |
|                                                                          |        | AM.9     |                  |      |       |                                                                             |       |       |       |      |                  | AM.10                                                                          |        |       |
|                                                                          |        | AM.11    |                  |      |       |                                                                             |       |       |       |      |                  | AM.12                                                                          |        |       |
|                                                                          |        | AM.13    |                  |      |       |                                                                             |       |       |       |      |                  | AM.14                                                                          |        |       |
|                                                                          |        | AM.15    |                  |      |       |                                                                             |       |       |       |      |                  | AM.16                                                                          |        |       |
|                                                                          |        | AM.17    |                  |      |       |                                                                             |       |       |       |      |                  | AM.18                                                                          |        |       |
|                                                                          |        | AM.19    |                  |      |       |                                                                             |       |       |       |      |                  | AM.20                                                                          |        |       |
|                                                                          |        | AM.21    |                  |      |       |                                                                             |       |       |       |      |                  | AM.22                                                                          |        |       |
|                                                                          |        | AM.23    |                  |      |       |                                                                             |       |       |       |      |                  | AM.24                                                                          |        |       |
|                                                                          |        | AM.25    |                  |      |       |                                                                             |       |       |       |      |                  | AM.26                                                                          |        |       |
|                                                                          |        | AM.27    |                  |      |       |                                                                             |       |       |       |      |                  | AM.28                                                                          |        |       |
|                                                                          |        | AM.29    |                  |      |       |                                                                             |       |       |       |      |                  | AM.30                                                                          |        |       |
|                                                                          |        | AM.31    |                  |      |       |                                                                             |       |       |       |      |                  | AM.32                                                                          |        |       |
|                                                                          |        | AM.33    |                  |      |       |                                                                             |       |       |       |      |                  | AM.34                                                                          |        |       |
|                                                                          |        | AM.35    |                  |      |       |                                                                             |       |       |       |      |                  | AM.36                                                                          |        |       |
|                                                                          |        | AM.37    |                  |      |       |                                                                             |       |       |       |      |                  | AM.38                                                                          |        |       |
|                                                                          |        | AM.39    |                  |      |       |                                                                             |       |       |       |      |                  | AM.40                                                                          |        |       |
|                                                                          |        | AM.41    |                  |      |       |                                                                             |       |       |       |      |                  | AM.42                                                                          |        |       |
|                                                                          |        | AM.43    |                  |      |       |                                                                             |       |       |       |      |                  | AM.44                                                                          |        |       |
|                                                                          |        | AM.45    |                  |      |       |                                                                             |       |       |       |      |                  | AM.46                                                                          |        |       |
|                                                                          |        | AM.47    |                  |      |       |                                                                             |       |       |       |      |                  | AM.48                                                                          |        |       |
|                                                                          |        | AM.49    |                  |      |       |                                                                             |       |       |       |      |                  | AM.50                                                                          |        |       |
|                                                                          |        | AM.51    |                  |      |       |                                                                             |       |       |       |      |                  | AM.52                                                                          |        |       |
|                                                                          |        | AM.53    |                  |      |       |                                                                             |       |       |       |      |                  | AM.54                                                                          |        |       |
|                                                                          |        | AM.55    |                  |      |       |                                                                             |       |       |       |      |                  | AM.56                                                                          |        |       |
|                                                                          |        | AM.57    |                  |      |       |                                                                             |       |       |       |      |                  | AM.58                                                                          |        |       |
|                                                                          |        | AM.59    |                  |      |       |                                                                             |       |       |       |      |                  | AM.60                                                                          |        |       |
|                                                                          |        | AM.61    |                  |      |       |                                                                             |       |       |       |      |                  | AM.62                                                                          |        |       |
|                                                                          |        | AM.63    |                  |      |       |                                                                             |       |       |       |      |                  | AM.64                                                                          |        |       |
|                                                                          |        | AM.65    |                  |      |       |                                                                             |       |       |       |      |                  | AM.66                                                                          |        |       |
|                                                                          |        | AM.67    |                  |      |       |                                                                             |       |       |       |      |                  | AM.68                                                                          |        |       |
|                                                                          |        | AM.69    |                  |      |       |                                                                             |       |       |       |      |                  | AM.70                                                                          |        |       |
| --                                                                       | --     | AM.71    | SPARE            | 2    | 1     | 0 / 0                                                                       |       |       | 1     | 20 A | SPARE            | AM.72                                                                          | --     | --    |
| --                                                                       | --     | AM.73    | SPARE            | 2    | 1     |                                                                             | 0 / 0 |       | 1     | 20 A | SPARE            | AM.74                                                                          | --     | --    |
| --                                                                       | --     | AM.75    | SPARE            | 2    | 1     |                                                                             |       | 0 / 0 | 1     | 20 A | SPARE            | AM.76                                                                          | --     | --    |
| --                                                                       | --     | AM.77    | SPARE            | 2    | 1     | 0 / 0                                                                       |       |       | 1     | 20 A | SPARE            | AM.78                                                                          | --     | --    |
| --                                                                       | --     | AM.79    | SPARE            | 2    | 1     |                                                                             | 0 / 0 |       | 1     | 20 A | SPARE            | AM.80                                                                          | --     | --    |
| --                                                                       | --     | AM.81    | SPARE            | 2    | 1     |                                                                             |       | 0 / 0 | 1     | 20 A | SPARE            | AM.82                                                                          | --     | --    |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          |                  |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |
|                                                                          |        |          | </               |      |       |                                                                             |       |       |       |      |                  |                                                                                |        |       |



Panelboard: LP-1K

Location:

Supply From: T-1K

Mounting: SURFACE

Enclosure: TYPE 1

Distribution System: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 10kAIC

Mains Type: MCB

Mains Rating: 400 A

MCB Rating: 400 A

| Notes               | Wiring | Ckt. No. | Load Description | Tripp | Poles | A           | B     | C     | Poles | Tripp        | Load Description | Ckt. No.  | Wiring | Notes       |  |                                     |  |
|---------------------|--------|----------|------------------|-------|-------|-------------|-------|-------|-------|--------------|------------------|-----------|--------|-------------|--|-------------------------------------|--|
|                     |        | AP-1     |                  |       |       |             |       |       |       |              |                  | AP-2      |        |             |  |                                     |  |
|                     |        | AP-3     |                  |       |       |             |       |       |       |              |                  | AP-4      |        |             |  |                                     |  |
|                     |        | AP-5     |                  |       |       |             |       |       |       |              |                  | AP-6      |        |             |  |                                     |  |
|                     |        | AP-7     |                  |       |       |             |       |       |       |              |                  | AP-8      |        |             |  |                                     |  |
|                     |        | AP-9     |                  |       |       |             |       |       |       |              |                  | AP-10     |        |             |  |                                     |  |
|                     |        | AP-11    |                  |       |       |             |       |       |       |              |                  | AP-12     |        |             |  |                                     |  |
|                     |        | AP-13    |                  |       |       |             |       |       |       |              |                  | AP-14     |        |             |  |                                     |  |
|                     |        | AP-15    |                  |       |       |             |       |       |       |              |                  | AP-16     |        |             |  |                                     |  |
|                     |        | AP-17    |                  |       |       |             |       |       |       |              |                  | AP-18     |        |             |  |                                     |  |
|                     |        | AP-19    |                  |       |       |             |       |       |       |              |                  | AP-20     |        |             |  |                                     |  |
|                     |        | AP-21    |                  |       |       |             |       |       |       |              |                  | AP-22     |        |             |  |                                     |  |
|                     |        | AP-23    |                  |       |       |             |       |       |       |              |                  | AP-24     |        |             |  |                                     |  |
|                     |        | AP-25    |                  |       |       |             |       |       |       |              |                  | AP-26     |        |             |  |                                     |  |
|                     |        | AP-27    |                  |       |       |             |       |       |       |              |                  | AP-28     |        |             |  |                                     |  |
|                     |        | AP-29    |                  |       |       |             |       |       |       |              |                  | AP-30     |        |             |  |                                     |  |
|                     |        | AP-31    |                  |       |       |             |       |       |       |              |                  | AP-32     |        |             |  |                                     |  |
|                     |        | AP-33    |                  |       |       |             |       |       |       |              |                  | AP-34     |        |             |  |                                     |  |
|                     |        | AP-35    |                  |       |       |             |       |       |       |              |                  | AP-36     |        |             |  |                                     |  |
|                     |        | AP-37    |                  |       |       |             |       |       |       |              |                  | AP-38     |        |             |  |                                     |  |
|                     |        | AP-39    |                  |       |       |             |       |       |       |              |                  | AP-40     |        |             |  |                                     |  |
|                     |        | AP-41    |                  |       |       |             |       |       |       |              |                  | AP-42     |        |             |  |                                     |  |
|                     |        | AP-43    |                  |       |       |             |       |       |       |              |                  | AP-44     |        |             |  |                                     |  |
|                     |        | AP-45    |                  |       |       |             |       |       |       |              |                  | AP-46     |        |             |  |                                     |  |
|                     |        | AP-47    |                  |       |       |             |       |       |       |              |                  | AP-48     |        |             |  |                                     |  |
|                     |        | AP-49    |                  |       |       |             |       |       |       |              |                  | AP-50     |        |             |  |                                     |  |
|                     |        | AP-51    |                  |       |       |             |       |       |       |              |                  | AP-52     |        |             |  |                                     |  |
|                     |        | AP-53    |                  |       |       |             |       |       |       |              |                  | AP-54     |        |             |  |                                     |  |
|                     |        | AP-55    |                  |       |       |             |       |       |       |              |                  | AP-56     |        |             |  |                                     |  |
|                     |        | AP-57    |                  |       |       |             |       |       |       |              |                  | AP-58     |        |             |  |                                     |  |
|                     |        | AP-59    |                  |       |       |             |       |       |       |              |                  | AP-60     |        |             |  |                                     |  |
|                     |        | AP-61    |                  |       |       |             |       |       |       |              |                  | AP-62     |        |             |  |                                     |  |
|                     |        | AP-63    |                  |       |       |             |       |       |       |              |                  | AP-64     |        |             |  |                                     |  |
|                     |        | AP-65    |                  |       |       |             |       |       |       |              |                  | AP-66     |        |             |  |                                     |  |
|                     |        | AP-67    |                  |       |       |             |       |       |       |              |                  | AP-68     |        |             |  |                                     |  |
|                     |        | AP-69    |                  |       |       |             |       |       |       |              |                  | AP-70     |        |             |  |                                     |  |
|                     |        | AP-71    |                  |       |       |             |       |       |       |              |                  | AP-72     |        |             |  |                                     |  |
| --                  | --     | AP-73    | SPARE            | 2     | 1     | 0 / 0       |       |       | 1     | 20 A         | SPARE            | AP-74     | --     | --          |  |                                     |  |
| --                  | --     | AP-75    | SPARE            | 2     | 1     |             | 0 / 0 |       | 1     | 20 A         | SPARE            | AP-76     | --     | --          |  |                                     |  |
| --                  | --     | AP-77    | SPARE            | 2     | 1     |             |       | 0 / 0 | 1     | 20 A         | SPARE            | AP-78     | --     | --          |  |                                     |  |
| --                  | --     | AP-79    | SPARE            | 2     | 1     | 0 / 0       |       |       | 1     | 20 A         | SPARE            | AP-80     | --     | --          |  |                                     |  |
| --                  | --     | AP-81    | SPARE            | 2     | 1     |             | 0 / 0 |       | 1     | 20 A         | SPARE            | AP-82     | --     | --          |  |                                     |  |
| --                  | --     | AP-83    | SPARE            | 2     | 1     |             |       | 0 / 0 | 1     | 20 A         | SPARE            | AP-84     | --     | --          |  |                                     |  |
|                     |        |          |                  |       |       | Load Per... | 0 VA  | 0 VA  | 0 VA  |              |                  |           |        |             |  |                                     |  |
| Load Classification |        |          |                  |       |       |             |       |       |       | Connected... |                  | Demand... |        | Est. Demand |  | Panel Totals                        |  |
|                     |        |          |                  |       |       |             |       |       |       |              |                  |           |        |             |  | TOTAL CONNECTED LOAD: 0 VA          |  |
|                     |        |          |                  |       |       |             |       |       |       |              |                  |           |        |             |  | TOTAL ESTIMATED DEMAND: 0 VA        |  |
|                     |        |          |                  |       |       |             |       |       |       |              |                  |           |        |             |  | TOTAL CONNECTED CURRENT: 0 A        |  |
|                     |        |          |                  |       |       |             |       |       |       |              |                  |           |        |             |  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |  |
| NOTES:              |        |          |                  |       |       |             |       |       |       |              |                  |           |        |             |  |                                     |  |

Panelboard: LP-2A

Location:

Supply From: T-2A

Mounting: SURFACE

Enclosure: Type 1

Distribution System: 120/208 Vyle

Phases: 3

Wires: 4

A.I.C. Rating: 10kAIC

Maine Type: MCB

Main Rating: 400 A

MCB Rating: 400 A

| Notes               |    | Wiring | Ckt. No. | Load Description                   | Trips        | Poles     | A           | B           | C                                     | Poles | Trips | Load Description                     | Ckt. No. | Notes |
|---------------------|----|--------|----------|------------------------------------|--------------|-----------|-------------|-------------|---------------------------------------|-------|-------|--------------------------------------|----------|-------|
|                     |    |        | AD-1     | RECEPT OR A204                     | 20 A         | 1         | 1440 / 1440 |             |                                       | 1     | 20 A  | RECEPT OR A204                       | AD-2     | CTL   |
|                     |    |        | AD-3     | RECEPT OR A205                     | 20 A         | 1         |             | 1440 / 1620 |                                       | 1     | 20 A  | RECEPT OR A205                       | AD-4     |       |
|                     |    |        | AD-5     | RECEPT OR A206                     | 20 A         | 1         |             |             | 1440 / 1800                           | 1     | 20 A  | RECEPT OR A206                       | AD-6     | CTL   |
|                     |    |        | AD-7     | RECEPT OR A207                     | 20 A         | 1         | 1260 / 1620 |             |                                       | 1     | 20 A  | RECEPT OR A207                       | AD-8     |       |
|                     |    |        | AD-9     | RECEPT OR B203                     | 20 A         | 1         |             | 1440 / 1620 |                                       | 1     | 20 A  | RECEPT OR B203                       | AD-10    |       |
|                     |    |        | AD-11    | RECEPT SPACE 260                   | 20 A         | 1         |             |             | 1440 / 1800                           | 1     | 20 A  | RECEPT SPACE 260                     | AD-12    | CTL   |
|                     |    |        | AD-13    | RECEPT RELATED OR B201F            | 20 A         | 1         | 1440 / 1800 |             |                                       | 1     | 20 A  | RECEPT RELATED OR B201F              | AD-14    |       |
|                     |    |        | AD-15    | RECEPT REF. TEACHERS PLANNING B234 | 20 A         | 1         |             | 180 / 180   |                                       | 1     | 20 A  | RECEPT COPIER TEACHERS PLANNING B234 | AD-16    |       |
|                     |    |        | AD-17    | RECEPT TEACHERS PLANNING B234      | 20 A         | 1         |             |             | 900 / 180                             | 1     | 20 A  | RECEPT TLT B234A                     | AD-18    |       |
|                     |    |        | AD-19    | RECEPT TEACHERS PLANNING B234      | 20 A         | 1         | 180 / 180   |             |                                       | 1     | 20 A  | RECEPT TEACHERS PLANNING B234        | AD-20    |       |
|                     |    |        | AD-21    | RECEPT LANGUAGE LEARNING A208      | 20 A         | 1         | 1080 / 1440 |             |                                       | 1     | 20 A  | RECEPT LANGUAGE LEARNING A208        | AD-22    | CTL   |
|                     |    |        | AD-23    | RECEPT ROOM B206, B207, B208       | 20 A         | 1         |             |             | 1080 / 1080                           | 1     | 20 A  | RECEPT ROOM B206, B207, B208         | AD-24    |       |
|                     |    |        | AD-25    |                                    |              |           |             |             |                                       |       |       |                                      | AD-26    |       |
|                     |    |        | AD-27    |                                    |              |           |             |             |                                       |       |       |                                      | AD-28    |       |
|                     |    |        | AD-29    |                                    |              |           |             |             |                                       |       |       |                                      | AD-30    |       |
|                     |    |        | AD-31    |                                    |              |           |             |             |                                       |       |       |                                      | AD-32    |       |
|                     |    |        | AD-33    |                                    |              |           |             |             |                                       |       |       |                                      | AD-34    |       |
|                     |    |        | AD-35    |                                    |              |           |             |             |                                       |       |       |                                      | AD-36    |       |
|                     |    |        | AD-37    |                                    |              |           |             |             |                                       |       |       |                                      | AD-38    |       |
|                     |    |        | AD-39    |                                    |              |           |             |             |                                       |       |       |                                      | AD-40    |       |
|                     |    |        | AD-41    |                                    |              |           |             |             |                                       |       |       |                                      | AD-42    |       |
|                     |    |        | AD-43    |                                    |              |           |             |             |                                       |       |       |                                      | AD-44    |       |
|                     |    |        | AD-45    |                                    |              |           |             |             |                                       |       |       |                                      | AD-46    |       |
|                     |    |        | AD-47    |                                    |              |           |             |             |                                       |       |       |                                      | AD-48    |       |
|                     |    |        | AD-49    |                                    |              |           |             |             |                                       |       |       |                                      | AD-50    |       |
|                     |    |        | AD-51    |                                    |              |           |             |             |                                       |       |       |                                      | AD-52    |       |
|                     |    |        | AD-53    |                                    |              |           |             |             |                                       |       |       |                                      | AD-54    |       |
|                     |    |        | AD-55    |                                    |              |           |             |             |                                       |       |       |                                      | AD-56    |       |
|                     |    |        | AD-57    |                                    |              |           |             |             |                                       |       |       |                                      | AD-58    |       |
|                     |    |        | AD-59    |                                    |              |           |             |             |                                       |       |       |                                      | AD-60    |       |
|                     |    |        | AD-61    |                                    |              |           |             |             |                                       |       |       |                                      | AD-62    |       |
|                     |    |        | AD-63    |                                    |              |           |             |             |                                       |       |       |                                      | AD-64    |       |
|                     |    |        | AD-65    |                                    |              |           |             |             |                                       |       |       |                                      | AD-66    |       |
|                     |    |        | AD-67    |                                    |              |           |             |             |                                       |       |       |                                      | AD-68    |       |
|                     |    |        | AD-69    |                                    |              |           |             |             |                                       |       |       |                                      | AD-70    |       |
|                     |    |        | AD-71    |                                    |              |           |             |             |                                       |       |       |                                      | AD-72    |       |
| --                  | -- |        | AD-73    | SPARE                              | 2            | 1         | 0 / 0       |             |                                       | 1     | 20 A  | SPARE                                | AD-74    | --    |
| --                  | -- |        | AD-75    | SPARE                              | 2            | 1         |             | 0 / 0       |                                       | 1     | 20 A  | SPARE                                | AD-76    | --    |
| --                  | -- |        | AD-77    | SPARE                              | 2            | 1         |             |             | 0 / 0                                 | 1     | 20 A  | SPARE                                | AD-78    | --    |
| --                  | -- |        | AD-79    | SPARE                              | 2            | 1         | 0 / 0       |             |                                       | 1     | 20 A  | SPARE                                | AD-80    | --    |
| --                  | -- |        | AD-81    | SPARE                              | 2            | 1         |             | 0 / 0       |                                       | 1     | 20 A  | SPARE                                | AD-82    | --    |
| --                  | -- |        | AD-83    | SPARE                              | 2            | 1         |             |             | 0 / 0                                 | 1     | 20 A  | SPARE                                | AD-84    | --    |
|                     |    |        |          |                                    | Load Per...  |           | 5360 VA     | 9000 VA     |                                       |       |       |                                      |          |       |
| Load Classification |    |        |          |                                    | Connected... | Demand... | Est. Demand |             | Panel Totals                          |       |       |                                      |          |       |
| RECEPT              |    |        |          |                                    | 28080 VA     | 67.81%    | 19040 VA    |             | TOTAL CONNECTED LOAD : 28080 VA       |       |       |                                      |          |       |
|                     |    |        |          |                                    |              |           |             |             | TOTAL ESTIMATED DEMAND : 19040 VA     |       |       |                                      |          |       |
|                     |    |        |          |                                    |              |           |             |             | TOTAL CONNECTED CURRENT : 78 A        |       |       |                                      |          |       |
|                     |    |        |          |                                    |              |           |             |             | TOTAL ESTIMATED DEMAND CURRENT : 53 A |       |       |                                      |          |       |

NOTES:

Panelboard: LP-2B

Location: Type 1:2B

Mounting: SURFACE

Enclosure: TYPE 1

Distribution System: 12/2/08 Wye

Phases: 3

Wires: 4

A.C. Rating: 15KVA

Main Type: MCS

Main Rating: 400 A

MCR Rating: 400 A

| Notes | Wiring | Ckt. No. | Load Description                 | Trips | Poles | A           | B           | C           | Poles | Trips | Load Description                 | Ckt. No. | Notes |
|-------|--------|----------|----------------------------------|-------|-------|-------------|-------------|-------------|-------|-------|----------------------------------|----------|-------|
| CTL   |        | AJ1      | RECEPT OR B225                   | 20 A  | 1     | 1440 / 900  |             |             | 1     | 20 A  | RECEPT OR B225                   | AJ2      |       |
|       |        | AJ3      | RECEPT OR B226                   | 20 A  | 1     |             | 1800 / 1440 |             | 1     | 20 A  | RECEPT OR B226                   | AJ4      | CTL   |
|       |        | AJ5      | RECEPT OR B227                   | 20 A  | 1     |             |             | 1800 / 1080 | 1     | 20 A  | RECEPT OR B227                   | AJ6      |       |
|       |        | AJ7      | RECEPT OR B228                   | 20 A  | 1     | 1440 / 1800 |             |             | 1     | 20 A  | RECEPT OR B228                   | AJ8      |       |
| CTL   |        | AJ9      | RECEPT OR B229                   | 20 A  | 1     |             | 1800 / 1800 |             | 1     | 20 A  | RECEPT OR B229                   | AJ10     | CTL   |
|       |        | AJ11     | RECEPT OR B212                   | 20 A  | 1     |             |             | 1440 / 1800 | 1     | 20 A  | RECEPT OR B212                   | AJ12     | CTL   |
|       |        | AJ13     | RECEPT OR B211                   | 20 A  | 1     | 720 / 1080  |             |             | 1     | 20 A  | RECEPT OR B211                   | AJ14     |       |
|       |        | AJ15     | RECEPT RELATED OR B203B          | 20 A  | 1     |             | 1080 / 1080 |             | 1     | 20 A  | RECEPT RELATED OR B203B          | AJ16     | CTL   |
|       |        | AJ17     | RECEPT RELATED OR B203A          | 20 A  | 1     |             |             | 1440 / 1800 | 1     | 20 A  | RECEPT RELATED OR B203A          | AJ18     |       |
|       |        | AJ19     | RECEPT ROOM B205                 | 20 A  | 1     | 720 / 720   |             |             | 1     | 20 A  | RECEPT ROOM B205                 | AJ20     |       |
|       |        | AJ21     | RECEPT HUBBLE B234B              | 20 A  | 1     |             | 720 / 1440  |             | 1     | 20 A  | RECEPT SPED LEARNING CENTER B213 | AJ22     |       |
| CTL   |        | AJ23     | RECEPT SPED LEARNING CENTER B213 | 20 A  | 1     |             |             | 1800 / 180  | 1     | 20 A  | RECEPT TL1 B201C                 | AJ24     | CTL   |
|       |        | AJ25     | RECEPT TL1 B202C                 | 20 A  | 1     | 360 / 180   |             |             | 1     | 20 A  | RECEPT TL1 B201C                 | AJ26     |       |
|       |        | AJ27     | RECEPT ROOM 7 (TL1)              | 20 A  | 1     |             | 180 / 0     |             |       |       |                                  | AJ28     |       |
|       |        | AJ29     |                                  |       |       |             |             |             |       |       |                                  | AJ30     |       |
|       |        | AJ31     |                                  |       |       |             |             |             |       |       |                                  | AJ32     |       |
|       |        | AJ33     |                                  |       |       |             |             |             |       |       |                                  | AJ34     |       |
|       |        | AJ35     |                                  |       |       |             |             |             |       |       |                                  | AJ36     |       |
|       |        | AJ37     |                                  |       |       |             |             |             |       |       |                                  | AJ38     |       |
|       |        | AJ39     |                                  |       |       |             |             |             |       |       |                                  | AJ40     |       |
|       |        | AJ41     |                                  |       |       |             |             |             |       |       |                                  | AJ42     |       |
|       |        | AJ43     |                                  |       |       |             |             |             |       |       |                                  | AJ44     |       |
|       |        | AJ45     |                                  |       |       |             |             |             |       |       |                                  | AJ46     |       |
|       |        | AJ47     |                                  |       |       |             |             |             |       |       |                                  | AJ48     |       |
|       |        | AJ49     |                                  |       |       |             |             |             |       |       |                                  | AJ50     |       |
|       |        | AJ51     |                                  |       |       |             |             |             |       |       |                                  | AJ52     |       |
|       |        | AJ53     |                                  |       |       |             |             |             |       |       |                                  | AJ54     |       |
|       |        | AJ55     |                                  |       |       |             |             |             |       |       |                                  | AJ56     |       |
|       |        | AJ57     |                                  |       |       |             |             |             |       |       |                                  | AJ58     |       |
|       |        | AJ59     |                                  |       |       |             |             |             |       |       |                                  | AJ60     |       |
|       |        | AJ61     |                                  |       |       |             |             |             |       |       |                                  | AJ62     |       |
|       |        | AJ63     |                                  |       |       |             |             |             |       |       |                                  | AJ64     |       |
|       |        | AJ65     |                                  |       |       |             |             |             |       |       |                                  | AJ66     |       |
|       |        | AJ67     |                                  |       |       |             |             |             |       |       |                                  | AJ68     |       |
|       |        | AJ69     |                                  |       |       |             |             |             |       |       |                                  | AJ70     |       |
|       |        | AJ71     |                                  |       |       |             |             |             |       |       |                                  | AJ72     |       |
| --    | --     | AJ73     | SPARE                            | 2     | 1     | 0 / 0       |             |             | 1     | 20 A  | SPARE                            | AJ74     | --    |
| --    | --     | AJ75     | SPARE                            | 2     | 1     |             | 0 / 0       |             | 1     | 20 A  | SPARE                            | AJ76     | --    |
| --    | --     | AJ77     | SPARE                            | 2     | 1     |             |             | 0 / 0       | 1     | 20 A  | SPARE                            | AJ78     | --    |
| --    | --     | AJ79     | SPARE                            | 2     | 1     | 0 / 0       |             |             | 1     | 20 A  | SPARE                            | AJ80     | --    |
| --    | --     | AJ81     | SPARE                            | 2     | 1     |             | 0 / 0       |             | 1     | 20 A  | SPARE                            | AJ82     | --    |
| --    | --     | AJ83     | SPARE                            | 2     | 1     |             |             | 0 / 0       | 1     | 20 A  | SPARE                            | AJ84     | --    |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |
|       |        |          |                                  |       |       |             |             |             |       |       |                                  |          |       |

Panelboard: LP-3A

Location:  
Supply From: 13A  
Mounting: SURFACE  
Enclosure: TYPE 1

Distribution System: 120/208 Vyle  
Phase: 3  
Wires: 4  
Modifications:

A.I.G. Rating: 10kAIC  
Main: Type: MCB  
Mains Rating: 400 A  
MCB Rating: 400 A

| Notes / Wiring      | Ckt. No. | Load Description                        | Trips | Poles | A            | B           | C           | Poles  | Trips | Load Description | Ckt. No.                                | Notes | Wiring                                |
|---------------------|----------|-----------------------------------------|-------|-------|--------------|-------------|-------------|--------|-------|------------------|-----------------------------------------|-------|---------------------------------------|
|                     | AF-1     | RECEPT OR AS22                          | 20 A  | 1     | 1260 / 1260  |             |             |        | 1     | 20 A             | RECEPT OR AS22                          | AF-2  | CTL                                   |
|                     | AF-3     | RECEPT SPACE 400                        | 20 A  | 1     |              | 1440 / 1440 |             |        | 1     | 20 A             | RECEPT SPACE 400                        | AF-4  | CTL                                   |
|                     | AF-5     | RECEPT OR AS24                          | 20 A  | 1     |              |             | 1440 / 1800 |        | 1     | 20 A             | RECEPT OR AS24                          | AF-6  | CTL                                   |
|                     | AF-7     | RECEPT SPACE 402                        | 20 A  | 1     | 1260 / 1800  |             |             |        | 1     | 20 A             | RECEPT SPACE 402                        | AF-8  | CTL                                   |
|                     | AF-9     | RECEPT OR B307                          | 20 A  | 1     |              | 1260 / 1900 |             |        | 1     | 20 A             | RECEPT OR B307                          | AF-10 | CTL                                   |
|                     | AF-11    | RECEPT ROOM B304, B305, B306            | 20 A  | 1     |              |             | 900 / 1080  |        | 1     | 20 A             | RECEPT ROOM B304, B305, B306            | AF-12 | CTL                                   |
|                     | AF-13    | RECEPT REEF. TEACHERS PLANNING B328     | 20 A  | 1     | 180 / 180    |             |             |        | 1     | 20 A             | RECEPT TEACHERS PLANNING B328           | AF-14 | CTL                                   |
|                     | AF-15    | RECEPT TEACHERS PLANNING B328           | 20 A  | 1     |              | 180 / 180   |             |        | 1     | 20 A             | RECEPT TL1 B338A                        | AF-16 | CTL                                   |
|                     | AF-17    | RECEPT TEACHERS PLANNING B328           | 20 A  | 1     |              |             | 900 / 180   |        | 1     | 20 A             | RECEPT COPHER TEACHERS PLANNING B328    | AF-18 | CTL                                   |
|                     | AF-19    | RECEPT SPED LEARNING CENTER A301        | 20 A  | 1     | 1440 / 2160  |             |             |        | 1     | 20 A             | RECEPT SPED LEARNING CENTER A301        | AF-20 | CTL                                   |
|                     | AF-21    | RECEPT SPACE 353                        | 20 A  | 1     |              | 1440 / 1440 |             |        | 1     | 20 A             | RECEPT SPACE 353                        | AF-22 | CTL                                   |
|                     | AF-23    | RECEPT HEALTH ASSISTANT RELATED OR A305 | 20 A  | 1     |              |             | 1440 / 1800 |        | 1     | 20 A             | RECEPT HEALTH ASSISTANT RELATED OR A305 | AF-24 | CTL                                   |
|                     | AF-25    | RECEPT DIGITAL LEARNING A308            | 20 A  | 1     |              |             |             |        | 1     | 20 A             | RECEPT DIGITAL LEARNING A308            | AF-26 | CTL                                   |
|                     | AF-27    | RECEPT TL1 A303E                        | 20 A  | 1     | 1080 / 1720  | 180 / 0     |             |        |       |                  |                                         | AF-28 | CTL                                   |
|                     | AF-29    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-30 |                                       |
|                     | AF-31    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-32 |                                       |
|                     | AF-33    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-34 |                                       |
|                     | AF-35    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-36 |                                       |
|                     | AF-37    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-38 |                                       |
|                     | AF-39    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-40 |                                       |
|                     | AF-41    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-42 |                                       |
|                     | AF-43    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-44 |                                       |
|                     | AF-45    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-46 |                                       |
|                     | AF-47    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-48 |                                       |
|                     | AF-49    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-50 |                                       |
|                     | AF-51    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-52 |                                       |
|                     | AF-53    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-54 |                                       |
|                     | AF-55    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-56 |                                       |
|                     | AF-57    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-58 |                                       |
|                     | AF-59    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-60 |                                       |
|                     | AF-61    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-62 |                                       |
|                     | AF-63    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-64 |                                       |
|                     | AF-65    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-66 |                                       |
|                     | AF-67    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-68 |                                       |
|                     | AF-69    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-70 |                                       |
|                     | AF-71    |                                         |       |       |              |             |             |        |       |                  |                                         | AF-72 |                                       |
| --                  | AF-73    | SPARE                                   | 2     | 1     | 0 / 0        |             |             |        | 1     | 20 A             | SPARE                                   | AF-74 | --                                    |
| --                  | AF-75    | SPARE                                   | 2     | 1     |              | 0 / 0       |             |        | 1     | 20 A             | SPARE                                   | AF-76 | --                                    |
| --                  | AF-77    | SPARE                                   | 2     | 1     |              |             | 0 / 0       |        | 1     | 20 A             | SPARE                                   | AF-78 | --                                    |
| --                  | AF-79    | SPARE                                   | 2     | 1     |              |             |             | 0 / 0  | 1     | 20 A             | SPARE                                   | AF-80 | --                                    |
| --                  | AF-81    | SPARE                                   | 2     | 1     |              |             | 0 / 0       |        | 1     | 20 A             | SPARE                                   | AF-82 | --                                    |
| --                  | AF-83    | SPARE                                   | 2     | 1     |              |             |             | 0 / 0  | 1     | 20 A             | SPARE                                   | AF-84 | --                                    |
|                     |          |                                         |       |       | Load Per...  | 11340 VA    | 5900 VA     |        |       | 5440 VA          |                                         |       |                                       |
| Load Classification |          |                                         |       |       | Connected... | 30240 VA    | Demanded... | 66.53% |       | Est. Demand      | 20120 VA                                |       | Panel Totals                          |
| RECEPT              |          |                                         |       |       |              |             |             |        |       |                  |                                         |       | TOTAL CONNECTED LOAD : 30240 VA       |
|                     |          |                                         |       |       |              |             |             |        |       |                  |                                         |       | TOTAL ESTIMATED DEMAND : 20120 VA     |
|                     |          |                                         |       |       |              |             |             |        |       |                  |                                         |       | TOTAL CONNECTED CURRENT : 88 A        |
|                     |          |                                         |       |       |              |             |             |        |       |                  |                                         |       | TOTAL ESTIMATED DEMAND CURRENT : 58 A |

NOTES:

| Panelboard: LP-3B |         |         |                                 |       |       | Distribution System: 120/208 Vyle |             |             |       |       |                                   | A.I.C. Rating: 10kAC |         |       |  |  |  |
|-------------------|---------|---------|---------------------------------|-------|-------|-----------------------------------|-------------|-------------|-------|-------|-----------------------------------|----------------------|---------|-------|--|--|--|
| Location:         |         |         |                                 |       |       | Phase: 3                          |             |             |       |       |                                   | Main Type: MCB       |         |       |  |  |  |
| Supply From: 1-3B |         |         |                                 |       |       | Wires: 4                          |             |             |       |       |                                   | Mains Rating: 400 A  |         |       |  |  |  |
| Mounting: SURFACE |         |         |                                 |       |       | Modifications:                    |             |             |       |       |                                   | MCB Rating: 400 A    |         |       |  |  |  |
| Enclosure: TYPE 1 |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
| Notes             | Writing | Ckt No. | Load Description                | Trips | Poles | A                                 | B           | C           | Poles | Trips | Load Description                  | Ckt No.              | Writing | Notes |  |  |  |
|                   |         | AK-1    | RECEPT OR B309                  | 20 A  | 1     | 1440 / 1800                       |             |             | 1     | 20 A  | RECEPT OR B309                    | AK-2                 |         | CTL   |  |  |  |
|                   |         | AK-3    | RECEPT OR B330                  | 20 A  | 1     |                                   | 1440 / 1440 |             | 1     | 20 A  | RECEPT OR B330                    | AK-4                 |         | CTL   |  |  |  |
|                   |         | AK-5    | RECEPT OR B331                  | 20 A  | 1     |                                   |             | 1440 / 1440 | 1     | 20 A  | RECEPT OR B331                    | AK-6                 |         |       |  |  |  |
|                   |         | AK-7    | RECEPT OR B332                  | 20 A  | 1     | 1440 / 1440                       |             |             | 1     | 20 A  | RECEPT OR B332                    | AK-8                 |         | CTL   |  |  |  |
|                   |         | AK-9    | RECEPT OR B333                  | 20 A  | 1     |                                   | 1440 / 1440 |             | 1     | 20 A  | RECEPT OR B333                    | AK-10                |         |       |  |  |  |
|                   |         | AK-11   | RECEPT OR B310                  | 20 A  | 1     |                                   |             | 1440 / 1800 | 1     | 20 A  | RECEPT OR B310                    | AK-12                |         | CTL   |  |  |  |
|                   |         | AK-13   | RECEPT OR B309                  | 20 A  | 1     | 1440 / 1800                       |             |             | 1     | 20 A  | RECEPT OR B309                    | AK-14                |         | CTL   |  |  |  |
|                   |         | AK-15   | RECEPT RELATED OR B302J         | 20 A  | 1     |                                   | 1800 / 2160 |             | 1     | 20 A  | RECEPT RELATED OR B302J           | AK-16                |         |       |  |  |  |
|                   |         | AK-17   | RECEPT ROOM B307, B308          | 20 A  | 1     |                                   |             | 720 / 720   | 1     | 20 A  | RECEPT ROOM B307, B308            | AK-18                |         |       |  |  |  |
|                   |         | AK-19   | RECEPT HUBBLE B308B             | 20 A  | 1     | 540 / 1440                        |             |             | 1     | 20 A  | RECEPT SPEED LEARNING CENTER B311 | AK-20                |         |       |  |  |  |
|                   |         | AK-21   | RECEPT SPD LEARNING CENTER B311 | 20 A  | 1     |                                   | 1800 / 180  |             | 1     | 20 A  | RECEPT TLT B321                   | AK-22                |         |       |  |  |  |
|                   |         | AK-23   | RECEPT TLT B322E                | 20 A  | 1     |                                   |             | 180 / 180   | 1     | 20 A  | RECEPT TLT B307E                  | AK-24                |         |       |  |  |  |
|                   |         | AK-25   |                                 |       |       |                                   |             |             |       |       |                                   | AK-26                |         |       |  |  |  |
|                   |         | AK-27   |                                 |       |       |                                   |             |             |       |       |                                   | AK-28                |         |       |  |  |  |
|                   |         | AK-29   |                                 |       |       |                                   |             |             |       |       |                                   | AK-30                |         |       |  |  |  |
|                   |         | AK-31   |                                 |       |       |                                   |             |             |       |       |                                   | AK-32                |         |       |  |  |  |
|                   |         | AK-33   |                                 |       |       |                                   |             |             |       |       |                                   | AK-34                |         |       |  |  |  |
|                   |         | AK-35   |                                 |       |       |                                   |             |             |       |       |                                   | AK-36                |         |       |  |  |  |
|                   |         | AK-37   |                                 |       |       |                                   |             |             |       |       |                                   | AK-38                |         |       |  |  |  |
|                   |         | AK-39   |                                 |       |       |                                   |             |             |       |       |                                   | AK-40                |         |       |  |  |  |
|                   |         | AK-41   |                                 |       |       |                                   |             |             |       |       |                                   | AK-42                |         |       |  |  |  |
|                   |         | AK-43   |                                 |       |       |                                   |             |             |       |       |                                   | AK-44                |         |       |  |  |  |
|                   |         | AK-45   |                                 |       |       |                                   |             |             |       |       |                                   | AK-46                |         |       |  |  |  |
|                   |         | AK-47   |                                 |       |       |                                   |             |             |       |       |                                   | AK-48                |         |       |  |  |  |
|                   |         | AK-49   |                                 |       |       |                                   |             |             |       |       |                                   | AK-50                |         |       |  |  |  |
|                   |         | AK-51   |                                 |       |       |                                   |             |             |       |       |                                   | AK-52                |         |       |  |  |  |
|                   |         | AK-53   |                                 |       |       |                                   |             |             |       |       |                                   | AK-54                |         |       |  |  |  |
|                   |         | AK-55   |                                 |       |       |                                   |             |             |       |       |                                   | AK-56                |         |       |  |  |  |
|                   |         | AK-57   |                                 |       |       |                                   |             |             |       |       |                                   | AK-58                |         |       |  |  |  |
|                   |         | AK-59   |                                 |       |       |                                   |             |             |       |       |                                   | AK-60                |         |       |  |  |  |
|                   |         | AK-61   |                                 |       |       |                                   |             |             |       |       |                                   | AK-62                |         |       |  |  |  |
|                   |         | AK-63   |                                 |       |       |                                   |             |             |       |       |                                   | AK-64                |         |       |  |  |  |
|                   |         | AK-65   |                                 |       |       |                                   |             |             |       |       |                                   | AK-66                |         |       |  |  |  |
|                   |         | AK-67   |                                 |       |       |                                   |             |             |       |       |                                   | AK-68                |         |       |  |  |  |
|                   |         | AK-69   |                                 |       |       |                                   |             |             |       |       |                                   | AK-70                |         |       |  |  |  |
|                   |         | AK-71   |                                 |       |       |                                   |             |             |       |       |                                   | AK-72                |         |       |  |  |  |
| --                | --      | AK-73   | SPARE                           | 2     | 1     | 0 / 0                             |             |             | 1     | 20 A  | SPARE                             | AK-74                | --      | --    |  |  |  |
| --                | --      | AK-75   | SPARE                           | 2     | 1     |                                   | 0 / 0       |             | 1     | 20 A  | SPARE                             | AK-76                | --      | --    |  |  |  |
| --                | --      | AK-77   | SPARE                           | 2     | 1     |                                   |             | 0 / 0       | 1     | 20 A  | SPARE                             | AK-78                | --      | --    |  |  |  |
| --                | --      | AK-79   | SPARE                           | 2     | 1     | 0 / 0                             |             |             | 1     | 20 A  | SPARE                             | AK-80                | --      | --    |  |  |  |
| --                | --      | AK-81   | SPARE                           | 2     | 1     |                                   | 0 / 0       |             | 1     | 20 A  | SPARE                             | AK-82                | --      | --    |  |  |  |
| --                | --      | AK-83   | SPARE                           | 2     | 1     |                                   |             | 0 / 0       | 1     | 20 A  | SPARE                             | AK-84                | --      | --    |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         |                                 |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |
|                   |         |         | </                              |       |       |                                   |             |             |       |       |                                   |                      |         |       |  |  |  |

Panelboard: LP-4A

Location:

Supply From: T-4A

Mounting: SURFACE

Enclosure: TYPE 1

Distribution System: 120/208 Vyle

Phases: 3

Wires: 4

Modifications:

A.L.C. Rating: 10kVAC

Main Type: MCB

Mains Rating: 400 A

MCB Rating: 400 A

| Notes / Wiring      | Ckt No. | Load Description                     | Trip Poles | A                                    | B           | C           | Poles Trip                     | Load Description                   | Ckt No. | Notes |  |
|---------------------|---------|--------------------------------------|------------|--------------------------------------|-------------|-------------|--------------------------------|------------------------------------|---------|-------|--|
|                     | AG.1    | RECEPT OR A429                       | 2/A 1      | 1080 / 1800                          |             |             | 1 20 A                         | RECEPT OR A429                     | AG.2    | CTL   |  |
|                     | AG.3    | RECEPT OR A430                       | 2/A 1      |                                      | 1440 / 1800 |             | 1 20 A                         | RECEPT OR A430                     | AG.4    | CTL   |  |
|                     | AG.5    | RECEPT OR A431                       | 2/A 1      |                                      |             | 1440 / 1800 | 1 20 A                         | RECEPT OR A431                     | AG.6    | CTL   |  |
|                     | AG.7    | RECEPT OR A432                       | 2/A 1      | 1440 / 1800                          |             |             | 1 20 A                         | RECEPT OR A432                     | AG.8    | CTL   |  |
|                     | AG.9    | RECEPT OR B422                       | 2/A 1      |                                      | 1440 / 1800 |             | 1 20 A                         | RECEPT OR B422                     | AG.10   | CTL   |  |
|                     | AG.11   | RECEPT ROOM B434, B405, B406         | 2/A 1      |                                      |             | 900 / 1080  | 1 20 A                         | RECEPT ROOM B434, B405, B406       | AG.12   | CTL   |  |
|                     | AG.13   | RECEPT TEACHERS PLANNING B423        | 2/A 1      | 720 / 720                            |             |             | 1 20 A                         | RECEPT TEACHERS PLANNING B423      | AG.14   |       |  |
|                     | AG.15   | RECEPT COPIER TEACHERS PLANNING B423 | 2/A 1      |                                      | 360 / 180   |             | 1 20 A                         | RECEPT REF. TEACHERS PLANNING B423 | AG.16   |       |  |
|                     | AG.17   | RECEPT TEACHERS PLANNING B423        | 2/A 1      |                                      |             | 180 / 180   | 1 20 A                         | RECEPT TEACHERS PLANNING B423      | AG.18   |       |  |
|                     | AG.19   | RECEPT TL B402A                      | 2/A 1      | 180 / 180                            |             |             | 1 20 A                         | RECEPT SPACE 888                   | AG.20   |       |  |
|                     | AG.21   |                                      |            |                                      |             |             |                                |                                    | AG.22   |       |  |
|                     | AG.23   |                                      |            |                                      |             |             |                                |                                    | AG.24   |       |  |
|                     | AG.25   |                                      |            |                                      |             |             |                                |                                    | AG.26   |       |  |
|                     | AG.27   |                                      |            |                                      |             |             |                                |                                    | AG.28   |       |  |
|                     | AG.29   |                                      |            |                                      |             |             |                                |                                    | AG.30   |       |  |
|                     | AG.31   |                                      |            |                                      |             |             |                                |                                    | AG.32   |       |  |
|                     | AG.33   |                                      |            |                                      |             |             |                                |                                    | AG.34   |       |  |
|                     | AG.35   |                                      |            |                                      |             |             |                                |                                    | AG.36   |       |  |
|                     | AG.37   |                                      |            |                                      |             |             |                                |                                    | AG.38   |       |  |
|                     | AG.39   |                                      |            |                                      |             |             |                                |                                    | AG.40   |       |  |
|                     | AG.41   |                                      |            |                                      |             |             |                                |                                    | AG.42   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
|                     | AG...   |                                      |            |                                      |             |             |                                |                                    | AG...   |       |  |
| -- -- AG...         | SPARE   | 2... 1                               | 0 / 0      |                                      |             |             | 1 20 A                         | SPARE                              | AG...   | -- -- |  |
| -- -- AG...         | SPARE   | 2... 1                               |            | 0 / 0                                |             |             | 1 20 A                         | SPARE                              | AG...   | -- -- |  |
| -- -- AG...         | SPARE   | 2... 1                               |            |                                      | 0 / 0       |             | 1 20 A                         | SPARE                              | AG...   | -- -- |  |
| -- -- AG...         | SPARE   | 2... 1                               | 0 / 0      |                                      |             |             | 1 20 A                         | SPARE                              | AG...   | -- -- |  |
| -- -- AG...         | SPARE   | 2... 1                               |            | 0 / 0                                |             |             | 1 20 A                         | SPARE                              | AG...   | -- -- |  |
| -- -- AG...         | SPARE   | 2... 1                               |            |                                      | 0 / 0       |             | 1 20 A                         | SPARE                              | AG...   | -- -- |  |
|                     |         | Lead Per...                          |            | 7920 VA                              | 7920 VA     | 5580 VA     |                                |                                    |         |       |  |
| Load Classification |         |                                      |            | Connected...                         | Demand...   | Est. Demand | Panel Totals                   |                                    |         |       |  |
| RECEPT              |         |                                      |            | 20520 VA                             | 74.37%      | 15250 VA    | TOTAL CONNECTED LOAD: 20520 VA |                                    |         |       |  |
|                     |         |                                      |            | TOTAL ESTIMATED DEMAND: 15250 VA     |             |             |                                |                                    |         |       |  |
|                     |         |                                      |            | TOTAL CONNECTED CURRENT: 57 A        |             |             |                                |                                    |         |       |  |
|                     |         |                                      |            | TOTAL ESTIMATED DEMAND CURRENT: 42 A |             |             |                                |                                    |         |       |  |
| NOTES:              |         |                                      |            |                                      |             |             |                                |                                    |         |       |  |

Panelboard: LP-4B

Location:  
Supply From: T-4B  
Mounting: SURFACE  
Enclosure: TYPE 1

Distribution System: 120/208 Vyle  
Phases: 3  
Wires: 4  
Modifications:

A.I.C. Rating: 10KAIC  
Main: Type: MCB  
Main Rating: 400 A  
MCB Rating: 400 A

| Notes        | Writing | Ckt. No. | Load Description                  | Tripp | Poles | A           | B           | C           | Poles                                 | Tripp | Load Description                  | Ckt. No. | Writing | Note |
|--------------|---------|----------|-----------------------------------|-------|-------|-------------|-------------|-------------|---------------------------------------|-------|-----------------------------------|----------|---------|------|
| CTL          |         | AL-1     | RECEPT CR B424                    | 20    | 1     | 1800 / 1440 |             |             | 1                                     | 20 A  | RECEPT CR B424                    | AL-2     |         |      |
|              |         | AL-3     | RECEPT CR B425                    | 20    | 1     |             | 1440 / 1800 |             | 1                                     | 20 A  | RECEPT CR B425                    | AL-4     | CTL     |      |
|              |         | AL-5     | RECEPT CR B425                    | 20    | 1     |             |             | 1440 / 1800 | 1                                     | 20 A  | RECEPT CR B425                    | AL-6     | CTL     |      |
|              |         | AL-7     | RECEPT CR B427                    | 20    | 1     | 1440 / 1800 |             |             | 1                                     | 20 A  | RECEPT CR B427                    | AL-8     | CTL     |      |
|              |         | AL-9     | RECEPT CR B428                    | 20    | 1     |             | 1440 / 1800 |             | 1                                     | 20 A  | RECEPT CR B428                    | AL-10    | CTL     |      |
|              |         | AL-11    | RECEPT CR B410                    | 20    | 1     |             |             | 1440 / 1440 | 1                                     | 20 A  | RECEPT CR B410                    | AL-12    | CTL     |      |
|              |         | AL-13    | RECEPT CR B409                    | 20    | 1     | 1440 / 1800 |             |             | 1                                     | 20 A  | RECEPT CR B409                    | AL-14    | CTL     |      |
|              |         | AL-15    | RECEPT ROOM B407, B408            | 20    | 1     |             | 540 / 540   |             | 1                                     | 20 A  | RECEPT ROOM B407, B408            | AL-16    |         |      |
|              |         | AL-17    | RECEPT HUBBLE B423B               | 20    | 1     |             |             | 540 / 180   | 1                                     | 20 A  | RECEPT TL1 B402E                  | AL-18    |         |      |
|              |         | AL-19    | RECEPT TL1 B413                   | 20    | 1     | 180 / 1440  |             |             | 1                                     | 20 A  | RECEPT SPEED LEARNING CENTER B411 | AL-20    |         |      |
| CTL          |         | AL-21    | RECEPT SPEED LEARNING CENTER B411 | 20    | 1     |             | 2160 / 0    |             |                                       |       |                                   | AL-22    |         |      |
|              |         | AL-23    |                                   |       |       |             |             |             |                                       |       |                                   | AL-24    |         |      |
|              |         | AL-25    |                                   |       |       |             |             |             |                                       |       |                                   | AL-26    |         |      |
|              |         | AL-27    |                                   |       |       |             |             |             |                                       |       |                                   | AL-28    |         |      |
|              |         | AL-29    |                                   |       |       |             |             |             |                                       |       |                                   | AL-30    |         |      |
|              |         | AL-31    |                                   |       |       |             |             |             |                                       |       |                                   | AL-32    |         |      |
|              |         | AL-33    |                                   |       |       |             |             |             |                                       |       |                                   | AL-34    |         |      |
|              |         | AL-35    |                                   |       |       |             |             |             |                                       |       |                                   | AL-36    |         |      |
|              |         | AL-37    |                                   |       |       |             |             |             |                                       |       |                                   | AL-38    |         |      |
|              |         | AL-39    |                                   |       |       |             |             |             |                                       |       |                                   | AL-40    |         |      |
|              |         | AL-41    |                                   |       |       |             |             |             |                                       |       |                                   | AL-42    |         |      |
|              |         | AL-43    |                                   |       |       |             |             |             |                                       |       |                                   | AL-44    |         |      |
|              |         | AL-45    |                                   |       |       |             |             |             |                                       |       |                                   | AL-46    |         |      |
|              |         | AL-47    |                                   |       |       |             |             |             |                                       |       |                                   | AL-48    |         |      |
|              |         | AL-49    |                                   |       |       |             |             |             |                                       |       |                                   | AL-50    |         |      |
|              |         | AL-51    |                                   |       |       |             |             |             |                                       |       |                                   | AL-52    |         |      |
|              |         | AL-53    |                                   |       |       |             |             |             |                                       |       |                                   | AL-54    |         |      |
|              |         | AL-55    |                                   |       |       |             |             |             |                                       |       |                                   | AL-56    |         |      |
|              |         | AL-57    |                                   |       |       |             |             |             |                                       |       |                                   | AL-58    |         |      |
|              |         | AL-59    |                                   |       |       |             |             |             |                                       |       |                                   | AL-60    |         |      |
|              |         | AL-61    |                                   |       |       |             |             |             |                                       |       |                                   | AL-62    |         |      |
|              |         | AL-63    |                                   |       |       |             |             |             |                                       |       |                                   | AL-64    |         |      |
|              |         | AL-65    |                                   |       |       |             |             |             |                                       |       |                                   | AL-66    |         |      |
|              |         | AL-67    |                                   |       |       |             |             |             |                                       |       |                                   | AL-68    |         |      |
|              |         | AL-69    |                                   |       |       |             |             |             |                                       |       |                                   | AL-70    |         |      |
|              |         | AL-71    |                                   |       |       |             |             |             |                                       |       |                                   | AL-72    |         |      |
| --           | --      | AL-73    | SPARE                             | 2     | 1     | 0 / 0       |             |             | 1                                     | 20 A  | SPARE                             | AL-74    | --      |      |
|              |         | AL-75    | SPARE                             | 2     | 1     |             | 0 / 0       |             | 1                                     | 20 A  | SPARE                             | AL-76    | --      |      |
|              |         | AL-77    | SPARE                             |       |       |             |             | 0 / 0       | 1                                     | 20 A  | SPARE                             | AL-78    | --      |      |
|              |         | AL-79    | SPARE                             | 2     | 1     | 0 / 0       |             |             | 1                                     | 20 A  | SPARE                             | AL-80    | --      |      |
| --           | --      | AL-81    | SPARE                             | 2     | 1     |             | 0 / 0       |             | 1                                     | 20 A  | SPARE                             | AL-82    | --      |      |
| --           | --      | AL-83    | SPARE                             | 2     | 1     |             |             | 0 / 0       | 1                                     | 20 A  | SPARE                             | AL-84    | --      |      |
| Load Per...  |         |          |                                   |       |       | 11340 VA    | 9720 VA     | 6840 VA     |                                       |       |                                   |          |         |      |
| Connected... |         |          |                                   |       |       | 27900 VA    | 67.92%      | Est. Demand | Panel Totals                          |       |                                   |          |         |      |
| RECEPT       |         |          |                                   |       |       |             |             |             | TOTAL CONNECTED LOAD : 27900 VA       |       |                                   |          |         |      |
|              |         |          |                                   |       |       |             |             |             | TOTAL ESTIMATED DEMAND : 18950 VA     |       |                                   |          |         |      |
|              |         |          |                                   |       |       |             |             |             | TOTAL CONNECTED CURRENT : 17 A        |       |                                   |          |         |      |
|              |         |          |                                   |       |       |             |             |             | TOTAL ESTIMATED DEMAND CURRENT : 53 A |       |                                   |          |         |      |
| NOTES:       |         |          |                                   |       |       |             |             |             |                                       |       |                                   |          |         |      |

Panelboard: LP-LLC

Location: T-LLC

Supply From: SURFACE

Enclosure: TYPE 1

Distribution System: 120/208 Vye

Phases: 3

Wires: 4

A.I.C. Rating: 10kAIC

Mains Type: MLO

Mains Rating: 400 A

MCB Rating:

| Notes               | Wiring | Ckt. No.    | Load Description | Trip | Poles | LOAD PHASE-A (VA) | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip        | Load Description | Ckt. No.                            | Wiring | Note |
|---------------------|--------|-------------|------------------|------|-------|-------------------|-------------------|-------------------|-------|-------------|------------------|-------------------------------------|--------|------|
|                     |        | BF-1        |                  |      |       |                   |                   |                   |       |             |                  | BF-2                                |        |      |
|                     |        | BF-3        |                  |      |       |                   |                   |                   |       |             |                  | BF-4                                |        |      |
|                     |        | BF-5        |                  |      |       |                   |                   |                   |       |             |                  | BF-5                                |        |      |
|                     |        | BF-7        |                  |      |       |                   |                   |                   |       |             |                  | BF-8                                |        |      |
|                     |        | BF-9        |                  |      |       |                   |                   |                   |       |             |                  | BF-10                               |        |      |
|                     |        | BF-11       |                  |      |       |                   |                   |                   |       |             |                  | BF-12                               |        |      |
|                     |        | BF-13       |                  |      |       |                   |                   |                   |       |             |                  | BF-14                               |        |      |
|                     |        | BF-15       |                  |      |       |                   |                   |                   |       |             |                  | BF-16                               |        |      |
|                     |        | BF-17       |                  |      |       |                   |                   |                   |       |             |                  | BF-18                               |        |      |
|                     |        | BF-19       |                  |      |       |                   |                   |                   |       |             |                  | BF-20                               |        |      |
|                     |        | BF-21       |                  |      |       |                   |                   |                   |       |             |                  | BF-22                               |        |      |
|                     |        | BF-23       |                  |      |       |                   |                   |                   |       |             |                  | BF-24                               |        |      |
|                     |        | BF-25       |                  |      |       |                   |                   |                   |       |             |                  | BF-26                               |        |      |
|                     |        | BF-27       |                  |      |       |                   |                   |                   |       |             |                  | BF-28                               |        |      |
|                     |        | BF-29       |                  |      |       |                   |                   |                   |       |             |                  | BF-30                               |        |      |
|                     |        | BF-31       |                  |      |       |                   |                   |                   |       |             |                  | BF-32                               |        |      |
|                     |        | BF-33       |                  |      |       |                   |                   |                   |       |             |                  | BF-34                               |        |      |
|                     |        | BF-35       |                  |      |       |                   |                   |                   |       |             |                  | BF-36                               |        |      |
|                     |        | BF-37       |                  |      |       |                   |                   |                   |       |             |                  | BF-38                               |        |      |
|                     |        | BF-39       |                  |      |       |                   |                   |                   |       |             |                  | BF-40                               |        |      |
|                     |        | BF-41       |                  |      |       |                   |                   |                   |       |             |                  | BF-42                               |        |      |
|                     |        | BF-43       |                  |      |       |                   |                   |                   |       |             |                  | BF-44                               |        |      |
|                     |        | BF-45       |                  |      |       |                   |                   |                   |       |             |                  | BF-46                               |        |      |
|                     |        | BF-47       |                  |      |       |                   |                   |                   |       |             |                  | BF-48                               |        |      |
|                     |        | BF-49       |                  |      |       |                   |                   |                   |       |             |                  | BF-50                               |        |      |
|                     |        | BF-51       |                  |      |       |                   |                   |                   |       |             |                  | BF-52                               |        |      |
|                     |        | BF-53       |                  |      |       |                   |                   |                   |       |             |                  | BF-54                               |        |      |
|                     |        | BF-55       |                  |      |       |                   |                   |                   |       |             |                  | BF-56                               |        |      |
|                     |        | BF-57       |                  |      |       |                   |                   |                   |       |             |                  | BF-58                               |        |      |
|                     |        | BF-59       |                  |      |       |                   |                   |                   |       |             |                  | BF-60                               |        |      |
|                     |        | BF-61       |                  |      |       |                   |                   |                   |       |             |                  | BF-62                               |        |      |
|                     |        | BF-63       |                  |      |       |                   |                   |                   |       |             |                  | BF-64                               |        |      |
|                     |        | BF-65       |                  |      |       |                   |                   |                   |       |             |                  | BF-66                               |        |      |
|                     |        | BF-67       |                  |      |       |                   |                   |                   |       |             |                  | BF-68                               |        |      |
|                     |        | BF-69       |                  |      |       |                   |                   |                   |       |             |                  | BF-70                               |        |      |
|                     |        | BF-71       |                  |      |       |                   |                   |                   |       |             |                  | BF-72                               |        |      |
| --                  | --     | BF-73 SPARE | 20 A             | 1    |       | 0 / 0             |                   |                   | 1     | 20 A        | SPARE            | BF-74                               | --     |      |
| --                  | --     | BF-75 SPARE | 20 A             | 1    |       |                   | 0 / 0             |                   | 1     | 20 A        | SPARE            | BF-76                               | --     |      |
| --                  | --     | BF-77 SPARE | 20 A             | 1    |       |                   |                   | 0 / 0             | 1     | 20 A        | SPARE            | BF-78                               | --     |      |
| --                  | --     | BF-79 SPARE | 20 A             | 1    |       | 0 / 0             |                   |                   | 1     | 20 A        | SPARE            | BF-80                               | --     |      |
| --                  | --     | BF-81 SPARE | 20 A             | 1    |       |                   | 0 / 0             |                   | 1     | 20 A        | SPARE            | BF-82                               | --     |      |
| --                  | --     | BF-83 SPARE | 20 A             | 1    |       |                   |                   | 0 / 0             | 1     | 20 A        | SPARE            | BF-84                               | --     |      |
|                     |        | Load Per... |                  |      |       | 0 VA              | 0 VA              | 0 VA              |       |             |                  |                                     |        |      |
|                     |        |             |                  |      |       |                   |                   |                   |       |             |                  |                                     |        |      |
| Load Classification |        |             |                  |      |       | Connected...      |                   | Demand...         |       | Est. Demand |                  | Panel Totals                        |        |      |
|                     |        |             |                  |      |       |                   |                   |                   |       |             |                  | TOTAL CONNECTED LOAD: 0 VA          |        |      |
|                     |        |             |                  |      |       |                   |                   |                   |       |             |                  | TOTAL ESTIMATED DEMAND: 0 VA        |        |      |
|                     |        |             |                  |      |       |                   |                   |                   |       |             |                  | TOTAL CONNECTED CURRENT: 0 A        |        |      |
|                     |        |             |                  |      |       |                   |                   |                   |       |             |                  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |        |      |
|                     |        |             |                  |      |       |                   |                   |                   |       |             |                  |                                     |        |      |
| NOTES:              |        |             |                  |      |       |                   |                   |                   |       |             |                  |                                     |        |      |

Panelboard: LP-LLD

Location:  
Supply From: T-LLD  
Mounting: SURFACE  
Enclosure: TYPE 1

Distribution System: 120/208 Wye  
Phases: 3  
Wires: 4  
Modifications:

A.I.C. Rating: 10K AIC  
Mains Type: MLO  
Mains Rating: 400 A  
MCB Rating:

| Notes               | Writing | Ckt. No.    | Load Description | Trip         | Poles     | LOAD<br>PHASE-A (VA) | LOAD<br>PHASE-B (VA) | LOAD<br>PHASE-C (VA)                | Poles | Trip         | Load Description | Ckt. No. | Writing | Notes |
|---------------------|---------|-------------|------------------|--------------|-----------|----------------------|----------------------|-------------------------------------|-------|--------------|------------------|----------|---------|-------|
|                     |         | 80.1        |                  |              |           |                      |                      |                                     |       |              |                  | 80.2     |         |       |
|                     |         | 80.3        |                  |              |           |                      |                      |                                     |       |              |                  | 80.4     |         |       |
|                     |         | 80.5        |                  |              |           |                      |                      |                                     |       |              |                  | 80.6     |         |       |
|                     |         | 80.7        |                  |              |           |                      |                      |                                     |       |              |                  | 80.8     |         |       |
|                     |         | 80.9        |                  |              |           |                      |                      |                                     |       |              |                  | 80.10    |         |       |
|                     |         | 80.11       |                  |              |           |                      |                      |                                     |       |              |                  | 80.12    |         |       |
|                     |         | 80.13       |                  |              |           |                      |                      |                                     |       |              |                  | 80.14    |         |       |
|                     |         | 80.15       |                  |              |           |                      |                      |                                     |       |              |                  | 80.16    |         |       |
|                     |         | 80.17       |                  |              |           |                      |                      |                                     |       |              |                  | 80.18    |         |       |
|                     |         | 80.19       |                  |              |           |                      |                      |                                     |       |              |                  | 80.20    |         |       |
|                     |         | 80.21       |                  |              |           |                      |                      |                                     |       |              |                  | 80.22    |         |       |
|                     |         | 80.23       |                  |              |           |                      |                      |                                     |       |              |                  | 80.24    |         |       |
|                     |         | 80.25       |                  |              |           |                      |                      |                                     |       |              |                  | 80.26    |         |       |
|                     |         | 80.27       |                  |              |           |                      |                      |                                     |       |              |                  | 80.28    |         |       |
|                     |         | 80.29       |                  |              |           |                      |                      |                                     |       |              |                  | 80.30    |         |       |
|                     |         | 80.31       |                  |              |           |                      |                      |                                     |       |              |                  | 80.32    |         |       |
|                     |         | 80.33       |                  |              |           |                      |                      |                                     |       |              |                  | 80.34    |         |       |
|                     |         | 80.35       |                  |              |           |                      |                      |                                     |       |              |                  | 80.36    |         |       |
|                     |         | 80.37       |                  |              |           |                      |                      |                                     |       |              |                  | 80.38    |         |       |
|                     |         | 80.39       |                  |              |           |                      |                      |                                     |       |              |                  | 80.40    |         |       |
|                     |         | 80.41       |                  |              |           |                      |                      |                                     |       |              |                  | 80.42    |         |       |
|                     |         | 80.43       |                  |              |           |                      |                      |                                     |       |              |                  | 80.44    |         |       |
|                     |         | 80.45       |                  |              |           |                      |                      |                                     |       |              |                  | 80.46    |         |       |
|                     |         | 80.47       |                  |              |           |                      |                      |                                     |       |              |                  | 80.48    |         |       |
|                     |         | 80.49       |                  |              |           |                      |                      |                                     |       |              |                  | 80.50    |         |       |
|                     |         | 80.51       |                  |              |           |                      |                      |                                     |       |              |                  | 80.52    |         |       |
|                     |         | 80.53       |                  |              |           |                      |                      |                                     |       |              |                  | 80.54    |         |       |
|                     |         | 80.55       |                  |              |           |                      |                      |                                     |       |              |                  | 80.56    |         |       |
|                     |         | 80.57       |                  |              |           |                      |                      |                                     |       |              |                  | 80.58    |         |       |
|                     |         | 80.59       |                  |              |           |                      |                      |                                     |       |              |                  | 80.60    |         |       |
|                     |         | 80.61       |                  |              |           |                      |                      |                                     |       |              |                  | 80.62    |         |       |
|                     |         | 80.63       |                  |              |           |                      |                      |                                     |       |              |                  | 80.64    |         |       |
|                     |         | 80.65       |                  |              |           |                      |                      |                                     |       |              |                  | 80.66    |         |       |
|                     |         | 80.67       |                  |              |           |                      |                      |                                     |       |              |                  | 80.68    |         |       |
|                     |         | 80.69       |                  |              |           |                      |                      |                                     |       |              |                  | 80.70    |         |       |
|                     |         | 80.71       |                  |              |           |                      |                      |                                     |       |              |                  | 80.72    |         |       |
| --                  | --      | 80.73 SPARE |                  | 20 A         | 1         | 0 / 0                |                      |                                     | 1     | 20 A         | SPARE            | 80.74    | --      |       |
| --                  | --      | 80.75 SPARE |                  | 20 A         | 1         |                      | 0 / 0                |                                     | 1     | 20 A         | SPARE            | 80.76    | --      |       |
| --                  | --      | 80.77 SPARE |                  | 20 A         | 1         |                      |                      | 0 / 0                               | 1     | 20 A         | SPARE            | 80.78    | --      |       |
| --                  | --      | 80.79 SPARE |                  | 20 A         | 1         | 0 / 0                |                      |                                     | 1     | 20 A         | SPARE            | 80.80    | --      |       |
| --                  | --      | 80.81 SPARE |                  | 20 A         | 1         |                      | 0 / 0                |                                     | 1     | 20 A         | SPARE            | 80.82    | --      |       |
| --                  | --      | 80.83 SPARE |                  | 20 A         | 1         |                      |                      | 0 / 0                               | 1     | 20 A         | SPARE            | 80.84    | --      |       |
|                     |         | Load Per... |                  | 0 VA         |           | 0 VA                 |                      | 0 VA                                |       |              |                  |          |         |       |
| Load Classification |         |             |                  | Connected... | Demand... | Est. Demand          |                      |                                     |       | Panel Totals |                  |          |         |       |
|                     |         |             |                  |              |           |                      |                      | TOTAL CONNECTED LOAD: 0 VA          |       |              |                  |          |         |       |
|                     |         |             |                  |              |           |                      |                      | TOTAL ESTIMATED DEMAND: 0 VA        |       |              |                  |          |         |       |
|                     |         |             |                  |              |           |                      |                      | TOTAL CONNECTED CURRENT: 0 A        |       |              |                  |          |         |       |
|                     |         |             |                  |              |           |                      |                      | TOTAL ESTIMATED DEMAND CURRENT: 0 A |       |              |                  |          |         |       |
| NOTES:              |         |             |                  |              |           |                      |                      |                                     |       |              |                  |          |         |       |



| Panelboard: LP-LLB                                                        |        |             |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  |          |        |       |
|---------------------------------------------------------------------------|--------|-------------|------------------|------|-----------------------------------------------------------------------------|-------------------------------------|-------------------|-------------------|--------------|------------------------------------------------------------------------------|------------------|----------|--------|-------|
| Location:<br>Supply From: T-LLB<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |             |                  |      | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                                     |                   |                   |              | A.I.C. Rating: 10kAIC<br>Main Type: MLO<br>Main Rating: 400 A<br>MCB Rating: |                  |          |        |       |
| Notes                                                                     | Wiring | Ckt. No.    | Load Description | Trip | Poles                                                                       | LOAD PHASE-A (VA)                   | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles        | Trip                                                                         | Load Description | Ckt. No. | Wiring | Notes |
|                                                                           |        | BD.1        |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.2     |        |       |
|                                                                           |        | BD.3        |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.4     |        |       |
|                                                                           |        | BD.5        |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.6     |        |       |
|                                                                           |        | BD.7        |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.8     |        |       |
|                                                                           |        | BD.9        |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.10    |        |       |
|                                                                           |        | BD.11       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.12    |        |       |
|                                                                           |        | BD.13       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.14    |        |       |
|                                                                           |        | BD.15       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.16    |        |       |
|                                                                           |        | BD.17       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.18    |        |       |
|                                                                           |        | BD.19       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.20    |        |       |
|                                                                           |        | BD.21       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.22    |        |       |
|                                                                           |        | BD.23       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.24    |        |       |
|                                                                           |        | BD.25       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.26    |        |       |
|                                                                           |        | BD.27       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.28    |        |       |
|                                                                           |        | BD.29       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.30    |        |       |
|                                                                           |        | BD.31       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.32    |        |       |
|                                                                           |        | BD.33       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.34    |        |       |
|                                                                           |        | BD.35       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.36    |        |       |
|                                                                           |        | BD.37       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.38    |        |       |
|                                                                           |        | BD.39       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.40    |        |       |
|                                                                           |        | BD.41       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.42    |        |       |
|                                                                           |        | BD.43       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.44    |        |       |
|                                                                           |        | BD.45       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.46    |        |       |
|                                                                           |        | BD.47       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.48    |        |       |
|                                                                           |        | BD.49       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.50    |        |       |
|                                                                           |        | BD.51       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.52    |        |       |
|                                                                           |        | BD.53       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.54    |        |       |
|                                                                           |        | BD.55       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.56    |        |       |
|                                                                           |        | BD.57       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.58    |        |       |
|                                                                           |        | BD.59       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.60    |        |       |
|                                                                           |        | BD.61       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.62    |        |       |
|                                                                           |        | BD.63       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.64    |        |       |
|                                                                           |        | BD.65       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.66    |        |       |
|                                                                           |        | BD.67       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.68    |        |       |
|                                                                           |        | BD.69       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.70    |        |       |
|                                                                           |        | BD.71       |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  | BD.72    |        |       |
| --                                                                        | --     | BD.73 SPARE | 20 A             | 1    | 0 / 0                                                                       |                                     |                   |                   | 1            | 20 A                                                                         | SPARE            | BD.74    | --     | --    |
| --                                                                        | --     | BD.75 SPARE | 20 A             | 1    |                                                                             | 0 / 0                               |                   |                   |              | 1                                                                            | 20 A             | SPARE    | BD.76  | --    |
| --                                                                        | --     | BD.77 SPARE | 20 A             | 1    |                                                                             |                                     | 0 / 0             |                   | 1            | 20 A                                                                         | SPARE            | BD.78    | --     | --    |
| --                                                                        | --     | BD.79 SPARE | 20 A             | 1    | 0 / 0                                                                       |                                     |                   |                   | 1            | 20 A                                                                         | SPARE            | BD.80    | --     | --    |
| --                                                                        | --     | BD.81 SPARE | 20 A             | 1    |                                                                             | 0 / 0                               |                   |                   | 1            | 20 A                                                                         | SPARE            | BD.82    | --     | --    |
| --                                                                        | --     | BD.83 SPARE | 20 A             | 1    |                                                                             |                                     | 0 / 0             |                   | 1            | 20 A                                                                         | SPARE            | BD.84    | --     | --    |
| Load Per...                                                               |        |             |                  |      |                                                                             | 0 VA                                | 0 VA              | 0 VA              |              |                                                                              |                  |          |        |       |
| Load Classification                                                       |        |             |                  |      |                                                                             | Connected...                        | Demand...         | Est. Demand       | Panel Totals |                                                                              |                  |          |        |       |
|                                                                           |        |             |                  |      |                                                                             | TOTAL CONNECTED LOAD: 0 VA          |                   |                   |              |                                                                              |                  |          |        |       |
|                                                                           |        |             |                  |      |                                                                             | TOTAL ESTIMATED DEMAND: 0 VA        |                   |                   |              |                                                                              |                  |          |        |       |
|                                                                           |        |             |                  |      |                                                                             | TOTAL CONNECTED CURRENT: 0 A        |                   |                   |              |                                                                              |                  |          |        |       |
|                                                                           |        |             |                  |      |                                                                             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |                   |                   |              |                                                                              |                  |          |        |       |
| NOTES:                                                                    |        |             |                  |      |                                                                             |                                     |                   |                   |              |                                                                              |                  |          |        |       |

| Panelboard: LP-1C                                                        |        |          |                  |      |       | Distribution System: 120/208 Wye        |                   |                   |              |      |                  | A.I.C. Rating: 10kAIC                               |        |       |  |  |  |
|--------------------------------------------------------------------------|--------|----------|------------------|------|-------|-----------------------------------------|-------------------|-------------------|--------------|------|------------------|-----------------------------------------------------|--------|-------|--|--|--|
| Location:<br>Supply From: T-1C<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |      |       | Phases: 3<br>Wires: 4<br>Modifications: |                   |                   |              |      |                  | Main Type: MLO<br>Main Rating: 300 A<br>MCB Rating: |        |       |  |  |  |
| Notes                                                                    | Wiring | Ckt. No. | Load Description | Trip | Poles | LOAD PHASE-A (VA)                       | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles        | Trip | Load Description | Ckt. No.                                            | Wiring | Notes |  |  |  |
|                                                                          |        | 1        |                  |      |       |                                         |                   |                   |              |      |                  | 2                                                   |        |       |  |  |  |
|                                                                          |        | 3        |                  |      |       |                                         |                   |                   |              |      |                  | 4                                                   |        |       |  |  |  |
|                                                                          |        | 5        |                  |      |       |                                         |                   |                   |              |      |                  | 6                                                   |        |       |  |  |  |
|                                                                          |        | 7        |                  |      |       |                                         |                   |                   |              |      |                  | 8                                                   |        |       |  |  |  |
|                                                                          |        | 9        |                  |      |       |                                         |                   |                   |              |      |                  | 10                                                  |        |       |  |  |  |
|                                                                          |        | 11       |                  |      |       |                                         |                   |                   |              |      |                  | 12                                                  |        |       |  |  |  |
|                                                                          |        | 13       |                  |      |       |                                         |                   |                   |              |      |                  | 14                                                  |        |       |  |  |  |
|                                                                          |        | 15       |                  |      |       |                                         |                   |                   |              |      |                  | 16                                                  |        |       |  |  |  |
|                                                                          |        | 17       |                  |      |       |                                         |                   |                   |              |      |                  | 18                                                  |        |       |  |  |  |
|                                                                          |        | 19       |                  |      |       |                                         |                   |                   |              |      |                  | 20                                                  |        |       |  |  |  |
|                                                                          |        | 21       |                  |      |       |                                         |                   |                   |              |      |                  | 22                                                  |        |       |  |  |  |
|                                                                          |        | 23       |                  |      |       |                                         |                   |                   |              |      |                  | 24                                                  |        |       |  |  |  |
|                                                                          |        | 25       |                  |      |       |                                         |                   |                   |              |      |                  | 26                                                  |        |       |  |  |  |
|                                                                          |        | 27       |                  |      |       |                                         |                   |                   |              |      |                  | 28                                                  |        |       |  |  |  |
|                                                                          |        | 29       |                  |      |       |                                         |                   |                   |              |      |                  | 30                                                  |        |       |  |  |  |
|                                                                          |        | 31       |                  |      |       |                                         |                   |                   |              |      |                  | 32                                                  |        |       |  |  |  |
|                                                                          |        | 33       |                  |      |       |                                         |                   |                   |              |      |                  | 34                                                  |        |       |  |  |  |
|                                                                          |        | 35       |                  |      |       |                                         |                   |                   |              |      |                  | 36                                                  |        |       |  |  |  |
|                                                                          |        | 37       |                  |      |       |                                         |                   |                   |              |      |                  | 38                                                  |        |       |  |  |  |
|                                                                          |        | 39       |                  |      |       |                                         |                   |                   |              |      |                  | 40                                                  |        |       |  |  |  |
|                                                                          |        | 41       |                  |      |       |                                         |                   |                   |              |      |                  | 42                                                  |        |       |  |  |  |
|                                                                          |        | 43       |                  |      |       |                                         |                   |                   |              |      |                  | 44                                                  |        |       |  |  |  |
|                                                                          |        | 45       |                  |      |       |                                         |                   |                   |              |      |                  | 46                                                  |        |       |  |  |  |
|                                                                          |        | 47       |                  |      |       |                                         |                   |                   |              |      |                  | 48                                                  |        |       |  |  |  |
|                                                                          |        | 49       |                  |      |       |                                         |                   |                   |              |      |                  | 50                                                  |        |       |  |  |  |
|                                                                          |        | 51       |                  |      |       |                                         |                   |                   |              |      |                  | 52                                                  |        |       |  |  |  |
|                                                                          |        | 53       |                  |      |       |                                         |                   |                   |              |      |                  | 54                                                  |        |       |  |  |  |
|                                                                          |        | 55       |                  |      |       |                                         |                   |                   |              |      |                  | 56                                                  |        |       |  |  |  |
|                                                                          |        | 57       |                  |      |       |                                         |                   |                   |              |      |                  | 58                                                  |        |       |  |  |  |
|                                                                          |        | 59       |                  |      |       |                                         |                   |                   |              |      |                  | 60                                                  |        |       |  |  |  |
|                                                                          |        | 61       |                  |      |       |                                         |                   |                   |              |      |                  | 62                                                  |        |       |  |  |  |
|                                                                          |        | 63       |                  |      |       |                                         |                   |                   |              |      |                  | 64                                                  |        |       |  |  |  |
|                                                                          |        | 65       |                  |      |       |                                         |                   |                   |              |      |                  | 66                                                  |        |       |  |  |  |
|                                                                          |        | 67       |                  |      |       |                                         |                   |                   |              |      |                  | 68                                                  |        |       |  |  |  |
|                                                                          |        | 69       |                  |      |       |                                         |                   |                   |              |      |                  | 70                                                  |        |       |  |  |  |
|                                                                          |        | 71       |                  |      |       |                                         |                   |                   |              |      |                  | 72                                                  |        |       |  |  |  |
|                                                                          |        | 73       |                  |      |       |                                         |                   |                   |              |      |                  | 74                                                  |        |       |  |  |  |
|                                                                          |        | 75       |                  |      |       |                                         |                   |                   |              |      |                  | 76                                                  |        |       |  |  |  |
|                                                                          |        | 77       |                  |      |       |                                         |                   |                   |              |      |                  | 78                                                  |        |       |  |  |  |
|                                                                          |        | 79       |                  |      |       |                                         |                   |                   |              |      |                  | 80                                                  |        |       |  |  |  |
|                                                                          |        | 81       |                  |      |       |                                         |                   |                   |              |      |                  | 82                                                  |        |       |  |  |  |
|                                                                          |        | 83       |                  |      |       |                                         |                   |                   |              |      |                  | 84                                                  |        |       |  |  |  |
| Load Per--                                                               |        |          |                  |      |       | 0 VA                                    | 0 VA              | 0 VA              |              |      |                  |                                                     |        |       |  |  |  |
| Load Classification                                                      |        |          |                  |      |       | Connected...                            | Demand...         | Est. Demand       | Panel Totals |      |                  |                                                     |        |       |  |  |  |
|                                                                          |        |          |                  |      |       | TOTAL CONNECTED LOAD: 0 VA              |                   |                   |              |      |                  |                                                     |        |       |  |  |  |
|                                                                          |        |          |                  |      |       | TOTAL ESTIMATED DEMAND: 0 VA            |                   |                   |              |      |                  |                                                     |        |       |  |  |  |
|                                                                          |        |          |                  |      |       | TOTAL CONNECTED CURRENT: 0 A            |                   |                   |              |      |                  |                                                     |        |       |  |  |  |
|                                                                          |        |          |                  |      |       | TOTAL ESTIMATED DEMAND CURRENT: 0 A     |                   |                   |              |      |                  |                                                     |        |       |  |  |  |
| NOTES:                                                                   |        |          |                  |      |       |                                         |                   |                   |              |      |                  |                                                     |        |       |  |  |  |



| Panelboard: LP-4D                                                        |        |          |                  |              |       |                                                                             |       |             |       |                                                                                |                  |          |              |
|--------------------------------------------------------------------------|--------|----------|------------------|--------------|-------|-----------------------------------------------------------------------------|-------|-------------|-------|--------------------------------------------------------------------------------|------------------|----------|--------------|
| Location:<br>Supply From: T-4D<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |          |                  |              |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |       |             |       | A.I.C. Rating: 10kAIC<br>Mains Type: MLO<br>Mains Rating: 125 A<br>MCB Rating: |                  |          |              |
| Notes                                                                    | Wiring | Ckt. No. | Load Description | Trip         | Poles | A                                                                           | B     | C           | Poles | Trip                                                                           | Load Description | Ckt. No. | Wiring Notes |
|                                                                          |        | AV-1     |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-2     |              |
|                                                                          |        | AV-3     |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-4     |              |
|                                                                          |        | AV-5     |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-6     |              |
|                                                                          |        | AV-7     |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-8     |              |
|                                                                          |        | AV-9     |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-10    |              |
|                                                                          |        | AV-11    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-12    |              |
|                                                                          |        | AV-13    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-14    |              |
|                                                                          |        | AV-15    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-16    |              |
|                                                                          |        | AV-17    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-18    |              |
|                                                                          |        | AV-19    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-20    |              |
|                                                                          |        | AV-21    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-22    |              |
|                                                                          |        | AV-23    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-24    |              |
|                                                                          |        | AV-25    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-26    |              |
|                                                                          |        | AV-27    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-28    |              |
|                                                                          |        | AV-29    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-30    |              |
|                                                                          |        | AV-31    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-32    |              |
|                                                                          |        | AV-33    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-34    |              |
|                                                                          |        | AV-35    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-36    |              |
|                                                                          |        | AV-37    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-38    |              |
|                                                                          |        | AV-39    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-40    |              |
|                                                                          |        | AV-41    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-42    |              |
|                                                                          |        | AV-43    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-44    |              |
|                                                                          |        | AV-45    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-46    |              |
|                                                                          |        | AV-47    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-48    |              |
|                                                                          |        | AV-49    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-50    |              |
|                                                                          |        | AV-51    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-52    |              |
|                                                                          |        | AV-53    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-54    |              |
|                                                                          |        | AV-55    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-56    |              |
|                                                                          |        | AV-57    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-58    |              |
|                                                                          |        | AV-59    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-60    |              |
|                                                                          |        | AV-61    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-62    |              |
|                                                                          |        | AV-63    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-64    |              |
|                                                                          |        | AV-65    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-66    |              |
|                                                                          |        | AV-67    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-68    |              |
|                                                                          |        | AV-69    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-70    |              |
|                                                                          |        | AV-71    |                  |              |       |                                                                             |       |             |       |                                                                                |                  | AV-72    |              |
| --                                                                       | --     | AV-73    | SPARE            | 2...         | 1     | 0 / 0                                                                       |       |             | 1     | 20 A                                                                           | SPARE            | AV-74    | -- --        |
| --                                                                       | --     | AV-75    | SPARE            | 2...         | 1     |                                                                             | 0 / 0 |             | 1     | 20 A                                                                           | SPARE            | AV-76    | -- --        |
| --                                                                       | --     | AV-77    | SPARE            | 2...         | 1     |                                                                             |       | 0 / 0       | 1     | 20 A                                                                           | SPARE            | AV-78    | -- --        |
| --                                                                       | --     | AV-79    | SPARE            | 2...         | 1     | 0 / 0                                                                       |       |             | 1     | 20 A                                                                           | SPARE            | AV-80    | -- --        |
| --                                                                       | --     | AV-81    | SPARE            | 2...         | 1     |                                                                             |       | 0 / 0       | 1     | 20 A                                                                           | SPARE            | AV-82    | -- --        |
| --                                                                       | --     | AV-83    | SPARE            | 2...         | 1     |                                                                             |       |             | 1     | 20 A                                                                           | SPARE            | AV-84    | -- --        |
| Lead Per...                                                              |        |          |                  |              |       | 0 VA                                                                        | 0 VA  | 0 VA        |       |                                                                                |                  |          |              |
| Load Classification                                                      |        |          |                  | Connected... |       | Demand...                                                                   |       | Est. Demand |       | Panel Totals                                                                   |                  |          |              |
|                                                                          |        |          |                  |              |       |                                                                             |       |             |       | TOTAL CONNECTED LOAD: 0 VA                                                     |                  |          |              |
|                                                                          |        |          |                  |              |       |                                                                             |       |             |       | TOTAL ESTIMATED DEMAND: 0 VA                                                   |                  |          |              |
|                                                                          |        |          |                  |              |       |                                                                             |       |             |       | TOTAL CONNECTED CURRENT: 0 A                                                   |                  |          |              |
|                                                                          |        |          |                  |              |       |                                                                             |       |             |       | TOTAL ESTIMATED DEMAND CURRENT: 0 A                                            |                  |          |              |
| NOTES:                                                                   |        |          |                  |              |       |                                                                             |       |             |       |                                                                                |                  |          |              |



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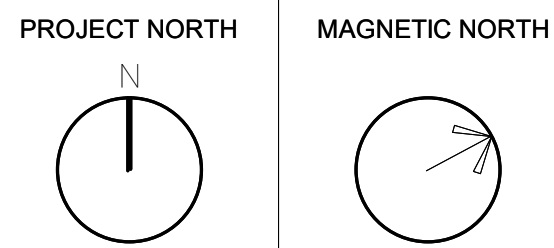
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MSBA 60% CD  
SUBMISSION  
January 13, 2023



ELECTRICAL  
SCHEDULES  
SHEET 7

Scale:  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
E4-0-7



| Switchboard: EM-DPH-LLA            |                     |               |                    |       |                            |         |
|------------------------------------|---------------------|---------------|--------------------|-------|----------------------------|---------|
| Location: ELECT - LIFE SAFETY C006 |                     |               | Volts: 480/277 Wye |       | A.I.C. Rating: 65kAIC      |         |
| Supply From: EM-ATS-LLA            |                     |               | Phases: 3          |       | Mains Type: M.O            |         |
| Mounting: Enclosure:               |                     |               | Wires: 4           |       | Mains Rating: 400 A        |         |
|                                    |                     |               |                    |       | MCB Rating: 400 A          |         |
| CKT                                | CIRCUIT DESCRIPTION | POLES         | FRAME              | TRIP  | LOAD                       | REMARKS |
| 1                                  | EM-LPH-2B           | 3             | 100 A              | 100 A | 0 VA                       |         |
| 2                                  | EM-LPH-3B           | 3             | 100 A              | 100 A | 0 VA                       |         |
| 3                                  | EM-LPH-4B           | 3             | 100 A              | 100 A | 0 VA                       |         |
| 4                                  | EM-LPH-2A           | 3             | 100 A              | 100 A | 0 VA                       |         |
| 5                                  | EM-LPH-3A           | 3             | 100 A              | 100 A | 0 VA                       |         |
| 6                                  | EM-LPH-4A           | 3             | 100 A              | 100 A | 0 VA                       |         |
| 7                                  | EM-LPH-1C           | 3             | 100 A              | 100 A | 0 VA                       |         |
| 8                                  | EM-LPH-LLA          | 3             | 100 A              | 100 A | 0 VA                       |         |
| 9                                  | EM-T-2A (TRAPEZE)   | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 10                                 | EM-T-2B (TRAPEZE)   | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 11                                 | EM-T-3A (TRAPEZE)   | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 12                                 | EM-T-3B (TRAPEZE)   | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 13                                 | EM-T-4A (TRAPEZE)   | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 14                                 | EM-T-4B (TRAPEZE)   | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 15                                 | EM-T-LLA            | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 16                                 | EM-T-1C             | 3             | 50 A               | 50 A  | 0 VA                       |         |
| 17                                 | SPARE               | 3             | 60 A               | 60 A  | 0 VA                       |         |
| 18                                 | SPARE               | 3             | 60 A               | 60 A  | 0 VA                       |         |
| 19                                 |                     |               |                    |       |                            |         |
| 20                                 |                     |               |                    |       |                            |         |
| 21                                 |                     |               |                    |       |                            |         |
| 22                                 |                     |               |                    |       |                            |         |
| 23                                 |                     |               |                    |       |                            |         |
| 24                                 |                     |               |                    |       |                            |         |
| Total Conn. Load:                  |                     |               |                    |       | 0 VA                       |         |
|                                    |                     |               |                    |       | 0 A                        |         |
| LOAD CLASSIFICATION                | CONNECTED LOAD      | DEMAND FACTOR | ESTIMATED DEMAND   |       | TOTALS                     |         |
|                                    |                     |               |                    |       | Total Conn. Load:          | 0 VA    |
|                                    |                     |               |                    |       | Total Est. Demand:         | 0 VA    |
|                                    |                     |               |                    |       | Total Conn. Current:       | 0 A     |
|                                    |                     |               |                    |       | Total Est. Demand Current: | 0 A     |
| NOTES:                             |                     |               |                    |       |                            |         |

| Switchboard: SB-DPH-E...           |                     |                |                    |                  |                        |                                |         |
|------------------------------------|---------------------|----------------|--------------------|------------------|------------------------|--------------------------------|---------|
| Location: ELECT - LIFE SAFETY C006 |                     |                | Volts: 480/277 Wye |                  | A.I.C. Rating: 65kAIC  |                                |         |
| Supply From: EM-ATS-ELEV-LLA       |                     |                | Phases: 3          |                  | Mains Type: M.O        |                                |         |
| Mounting: Enclosure:               |                     |                | Wires: 4           |                  | Mains Rating: 400 A    |                                |         |
|                                    |                     |                |                    |                  | MCB Rating: 400 A      |                                |         |
| CKT                                | CIRCUIT DESCRIPTION |                | POLES              | FRAME            | TRIP                   | LOAD                           | REMARKS |
| 1                                  | PE-1                |                | 3                  | 200 A            | 200 A                  | 0 VA                           |         |
| 2                                  | PE-2                |                | 3                  | 200 A            | 200 A                  | 0 VA                           |         |
| 3                                  | SPARE               |                | 3                  | 200 A            | 200 A                  | 0 VA                           |         |
|                                    |                     |                |                    |                  | Total Conn. Load: 0 VA |                                |         |
|                                    |                     |                |                    |                  | Total Amps: 0 A        |                                |         |
| LOAD CLASSIFICATION                |                     | CONNECTED LOAD | DEMAND FACTOR      | ESTIMATED DEMAND |                        | TOTALS                         |         |
|                                    |                     |                |                    |                  |                        | Total Conn. Load: 0 VA         |         |
|                                    |                     |                |                    |                  |                        | Total Est. Demand: 0 VA        |         |
|                                    |                     |                |                    |                  |                        | Total Conn. Current: 0 A       |         |
|                                    |                     |                |                    |                  |                        | Total Est. Demand Current: 0 A |         |
| NOTES:                             |                     |                |                    |                  |                        |                                |         |

| Switchboard: GEN-EM-D...        |                     |                |                    |                  |                       |                            |         |
|---------------------------------|---------------------|----------------|--------------------|------------------|-----------------------|----------------------------|---------|
| Location: GENERATOR PANELS C007 |                     |                | Volts: 480/277 Wye |                  | A.I.C. Rating: 65kAIC |                            |         |
| Supply From:                    |                     |                | Phases: 3          |                  | Mains Type: M.O       |                            |         |
| Mounting: Enclosure:            |                     |                | Wires: 4           |                  | Mains Rating: 600 A   |                            |         |
|                                 |                     |                |                    |                  | MCB Rating: 600 A     |                            |         |
| CKT                             | CIRCUIT DESCRIPTION |                | POLES              | FRAME            | TRIP                  | LOAD                       | REMARKS |
| 1                               | EM-ATS-ELEV-LLA     |                | 3                  | 400 A            | 400 A                 | 0 VA                       |         |
| 2                               | EM-ATS-LLA          |                | 3                  | 400 A            | 400 A                 | 0 VA                       |         |
| 3                               | ATS-FIRE PUMP       |                | 3                  | 250 A            | 250 A                 | 0 VA                       |         |
| 4                               | SB-ATS-LLA          |                | 3                  | 800 A            | 800 A                 | 0 VA                       |         |
| 5                               | SPARE               |                | 3                  | 400 A            | 400 A                 | 0 VA                       |         |
| 6                               | SPARE               |                | 3                  | 400 A            | 400 A                 | 0 VA                       |         |
| Total Conn. Load:               |                     |                |                    |                  |                       | 0 VA                       |         |
| Total Amps:                     |                     |                |                    |                  |                       | 0 A                        |         |
| LOAD CLASSIFICATION             |                     | CONNECTED LOAD | DEMAND FACTOR      | ESTIMATED DEMAND |                       | TOTALS                     |         |
|                                 |                     |                |                    |                  |                       | Total Conn. Load:          | 0 VA    |
|                                 |                     |                |                    |                  |                       | Total Est. Demand:         | 0 VA    |
|                                 |                     |                |                    |                  |                       | Total Conn. Current:       | 0 A     |
|                                 |                     |                |                    |                  |                       | Total Est. Demand Current: | 0 A     |
| NOTES:                          |                     |                |                    |                  |                       |                            |         |

| Panelboard: EM-LPH-1C                                                       |        |             |                  |              |       |                                                                             |                   |                   |       |                                     |                  |                                                                                 |              |
|-----------------------------------------------------------------------------|--------|-------------|------------------|--------------|-------|-----------------------------------------------------------------------------|-------------------|-------------------|-------|-------------------------------------|------------------|---------------------------------------------------------------------------------|--------------|
| Location: Supply From: EM-DPH-LLA<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |             |                  |              |       | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                   |                   |       |                                     |                  | A.I.C. Rating: 42kVAIC<br>Mains Type: MLO<br>Mains Rating: 100 A<br>MCB Rating: |              |
| Notes                                                                       | Wiring | Ckt. No.    | Load Description | Trip         | Poles | LOAD PHASE-A (VA)                                                           | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip                                | Load Description | Ckt. No.                                                                        | Wiring Notes |
|                                                                             |        | EB-1        |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-2                                                                            |              |
|                                                                             |        | EB-3        |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-4                                                                            |              |
|                                                                             |        | EB-5        |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-6                                                                            |              |
|                                                                             |        | EB-7        |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-8                                                                            |              |
|                                                                             |        | EB-9        |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-10                                                                           |              |
|                                                                             |        | EB-11       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-12                                                                           |              |
|                                                                             |        | EB-13       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-14                                                                           |              |
|                                                                             |        | EB-15       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-16                                                                           |              |
|                                                                             |        | EB-17       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-18                                                                           |              |
|                                                                             |        | EB-19       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-20                                                                           |              |
|                                                                             |        | EB-21       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-22                                                                           |              |
|                                                                             |        | EB-23       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-24                                                                           |              |
|                                                                             |        | EB-25       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-26                                                                           |              |
|                                                                             |        | EB-27       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-28                                                                           |              |
|                                                                             |        | EB-29       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-30                                                                           |              |
|                                                                             |        | EB-31       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-32                                                                           |              |
|                                                                             |        | EB-33       |                  |              |       |                                                                             |                   |                   |       |                                     |                  | EB-34                                                                           |              |
| --                                                                          | --     | EB-35 SPARE | 20 A             | 1            |       |                                                                             |                   | 0 / 0             | 1     | 20 A                                | SPARE            | EB-36                                                                           | -- --        |
| --                                                                          | --     | EB-37 SPARE | 20 A             | 1            |       | 0 / 0                                                                       |                   |                   | 1     | 20 A                                | SPARE            | EB-38                                                                           | -- --        |
| --                                                                          | --     | EB-39 SPARE | 20 A             | 1            |       |                                                                             | 0 / 0             |                   | 1     | 20 A                                | SPARE            | EB-40                                                                           | -- --        |
| --                                                                          | --     | EB-41 SPARE | 20 A             | 1            |       |                                                                             |                   | 0 / 0             | 1     | 20 A                                | SPARE            | EB-42                                                                           | -- --        |
|                                                                             |        |             |                  | Load Per...  |       | 0 VA                                                                        | 0 VA              | 0 VA              |       |                                     |                  |                                                                                 |              |
| Load Classification                                                         |        |             |                  | Connected... |       | Demand...                                                                   |                   | Est. Demand       |       | Panel Totals                        |                  |                                                                                 |              |
|                                                                             |        |             |                  |              |       |                                                                             |                   |                   |       | TOTAL CONNECTED LOAD: 0 VA          |                  |                                                                                 |              |
|                                                                             |        |             |                  |              |       |                                                                             |                   |                   |       | TOTAL ESTIMATED DEMAND: 0 VA        |                  |                                                                                 |              |
|                                                                             |        |             |                  |              |       |                                                                             |                   |                   |       | TOTAL CONNECTED CURRENT: 0 A        |                  |                                                                                 |              |
|                                                                             |        |             |                  |              |       |                                                                             |                   |                   |       | TOTAL ESTIMATED DEMAND CURRENT: 0 A |                  |                                                                                 |              |
| NOTES:                                                                      |        |             |                  |              |       |                                                                             |                   |                   |       |                                     |                  |                                                                                 |              |

| Panelboard: EM-LPH-2A                                                       |        |             |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  |                                     |              |
|-----------------------------------------------------------------------------|--------|-------------|------------------|------|-------|-----------------------------------------------------------------------------|-------------------|-------------------|-------|--------------------------------------------------------------------------------|------------------|-------------------------------------|--------------|
| Location: Supply From: EM-DPH-LLA<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |             |                  |      |       | Distribution System: 480/277 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |                   |                   |       | A.I.C. Rating: 42kAIC<br>Mains Type: MLO<br>Mains Rating: 100 A<br>MCB Rating: |                  |                                     |              |
| Notes                                                                       | Wiring | CKT No.     | Load Description | Trip | Poles | LOAD PHASE-A (VA)                                                           | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles | Trip                                                                           | Load Description | CKT No.                             | Wiring Notes |
|                                                                             |        | EC-1        |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-2             |                                     |              |
|                                                                             |        | EC-3        |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-4             |                                     |              |
|                                                                             |        | EC-5        |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-6             |                                     |              |
|                                                                             |        | EC-7        |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-8             |                                     |              |
|                                                                             |        | EC-9        |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-10            |                                     |              |
|                                                                             |        | EC-11       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-12            |                                     |              |
|                                                                             |        | EC-13       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-14            |                                     |              |
|                                                                             |        | EC-15       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-15            |                                     |              |
|                                                                             |        | EC-17       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-16            |                                     |              |
|                                                                             |        | EC-19       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-20            |                                     |              |
|                                                                             |        | EC-21       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-22            |                                     |              |
|                                                                             |        | EC-23       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-24            |                                     |              |
|                                                                             |        | EC-25       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-25            |                                     |              |
|                                                                             |        | EC-27       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-26            |                                     |              |
|                                                                             |        | EC-29       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-27            |                                     |              |
|                                                                             |        | EC-31       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-28            |                                     |              |
|                                                                             |        | EC-33       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-29            |                                     |              |
|                                                                             |        | EC-35       |                  |      |       |                                                                             |                   |                   |       |                                                                                | EC-30            |                                     |              |
| --                                                                          | --     | EC-38 SPARE | 20 A             | 1    |       |                                                                             |                   | 0 / 0             | 1     | 20 A                                                                           | SPARE            | EC-34                               | --           |
| --                                                                          | --     | EC-37 SPARE | 20 A             | 1    | 0 / 0 |                                                                             |                   |                   | 1     | 20 A                                                                           | SPARE            | EC-35                               | --           |
| --                                                                          | --     | EC-39 SPARE | 20 A             | 1    |       |                                                                             | 0 / 0             |                   | 1     | 20 A                                                                           | SPARE            | EC-36                               | --           |
| --                                                                          | --     | EC-41 SPARE | 20 A             | 1    |       |                                                                             |                   | 0 / 0             | 1     | 20 A                                                                           | SPARE            | EC-40                               | --           |
|                                                                             |        |             | Load Per...      |      |       | 0 VA                                                                        | 0 VA              | 0 VA              |       |                                                                                |                  | EC-42                               | --           |
| Load Classification                                                         |        |             |                  |      |       | Connected...                                                                |                   | Demand...         |       | Est. Demand                                                                    |                  | Panel Totals                        |              |
|                                                                             |        |             |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | TOTAL CONNECTED LOAD: 0 VA          |              |
|                                                                             |        |             |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | TOTAL ESTIMATED DEMAND: 0 VA        |              |
|                                                                             |        |             |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | TOTAL CONNECTED CURRENT: 0 A        |              |
|                                                                             |        |             |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |              |
| NOTES:                                                                      |        |             |                  |      |       |                                                                             |                   |                   |       |                                                                                |                  |                                     |              |



DRA

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06074260 Charles Street  
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| Panelboard: EM-LP-1C                                                        |        |            |                  |      |       |                                                                             |           |             |                                     |      |                  |                                                                                      |        |       |  |
|-----------------------------------------------------------------------------|--------|------------|------------------|------|-------|-----------------------------------------------------------------------------|-----------|-------------|-------------------------------------|------|------------------|--------------------------------------------------------------------------------------|--------|-------|--|
| Location:<br>Supply From: EM-T-1C<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |            |                  |      |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |           |             |                                     |      |                  | A.I.C. Rating: 10KAIC<br>Mains Type: MCB<br>Mains Rating: 100 A<br>MCB Rating: 100 A |        |       |  |
| Notes                                                                       | Wiring | Ckt. No.   | Load Description | Trip | Poles | A                                                                           | B         | C           | Poles                               | Trip | Load Description | Ckt. No.                                                                             | Wiring | Notes |  |
|                                                                             |        | EM1        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM2                                                                                  |        |       |  |
|                                                                             |        | EM3        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM4                                                                                  |        |       |  |
|                                                                             |        | EM5        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM6                                                                                  |        |       |  |
|                                                                             |        | EM7        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM8                                                                                  |        |       |  |
|                                                                             |        | EM9        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM10                                                                                 |        |       |  |
|                                                                             |        | EM11       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM12                                                                                 |        |       |  |
|                                                                             |        | EM13       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM14                                                                                 |        |       |  |
|                                                                             |        | EM15       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM16                                                                                 |        |       |  |
|                                                                             |        | EM17       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM18                                                                                 |        |       |  |
|                                                                             |        | EM19       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM20                                                                                 |        |       |  |
|                                                                             |        | EM21       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM22                                                                                 |        |       |  |
|                                                                             |        | EM23       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM24                                                                                 |        |       |  |
|                                                                             |        | EM25       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM26                                                                                 |        |       |  |
|                                                                             |        | EM27       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM28                                                                                 |        |       |  |
|                                                                             |        | EM29       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM30                                                                                 |        |       |  |
|                                                                             |        | EM31       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM32                                                                                 |        |       |  |
|                                                                             |        | EM33       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM34                                                                                 |        |       |  |
| --                                                                          | --     | EM35 SPARE | 20 A 1           |      |       | 0 / 0                                                                       |           | 0 / 0       | 1                                   | 20 A | SPARE            | EM36                                                                                 | --     | --    |  |
| --                                                                          | --     | EM37 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1                                   | 20 A | SPARE            | EM38                                                                                 | --     | --    |  |
| --                                                                          | --     | EM39 SPARE | 20 A 1           |      |       |                                                                             |           |             | 1                                   | 20 A | SPARE            | EM40                                                                                 | --     | --    |  |
| --                                                                          | --     | EM41 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1                                   | 20 A | SPARE            | EM42                                                                                 | --     | --    |  |
| Load Per...                                                                 |        |            |                  |      |       | 0 VA                                                                        | 0 VA      | 0 VA        |                                     |      |                  |                                                                                      |        |       |  |
| Load Classification                                                         |        |            |                  |      |       | Connected...                                                                | Demand... | Est. Demand | Panel Totals                        |      |                  |                                                                                      |        |       |  |
|                                                                             |        |            |                  |      |       |                                                                             |           |             | TOTAL CONNECTED LOAD: 0 VA          |      |                  |                                                                                      |        |       |  |
|                                                                             |        |            |                  |      |       |                                                                             |           |             | TOTAL ESTIMATED DEMAND: 0 VA        |      |                  |                                                                                      |        |       |  |
|                                                                             |        |            |                  |      |       |                                                                             |           |             | TOTAL CONNECTED CURRENT: 0 A        |      |                  |                                                                                      |        |       |  |
|                                                                             |        |            |                  |      |       |                                                                             |           |             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |      |                  |                                                                                      |        |       |  |
| NOTES:                                                                      |        |            |                  |      |       |                                                                             |           |             |                                     |      |                  |                                                                                      |        |       |  |

| Panelboard: EM-LP-3A                                                                  |        |            |                  |      |       |                                                                             |           |             |                                     |      |                  |                                                                                      |        |       |  |
|---------------------------------------------------------------------------------------|--------|------------|------------------|------|-------|-----------------------------------------------------------------------------|-----------|-------------|-------------------------------------|------|------------------|--------------------------------------------------------------------------------------|--------|-------|--|
| Location:<br>Supply From: EM-T-3A (TRAPEZE)<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |            |                  |      |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |           |             |                                     |      |                  | A.I.C. Rating: 10kAIC<br>Mains Type: MCB<br>Mains Rating: 100 A<br>MCB Rating: 100 A |        |       |  |
| Notes                                                                                 | Wiring | Ckt. No.   | Load Description | Trip | Poles | A                                                                           | B         | C           | Poles                               | Trip | Load Description | Ckt. No.                                                                             | Wiring | Notes |  |
|                                                                                       |        | EN1        |                  |      |       |                                                                             |           |             |                                     |      |                  | EN2                                                                                  |        |       |  |
|                                                                                       |        | EN3        |                  |      |       |                                                                             |           |             |                                     |      |                  | EN4                                                                                  |        |       |  |
|                                                                                       |        | EN5        |                  |      |       |                                                                             |           |             |                                     |      |                  | EN6                                                                                  |        |       |  |
|                                                                                       |        | EN7        |                  |      |       |                                                                             |           |             |                                     |      |                  | EN8                                                                                  |        |       |  |
|                                                                                       |        | EN9        |                  |      |       |                                                                             |           |             |                                     |      |                  | EN10                                                                                 |        |       |  |
|                                                                                       |        | EN11       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN12                                                                                 |        |       |  |
|                                                                                       |        | EN13       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN14                                                                                 |        |       |  |
|                                                                                       |        | EN15       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN16                                                                                 |        |       |  |
|                                                                                       |        | EN17       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN18                                                                                 |        |       |  |
|                                                                                       |        | EN19       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN20                                                                                 |        |       |  |
|                                                                                       |        | EN21       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN22                                                                                 |        |       |  |
|                                                                                       |        | EN23       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN24                                                                                 |        |       |  |
|                                                                                       |        | EN25       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN26                                                                                 |        |       |  |
|                                                                                       |        | EN27       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN28                                                                                 |        |       |  |
|                                                                                       |        | EN29       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN30                                                                                 |        |       |  |
|                                                                                       |        | EN31       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN32                                                                                 |        |       |  |
|                                                                                       |        | EN33       |                  |      |       |                                                                             |           |             |                                     |      |                  | EN34                                                                                 |        |       |  |
| --                                                                                    | --     | EN35 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1                                   | 20 A | SPARE            | EN36                                                                                 | --     | --    |  |
| --                                                                                    | --     | EN37 SPARE | 20 A 1           |      |       | 0 / 0                                                                       |           |             | 1                                   | 20 A | SPARE            | EN38                                                                                 | --     | --    |  |
| --                                                                                    | --     | EN39 SPARE | 20 A 1           |      |       |                                                                             | 0 / 0     |             | 1                                   | 20 A | SPARE            | EN40                                                                                 | --     | --    |  |
| --                                                                                    | --     | EN41 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1                                   | 20 A | SPARE            | EN42                                                                                 | --     | --    |  |
| Load Per...                                                                           |        |            |                  |      |       | 0 VA                                                                        | 0 VA      | 0 VA        |                                     |      |                  |                                                                                      |        |       |  |
| Load Classification                                                                   |        |            |                  |      |       | Connected...                                                                | Demand... | Est. Demand | Panel Totals                        |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL CONNECTED LOAD: 0 VA          |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL ESTIMATED DEMAND: 0 VA        |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL CONNECTED CURRENT: 0 A        |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |      |                  |                                                                                      |        |       |  |
| NOTES:                                                                                |        |            |                  |      |       |                                                                             |           |             |                                     |      |                  |                                                                                      |        |       |  |

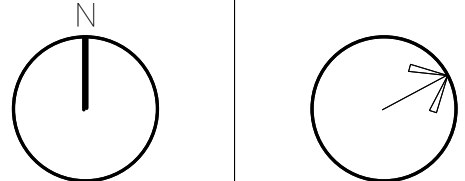
| Panelboard: EM-LP-2B                                                                  |        |            |                  |      |       |                                                                             |           |             |                                     |      |                  |                                                                                      |        |       |  |
|---------------------------------------------------------------------------------------|--------|------------|------------------|------|-------|-----------------------------------------------------------------------------|-----------|-------------|-------------------------------------|------|------------------|--------------------------------------------------------------------------------------|--------|-------|--|
| Location:<br>Supply From: EM-T-2B (TRAPEZE)<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |            |                  |      |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |           |             |                                     |      |                  | A.I.C. Rating: 10KAIC<br>Mains Type: MCB<br>Mains Rating: 100 A<br>MCB Rating: 100 A |        |       |  |
| Notes                                                                                 | Wiring | Ckt. No.   | Load Description | Trip | Poles | A                                                                           | B         | C           | Poles                               | Trip | Load Description | Ckt. No.                                                                             | Wiring | Notes |  |
|                                                                                       |        | EM1        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM2                                                                                  |        |       |  |
|                                                                                       |        | EM3        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM4                                                                                  |        |       |  |
|                                                                                       |        | EM5        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM6                                                                                  |        |       |  |
|                                                                                       |        | EM7        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM8                                                                                  |        |       |  |
|                                                                                       |        | EM9        |                  |      |       |                                                                             |           |             |                                     |      |                  | EM10                                                                                 |        |       |  |
|                                                                                       |        | EM11       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM12                                                                                 |        |       |  |
|                                                                                       |        | EM13       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM14                                                                                 |        |       |  |
|                                                                                       |        | EM15       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM16                                                                                 |        |       |  |
|                                                                                       |        | EM17       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM18                                                                                 |        |       |  |
|                                                                                       |        | EM19       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM20                                                                                 |        |       |  |
|                                                                                       |        | EM21       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM22                                                                                 |        |       |  |
|                                                                                       |        | EM23       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM24                                                                                 |        |       |  |
|                                                                                       |        | EM25       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM26                                                                                 |        |       |  |
|                                                                                       |        | EM27       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM28                                                                                 |        |       |  |
|                                                                                       |        | EM29       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM30                                                                                 |        |       |  |
|                                                                                       |        | EM31       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM32                                                                                 |        |       |  |
|                                                                                       |        | EM33       |                  |      |       |                                                                             |           |             |                                     |      |                  | EM34                                                                                 |        |       |  |
| --                                                                                    | --     | EM35 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1                                   | 20 A | SPARE            | EM36                                                                                 | --     | --    |  |
| --                                                                                    | --     | EM37 SPARE | 20 A 1           |      |       | 0 / 0                                                                       |           |             | 1                                   | 20 A | SPARE            | EM38                                                                                 | --     | --    |  |
| --                                                                                    | --     | EM39 SPARE | 20 A 1           |      |       |                                                                             | 0 / 0     |             | 1                                   | 20 A | SPARE            | EM40                                                                                 | --     | --    |  |
| --                                                                                    | --     | EM41 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1                                   | 20 A | SPARE            | EM42                                                                                 | --     | --    |  |
| Load Per...                                                                           |        |            |                  |      |       | 0 VA                                                                        | 0 VA      | 0 VA        |                                     |      |                  |                                                                                      |        |       |  |
| Load Classification                                                                   |        |            |                  |      |       | Connected...                                                                | Demand... | Est. Demand | Panel Totals                        |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL CONNECTED LOAD: 0 VA          |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL ESTIMATED DEMAND: 0 VA        |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL CONNECTED CURRENT: 0 A        |      |                  |                                                                                      |        |       |  |
|                                                                                       |        |            |                  |      |       |                                                                             |           |             | TOTAL ESTIMATED DEMAND CURRENT: 0 A |      |                  |                                                                                      |        |       |  |
| NOTES:                                                                                |        |            |                  |      |       |                                                                             |           |             |                                     |      |                  |                                                                                      |        |       |  |

| Panelboard: EM-LP-2A                                                                  |        |            |                  |      |       |                                                                             |           |             |              |                                                                                      |                  |          |        |       |  |
|---------------------------------------------------------------------------------------|--------|------------|------------------|------|-------|-----------------------------------------------------------------------------|-----------|-------------|--------------|--------------------------------------------------------------------------------------|------------------|----------|--------|-------|--|
| Location:<br>Supply From: EM-T-2A (TRAPEZE)<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |            |                  |      |       | Distribution System: 120/208 Wye<br>Phases: 3<br>Wires: 4<br>Modifications: |           |             |              | A.I.C. Rating: 10KAIC<br>Mains Type: MCB<br>Mains Rating: 100 A<br>MCB Rating: 100 A |                  |          |        |       |  |
| Notes                                                                                 | Wiring | Ckt. No.   | Load Description | Trip | Poles | A                                                                           | B         | C           | Poles        | Trip                                                                                 | Load Description | Ckt. No. | Wiring | Notes |  |
|                                                                                       |        | EL1        |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL2      |        |       |  |
|                                                                                       |        | EL3        |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL4      |        |       |  |
|                                                                                       |        | EL5        |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL6      |        |       |  |
|                                                                                       |        | EL7        |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL8      |        |       |  |
|                                                                                       |        | EL9        |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL10     |        |       |  |
|                                                                                       |        | EL11       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL12     |        |       |  |
|                                                                                       |        | EL13       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL14     |        |       |  |
|                                                                                       |        | EL15       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL16     |        |       |  |
|                                                                                       |        | EL17       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL18     |        |       |  |
|                                                                                       |        | EL19       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL20     |        |       |  |
|                                                                                       |        | EL21       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL22     |        |       |  |
|                                                                                       |        | EL23       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL24     |        |       |  |
|                                                                                       |        | EL25       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL26     |        |       |  |
|                                                                                       |        | EL27       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL28     |        |       |  |
|                                                                                       |        | EL29       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL30     |        |       |  |
|                                                                                       |        | EL31       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL32     |        |       |  |
|                                                                                       |        | EL33       |                  |      |       |                                                                             |           |             |              |                                                                                      |                  | EL34     |        |       |  |
| --                                                                                    | --     | EL35 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1            | 20 A                                                                                 | SPARE            | EL36     | --     | --    |  |
| --                                                                                    | --     | EL37 SPARE | 20 A 1           |      |       | 0 / 0                                                                       |           |             |              |                                                                                      |                  | EL38     | --     | --    |  |
| --                                                                                    | --     | EL39 SPARE | 20 A 1           |      |       |                                                                             | 0 / 0     |             |              |                                                                                      |                  | EL40     | --     | --    |  |
| --                                                                                    | --     | EL41 SPARE | 20 A 1           |      |       |                                                                             |           | 0 / 0       | 1            | 20 A                                                                                 | SPARE            | EL42     | --     | --    |  |
| Load Per...                                                                           |        |            |                  |      |       | 0 VA                                                                        | 0 VA      | 0 VA        |              |                                                                                      |                  |          |        |       |  |
| Load Classification                                                                   |        |            |                  |      |       | Connected...                                                                | Demand... | Est. Demand | Panel Totals |                                                                                      |                  |          |        |       |  |
|                                                                                       |        |            |                  |      |       | TOTAL CONNECTED LOAD: 0 VA                                                  |           |             |              |                                                                                      |                  |          |        |       |  |
|                                                                                       |        |            |                  |      |       | TOTAL ESTIMATED DEMAND: 0 VA                                                |           |             |              |                                                                                      |                  |          |        |       |  |
|                                                                                       |        |            |                  |      |       | TOTAL ESTIMATED CURRENT: 0 A                                                |           |             |              |                                                                                      |                  |          |        |       |  |
|                                                                                       |        |            |                  |      |       | TOTAL ESTIMATED DEMAND CURRENT: 0 A                                         |           |             |              |                                                                                      |                  |          |        |       |  |
| NOTES:                                                                                |        |            |                  |      |       |                                                                             |           |             |              |                                                                                      |                  |          |        |       |  |



Wakefield, MA 01880

January 13, 2023



Scale:

Job No.: 20202

Drawn By: DRA

Date: January 13, 2023

**E4-0-10**

Panelboard: SB-LPH-LLA

Location: SB-DPH-LLA

Supply From: SB-DPH-LLA

Mounting: SURFACE

Enclosure: TYPE 1

Distribution System: 480/277 Vye

Phases: 3

Wiring:

A.I.C. Rating: 12KAIC

Maine Type: MLO

Maine Rating: 200 A

MCB Rating:

| Notes               | Wiring | Out. No.     | Load Description |   |       |       | Trip | Poles | LOAD PHASE-A (VA) | LOAD PHASE-B (VA) | LOAD PHASE-C (VA) | Poles     | Trip | Load Description |              |                                     |  | Out. No. | Wiring | Notes |  |
|---------------------|--------|--------------|------------------|---|-------|-------|------|-------|-------------------|-------------------|-------------------|-----------|------|------------------|--------------|-------------------------------------|--|----------|--------|-------|--|
|                     |        | SA1          |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA1      |        |       |  |
|                     |        | SA3          |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA4      |        |       |  |
|                     |        | SA5          |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA6      |        |       |  |
|                     |        | SA7          |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA8      |        |       |  |
|                     |        | SA9          |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA10     |        |       |  |
|                     |        | SA11         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA12     |        |       |  |
|                     |        | SA13         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA14     |        |       |  |
|                     |        | SA15         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA16     |        |       |  |
|                     |        | SA17         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA18     |        |       |  |
|                     |        | SA19         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA20     |        |       |  |
|                     |        | SA21         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA22     |        |       |  |
|                     |        | SA23         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA24     |        |       |  |
|                     |        | SA25         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA26     |        |       |  |
|                     |        | SA27         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA28     |        |       |  |
|                     |        | SA29         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA30     |        |       |  |
|                     |        | SA31         |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA32     |        |       |  |
| --                  | --     | SA33 (SPARE) | 20 A             | 1 |       | 0 / 0 |      |       | 0 / 0             |                   |                   | 1         | 20 A | SPARE            |              |                                     |  | SA34     | --     | --    |  |
| --                  | --     | SA35 (SPARE) | 20 A             | 1 |       |       |      |       | 0 / 0             |                   |                   | 1         | 20 A | SPARE            |              |                                     |  | SA36     | --     | --    |  |
| --                  | --     | SA37 (SPARE) | 20 A             | 1 | 0 / 0 |       |      |       |                   |                   |                   | 3         | 50 A | SB-TLLA          |              |                                     |  | SA38     |        |       |  |
| --                  | --     | SA39 (SPARE) | 20 A             | 1 |       | 0 / 0 |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA40     |        |       |  |
| --                  | --     | SA41 (SPARE) | 20 A             | 1 |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  | SA42     |        |       |  |
| Load Classification |        |              |                  |   |       |       |      |       |                   | Load Nr.          |                   | 0 VA      | 0 VA | 0 VA             | Panel Totals |                                     |  |          |        |       |  |
|                     |        |              |                  |   |       |       |      |       |                   | Connected...      |                   | Demand... |      | Est. Demand      |              | TOTAL CONNECTED LOAD: 0 VA          |  |          |        |       |  |
|                     |        |              |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              | TOTAL ESTIMATED DEMAND: 0 VA        |  |          |        |       |  |
|                     |        |              |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              | TOTAL CONNECTED CURRENT: 0 A        |  |          |        |       |  |
|                     |        |              |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              | TOTAL ESTIMATED DEMAND CURRENT: 0 A |  |          |        |       |  |
| NOTES:              |        |              |                  |   |       |       |      |       |                   |                   |                   |           |      |                  |              |                                     |  |          |        |       |  |



DRA

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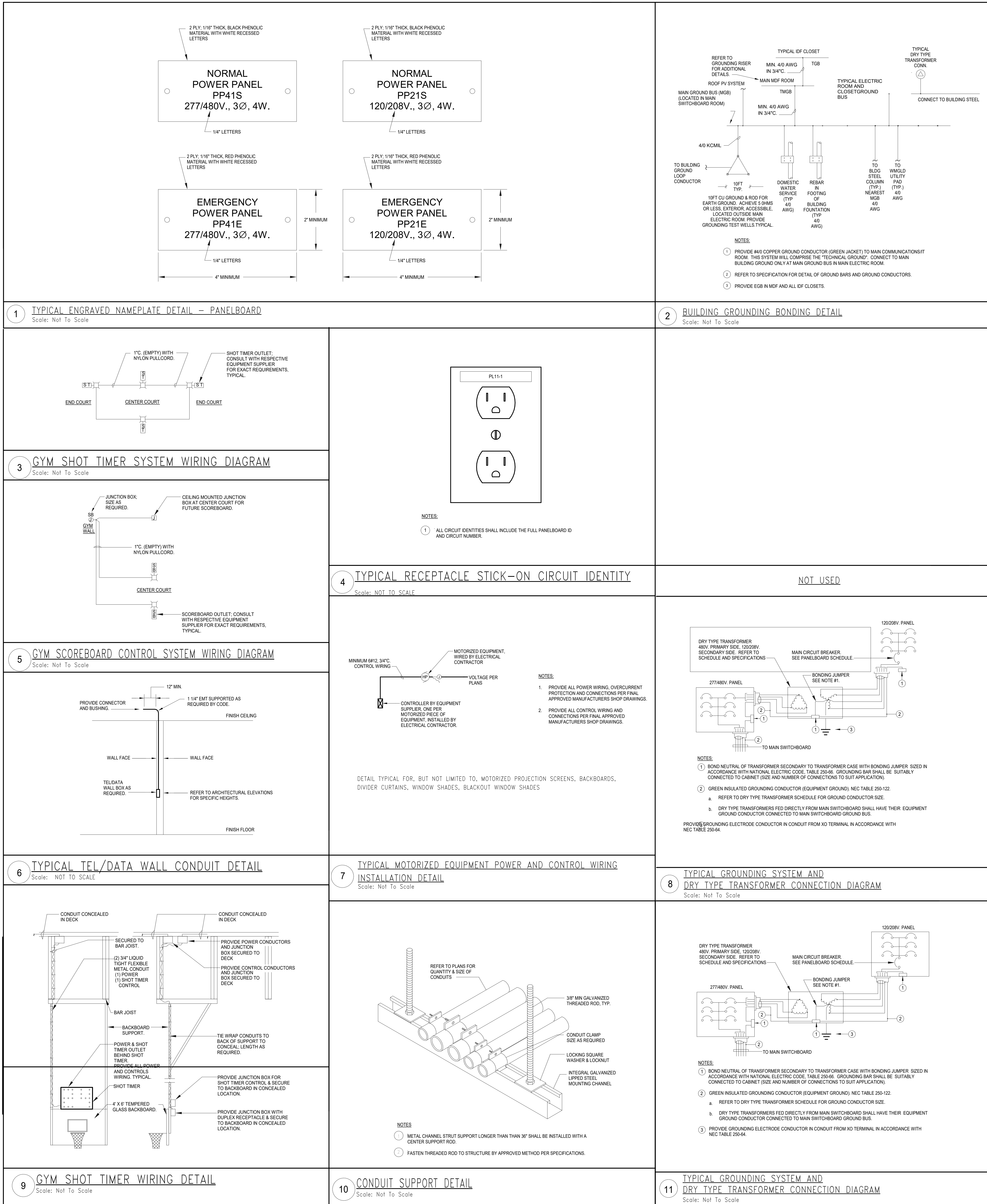
| Panelboard: SB-LP-1C |        |             |                                  |      |       |           |       |                       |             |      |                  |                                     |        |       |
|----------------------|--------|-------------|----------------------------------|------|-------|-----------|-------|-----------------------|-------------|------|------------------|-------------------------------------|--------|-------|
| Location:            |        |             | Distribution System: 120/208 Vye |      |       |           |       | A.I.C. Rating: 10KAIC |             |      |                  |                                     |        |       |
| Supply From: SB-T-1C |        |             | Phases: 3                        |      |       |           |       | Main Type: MCB        |             |      |                  |                                     |        |       |
| Mounting: SURFACE    |        |             | Wires: 4                         |      |       |           |       | Mains Rating: 100 A   |             |      |                  |                                     |        |       |
| Enclosure: TYPE 1    |        |             | Modifications:                   |      |       |           |       | MCB Rating: 100 A     |             |      |                  |                                     |        |       |
| Notes                | Wiring | Ckt. No.    | Load Description                 | Trip | Poles | A         | B     | C                     | Poles       | Trip | Load Description | Ckt. No.                            | Wiring | Notes |
|                      |        | SK-1        |                                  |      |       |           |       |                       |             |      |                  | SK-2                                |        |       |
|                      |        | SK-3        |                                  |      |       |           |       |                       |             |      |                  | SK-4                                |        |       |
|                      |        | SK-5        |                                  |      |       |           |       |                       |             |      |                  | SK-6                                |        |       |
|                      |        | SK-7        |                                  |      |       |           |       |                       |             |      |                  | SK-8                                |        |       |
|                      |        | SK-9        |                                  |      |       |           |       |                       |             |      |                  | SK-10                               |        |       |
|                      |        | SK-11       |                                  |      |       |           |       |                       |             |      |                  | SK-12                               |        |       |
|                      |        | SK-13       |                                  |      |       |           |       |                       |             |      |                  | SK-14                               |        |       |
|                      |        | SK-15       |                                  |      |       |           |       |                       |             |      |                  | SK-16                               |        |       |
|                      |        | SK-17       |                                  |      |       |           |       |                       |             |      |                  | SK-18                               |        |       |
|                      |        | SK-19       |                                  |      |       |           |       |                       |             |      |                  | SK-20                               |        |       |
|                      |        | SK-21       |                                  |      |       |           |       |                       |             |      |                  | SK-22                               |        |       |
|                      |        | SK-23       |                                  |      |       |           |       |                       |             |      |                  | SK-24                               |        |       |
|                      |        | SK-25       |                                  |      |       |           |       |                       |             |      |                  | SK-26                               |        |       |
|                      |        | SK-27       |                                  |      |       |           |       |                       |             |      |                  | SK-28                               |        |       |
|                      |        | SK-29       |                                  |      |       |           |       |                       |             |      |                  | SK-30                               |        |       |
|                      |        | SK-31       |                                  |      |       |           |       |                       |             |      |                  | SK-32                               |        |       |
|                      |        | SK-33       |                                  |      |       |           |       |                       |             |      |                  | SK-34                               |        |       |
| --                   | --     | SK-35 SPARE | 20 A                             | 1    |       |           |       | 0 / 0                 | 1           | 20 A | SPARE            | SK-36                               | --     | --    |
| --                   | --     | SK-37 SPARE | 20 A                             | 1    |       | 0 / 0     |       |                       | 1           | 20 A | SPARE            | SK-38                               | --     | --    |
| --                   | --     | SK-39 SPARE | 20 A                             | 1    |       |           | 0 / 0 |                       | 1           | 20 A | SPARE            | SK-40                               | --     | --    |
| --                   | --     | SK-41 SPARE | 20 A                             | 1    |       |           |       | 0 / 0                 | 1           | 20 A | SPARE            | SK-42                               | --     | --    |
| Load Per...          |        |             | 0 VA                             |      |       | 0 VA      |       | 0 VA                  |             |      |                  |                                     |        |       |
| Load Classification  |        |             | Connected...                     |      |       | Demand... |       |                       | Est. Demand |      |                  | Panel Totals                        |        |       |
|                      |        |             |                                  |      |       |           |       |                       |             |      |                  | TOTAL CONNECTED LOAD: 0 VA          |        |       |
|                      |        |             |                                  |      |       |           |       |                       |             |      |                  | TOTAL ESTIMATED DEMAND: 0 VA        |        |       |
|                      |        |             |                                  |      |       |           |       |                       |             |      |                  | TOTAL CONNECTED CURRENT: 0 A        |        |       |
|                      |        |             |                                  |      |       |           |       |                       |             |      |                  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |        |       |
| NOTES:               |        |             |                                  |      |       |           |       |                       |             |      |                  |                                     |        |       |

| Panelboard: SB-LP-3A                                                        |        |            |                  |      |                                                                             |           |       |       |             |                                                                                    |                  |                                     |        |       |
|-----------------------------------------------------------------------------|--------|------------|------------------|------|-----------------------------------------------------------------------------|-----------|-------|-------|-------------|------------------------------------------------------------------------------------|------------------|-------------------------------------|--------|-------|
| Location:<br>Supply From: SB-T-3A<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |            |                  |      | Distribution System: 120/208 Vye<br>Phases: 3<br>Wires: 4<br>Modifications: |           |       |       |             | A.I.C. Rating: 10kA/C<br>Main Type: MCB<br>Main Rating: 100 A<br>MCB Rating: 100 A |                  |                                     |        |       |
| Notes                                                                       | Wiring | Ckt. No.   | Load Description | Trip | Poles                                                                       | A         | B     | C     | Poles       | Trip                                                                               | Load Description | Ckt. No.                            | Wiring | Notes |
|                                                                             |        | SN1        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN2                                 |        |       |
|                                                                             |        | SN3        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN4                                 |        |       |
|                                                                             |        | SN5        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN6                                 |        |       |
|                                                                             |        | SN7        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN8                                 |        |       |
|                                                                             |        | SN9        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN10                                |        |       |
|                                                                             |        | SN11       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN12                                |        |       |
|                                                                             |        | SN13       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN14                                |        |       |
|                                                                             |        | SN15       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN16                                |        |       |
|                                                                             |        | SN17       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN18                                |        |       |
|                                                                             |        | SN19       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN20                                |        |       |
|                                                                             |        | SN21       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN22                                |        |       |
|                                                                             |        | SN23       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN24                                |        |       |
|                                                                             |        | SN25       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN26                                |        |       |
|                                                                             |        | SN27       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN28                                |        |       |
|                                                                             |        | SN29       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN30                                |        |       |
|                                                                             |        | SN31       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN32                                |        |       |
|                                                                             |        | SN33       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SN34                                |        |       |
| --                                                                          | --     | SN35 SPARE | 20 A             | 1    |                                                                             |           |       | 0 / 0 | 1           | 20 A                                                                               | SPARE            | SN36                                | --     | --    |
| --                                                                          | --     | SN37 SPARE | 20 A             | 1    |                                                                             | 0 / 0     |       |       | 1           | 20 A                                                                               | SPARE            | SN38                                | --     | --    |
| --                                                                          | --     | SN39 SPARE | 20 A             | 1    |                                                                             |           | 0 / 0 |       | 1           | 20 A                                                                               | SPARE            | SN40                                | --     | --    |
| --                                                                          | --     | SN41 SPARE | 20 A             | 1    |                                                                             |           |       | 0 / 0 | 1           | 20 A                                                                               | SPARE            | SN42                                | --     | --    |
| Load Per...                                                                 |        |            | 0 VA             |      |                                                                             | 0 VA      |       |       | 0 VA        |                                                                                    |                  |                                     |        |       |
| Load Classification                                                         |        |            | Connected...     |      |                                                                             | Demand... |       |       | Est. Demand |                                                                                    |                  | Panel Totals                        |        |       |
|                                                                             |        |            |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL CONNECTED LOAD: 0 VA          |        |       |
|                                                                             |        |            |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL ESTIMATED DEMAND: 0 VA        |        |       |
|                                                                             |        |            |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL CONNECTED CURRENT: 0 A        |        |       |
|                                                                             |        |            |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |        |       |
| NOTES:                                                                      |        |            |                  |      |                                                                             |           |       |       |             |                                                                                    |                  |                                     |        |       |

| Panelboard: SB-LP-4B                                                                  |        |             |                  |      |                                                                             |           |       |       |             |                                                                                    |                  |                                     |        |       |
|---------------------------------------------------------------------------------------|--------|-------------|------------------|------|-----------------------------------------------------------------------------|-----------|-------|-------|-------------|------------------------------------------------------------------------------------|------------------|-------------------------------------|--------|-------|
| Location:<br>Supply From: SB-T-4B (TRAPEZE)<br>Mounting: SURFACE<br>Enclosure: TYPE 1 |        |             |                  |      | Distribution System: 120/208 Vye<br>Phases: 3<br>Wires: 4<br>Modifications: |           |       |       |             | A.I.C. Rating: 10KAC<br>Main Type: MCB<br>Mains Rating: 100 A<br>MCB Rating: 100 A |                  |                                     |        |       |
| Notes                                                                                 | Wiring | Ckt. No.    | Load Description | Trip | Poles                                                                       | A         | B     | C     | Poles       | Trip                                                                               | Load Description | Ckt. No.                            | Wiring | Notes |
|                                                                                       |        | SR-1        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-2                                |        |       |
|                                                                                       |        | SR-3        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-4                                |        |       |
|                                                                                       |        | SR-5        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-6                                |        |       |
|                                                                                       |        | SR-7        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-8                                |        |       |
|                                                                                       |        | SR-9        |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-10                               |        |       |
|                                                                                       |        | SR-11       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-12                               |        |       |
|                                                                                       |        | SR-13       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-14                               |        |       |
|                                                                                       |        | SR-15       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-16                               |        |       |
|                                                                                       |        | SR-17       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-18                               |        |       |
|                                                                                       |        | SR-19       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-20                               |        |       |
|                                                                                       |        | SR-21       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-22                               |        |       |
|                                                                                       |        | SR-23       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-24                               |        |       |
|                                                                                       |        | SR-25       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-26                               |        |       |
|                                                                                       |        | SR-27       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-28                               |        |       |
|                                                                                       |        | SR-29       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-30                               |        |       |
|                                                                                       |        | SR-31       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-32                               |        |       |
|                                                                                       |        | SR-33       |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | SR-34                               |        |       |
| --                                                                                    | --     | SR-35 SPARE |                  | 20 A | 1                                                                           |           |       | 0 / 0 | 1           | 20 A                                                                               | SPARE            | SR-36                               | --     | --    |
| --                                                                                    | --     | SR-37 SPARE |                  | 20 A | 1                                                                           | 0 / 0     |       |       | 1           | 20 A                                                                               | SPARE            | SR-38                               | --     | --    |
| --                                                                                    | --     | SR-39 SPARE |                  | 20 A | 1                                                                           |           | 0 / 0 |       | 1           | 20 A                                                                               | SPARE            | SR-40                               | --     | --    |
| --                                                                                    | --     | SR-41 SPARE |                  | 20 A | 1                                                                           |           |       | 0 / 0 | 1           | 20 A                                                                               | SPARE            | SR-42                               | --     | --    |
| Load Per...                                                                           |        |             |                  | 0 VA |                                                                             | 0 VA      |       | 0 VA  |             |                                                                                    |                  |                                     |        |       |
| Load Classification                                                                   |        |             | Connected...     |      |                                                                             | Demand... |       |       | Est. Demand |                                                                                    |                  | Panel Totals                        |        |       |
|                                                                                       |        |             |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL CONNECTED LOAD: 0 VA          |        |       |
|                                                                                       |        |             |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL ESTIMATED DEMAND: 0 VA        |        |       |
|                                                                                       |        |             |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL CONNECTED CURRENT: 0 A        |        |       |
|                                                                                       |        |             |                  |      |                                                                             |           |       |       |             |                                                                                    |                  | TOTAL ESTIMATED DEMAND CURRENT: 0 A |        |       |
| NOTES:                                                                                |        |             |                  |      |                                                                             |           |       |       |             |                                                                                    |                  |                                     |        |       |

| Panelboard: SB-LP-2A            |        |          |                                  |      |       |           |       |                     |             |      |                                     |              |        |       |
|---------------------------------|--------|----------|----------------------------------|------|-------|-----------|-------|---------------------|-------------|------|-------------------------------------|--------------|--------|-------|
| Location:                       |        |          | Distribution System: 120/208 Vye |      |       |           |       | A.I.C. Rating: 10kA |             |      |                                     |              |        |       |
| Supply From: SB-T-2A (TRAPEZEE) |        |          | Phases: 3                        |      |       |           |       | Main Type: MCB      |             |      |                                     |              |        |       |
| Mounting: SURFACE               |        |          | Wires: 4                         |      |       |           |       | Mains Rating: 100 A |             |      |                                     |              |        |       |
| Enclosure: TYPE 1               |        |          | Modifications:                   |      |       |           |       | MCB Rating: 100 A   |             |      |                                     |              |        |       |
| Notes                           | Wiring | Ckt. No. | Load Description                 | Trip | Poles | A         | B     | C                   | Poles       | Trip | Load Description                    | Ckt. No.     | Wiring | Notes |
|                                 |        | SL-1     |                                  |      |       |           |       |                     |             |      |                                     | SL-2         |        |       |
|                                 |        | SL-3     |                                  |      |       |           |       |                     |             |      |                                     | SL-4         |        |       |
|                                 |        | SL-5     |                                  |      |       |           |       |                     |             |      |                                     | SL-6         |        |       |
|                                 |        | SL-7     |                                  |      |       |           |       |                     |             |      |                                     | SL-8         |        |       |
|                                 |        | SL-9     |                                  |      |       |           |       |                     |             |      |                                     | SL-10        |        |       |
|                                 |        | SL-11    |                                  |      |       |           |       |                     |             |      |                                     | SL-12        |        |       |
|                                 |        | SL-13    |                                  |      |       |           |       |                     |             |      |                                     | SL-14        |        |       |
|                                 |        | SL-15    |                                  |      |       |           |       |                     |             |      |                                     | SL-16        |        |       |
|                                 |        | SL-17    |                                  |      |       |           |       |                     |             |      |                                     | SL-18        |        |       |
|                                 |        | SL-19    |                                  |      |       |           |       |                     |             |      |                                     | SL-20        |        |       |
|                                 |        | SL-21    |                                  |      |       |           |       |                     |             |      |                                     | SL-22        |        |       |
|                                 |        | SL-23    |                                  |      |       |           |       |                     |             |      |                                     | SL-24        |        |       |
|                                 |        | SL-25    |                                  |      |       |           |       |                     |             |      |                                     | SL-26        |        |       |
|                                 |        | SL-27    |                                  |      |       |           |       |                     |             |      |                                     | SL-28        |        |       |
|                                 |        | SL-29    |                                  |      |       |           |       |                     |             |      |                                     | SL-30        |        |       |
|                                 |        | SL-31    |                                  |      |       |           |       |                     |             |      |                                     | SL-32        |        |       |
|                                 |        | SL-33    |                                  |      |       |           |       |                     |             |      |                                     | SL-34        |        |       |
| --                              | --     | SL-35    | SPARE                            | 20 A | 1     |           |       | 0 / 0               | 1           | 20 A | SPARE                               | SL-36        | --     | --    |
| --                              | --     | SL-37    | SPARE                            | 20 A | 1     | 0 / 0     |       |                     | 1           | 20 A | SPARE                               | SL-38        | --     | --    |
| --                              | --     | SL-39    | SPARE                            | 20 A | 1     |           | 0 / 0 |                     | 1           | 20 A | SPARE                               | SL-40        | --     | --    |
| --                              | --     | SL-41    | SPARE                            | 20 A | 1     |           |       | 0 / 0               | 1           | 20 A | SPARE                               | SL-42        | --     | --    |
|                                 |        |          | Load Per...                      |      |       | 0 VA      | 0 VA  | 0 VA                |             |      |                                     |              |        |       |
| Load Classification             |        |          | Connected...                     |      |       | Demand... |       |                     | Est. Demand |      |                                     | Panel Totals |        |       |
|                                 |        |          |                                  |      |       |           |       |                     |             |      | TOTAL CONNECTED LOAD: 0 VA          |              |        |       |
|                                 |        |          |                                  |      |       |           |       |                     |             |      | TOTAL ESTIMATED DEMAND: 0 VA        |              |        |       |
|                                 |        |          |                                  |      |       |           |       |                     |             |      | TOTAL CONNECTED CURRENT: 0 A        |              |        |       |
|                                 |        |          |                                  |      |       |           |       |                     |             |      | TOTAL ESTIMATED DEMAND CURRENT: 0 A |              |        |       |
| NOTES:                          |        |          |                                  |      |       |           |       |                     |             |      |                                     |              |        |       |





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WWW.BALA-ENGINEERS.COM

MSBA 60% CD SUBMISSION  
January 13, 2023

PROJECT NORTH

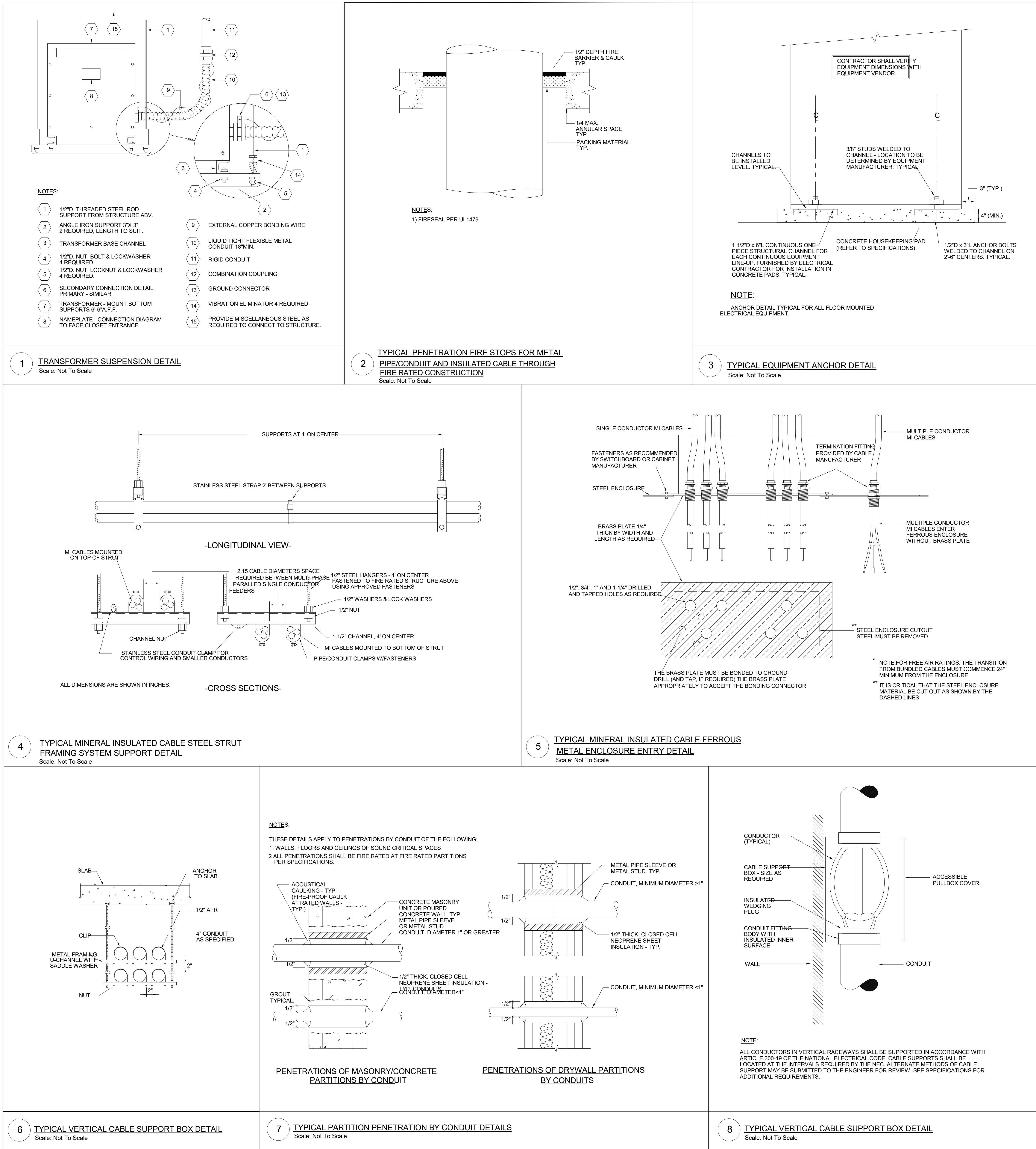
MAGNETIC NORTH

ELECTRICAL DETAIL SHEET 1

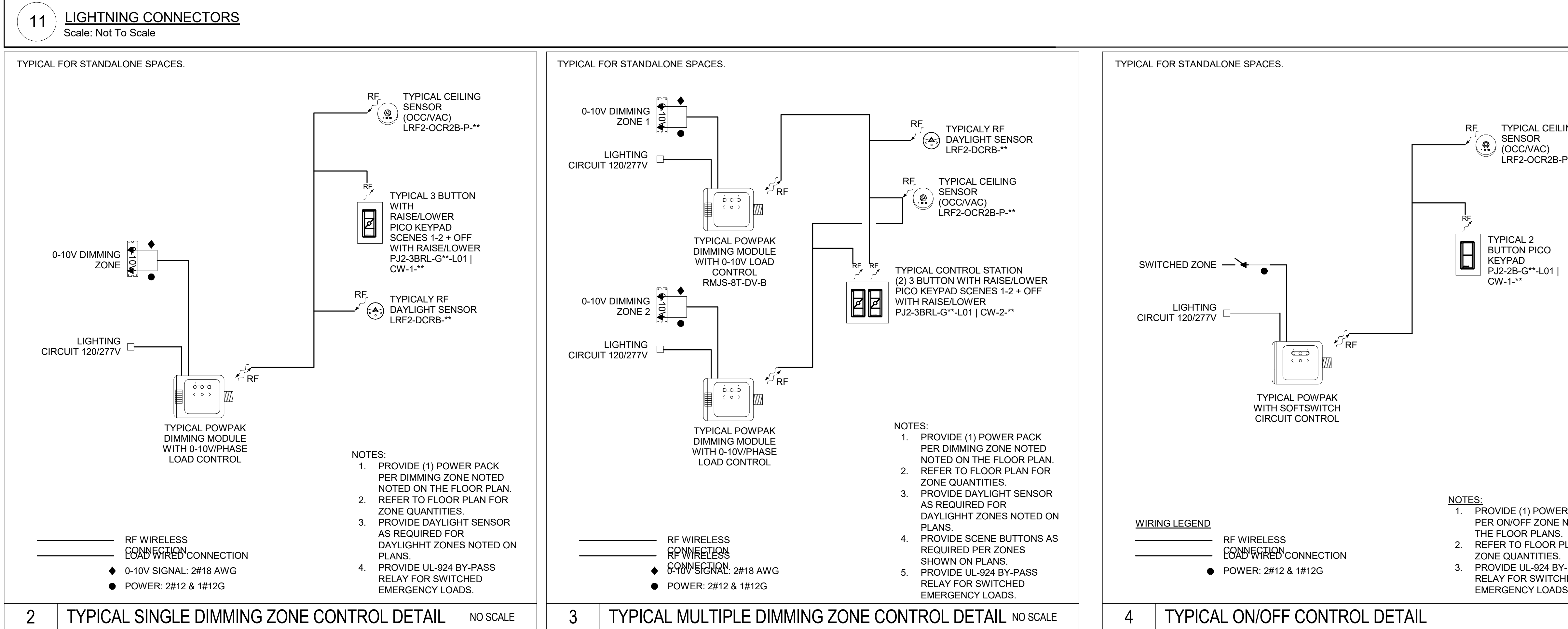
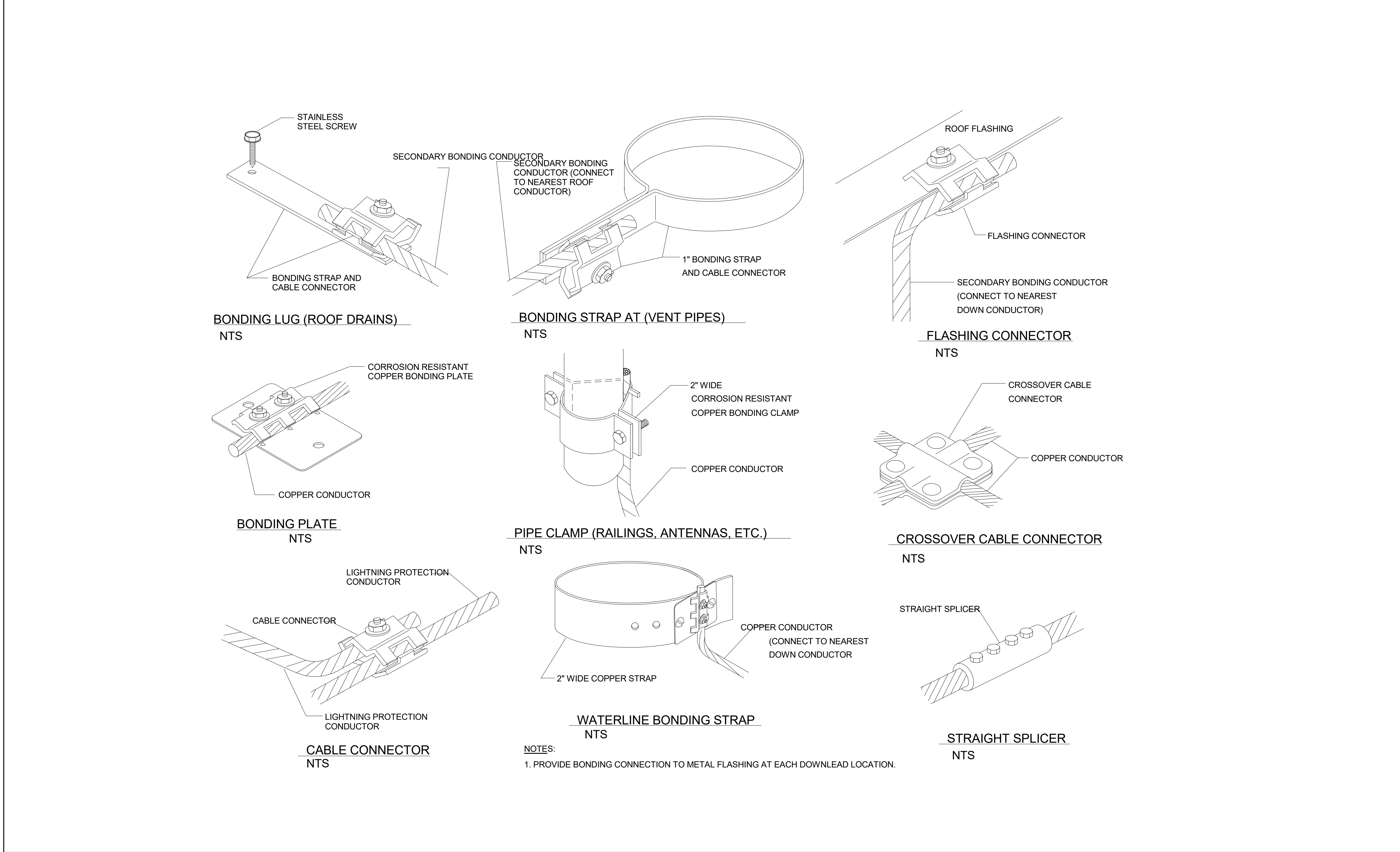
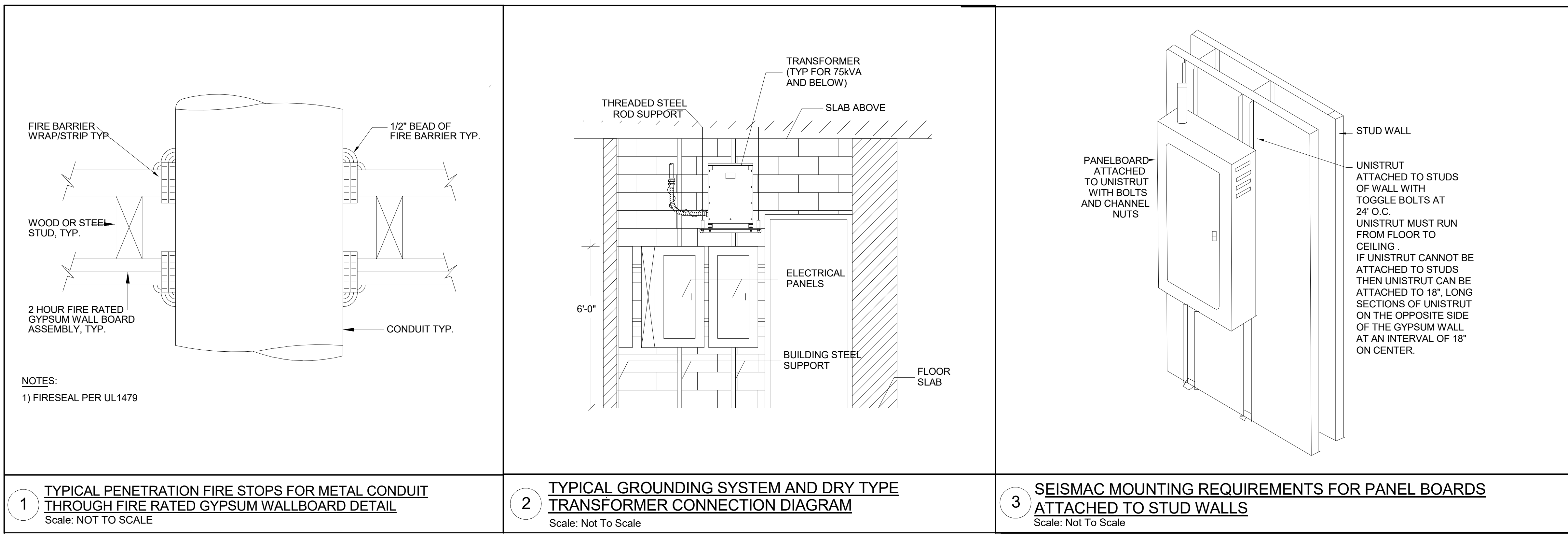
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Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E4-0-12

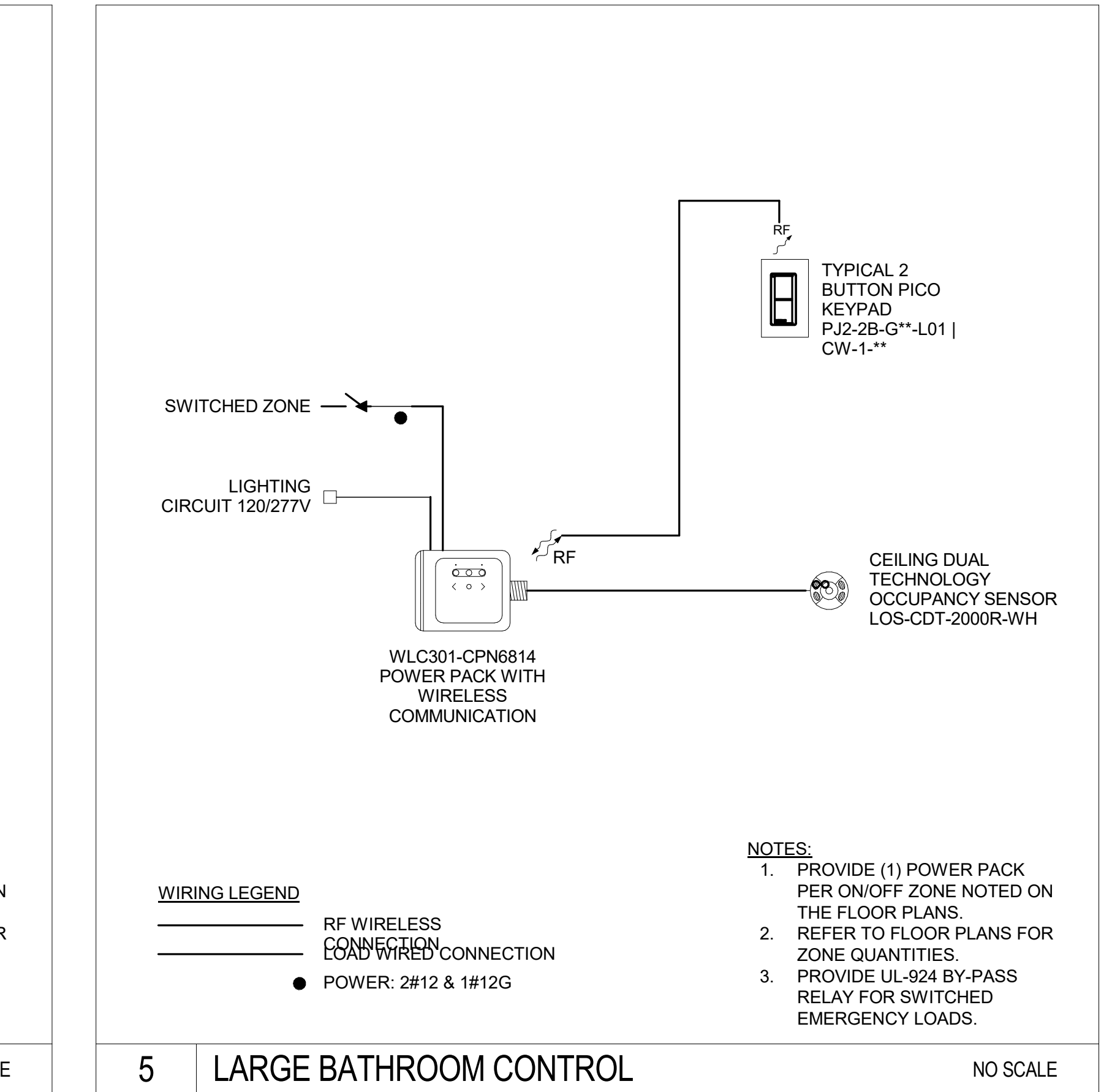








| LUTRON SERVICES                                                                                                                         |                                                             |                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QTY                                                                                                                                     | SERVICE TITLE (MODEL NUMBER)                                | SERVICE DESCRIPTION                                                                                                                                                                                                                                                                                                     |
| THE QUANTITY OF SERVICES BELOW ARE TO BE INCLUDED AS PART OF THIS PROJECT'S SCOPE OF WORK AND SPECIFIED INTO THE WRITTEN SPEC DOCUMENTS |                                                             |                                                                                                                                                                                                                                                                                                                         |
| PRE-STARTUP SERVICES                                                                                                                    |                                                             |                                                                                                                                                                                                                                                                                                                         |
| 1                                                                                                                                       | ONSITE PRE-WIRE VISIT (LSC-PREWIRE)                         | AN ONSITE VISIT WITH THE ELECTRICAL CONTRACTOR TO DISCUSS LOGISTICAL CONSTRUCTION CONSIDERATIONS INCLUDING THE WIRING AND MOUNTING OF SYSTEM DEVICES, THE CONSTRUCTION SCHEDULE, AND LUTRON DOCUMENTATION. QUANTITY DICTATES THE NUMBER OF VISITS PURCHASED.                                                            |
|                                                                                                                                         | SYSTEM & NETWORK INTEGRATION CONSULTATION (LSC-INT-VISIT)   | A CONSULTATIVE VISIT WITH THIRD PARTY INTEGRATORS TO CONFIRM THE SPECIFIED SEQUENCE OF OPERATION AND DISCUSS INTEGRATION PROCEDURES NEEDED IN ORDER TO INTEGRATE WITH THE LUTRON EQUIPMENT. THIS MAY INCLUDE ANY OF THE FOLLOWING THIRD PARTY SYSTEMS: BMS, BMS, IT, NON-LUTRON SMOKE, SMOKE, AV, OR ENERGY DASHBOARDS. |
|                                                                                                                                         | SENSOR LAYOUT & TUNING (LSC-SENS-L)                         | LUTRON WILL TAKE RESPONSIBILITY FOR LUTRON-PROVIDED SENSOR PLACEMENT AND PERFORMANCE BY CREATING SENSOR LAYOUTS AND COORDINATING SENSOR PLACEMENT BEFORE AND AFTER INSTALLATION. ONCE THE BUILDING IS OCCUPIED, LUTRON WILL RETURN UP TO TWO TIMES TO PERFORM SENSOR FINE-TUNING.                                       |
| (THESE SERVICES ARE ADDITIONAL TO YOUR SPECIFIED STARTUP BASED ON YOUR REQUIREMENTS)                                                    |                                                             |                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                         | STARTUP SUPPORT SERVICES                                    | STARTUP PROVIDED BETWEEN THE HOURS OF 5:00PM - 7:00AM, MONDAY - FRIDAY. THIS SCOPE OF WORK DOES NOT INCLUDE HOLIDAY OR WEEKEND WORK. ADDITIONAL FEES MAY APPLY FOR WORK TO BE COMPLETED ON WEEKENDS (FRIDAY 5:00PM - MONDAY 7:00AM).                                                                                    |
| 1                                                                                                                                       | ONSITE SCENE & LEVEL TUNING (LSC-AF-VISIT)                  | AN ONSITE VISIT WITH THE SPECIFIER OR CUSTOMER REPRESENTATIVE TO REVIEW THE DESIGN INTENT, FINE-TUNE THE SCENE LEVEL PROGRAMMING, AND MAKE ADJUSTMENTS TO TIMECLOCK.                                                                                                                                                    |
|                                                                                                                                         | ONSITE PERFORMANCE-VERIFICATION WALKTHROUGH (LSC-WALK)      | AN ONSITE WALKTHROUGH WITH FACILITY REPRESENTATIVES OR PROJECT COMMISSIONING AGENTS TO DEMONSTRATE THAT THE SYSTEM FUNCTIONALITY MEETS THE DESIGN INTENT. THIS MAY INCLUDE ANY OF THE FOLLOWING ONSITE ACTIVITIES - CONSULTATION/TRAINING DEMOS, FUNCTIONAL TESTING ASSISTANCE, OR INVENTORY OF LUTRON EQUIPMENT.       |
|                                                                                                                                         | SYSTEM PERFORMANCE-VERIFICATION DOCUMENTATION (LSC-SPV-DOC) | COMPLETION OF DOCUMENTATION WHICH PROVIDES PERFORMANCE VERIFICATION CERTIFYING THE LUTRON EQUIPMENT HAS BEEN THOROUGHLY TESTED. IT SUPPORTS THE DOCUMENTATION REQUIREMENTS OF MANY BUILDING STANDARDS.                                                                                                                  |
| POST-STARTUP SERVICES                                                                                                                   |                                                             |                                                                                                                                                                                                                                                                                                                         |
| 1                                                                                                                                       | CUSTOMER-SITE SOLUTION TRAINING (LSC-TRAINING-SP)           | A VISIT TO TEACH SYSTEM USERS HOW TO OPERATE AND MAINTAIN THE LIGHTING CONTROL SYSTEM.                                                                                                                                                                                                                                  |
| 1                                                                                                                                       | SYSTEM OPTIMIZATION (LSC-SYSOPT-SP)                         | AN ONSITE CONSULTATIVE VISIT TO IDENTIFY AND IMPLEMENT LIGHTING CONTROL ADJUSTMENTS TO SAVE ADDITIONAL ENERGY AND CREATE A MORE PRODUCTIVE WORK ENVIRONMENT.                                                                                                                                                            |
| MAINTENANCE & SUPPORT SERVICES                                                                                                          |                                                             |                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                         | SOFTWARE MAINTENANCE AGREEMENT (LSC-SMA-SP)                 | PROVIDES COMPATIBILITY TESTING RESULTS OF QUANTUM WITH OPERATING SYSTEM PATCHES AND WEB BROWSER UPDATES. INCLUDES AN ELECTIVE FREE SOFTWARE UPGRADE LICENSE.                                                                                                                                                            |
| 1                                                                                                                                       | COMMERCIAL SYSTEMS 2-YEAR LIMITED WARRANTY (LSC-B2)         | A 2-YEAR SYSTEM WARRANTY PROVIDING 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME.                                                                                                                                                                               |
|                                                                                                                                         | ENHANCED SILVER (LSC-ESB)                                   | YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.                                                                                                                            |
|                                                                                                                                         | ENHANCED GOLD (LSC-EGG)                                     | YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 72-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.                                                                       |
|                                                                                                                                         | ENHANCED PLATINUM (LSC-EPF)                                 | YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 24-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.                                                                       |
|                                                                                                                                         | SILVER TECHNOLOGY SUPPORT PLAN (LSC-SILV-W)                 | AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A FIRST-AVAILABLE ONSITE OR REMOTE RESPONSE TIME.                                                                                                                                                                       |
|                                                                                                                                         | GOLD TECHNOLOGY SUPPORT PLAN (LSC-GOLD-W)                   | AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON LABOR WITH A 72-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR.                                                                                                        |
|                                                                                                                                         | PLATINUM TECHNOLOGY SUPPORT PLAN (LSC-PLAT-W)               | AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A 24-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR.                                                                                             |
|                                                                                                                                         | PREVENTIVE MAINTENANCE VISIT(S) (LSC-SCH-MANT)              | SCHEDULED MAINTENANCE VISIT TO PERFORM PREVENTIVE MAINTENANCE, MINOR PROGRAMMING, AND CONDUCT SYSTEM TRAININGS. QUANTITY IS IN ADDITION TO ANY YEARLY VISITS SPECIFIED WITH AN ENHANCED WARRANTY OR TECHNOLOGY SUPPORT PLAN.                                                                                            |
| PLEASE GO TO WWW.LUTRON.COM/SERVICES FOR FURTHER INFORMATION.                                                                           |                                                             |                                                                                                                                                                                                                                                                                                                         |



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SUBMISSION

January 13, 2023

PROJECT NORTH

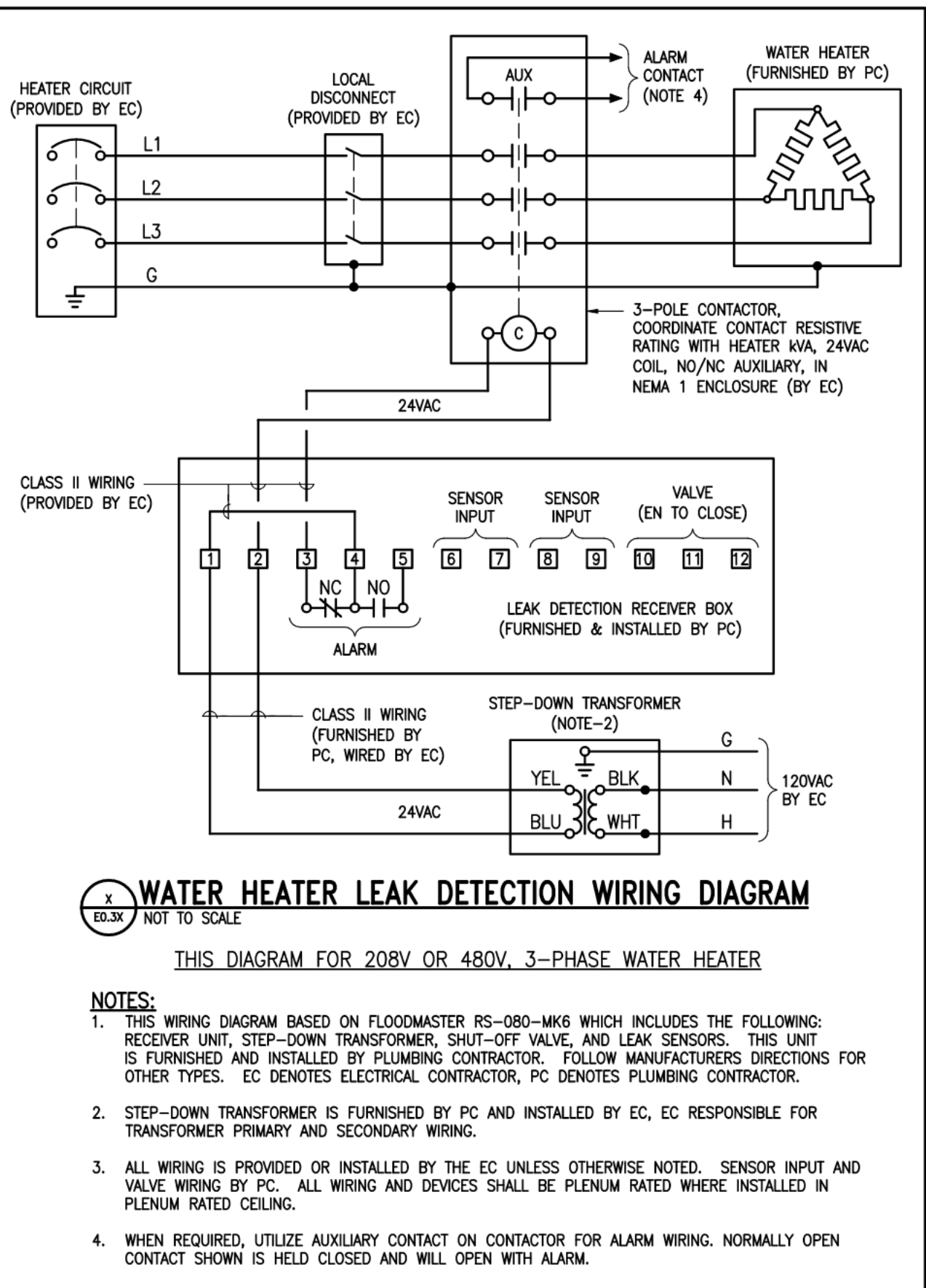
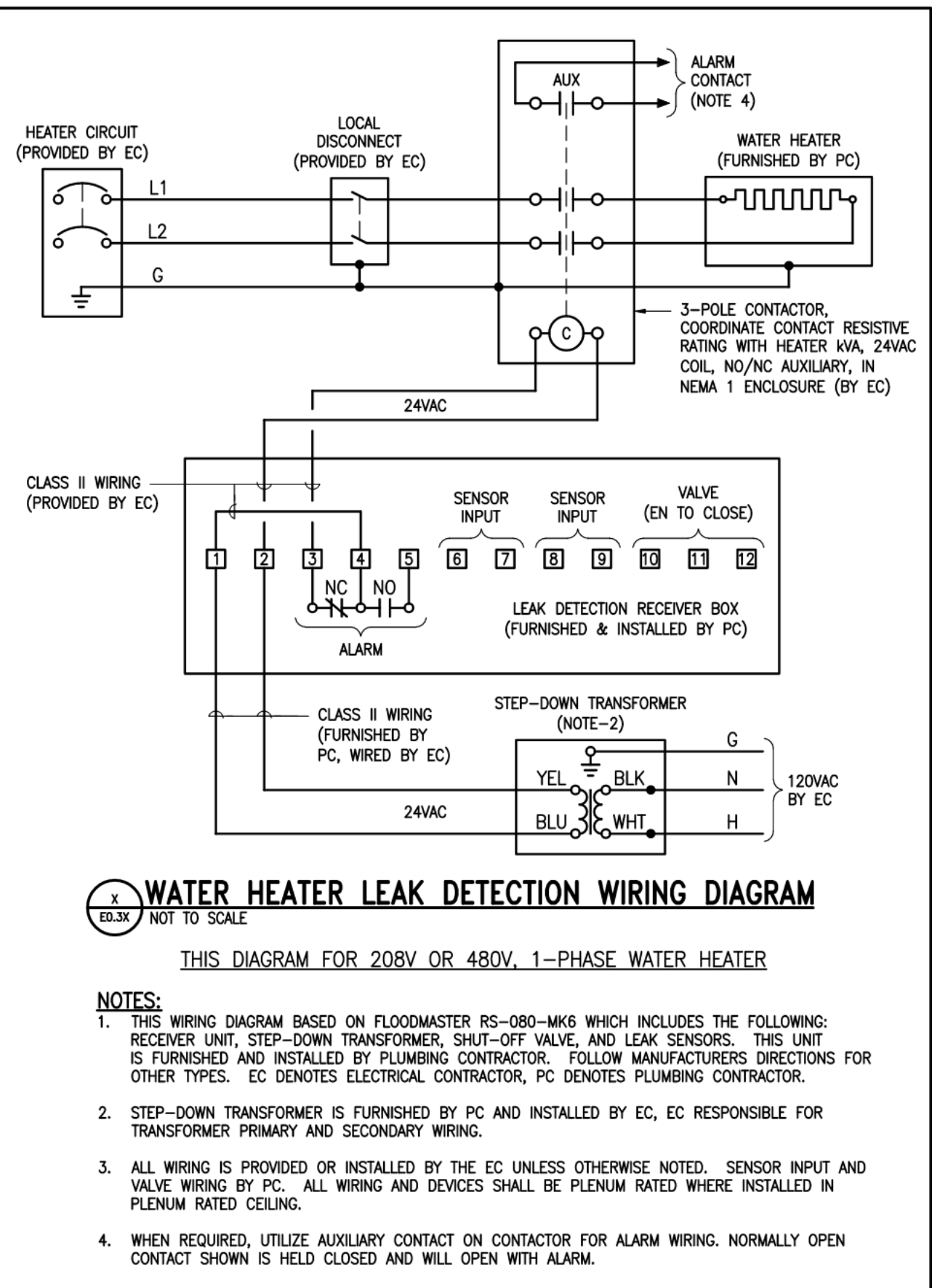
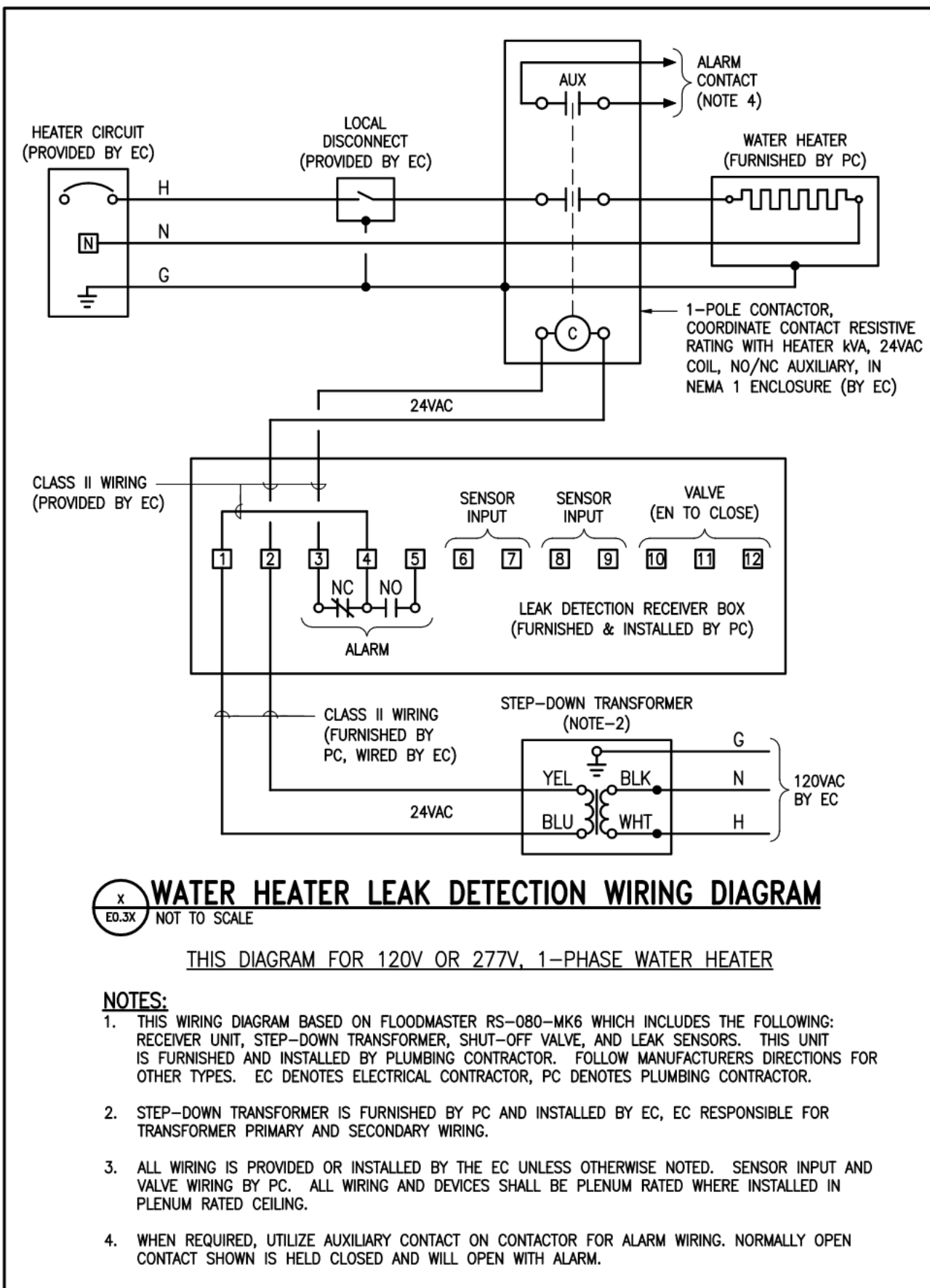
MAGNETIC NORTH

ELECTRICAL  
DETAIL SHEET 3

Scale: NONE  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E4-0-14





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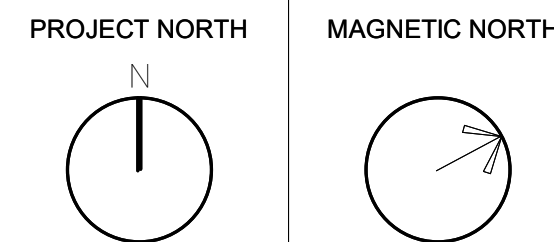
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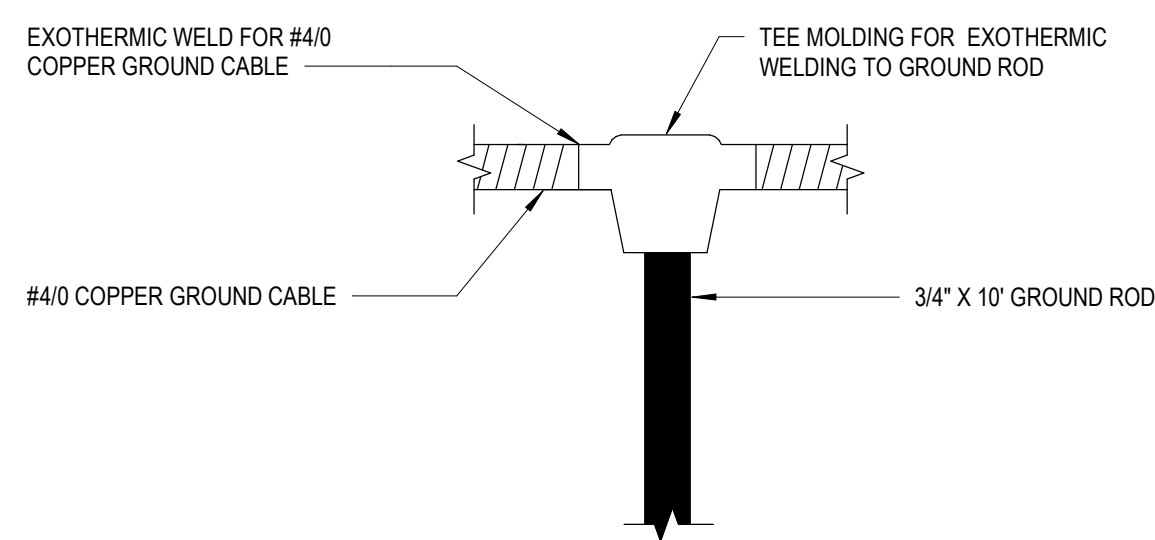
ELECTRICAL  
DETAIL SHEET 4

Scale: 6" = 1'-0"  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023  
E4-0-15

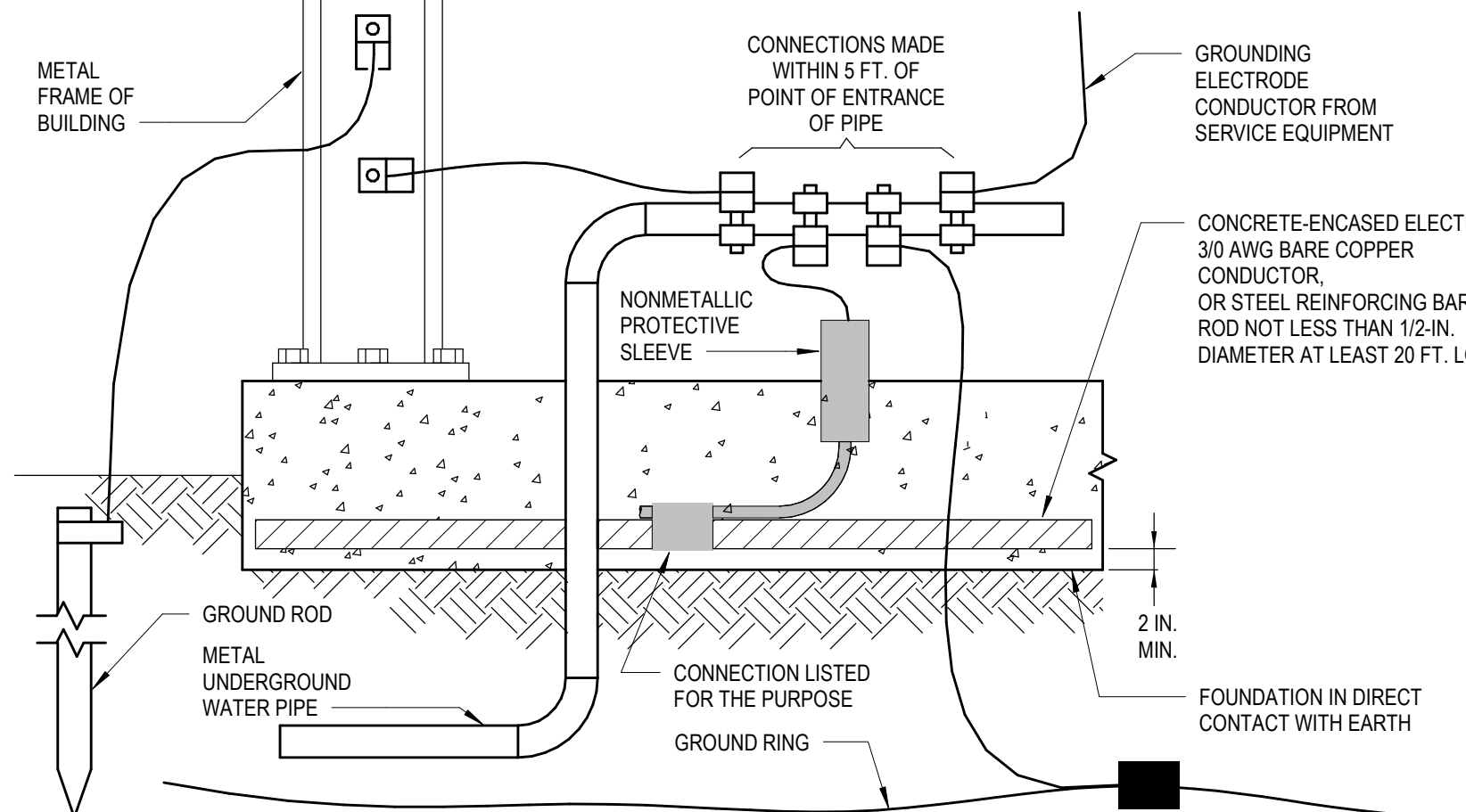




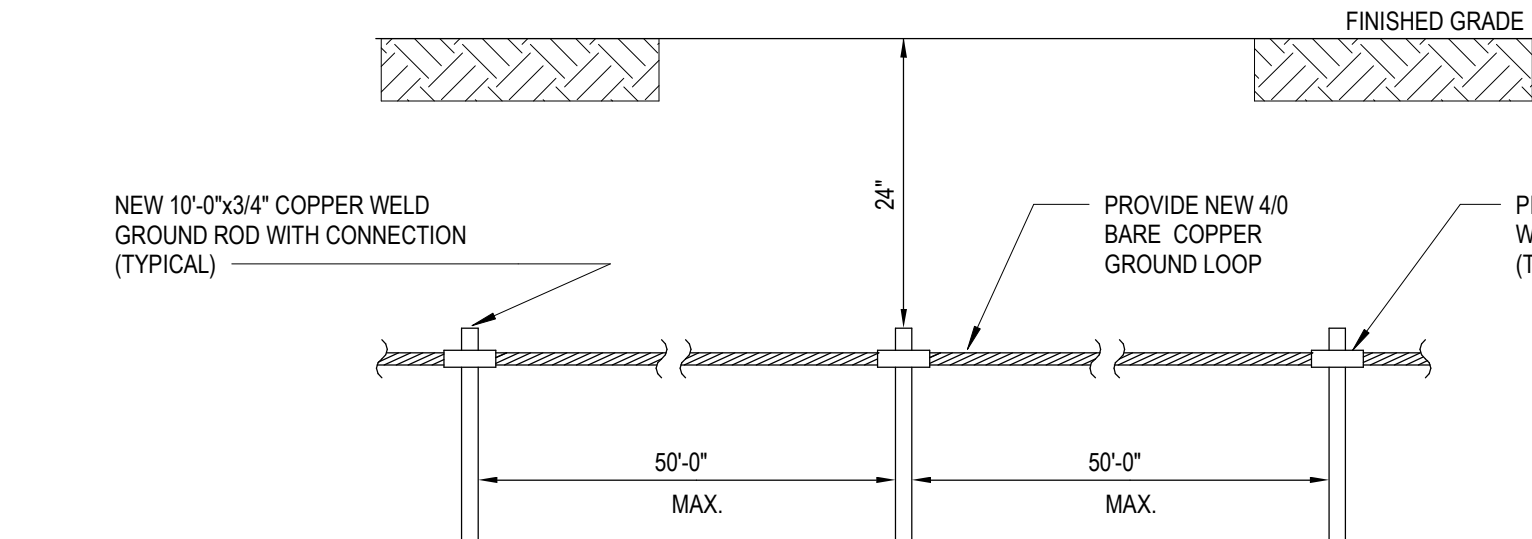




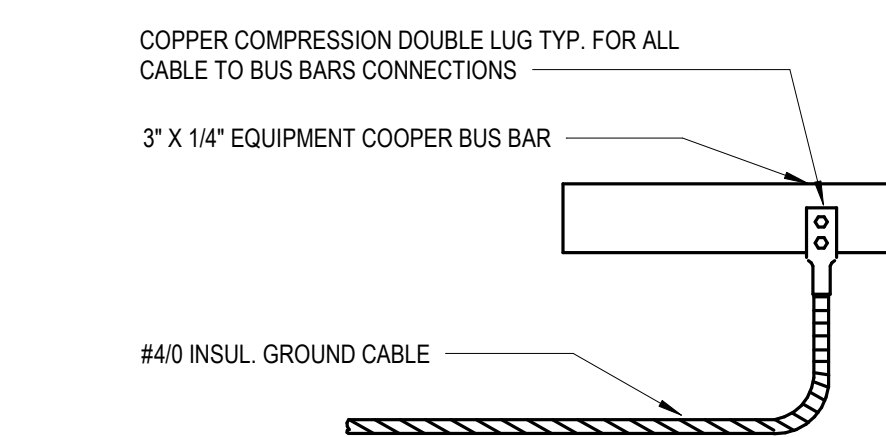
**1 BELOW GRADE GROUND CABLE**  
E4-0-17 NOT TO SCALE



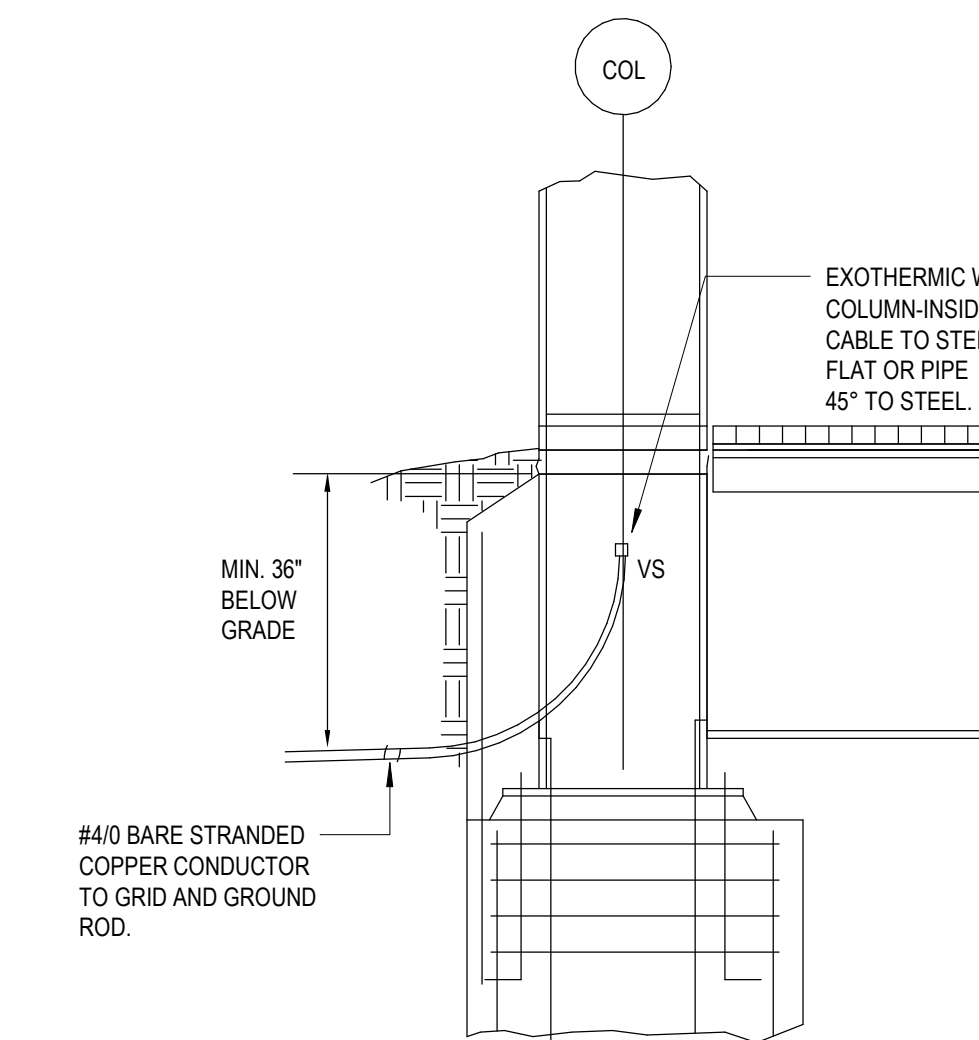
**2 CONCRETE ENCASED ELECTRODE DETAIL**  
E4-0-17 NOT TO SCALE



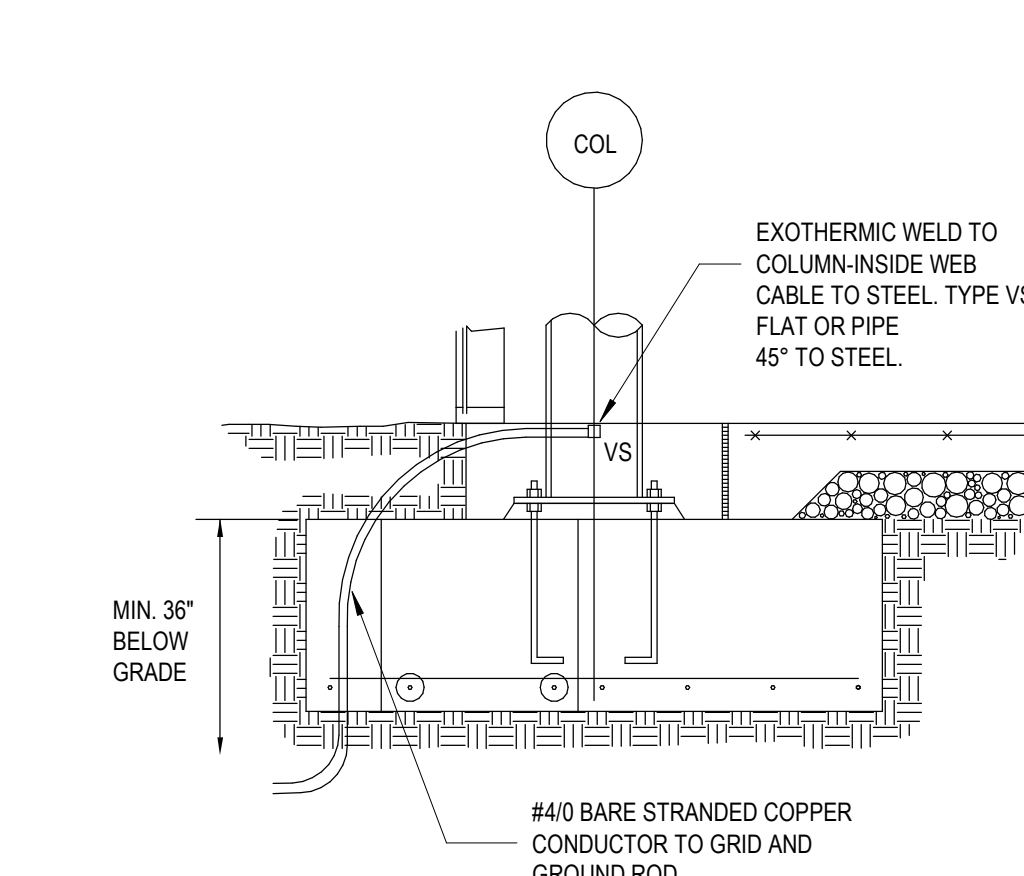
**3 GROUND - LOOP/GRID DETAIL**  
E4-0-17 NOT TO SCALE



**4 CABLE TO GROUND BUS**  
E4-0-17 NOT TO SCALE



**5 RAISED GROUNDING DETAIL**  
E4-0-17 NOT TO SCALE



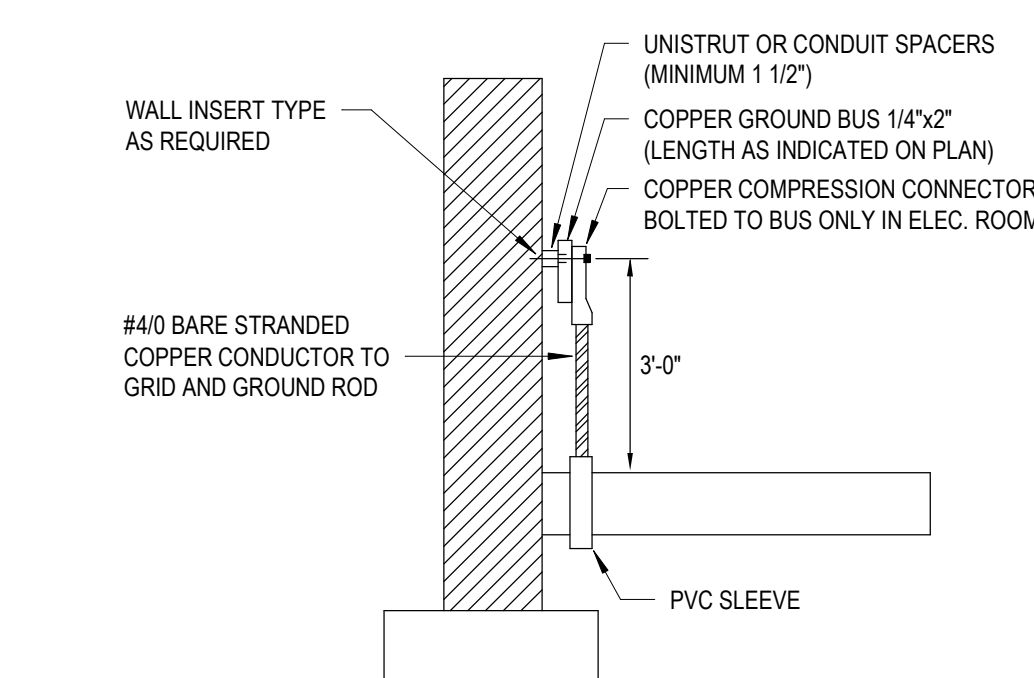
**6 TYPICAL COLUMN FOOTING DETAIL**  
E4-0-17 NOT TO SCALE

#### BUILDING GROUNDING SHEET NOTES:

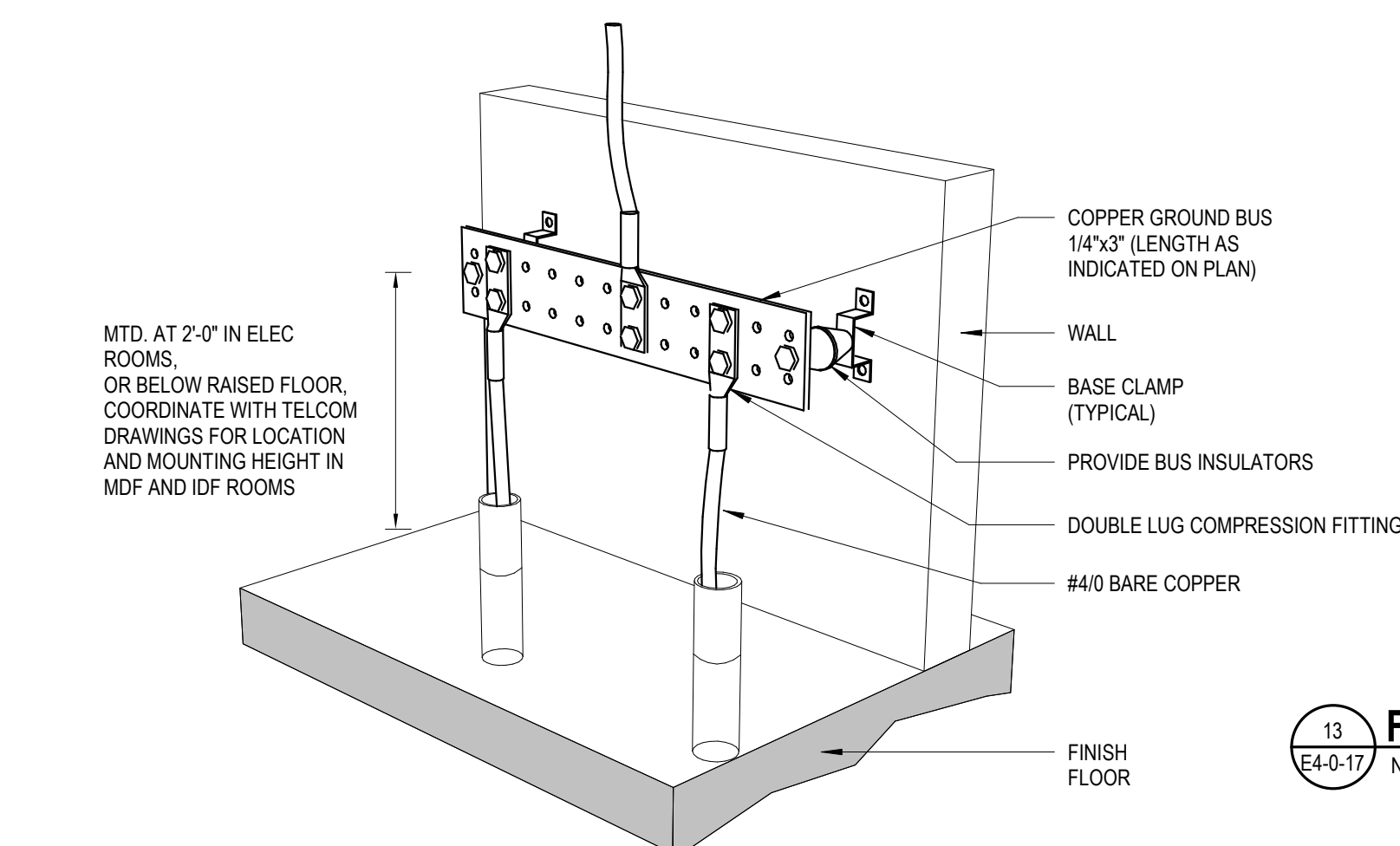
1. CONTRACTOR SHALL VERIFY LOCATION OF SWITCHGEAR PRIOR TO INSTALLATION OF GROUND BUS.
2. ALL EMBEDDED CONDUIT STUB-UPS TO BE RGS CONDUIT.
3. GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE (NEC), AND THE NOTES AND DETAILS ON THIS DWG.
4. ALL BELOW GRADE AND EMBEDDED GROUND CONNECTIONS SHALL BE BY EXOTHERMIC WELDING PROCESS OR APPROVED EQUAL.
5. ALL EXPOSED GROUND CONNECTIONS SHALL BE MECHANICAL TYPE.
6. SURFACES WHERE GROUNDING CONNECTIONS ARE TO BE MADE SHALL BE CLEANED TO BARE METAL AND SHALL BE FREE OF ALL PAINT, SCALE, GREASE, DIRT AND OXIDES.
7. UNDERGROUND CABLES AND GROUND LOOP TO BE BACKFILLED COMPLETELY AROUND CABLE WITH NON-CORROSIVE FILL.
8. GROUND LOOP CONDUCTORS SHALL BE INSTALLED 2 FT. FROM BUILDING FOUNDATION/FOOTER WITH A MINIMUM OF 3\"/>

#### BUILDING GROUNDING SHEET NOTES

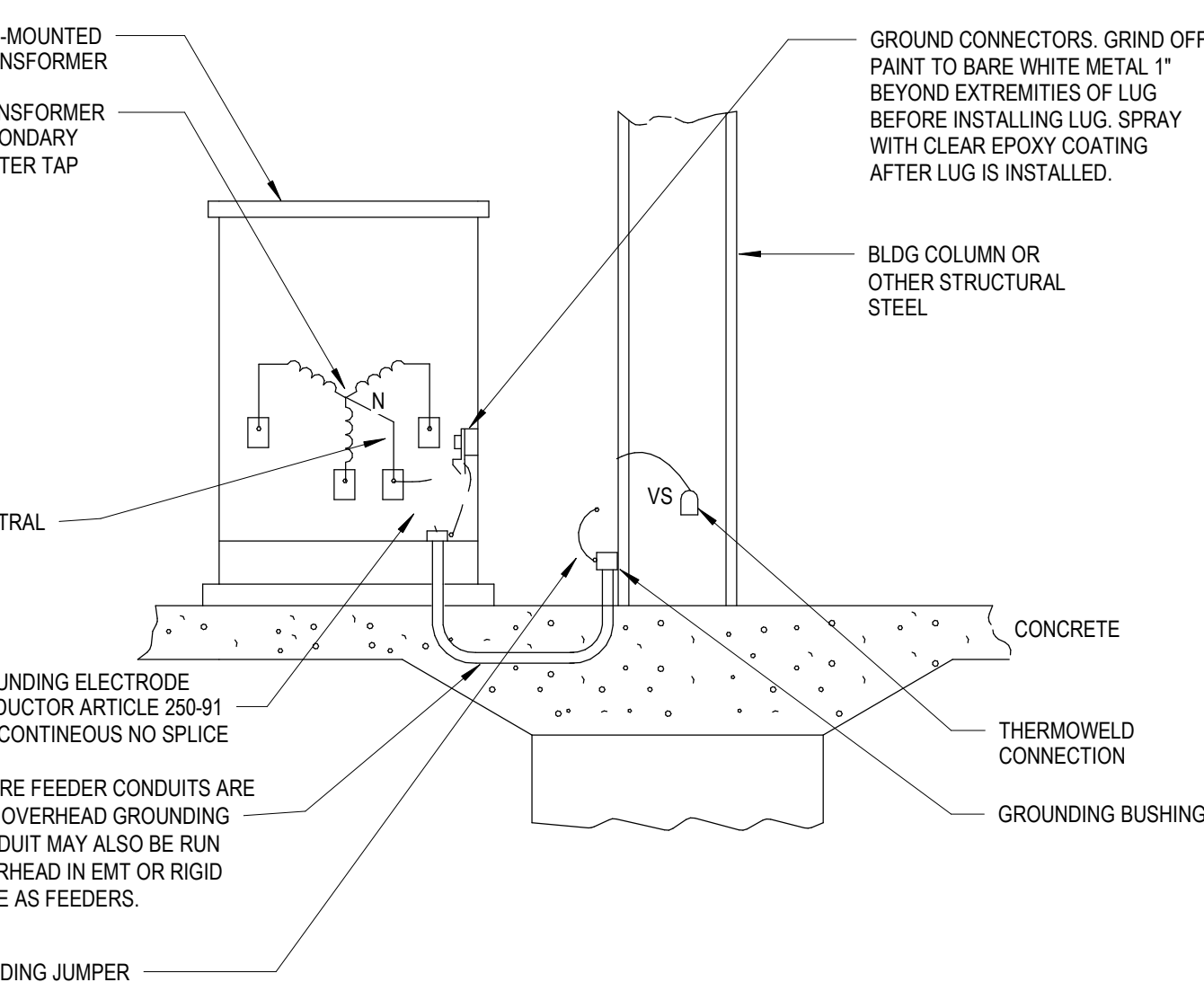
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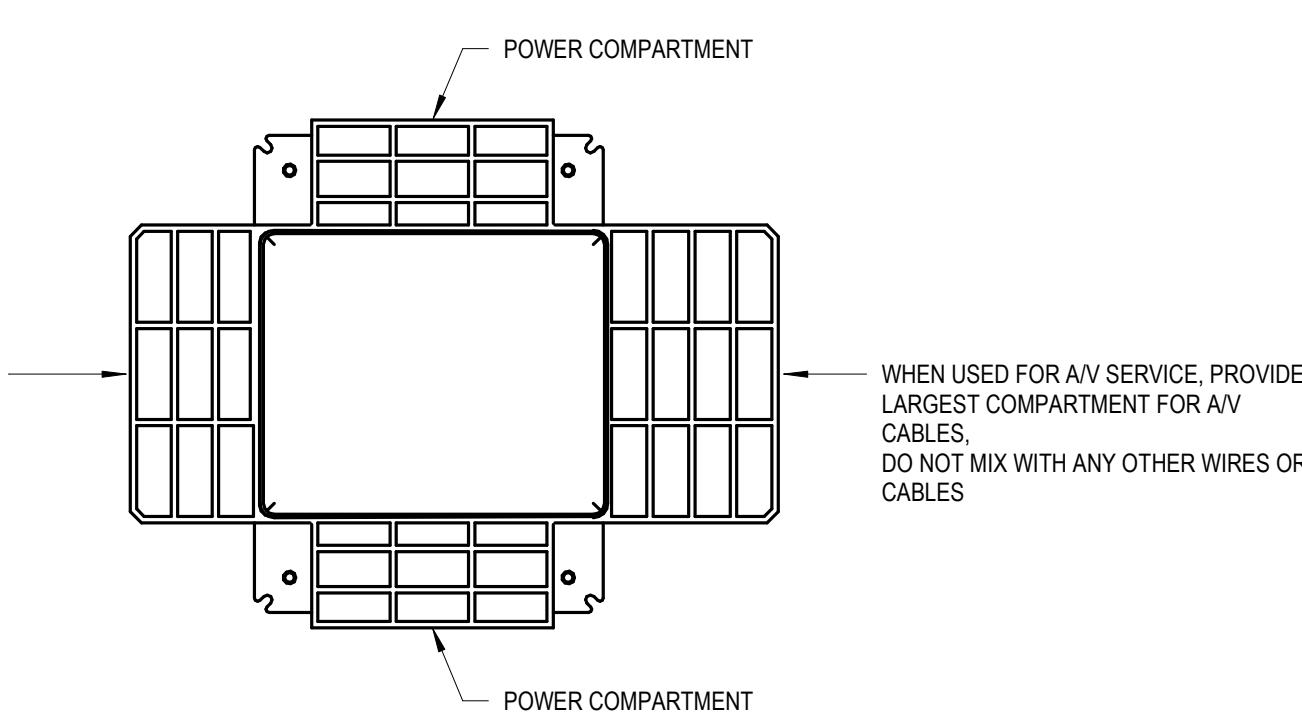
**7 TYPICAL GROUND BUS DETAIL**  
E4-0-17 NOT TO SCALE



**8 GROUND BUS DETAIL**  
E4-0-17 NOT TO SCALE



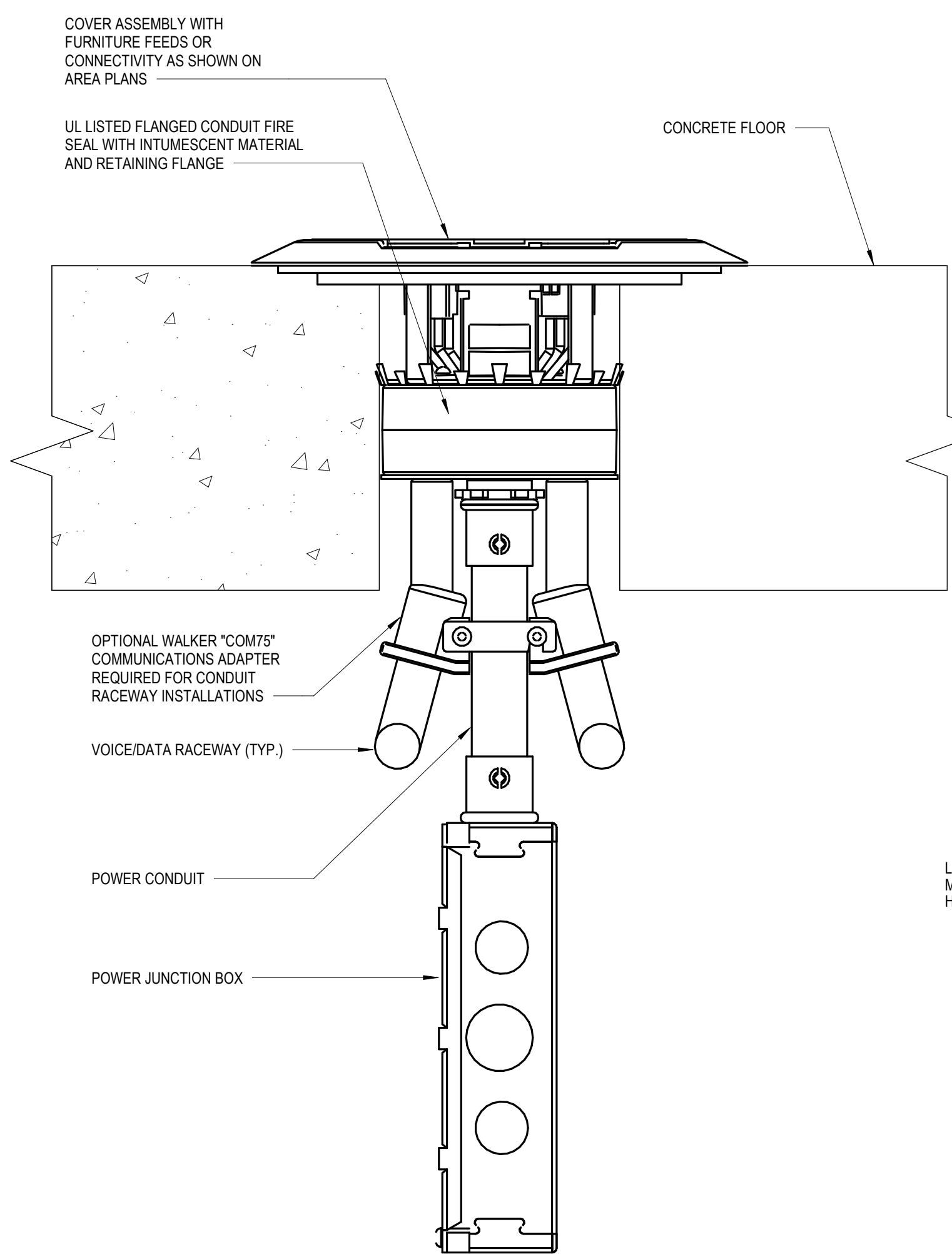
**9 PAD-MOUNTED XFMR. & GENERATOR GROUNDING DETAIL**  
E4-0-17 NOT TO SCALE



#### NOTES:

1. REFER TO MANUFACTURER'S DATA SHEET FOR LOCATIONS AND SIZES OF CONDUIT OPENINGS.

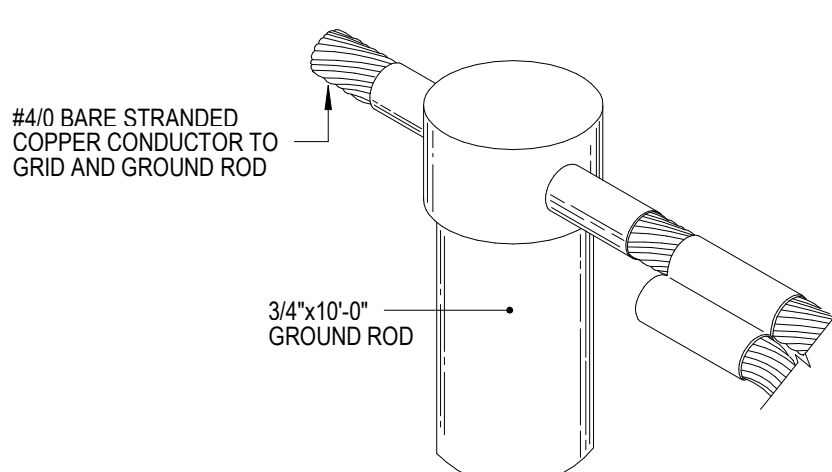
**10 RFB4 FLOORBOX COMPARTMENT ALLOCATIONS**  
E4-0-17 NOT TO SCALE



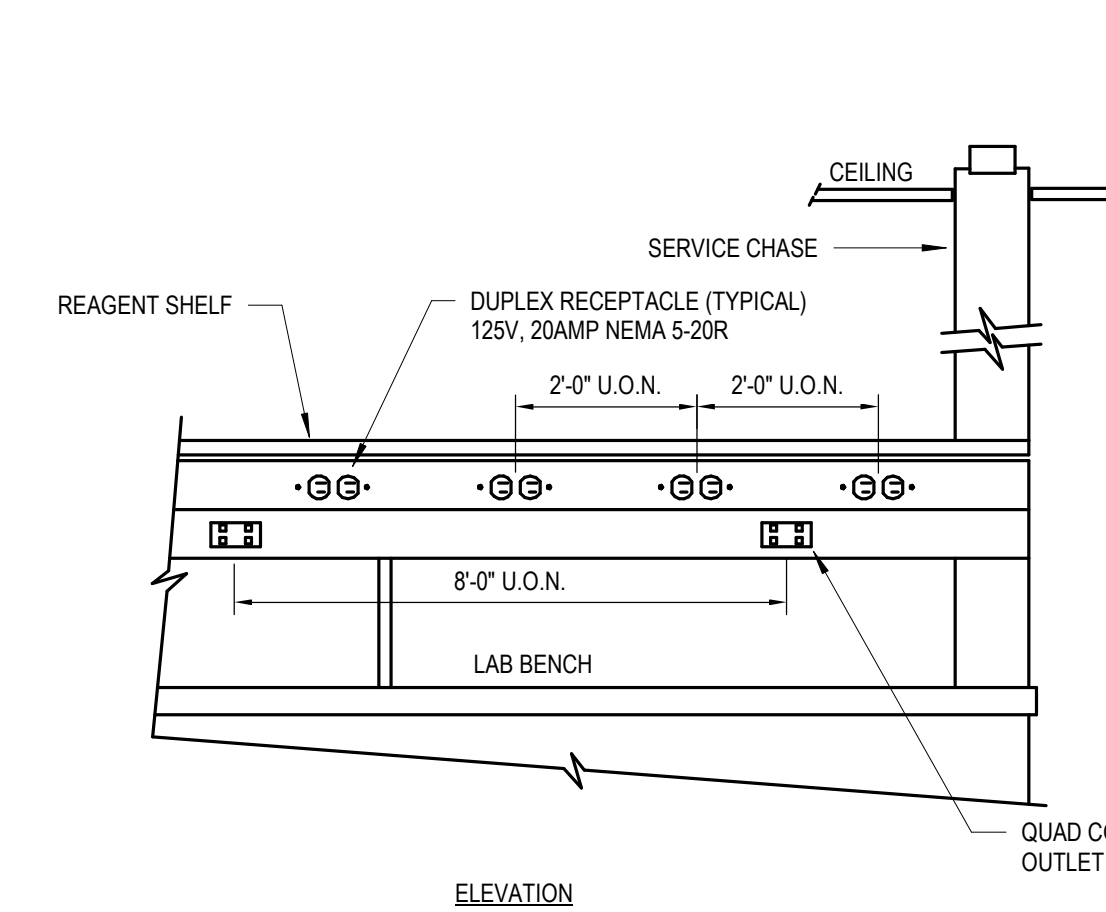
#### NOTES:

1. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MINIMUM AND MAXIMUM O.D. CORE BIT SIZES.
2. HOLES SHALL BE SPACED A MINIMUM OF 24\"/>

**11 FLOORBOX DETAIL, WALKER POKE-THRU**  
E4-0-17 NOT TO SCALE

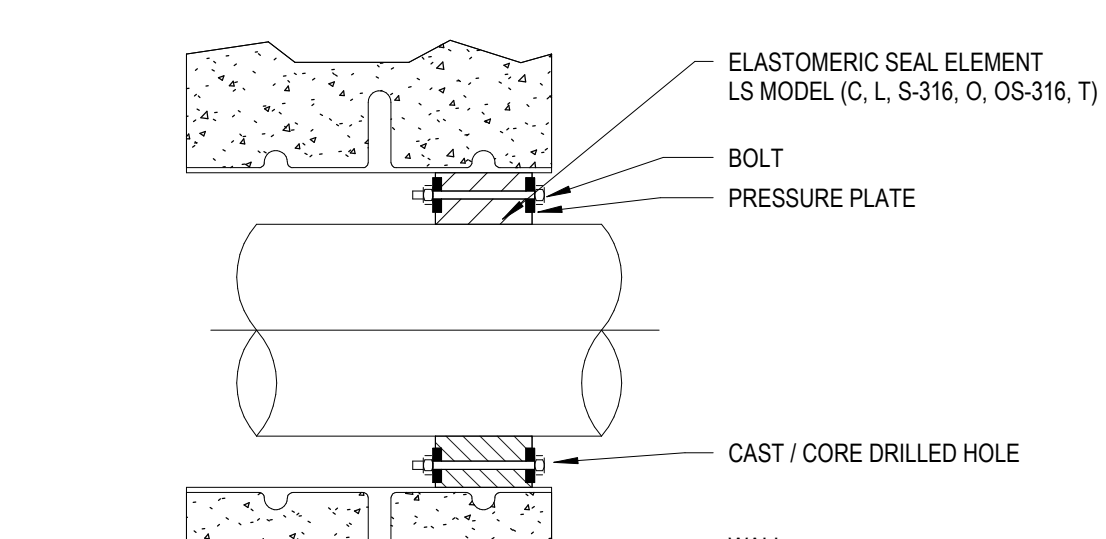


**12 GROUND ROD CONNECTION**  
E4-0-17 NOT TO SCALE



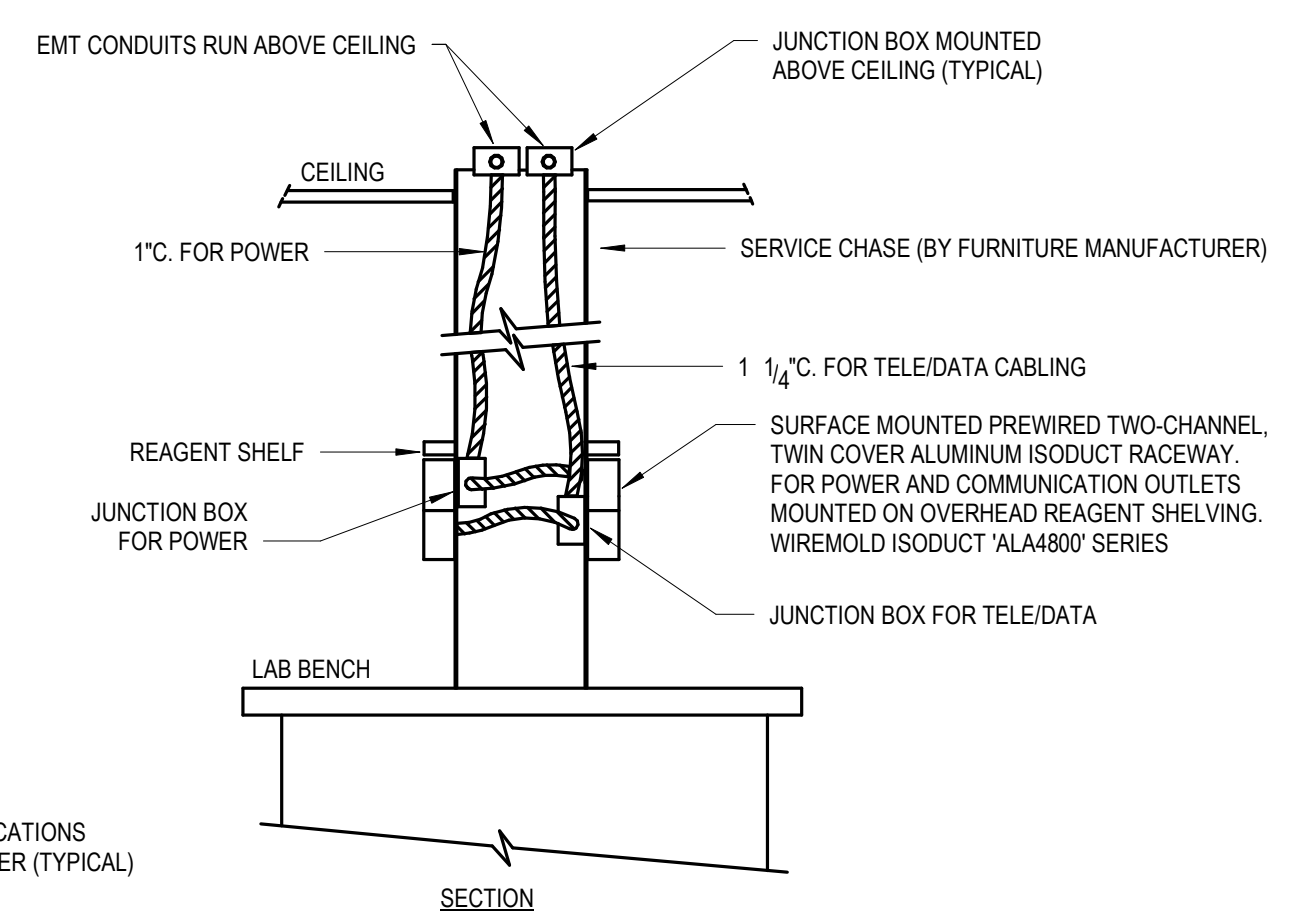
**13 TYPICAL BENCH TOP MULTI-OUTLET RACEWAY DETAIL**  
E4-0-17 NOT TO SCALE

LINK-SEAL® MODULAR SEALS WITH CAST OR CORE DRILLED WALL OPENING MANUFACTURED BY PIPELINE SEAL & INSULATOR, INC. HOUSTON, TEXAS, U.S.A. TEL: 800-452-3410; E-MAIL: INFO@PSIPI.COM

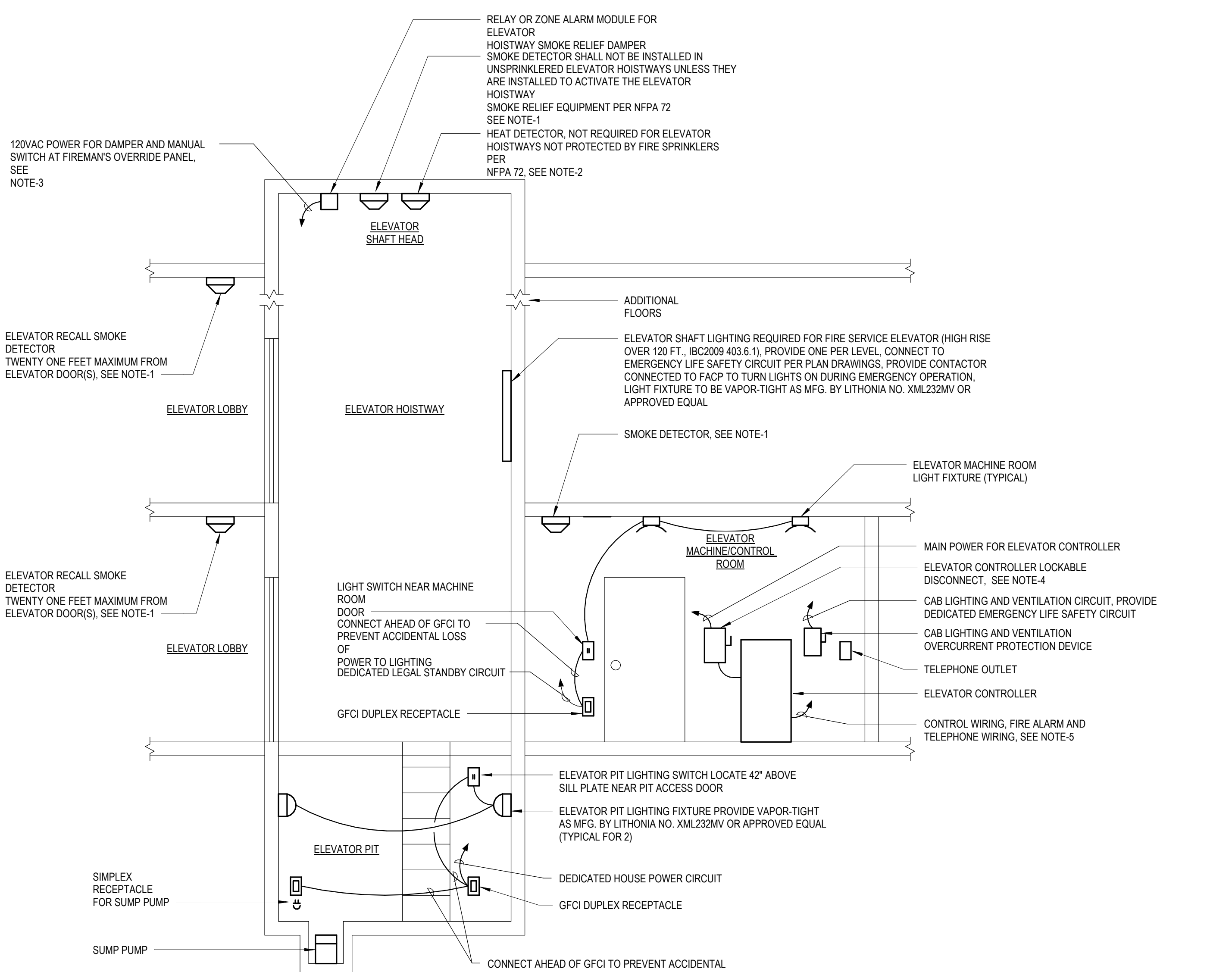


| LS Model | Seal Element        | Roll-In/Out                                      | Pressure Plate           |
|----------|---------------------|--------------------------------------------------|--------------------------|
| C        | EPDM (Black)        | Zinc Dichromate/Organic Coated Carbon Steel Bolt | Reinforced Nylon Polymer |
| L        | EPDM (Black)        | Zinc Dichromate/Organic Coated Carbon Steel Bolt | Reinforced Nylon Polymer |
| O        | Nylon               | Zinc Dichromate/Organic Coated Carbon Steel Bolt | Reinforced Nylon Polymer |
| OS       | Silicone            | Zinc Dichromate/Organic Coated Carbon Steel Bolt | Reinforced Nylon Polymer |
| LS-316   | 316 Stainless Steel | 316 Stainless Steel                              | Reinforced Nylon Polymer |

**14 LINK SEAL CORE DRILLED WALL OPENING**  
E4-0-17 NOT TO SCALE



**15 EMERGENCY SHUT-OFF DIAGRAM FOR SHOP EQUIPMENT**  
E4-0-17 NOT TO SCALE

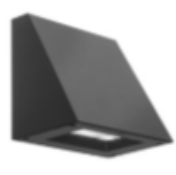
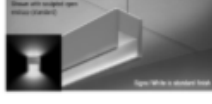
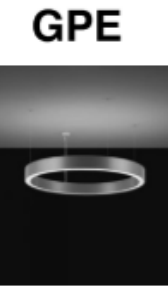
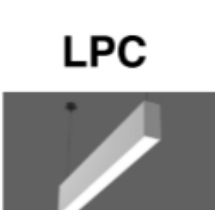
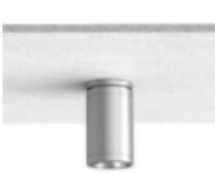


#### NOTES:

1. ACTIVATION OF ANY OF THE SMOKE DETECTORS SHOWN SHALL INITIATE ELEVATOR RECALL. ACTIVATION OF SMOKE DETECTORS ON DESIGNATED LEVEL SHALL CAUSE THE ELEVATOR TO RETURN TO AN ALTERNATE LEVEL DESIGNATED AND ALTERNATE LEVELS TO BE DETERMINED BY THE ELEVATOR INSPECTOR AND FIRE MARSHAL.
2. IF THE HOSTWAY OR MACHINE CONTROL ROOM IS SPRINKLERED, THEN THERE MUST BE A 15C DEGREE RATE OF RISE OR RATE COMPENSATION HEAT DETECTOR INSTALLED WITHIN 24\"/>

**16 TYPICAL ELEVATOR REQUIREMENTS**  
E4-0-17 NOT TO SCALE



| Type                                                                                                | Manufacturer                                                                                                                                                          | Description                                                                                                                                                                                                                                                                           | Lamp/Details                                                                                                                                                                      | Scope/Notes/Location                            | Type                                                                                                 | Manufacturer                                                                                                                                              | Description                                                                                                                                                                                                                                                                      | Lamp/Details                                                                                                                                                                                          | Scope/Notes/Location                          | Type                                                                                                  | Manufacturer                                                                                                                                                                                                                  | Description                                                                                                                                                                    | Lamp/Details                                                                                                                                                             | Scope/Notes/Location                                                    |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>DPA</b><br>     | Eureka Lighting<br>4258-32-LED-35-80-XX-DV-AC-60-RC1-WHE-REF-WH<br><br>Or Equal per performance specifications in lamp/details section and description.               | 32" Diameter x 26" High LED decorative pendant with acoustic felt sides in overlapping conical pattern. Fixture has internal reflector and, frosted acrylic lens. Aircraft cable suspension                                                                                           | 28.5 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Lumens: 1760 delivered per fixture<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                | <i>Location: Principal Office, Collab Rooms</i> | <b>GWB</b><br>     | Lithonia Lighting<br>WDGE1LED-P2-35K-80CRI-TBD-XXX-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.            | 8" Tall by 9" Wide Surface Mounted Wall Sconce mounted above doors.                                                                                                                                                                                                              | 15 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 2000 per fixture<br>Dim: 0-10V<br>Mount: Wall Mount<br>Finish: Per Architect                                            | <i>Location: Exterior</i>                     | <b>LPG</b><br>     | Mercury Lighting<br>MLS3-DI-VARIES-500-500-35K-ASO-BW-1%-2C-XXX-TBD-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.                                                               | 3" Wide by 4 1/8" Tall suspended linear lensed direct/indirect fixture with fully adjustable mounting.                                                                         | 8.1 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1000 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                       | <i>Location: Restaurant Cosmetology area<br/>Secondary stair towers</i> |
| <b>DPB</b><br>     | Luminis Lighting<br>CL842-LBL60-XXX-TBD-TBD-K35-TBD-DL1L40-R30<br><br>Or Equal per performance specifications in lamp/details section and description.                | 4" Tall by 6" Diameter pendant mounted LED fixture with acrylic column section and downlight component and 30" flood optic. LED boards are contained in a white UV stabilized high impact acrylic sealed cylinder. The assembly is designed to provide a uniform column illumination. | 98 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: 30°<br>Lumens: 9968 per fixture<br>Dim: 0-10V to 10%<br>Mount: Pendant<br>Finish: Per Architect | <i>Location: Cafeteria</i>                      | <b>GWC</b><br>     | Luminis Lighting<br>SQ802-L2L35-R40-XX-SGT-XX-2K3-LSL-U<br><br>Or Equal per performance specifications in lamp/details section and description.           | 8" Square x 12" long wall-mounted LED adjustable direct/indirect cylinder fixture with 18" vertical tilt and linear spread lens.                                                                                                                                                 | 81 W per fixture<br>Volts: Per EE<br>Color Temp: 3000K<br>CRI: 80<br>Beam Spread: 38°<br>Lumens: 7144 delivered per fixture<br>Dim: Per EE<br>Mount: Wall Mount<br>Finish: Steel Gray<br>Rating: IP66 | <i>Location: Exterior</i>                     | <b>LPH</b><br>     | H. E. Williams Inc.<br>96-8-L220-835-HIAFR-XXX-XXX<br><br>Or Equal by: Lithonia FEM Series<br>Current Albeo ALR Series                                                                                                        | 7 3/8" W x 5" H x 8" L. Suspended linear fixture, fully enclosed and gasketed. Toolless latches. Internal white reflector. Frosted, ribbed impact resistant acrylic shielding. | 166 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Lumens: 22000 per fixture<br>Dim: 0-10V<br>Mount: Surface<br>Finish: Per Architect                 | Provide with suspended mounting kit.<br><br><i>Location: Auto</i>       |
| <b>DPB-2</b><br>   | Luminis Lighting<br>CL842-LBL60-XXX-TBD-TBD-K35-TBD-DL1L20-R55<br><br>Or Equal per performance specifications in lamp/details section and description.                | 4" Tall by 6" Diameter pendant mounted LED fixture with downlight component and 55" flood optic. LED boards are contained in a white UV stabilized high impact acrylic sealed cylinder. The assembly is designed to provide a uniform column illumination.                            | 74 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: 55°<br>Lumens: 7912 per fixture<br>Dim: 0-10V to 10%<br>Mount: Pendant<br>Finish: Per Architect | <i>Location: Level 4 Corridor</i>               | <b>GWD</b><br>     | Brownlee Lighting<br>1575D-24-[FINISH]-H32-35K-2CT                                                                                                        | 24" Long wall mounted rectangular direct/indirect LED sconce fixture.                                                                                                                                                                                                            | 32 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 3024 per fixture<br>Dim: 0-10V<br>Mount: Wall Mount<br>Finish: Per Architect                                            | <i>Location: Stairwell</i>                    | <b>LPJ</b><br>     | Finelite<br>H04-ID-RO-VARIES-B-H-835-WSOTG-OPN-XXX-FA-OE-DC-C-                                                                                                                                                                | 4" Aperture direct/indirect pendant mounted linear LED light fixture with indirect widespread top glow optics.                                                                 | 11.3 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1379 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                      | <i>Location: Throughout</i>                                             |
| <b>GPB</b><br>     | Lithonia Lighting<br>CPRB-24000LM-XXX-35K-80CRI-PM-TBD-TBD-DWH<br><br>Or Equal by: PacLite FHUS/2 Series<br>Current Albeo Lumination Series                           | 15.1" Diameter x 3.35" Tall pendant mounted LED high-bay fixture                                                                                                                                                                                                                      | 170 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Lumens: 24000 per fixture<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: White                                  | <i>Location: Standard Shops</i>                 | <b>GWD-ALT</b><br> | A Light<br>D4-VARIES-LVH-35-XXX-M-D-R-TBD-D                                                                                                               | 3.57" Wide wall mounted indirect linear LED light fixture with asymmetric optics.                                                                                                                                                                                                | 9.7 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Beam Spread: Asymmetric<br>Lumens: 768 per foot<br>Dim: 0-10V<br>Mount: Wall Mount<br>Finish: Per Architect                       | <i>Location: Stairwell</i>                    | <b>LPK</b><br>     | Mercury Lighting<br>MLS3-M-VARIES-950-35K-HTA-1%-XXX-TBD-TBD-TBD-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                  | 3-1/2" Tall by 3" Wide pendant mounted direct linear fixture.                                                                                                                  | 8.7 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 950 per foot<br>Dim: 0-10V to 10%<br>Mount: Pendant<br>Finish: Per Architect                 | <i>Location: Gymnasium</i>                                              |
| <b>GPE</b><br>     | OCL Architectural Lighting<br>TW1-P1EM-312-MW-PTD-LED1/35K-XXX-XS-DM1-DUC/MOD<br><br>Or Equal per performance specifications in lamp/details section and description. | 26" Diameter ring direct/indirect pendant with 3.25" wide x 6.25" H cross-section. Independent control of direct vs indirect.                                                                                                                                                         | 975 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>Lumens: 80000 per fixture<br>Dim: 0-10V to 1%<br>Mount: Pendant<br>Finish: Per Architect                               | <i>Location: Media Center</i>                   | <b>GWE-1</b><br>   | Brownlee Lighting<br>5172-L25-TBD-H16-35K                                                                                                                 | 25" Long horizontal wall mounted linear LED vanity light fixture.                                                                                                                                                                                                                | 16 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1660 per fixture<br>Dim: 0-10V<br>Mount: Wall Mount<br>Finish: Per Architect                                            | <i>Location: Small bathrooms</i>              | <b>LPL</b><br>     | Finelite<br>H04-ID-RO-VARIES-V-S-835-WSOTG-OPN-XXX-FA-OE-DC-C4<br><br>Or Equal by Prudential Steam 2 Peerless Open                                                                                                            | 4" Aperture direct/indirect pendant mounted linear LED light fixture with indirect widespread top glow optics mounted to exposed j-box.                                        | 12.5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1525 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect<br>Connection: J-Box | <i>Location: Stair well</i>                                             |
| <b>GPK</b><br>     | PMC Lighting<br>ARCXMDI-ACI-35K-MD-LI-5D-FPX-WHT-XXX                                                                                                                  | 5" Diameter Pendant mounted direct/indirect LED ring fixture.                                                                                                                                                                                                                         | 7 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90<br>Beam Spread: Direct/ Indirect<br>Lumens: 1030 per fixture<br>Dim: Yes<br>Mount: Pendant<br>Finish: White      | <i>Location: Cafeteria, Staff Lunch Room</i>    | <b>GWE-2</b><br>   | Brownlee Lighting<br>5172-L25-TBD-H16-35K                                                                                                                 | 25" Long vertical wall mounted linear LED vanity light fixture.                                                                                                                                                                                                                  | 16 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1660 per fixture<br>Dim: 0-10V<br>Mount: Wall Mount<br>Finish: Per Architect                                            | <i>Location: Large Bathrooms</i>              | <b>LPL-ALT</b><br> | A Light<br>D1-VARIES-LVH-35-XXX-M-D-TBD-TBD-D                                                                                                                                                                                 | 3.75" Wide pendant mounted linear LED indirect distribution light fixture mounted on underside of stair rise following stair rise angle.                                       | 20 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1648 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect<br>Connection: J-Box   | <i>Location: Stair well</i>                                             |
| <b>GPL-1</b><br> | Lithonia Lighting<br>BLWP8-40LHE-ADSM-XXX-GZ10-LP835-BLWPCG36F2                                                                                                       | 8" long pendant mounted linear LED wrap around light fixture with adjustable air craft cable kit.                                                                                                                                                                                     | 30 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 4113 per fixture<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                           | <i>Location: Locker Rooms</i>                   | <b>GWF</b><br>   | Gotham Lighting<br>EVO6WTRC-35025-AR-LS-ND-XXX-GZ1-JBX-UP-CPC                                                                                             | 6" Diameter wall-mounted adjustable cylinder with custom finish (TBD)                                                                                                                                                                                                            | 24.7 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>Beam Spread: Narrow<br>Lumens: 2537 delivered per fixture<br>Dim: 0-10V to 1%<br>Mount: Wall Mount<br>Finish: Custom                      | <i>Location: Media Center</i>                 | <b>LPM-1</b><br> | Mercury Lighting<br>MLS3-DI-VARIES-400-400-35K-ASO-BW-1%-2C-XXX-TBD-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.                                                               | 3" Wide by 4 1/8" Tall suspended linear lensed direct/indirect fixture.                                                                                                        | 6.5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 800 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                        | <i>Location: Restaurant Cosmetology area</i>                            |
| <b>GPL-2</b><br> | Lithonia Lighting<br>BLWP4-30LHE-ADSM-XXX-GZ10-LP835-BLWPCG36F2                                                                                                       | 4" long pendant mounted linear LED wrap around light fixture with adjustable air craft cable kit.                                                                                                                                                                                     | 24 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 3118 per fixture<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                           | <i>Location: Locker Rooms</i>                   | <b>LPA-1</b><br> | Mercury Lighting<br>MLS3-DI-VARIES-500-825-35K-ASO-BW-1%-2C-XXX-TBD-TBD<br><br>Or Equal by Dayolite PRFL-24-DI-FL Series<br>Finelite HP-2-P-ID series     | 3" Wide by 4 1/8" Tall suspended linear lensed direct/ indirect fixture. Extruded aluminum housing and snap-in extruded acrylic lens. Batwing Indirect optics.                                                                                                                   | 10.8 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 500 Direct/825 Indirect per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                                | <i>Location: Design Classrooms</i>            | <b>LPM-2</b><br> | Mercury Lighting<br>MLS3-DI-VARIES-625-625-935K-ASO-BW-1%-2C-XXX-TBD-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.                                                              | 3" Wide by 4 1/8" Tall suspended linear lensed direct/indirect fixture.                                                                                                        | 10.3 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1250 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                      | <i>Location: Restaurant Cosmetology area</i>                            |
| <b>GSA</b><br>   | Focal Point<br>FSDEP-2-FL-3000DN-SG-35K-1c-XXX-L11-SM-TBD-TBD<br><br>Or Equal by Prudential P3900 series<br>A-Light ATL2 series                                       | 2" Diameter x 3"High Surface-mounted disc fixture with upright glow. Extruded aluminum housing. One-piece ABS Plastic top cover. Regressed lens of 0.118" acrylic.                                                                                                                    | 26 Watts<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 3000 delivered per fixture<br>Dim: 0-10V<br>Mount: Surface<br>Finish: Per Architect                         | <i>Location: Restrooms</i>                      | <b>LPA-2</b><br> | Mercury Lighting<br>MLS3-DI-VARIES-400-400-935K-ASO-BW-1%-2C-XXX-TBD-TBD<br><br>Or Equal by Dayolite PRFL-24-DI-FL Series<br>Finelite HP-2-P-ID series    | 3" Wide by 4 1/8" Tall suspended linear lensed direct/indirect fixture. Extruded aluminum housing and snap-in extruded acrylic lens. Batwing Indirect optics.                                                                                                                    | 6.5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90+<br>Lumens: 400 Direct/400 Indirect per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                                 | <i>Location: Facial &amp; Resting</i>         | <b>LSA</b><br>   | Day-Brite<br>LINC5100E-Varies-935-XXX-TBD-DIM-RSx<br><br>Provide with: -Connectors and jumpers as needed<br>-OSC Occ sensor as needed<br><br>Or Equal per performance specifications in lamp/details section and description. | 1" High x 4" Wide linkable undercabinet fixture with integral switch, and available occ sensor.                                                                                | 6 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 270 per foot<br>Dim: 0-10V<br>Mount: Surface<br>Finish: Per Architect                          | <i>Location: Classrooms Throughout</i>                                  |
| <b>GSB</b><br>   | Luminis Lighting<br>SN1100C-L1L13-K30-XXX-BKT-<br><br>Or Equal per performance specifications in lamp/details section and description.                                | 11" Diameter x 2.75" Depth surface mounted LED downlight fixture with sealed and gasketed patterned tempered glass lens.                                                                                                                                                              | 14 Watts<br>Volts: Per EE<br>Color Temp: 3000K<br>CRI: 80+<br>Lumens: 1288 delivered per fixture<br>Dim: 0-10V<br>Mount: Surface<br>Finish: Per Architect<br>Rating: IP65/K10     | <i>Location: Entrances</i>                      | <b>LPB</b><br>   | Mercury Lighting<br>MLS2-M-VARIES-NA-825-35K-NA-BW-1%-1C-XXX-TBD-TBD-TBD<br><br>Or Equal by Dayolite PRFL-24-I-FL Series<br>Finelite HP-2-P-I series      | 4-1/8" Tall by 1-7/8" Wide pendant mounted direct indirect fixture. Provide with indirect lighting modules only. Provide with housing cap in place of direct lighting modules and lensing. Extruded aluminum housing and snap-in extruded acrylic lens. Batwing Indirect optics. | 7.75 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Lumens: 825 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                                                     | <i>Location: Computer Lab</i>                 | <b>LSB</b><br>   | focal Point<br>FCOLT-HF-500-35K-1-XXX-LD1<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                             | 2" High x 4" wide linear cove fixture with asymmetric distribution, and quick connects for mounting in coves.                                                                  | 5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 500 per foot<br>Dim: 0-10V to 10%<br>Mount: Cove<br>Finish: Standard                           | <i>Location: Level 4 Corridor</i>                                       |
| <b>GSC</b><br>   | Mercury Lighting<br>MLS2-M1-VARIES-400-35K-ASO-1%-XXX-TBD-TBD-TBD-TBD-WL<br><br>Or Equal per performance specifications in lamp/details section and description.      | 3-1/2" Tall by 1-5/8" wide aperture surface-mount wet location rated linear LED direct distribution fixture.                                                                                                                                                                          | 3.9 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 400 per foot<br>Dim: 0-10V to 10%<br>Mount: Surface<br>Finish: Per Architect<br>Rating: Wet Rated     | <i>Location: Outdoor Overhangs</i>              | <b>LPC</b><br>   | Mercury Lighting<br>MLS3-DI-VARIES-825-625-35K-ASO-BW-1%-2C-XXX-TBD-TBD<br><br>Or Equal by Dayolite PRFL-24-DI-FL Series<br>Finelite HP-2-P-ID series     | 3" Wide by 4 1/8" Tall suspended linear lensed direct/indirect fixture. Extruded aluminum housing and snap-in extruded acrylic lens. Batwing Indirect optics.                                                                                                                    | 12.15 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 825 Direct/625 Indirect per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                               | <i>Location: SCI Labs and Tech Classrooms</i> | <b>LSG-1</b><br> | Lithonia Lighting<br>FEM-L48-3000LM-LPAFL-MD-35K-90CRI<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                | 6.8" W x 4.2" H x 4" low profile linear fixture-1                                                                                                                              | 18 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90<br>Lumens: 2902 per fixture<br>Dim: 0-10V<br>Mount: Surface<br>Finish: Per Architect                   | <i>Location: Closets</i>                                                |
| <b>GSD</b><br>   | Gotham Lighting<br>IC025C-35-10-TBD-LSS-40D-XXX-UGZ-SGBCC-TBD-TBD                                                                                                     | 2" Aperture surface mounted round cylinder linear LED downlight fixture with direct conduit surface gear box mounting.                                                                                                                                                                | 12 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Beam Spread: 40°<br>Dim: 0-10V<br>Mount: Surface<br>Finish: Per Architect<br>Connection: J-Box              | <i>Location: Stair well</i>                     | <b>LPD</b><br>   | Mercury Lighting<br>MLS2-M-VARIES-400-35K-ASO-1%-XXX-TBD-TBD-TBD-TBD<br><br>Or Equal by Dayolite PRFL-24-D-FL Series<br>Finelite HP-2-P-D series          | 3-1/2" Tall by 1-7/8" Wide pendant mounted direct linear fixture. Extruded aluminum housing and snap-in extruded acrylic lens.                                                                                                                                                   | 5.8 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 400 per foot<br>Dim: 0-10V to 10%<br>Mount: Pendant<br>Finish: Per Architect                                              | <i>Location: Corridors &amp; Bank</i>         | <b>LSG-2</b><br> | Lithonia Lighting<br>FEM-L96-9000LM-LPAFL-WD-35K-80CRI<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                | 6.8" W x 4.2" H x 8" low profile linear fixture                                                                                                                                | 53.4 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 9000 per fixture<br>Dim: 0-10V<br>Mount: Surface<br>Finish: Per Architect                | <i>Location: Mezzanine Mech Areas</i>                                   |
| <b>GSE</b><br>   | A Light<br>ABS-MX-LS-35-U-H-R-P-D<br><br>Or Equal per performance specifications in lamp/details section and description.                                             | 2" Tall by 8" Wide Wall mounted indirect fixture.                                                                                                                                                                                                                                     | 5 W per foot<br>Volts: 120-277V<br>Color Temp: 3500K<br>CRI: 80+<br>Beam Spread: Indirect<br>Lumens: 486.5 per foot<br>Dim: 0-10V<br>Mount: Wall Mount                            | <i>Location: Throughout</i>                     | <b>LPE</b><br>   | Mercury Lighting<br>MLS2-DI-VARIES-400-825-35K-ASO-BW-1%-2C-XXX-TBD-TBD-TBD<br><br>Or Equal by Dayolite PRFL-24-DI-FL Series<br>Finelite HP-2-P-ID series | 4-1/8" Tall by 1-7/8" Wide pendant mounted direct indirect fixture. Extruded aluminum housing and snap-in extruded acrylic lens. Batwing Indirect optics.                                                                                                                        | 10.7 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Lumens: 1225 per foot<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                                                    | <i>Location: Computer Lab</i>                 | <b>LSH</b><br>   | Lithonia Lighting<br>RLNK-VARIES-120-35K-80CRI-M4<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                     | Task lighting: 1.82" High x 1.58" wide linkable LED strip light with steel body, acrylic lens.                                                                                 | 5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 470 per foot<br>Dim: 0-10V<br>Mount: TBD<br>Finish: Per Architect                              | <i>Location: Task lighting booths</i>                                   |

DRA

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SUBMISSION

January 13, 2023

PROJECT NORTH

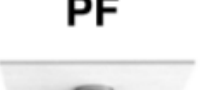
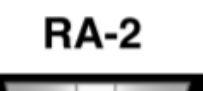
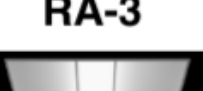
MAGNETIC NORTH

LUMINAIRE  
SCHEDULE

Scale:  
Job No.: 20202  
Drawn By: DRA  
Date: January 13, 2023

E4-0-18



| Type                                                                                                           | Manufacturer                                                                    | Description                                                                                                                                                                    | Lamp/Details                                                                                                                                                                                 | Scope/Notes/Location               | Type                                                                                                            | Manufacturer                                                                                 | Description                                                                                                                                                        | Lamp/Details                                                                                                                                                                                  | Scope/Notes/Location                       | Type                                                                                                              | Manufacturer                                                                                     | Description                                                                                                                                                                | Lamp/Details                                                                                                                                                                       | Scope/Notes/Location           |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <div>LSJ</div> <div></div>    | Peerless<br>RNNAWID-LCB-8FT-MSL-80CRI-35K-150LMF-300LMF-SSH-XXX-XXX-XXX-XXX-XXX | 1 1/2" Tall by 4 1/2" wide wall-mounted linear direct/indirect fixture.                                                                                                        | 5.5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Beam Spread: Direct/ Indirect<br>Lumens: 494 per foot<br>Dim: 0-10V<br>Mount: Wall Mount<br>Finish: Per Architect        | Location: Staircase                | <div>RC-2</div> <div></div>   | Focal Point<br>FLC220-SDO-SW-900L-XXX-LD1-LC22-SDO-900L-935K-DNS-WFL1-TBD                    | 2.5" by 2.5" Recessed downlight fixture                                                                                                                            | 9.3 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 900 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                      | Location: Cosmetology area                 | <div>RP</div> <div></div>      | Gotham Lighting<br>EVO4WW-35/20-AR-LSS-XXX-GZ1-TRW                                               | 4" Diameter recessed wall wash fixture.                                                                                                                                    | 19.7 W per fixture<br>Volts: 120-277V<br>Color Temp: 3500K<br>Beam Spread: Wall-Wash<br>Lumens: 1881 delivered per fixture<br>Dim: 0-10V to 1%<br>Mount: Recessed<br>Finish: White | Location: Level 3 Corridor     |
| <div>LSL</div> <div></div>    | Mercury Lighting<br>ML32-M1-VARIES-400-35K-ASO-1%-XXX-TBD-TBD-TBD-TBD           | 3-1/2" Tall by 1-5/8" wide aperture surface-mount linear LED direct distribution fixture.                                                                                      | 3.9 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 400 per foot<br>Dim: 0-10V to 10%<br>Mount: Surface<br>Finish: Black                                             | Location: Corridors                | <div>RDA</div> <div></div>    | Kenall Lighting<br>CSE10-24-45LD-35K8-DIM1-DV-TBD-2H-SYM-FN                                  | 9.8" Tall by 24" Wide by 48" long recessed food safe high-bay fixture                                                                                              | 45 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: Wide<br>Lumens: 6771 delivered per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect        | Location: Culinary Arts Area               | <div>RQ</div> <div></div>      | Focal Point<br>FLC3D-RT-SW-1500L-[VOLTAGE?]-[DRIVER?]-TW-LC3-RT-SW-1500L-35K-WFL-CD-LC3-WOOD-KIT | 4" Diameter recessed LED round downlight fixture with semi-specular clear reflector and flangeless wood ceiling installation kit.                                          | 17 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1500 delivered per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                 | Location: Cafeteria Lobby Area |
| <div>PB</div> <div></div>     | Meteor<br>WS2-170-358-XXX-60-TBD-AD10-WG                                        | 16.24" Diameter by 4.44" tall pendant mounted LED round fixture with 60 degree optics and wire guard accessory.                                                                | 170 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 85<br>Beam Spread: 60°<br>Lumens: 19450 per fixture<br>Dim: 0-10V to 10%<br>Mount: Pendant<br>Finish: Per Architect          | Location: Gymnasium                | <div>RDB</div> <div></div>    | Kenall Lighting<br>CSE10-24-45LD-35K8-DIM1-DV-TBD-2H-SYM-FN                                  | 9.8" Tall by 24" Wide by 24" long recessed food safe high-bay fixture                                                                                              | 45 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: Wide<br>Lumens: 6771 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                  | Location: Theory Classroom                 | <div>RLA-1</div> <div></div>   | Mercury Lighting<br>MLW2-G-VARIES-450-935K-1%-XXX-TBD                                            | 3-9/16" Tall by 2 3/8" Wide Recessed lensed linear wallwash fixture with angled lens and kicker reflector mounted in grid ceiling.                                         | 5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90+<br>Lumens: 375 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                   | Location: Throughout           |
| <div>PD</div> <div></div>     | Gotham Lighting<br>IC04CC-35/30-BR-LD-40D-XXX-EDXB-SGB-CCAN45-C120-DBL          | 4" Diameter pendant mounted cylinder.                                                                                                                                          | 34.12 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: 40°<br>Lumens: 2610 delivered per fixture<br>Dim: 0-10V to <1%<br>Mount: Pendant<br>Finish: Matte Black | Location: Multi Purpose Room       | <div>RE</div> <div></div>     | Gotham Lighting<br>EVC04-35/35-AR-WD-LSS-XXX-GZ1-TRW                                         | 4" Diameter recessed downlight with semi-specular lens.                                                                                                            | 38.4 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Beam Spread: Wide Flood<br>Lumens: 3612 delivered per fixture<br>Dim: 0-10V to 1%<br>Mount: Recessed<br>Finish: White | Location: Media Center                     | <div>RLA-2</div> <div></div>   | Mercury Lighting<br>MLW2-F-VARIES-450-935K-1%-XXX-TBD                                            | 3-9/16" Tall by 2 3/8" Wide Recessed lensed linear wallwash fixture with angled lens and kicker reflector mounted in hard lid ceiling.                                     | 5 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90+<br>Lumens: 375 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                   | Location: Throughout           |
| <div>PD-1</div> <div></div>   | Gotham Lighting<br>IC04CC-35/25-BR-LD-45D-XXX-EDXB-SGB-CCAN45-C120-DBL          | 4" Diameter pendant mounted cylinder.                                                                                                                                          | 26.5 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: 45°<br>Lumens: 2419 delivered per fixture<br>Dim: 0-10V to <1%<br>Mount: Pendant<br>Finish: Matte Black  | Location: Upper Multipurpose Room  | <div>RF</div> <div></div>     | Focal Point<br>FLC2W-RDO-500L-XXX-LD1 (Housing)<br>LC2-RDO-500L-835K-WW-TBD-TBD (Trim)       | 2.5" aperture recessed LED lensed wallwash with angled lens, semi-specular reflector cone, painted trim flange.                                                    | 11.7 Watts<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 500 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: White                                                     | Location: Restrooms                        | <div>RLB-1</div> <div></div>   | Mercury Lighting<br>MLP9-G-3-VARIES-400-35-ASO-1%-XXX-TEL                                        | 6 7/8" Tall by 3.25" Wide Indirect wall-wash perimeter cove system mounted in ACT ceiling.                                                                                 | 4.3 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 400 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Matte White                                   | Location: Restaurant           |
| <div>PF</div> <div></div>     | Gotham Lighting<br>IC04CC-35/15-AR-LSS-35D-MVOLT-GZ1-XXX-CCAN-C120-X-X-DBL      | 4" Diameter pendant mounted cylinder with additional field changeable optics.<br><br>Provide with:<br>- OPTC4-25D (25° additional optic)<br>- OPTC4-45D (45° additional optic) | 15.1 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: 35°<br>Lumens: 1545 delivered per fixture<br>Dim: 0-10V to <1%<br>Mount: Pendant<br>Finish: Matte Black  | Location: Media Center             | <div>RH</div> <div></div>     | Lithonia Lighting<br>VTL4-40L-ADP-XXX-GZ10-LP835                                             | 2'x4' Recessed troffer with center lensed section and ribbed curved metallic side reflectors.                                                                      | 35.6 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 4000 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect<br>Rating: Damp Rated              | Location: Level 1 Area D Lockers           | <div>RLB-2</div> <div></div>   | Mercury Lighting<br>MLP9-F-3-VARIES-400-35-ASO-1%-XXX-TEL                                        | 6 7/8" Tall by 3.25" Wide with 3.25" wide aperture Indirect wall-wash perimeter cove system mounted in hardlid ceiling.                                                    | 4.3 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 400 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Matte White                                   | Location: Restaurant           |
| <div>PF-1</div> <div></div> | Gotham Lighting<br>IC04CC-35/25-AR-LSS-15D-MVOLT-GZ1-XXX-CCAN-C120-X-X-DBL      | 4" Diameter pendant mounted cylinder with additional field changeable optics.<br><br>Provide with:<br>- OPTC4-20D (20° additional optic)<br>- OPTC4-25D (25° additional optic) | 26.5 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Beam Spread: 15°<br>Lumens: 2419 delivered per fixture<br>Dim: 0-10V to <1%<br>Mount: Pendant<br>Finish: Matte Black  | Location: Media Center             | <div>RJ</div> <div></div>   | Gotham Lighting<br>EVO6SQSH-35/07-DFL-SOL-XX-XX                                              | 6" Square recessed LED shower-grade downlight with flush, textured lens.                                                                                           | 8.2 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 85<br>Lumens: 666 delivered per fixture<br>Dim: Per EE<br>Mount: Recessed<br>Finish: White<br>Rating: IP66                    | Location: Showers                          | <div>RLB-3</div> <div></div> | Mercury Lighting<br>MLP9-G-3-VARIES-400-935-ASO-1%-XXX-TEL                                       | 6 7/8" Tall by 3.25" Wide with 3.25" wide aperture Indirect wall-wash perimeter cove system mounted in ACT ceiling.                                                        | 4.3 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90+<br>Lumens: 400 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Matte White                                   | Location: Cosmetology area     |
| <div>RA-1</div> <div></div> | Focal Point<br>FEQ2-22-AC-2500LH-35K-1C-XXX-Lxx-Cxx-XXX                         | 2' x 2' recessed troffer with center panel and angled side luminous lens mounted in ACT ceiling.                                                                               | 23 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 2500 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                     | Location: Throughout               | <div>RK</div> <div></div>   | Focal Point<br>FLC22D-SDO-SW-900L-XXX-LD1-T-OD-LC22-SDO-900L-835K-DSS-WFL1-TBD-LC22-WOOD-KIT | 2.5" by 2.5" Wet-rated recessed trimless downlight fixture mounted in wood ceiling.                                                                                | 9.3 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 900 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                      | Location: Outdoor Overhangs                | <div>RLB-4</div> <div></div> | Mercury Lighting<br>MLP3-F-3-VARIES-400-935-ASO-1%-XXX-TEL                                       | 6 7/8" Tall by 3.25" Wide with 3.25" wide aperture Indirect wall-wash perimeter cove system mounted in hardlid ceiling.                                                    | 4.3 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90+<br>Lumens: 400 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Matte White                                   | Location: Cosmetology area     |
| <div>RA-2</div> <div></div> | Focal Point<br>FEQ2-22-AC-2500LH-35K-1C-XXX-Lxx-F-XXX                           | 2' x 2' recessed troffer with center panel and angled side luminous lens panels mounted in hardlid gyp ceiling.                                                                | 23 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 2500 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                     | Location: Throughout               | <div>RL-1</div> <div></div> | Focal Point<br>FEQ2-24-AC-4000LH-35K-1C-XXX-LXX-CXX-GX-XXX                                   | 2' x 4' recessed troffer with center panel and angled side luminous lens panels mounted in ACT ceiling.                                                            | 31 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 4000 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                      | Location: Throughout                       | <div>RLC</div> <div></div>   | Finelite<br>H04-RO-Varies-H-835-OPN-835-XXX-SC-SE-C                                              | 3" Aperture linear fixture with indirect reflector.                                                                                                                        | 6.7 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 776 per foot<br>Dim: 0-10V<br>Mount: Recessed                                                          | Location: Corridors            |
| <div>RA-3</div> <div></div> | Focal Point<br>FEQ2-22-AC-2500LH-935K-1C-XXX-Lxx-Cxx-XXX                        | 2' x 2' recessed troffer with center panel and angled side luminous lens panels mounted in ACT ceiling.                                                                        | 23 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 90+<br>Lumens: 2500 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                     | Location: Cosmetology area         | <div>RL-2</div> <div></div> | Focal Point<br>FEQ2-24-AC-6000LH-35K-1C-XXX-LXX-CXX-GX-XXX                                   | 2' x 4' recessed troffer with center panel and angled side luminous lens panels mounted in ACT ceiling.                                                            | 47 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 6000 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                      | Location: Science Lab Prep & Sterilization | <div>RLD-1</div> <div></div> | Mercury Lighting<br>MLS3-G-VARIES-625-35K-ASO-1%-XXX                                             | 3-3/4" Aperture recessed linear LED fixture mounted in grid ceiling.                                                                                                       | 7 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 625 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                   | Location: Throughout           |
| <div>RB-1</div> <div></div> | Lithonia Lighting<br>STAK-2X2-2000LM-80CRI-35K-COLT-MIN1-ZT-XXX-TBD-TBD-TBD-TBD | 2x2 Recessed troffer with center lensed section and angled metallic side reflectors.                                                                                           | 16.8 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 2000 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                   | Location: Shop Classroom & Storage | <div>RM</div> <div></div>   | Gotham Lighting<br>IC04-35/35-AR-SS-15D-XXX-GZ1-TRW                                          | 4" Diameter recessed downlight with additional changeable optics.<br><br>Provide with:<br>- OPTC4-20D (20° additional optic)<br>- OPTC4-25D (25° additional optic) | 33.8 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>Beam Spread: 15°<br>Lumens: 3548 delivered per fixture<br>Dim: 0-10V to 1%<br>Mount: Recessed<br>Finish: White                    | Location: Media Center                     | <div>RLD-2</div> <div></div> | Mercury Lighting<br>MLS3-F-VARIES-625-35K-ASO-1%-XXX                                             | 3-3/4" Aperture recessed linear LED fixture mounted in hardlid ceiling.                                                                                                    | 7 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 625 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                   | Location: Throughout           |
| <div>RB-2</div> <div></div> | Lithonia Lighting<br>STAK-2X4-4000LM-80CRI-35K-COLT-MIN1-ZT-XXX-TBD-TBD-TBD-TBD | 2x4 Recessed troffer with center lensed section and angled metallic side reflectors.                                                                                           | 33.2 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 4000 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                   | Location: Shop Classroom & Storage | <div>RN-1</div> <div></div> | Gotham Lighting<br>EVO4-35/10-AR-FL-WD-LSS-XXX-TBD-TBD                                       | 4" Diameter recessed LED round downlight fixture with semi-specular clear reflector and painted trim.                                                              | 8.8 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1000 delivered per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                           | Location: Level 1 Corridor                 | <div>RLD-3</div> <div></div> | Mercury Lighting<br>MLS3-G-VARIES (RECTANGLE WITH FOUR LIT 90° CORNERS)-400-35K-ASO-1%-XXX       | 3-3/4" Aperture recessed linear LED fixture mounted in grid ceiling. Rectangular shape with four lit 90° corners.                                                          | 3.4 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 400 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                 | Location: Throughout           |
| <div>RC-1</div> <div></div> | Focal Point<br>FLC22D-SDO-SW-900L-XXX-LD1-LC22-SDO-900L-835K-DNS-WFL1-TBD       | 2.5" by 2.5" Square Recessed downlight fixture with die-cast aluminum trim with flange and regressed solite lens. Trim has 60° Cutoff.                                         | 9.3 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 900 per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                                     | Location: Throughout               | <div>RN-2</div> <div></div> | Gotham Lighting<br>EVO4-35/15-AR-FL-MWD-LSS-XXX-TBD-TBD                                      | 4" Diameter recessed LED round downlight fixture with semi-specular clear reflector and painted trim.                                                              | 13.7 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 1500 delivered per fixture<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Per Architect                          | Location: Level 1 Lobby                    | <div>RLF</div> <div></div>   | Lumenpulse<br>LOI-ASHRAE-XXX-VARIES-30K-WW-TBD-INTL-TBD-ASL                                      | 2-5/16" wide aperture walk-over rated linear in-ground fixture with 5-9/16" Deep x 8-1/2" Wide housing and grazing or wallwash optics. Anti-slip lens and internal louver. | 5 W per foot<br>Volts: Per EE<br>Color Temp: 3000K<br>CRI: 80+<br>Dim: 0-10V<br>Mount: Recessed In Ground<br>Finish: Per Architect<br>Rating: IP68/K10                             | Location: Front Signage Wall   |

DRA

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SUBMISSION

January 13, 2023

PROJECT NORTH

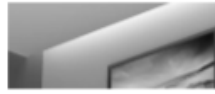
MAGNETIC NORTH

LUMINAIRE  
SCHEDULE

Scale:  
Job No.: 2002  
Drawn By: DRA  
Date: January 13, 2023

E4-0-19



| Type                                                                                                          | Manufacturer                                                                                                                                                                                                                                     | Description                                                                                                               | Lamp/Details                                                                                                                                                                                 | Scope/Notes/Location       |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <div>RLG-1</div> <div></div> | Mercury Lighting<br>MLP3-G-3-VARIES-400-35-ASO-1%-XXX-TEL<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                                | 6 7/8" Tall by 3.25" Wide with 3.25" wide aperture Indirect wall-wash perimeter cove system mounted in ACT ceiling.       | 4.3 W per foot<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 400 per foot<br>Dim: 0-10V<br>Mount: Recessed<br>Finish: Matte White                                             | <i>Location: Corridors</i> |
| <div>RLH</div> <div></div>   | Elliptipar<br>S-215-M112-T-02-M-TBD-0-835-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                                            | 3'-0" Semi-recessed linear LED wallwash fixture.                                                                          | 63 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80<br>Lumens: 6651 per fixture<br>Dim: Per EE<br>Mount: Semi-recessed<br>Finish: Semigloss White                              |                            |
| <div>SA</div> <div></div>    | Erco<br>Tesis-Size 4-3000K-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                                                           | 8" Diameter 6-5/8" Deep ingrade uplight fixture with wallwash or grazing optics.                                          | 16 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Lumens: 2200 per fixture<br>Dim: 0-10V                                                                                 | <i>Location: Exterior</i>  |
| <div>SWA</div> <div></div>   | Luminis Lighting<br>L1L15-R30-XXX-BKT-K3-SL<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                                              | 6" x 12" Wall mount exterior rated architectural wall sconce with down light including integral LED lamp and solite lens. | 15 W per fixture<br>Volts: Per EE<br>Color Temp: 3000K<br>CRI: 80<br>Beam Spread: 30°<br>Lumens: 1599 per fixture<br>Dim: Yes<br>Mount: Wall Mount<br>Finish: Black                          | <i>Location: Exterior</i>  |
| <div>T1</div> <div></div>    | Juno Lighting<br>T-Varies-TBD<br><br>Or Equal per performance specifications in lamp/details section and description.                                                                                                                            | 11/16" Tall by 1 3/8" Wide Pendant Mounted Track with indirect component.                                                 | 0 W per foot<br>Volts: Per EE<br>Dim: 0-10V<br>Mount: Pendant<br>Finish: Per Architect                                                                                                       | <i>Location: Photo</i>     |
| <div>TA</div> <div></div>    | Juno Lighting<br>R601L-30K-80CRI-PDIM-NFL-TBD-AHR610 ____ (fixture)<br><br>Provide with:<br>SOLITE 275 (uniformity lens)<br>TR11 FLD (reflector - flood)<br><br>Or Equal per performance specifications in lamp/details section and description. | 3 1/2" Diameter Track mounted spot fixture.                                                                               | 21 W per fixture<br>Volts: Per EE<br>Color Temp: 3500K<br>CRI: 80+<br>Beam Spread: Narrow Flood<br>Lumens: 2341 delivered per fixture<br>Dim: 0-10V<br>Mount: Track<br>Finish: Per Architect | <i>Location: Photo</i>     |

| LIGHTING FIXTURE SCHEDULE |                   |                       |      |                |                                                                            |
|---------------------------|-------------------|-----------------------|------|----------------|----------------------------------------------------------------------------|
| FIXTURE TYPE              | MANUFACTURER      | CATALOG NUMBER        | LAMP | BALLAST/DRIVER | REMARKS                                                                    |
| EC1                       | EMERGLITE         | LX-1A/R-C-1A-A        |      |                | EDGE-LIT EXIT SIGN - INDICATING CHEVRONS AND FACE SHADING AS SHOWN ON PLAN |
| F1                        | LITHONIA LIGHTING | FLMWL 48 840 ZT MVOLT |      |                | 4FT SURFACE-MOUNTED LINEAR LED                                             |

| Fixture Schedule |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Progress Design Development |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| General Notes    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |
| A                | Contractor shall supply and install a complete, fully functioning lighting system, including but not limited to: mounting hardware and accessories; appropriately sized transformers; power supplies; drivers; lamps; optical accessories; and electrical appurtenances.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |
| B                | Contractor shall be responsible for final fixture counts of all lighting fixtures and accessories, as well as linear fixture run lengths, as shown on Architect's drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |
| C                | Contractor shall be responsible for verifying mounting conditions with mounting locations to ensure compatibility. Contractor shall notify Owner and Architect of any conflicts with all trades prior to the ordering of the equipment. For fixtures where more than one manufacturer is specified, mounting requirements may vary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| D                | Contractor shall verify compliance of all lighting equipment specified in its intended application on this project with all applicable national and local codes, ordinances, regulations and jurisdictions prior to ordering any equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |
| E                | Contractor shall supply "Contractor net" unit pricing for each lighting product specified. Unit price shall be for equipment only and shall not include installation or other costs. The unit price supplied shall be guaranteed for the project and valid for additions and deletions of product throughout the duration of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |
| F                | All drawings represent visual concepts and suggestions only. Available Light is not qualified to determine structural or electrical suitability and will not assume liability for improper engineering, construction or handling of design concepts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |
| G                | The accompanying drawings and all the ideas, arrangements, designs, and plans indicated thereon or represented thereby are owned by and remain the property of Available Light and have been created and developed for use on and in connection with the specified project. Neither this drawing, nor any such ideas, arrangements, designs, or plans shall be appropriated by or disclosed to any person, firm, or corporation for any use or purpose whatsoever, except by the specific and written permission of Available Light.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |
| H                | Written dimensions on drawings shall have authority over scaled measurements. Contractor shall field verify all dimensions on the job and inform the Architect of any proposed variations from drawings prior to performing the work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |
| I                | Do not scale electrical drawings for exact location of the lighting fixtures. Refer to Architect reflected ceiling plans and other lighting layouts for proper locations of lighting fixtures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |
| J                | Contractor shall not substitute products unless approved in writing by Available Light and/or Architect. Lighting fixture, ballast, driver, power supply, lamp, and/or accessory substitutions shall be formally presented to Available Light no later than fourteen (14) working days prior to bid due date.<br><br>All proposed substitute fixtures must:<br><br>1) Be proven to meet or exceed the standards of quality, design, appearance, and performance as established by the lighting fixture specified by Available Light. See next note for list of items to be submitted for all substitutions.<br><br>2) Afford to the owner a significant economic benefit.<br><br>Contractor shall coordinate changes due to use of approved substitutes with all trades.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |
| K                | For a fixture type where a manufacturer is named as equal, the equal shall meet aesthetic criteria of the specified fixture, including but not limited to: dimensional criteria, finishes, including custom finishes; mounting details; and specified modifications.<br><br>Additionally, for a fixture type where a manufacturer is named as equal, the equal shall meet the minimum performance requirements as defined by specified product, including but not limited to: regulatory listings; output as measured in delivered lumens; center beam candle power (CBCP); baseline efficacies as measured in lumens delivered per watt; cut-off angle as measured from nadir; LED binning; color rendering (CRI); color temperature (CCT); Duv per Manufacturers supporting documentation; dimming and method; five (5) year minimum warranty including LED engine and driver; L70 lumen maintenance tested according to IES LM79; and specified modifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |
| L                | Contractor shall provide the following items to the Architect and Available Light for evaluation of proposed substitutions:<br><br>1) A current manufacturer's data sheet with luminaire catalog numbers.<br><br>2) A complete and working sample wired with cord and plug for 120V operation furnished upon request.<br><br>3) A complete photometric report for the proposed substitute fixture using the same lamp type, wattage, and distribution as per the specification. The photometric report should include TM-30 or CRI documentation with R 1-14 values, tabulated candlepower values, a coefficient of utilization table, and an ISO foot-candle diagram from an independent testing laboratory. The photometric report must reflect the fixture specified without modification to the file.<br><br>4) The specified product defines minimum performance requirements as defined by specified product including but not limited to: regulatory listings; output as measured in delivered lumens; center beam candle power (CBCP); baseline efficacies as measured in lumens delivered per watt; cut-off angle as measured from nadir; LED binning; color rendering (CRI); color temperature (CCT); Duv per Manufacturers supporting documentation; dimming and method; five (5) year minimum warranty including LED engine and driver; and L70 lumen maintenance tested according to IES LM79.<br><br>5) The Contractor shall submit a signed document stating that if the proposed substitution is accepted the project schedule will not be negatively affected. |                             |
| M                | Contractor shall provide the following items to the Architect and Available Light for evaluation of specified fixtures:<br><br>1) Manufacturer's product data sheets for each luminaire indicating luminaire type, dimensions, driver/ballast/power supply/transformer quantity and type, lamp quantity and type, photometric data (including lumen output, CRI & TM-30 data), materials, finishes, accessories, voltage, input wattage, CFM data, and photographic image of luminaire.<br><br>2) Manufacturer's data sheet for each driver/ballast/power supply/transformer including driver/ballast/power supply/transformer type, power factor, input voltage, input watts, and ballast factor.<br><br>3) Scaled and dimensioned detail plan and elevation drawings of custom and continuous row type luminaires including joints, mounting points and type, power connection locations(s), and emergency or separate switching configurations.<br><br>4) For custom luminaires, manufacturer shall perform and submit all engineering calculations as required to ensure the safe and proper installation and operation of the luminaire.<br><br>5) Dimming Power Supply Compatibility Certificates: Signed by driver/ballast/power supply manufacturer certifying that driver/ballast/power supply is compatible with dimming systems and equipment with which they are used.<br><br>6) For all submittals contractor shall submit within 2 weeks of award of bid. All submittals shall have project name and luminaire type clearly shown.                                |                             |
| N                | Electronic devices that generate radio frequency energy must not interfere with other electronic devices and must not be susceptible to interference from other devices. Equipment shall not be an Electromagnetic (EM) polluter or be effected by EM pollution. All relevant equipment shall comply with current EMC standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |
| O                | Unless otherwise specified all downlights (recessed, wallwasher, and adjustable) shall be supplied by the same manufacturer, and all linear fixtures (recessed, pendant, and surface mounted) shall be supplied by the same manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |
| P                | Unless otherwise specified, all retrofit LED lamps shall be manufactured by LEDvance (Osram-Sylvania), Philips, GE, Sora, or Green Creative. All lamps of a given type shall be supplied by the same manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |
| Q                | Unless otherwise specified, all LED drivers shall be manufactured by one of the following: Advance (Philips), LEDvance (Osram Sylavnia), Hatch, EldoLED, or Lutron.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| R                | All fixtures shall be supplied with specified lamp(s). Contractor shall provide an additional 10% replacement lamps (minimum two of each lamp type specified). For fixtures that use replaceable LED modules and drivers rather than lamps, Contractor shall provide an additional 5% (minimum one) of each driver and module type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| S                | Fixture construction and installation shall ensure no light leaks between ceiling trims of recessed lighting equipment and the ceiling plane. For applications in perforated or partially transparent ceilings, fixture construction shall also ensure no light leaks above the ceiling line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |
| T                | Reflectors, reflector cones, and visible trim of all lighting fixtures shall not be installed until completion of plastering, ceiling tile work, painting, and general cleanup. Reflectors, reflector cones, and visible trim shall be carefully handled to avoid scratching or fingerprinting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |
| U                | At the time of acceptance by the Owner, all lighting fixtures shall have been thoroughly cleaned with materials and methods recommended by the manufacturers, all broken parts shall have been replaced, and all lamps and/or LED modules shall be operative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |
| V                | The Owner shall perform regular maintenance on all luminaires in order to ensure expected performance. Fixtures may produce light past their rated life, however, lamps/ballasts/drivers/components must be replaced at or before rated end-of-life for the luminaire to meet minimum photometric performance standards. Neither the Architect nor Available Light shall be held responsible or liable for improper service and maintenance of lighting systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |
| W                | Budget pricing is the cost the Owner should be prepared to pay for a specific luminaire or system. Price includes lamp(s) but does not include freight, tax, or installation costs. Owner level fixture prices were received directly from the manufacturer's agent, or derived by adding a 15% distributor markup and a 15% contractor markup to a Distributor Net price received from the manufacturer's agent, unless otherwise noted. Details regarding the source of individual fixture budget prices are available upon request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |
| X                | Contractor shall supply all low-voltage control data lines and wiring in order to properly network and dim fixtures together per control intent documentation and manufacturer's documentation. Data runs must be properly terminated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |
| Y                | Due to rapid advances in LED technology, Available Light reserves the right to change lamp or LED module specifications at the time of submittal to another lamp or LED module of equal or lesser cost.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |
| 1                | Final finish of fixture shall be approved in writing by Architect.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |
| 2                | Mounting height shall be coordinated with Architect's elevations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |
| 3                | Fixture shall be aimed and focused by Contractor under the direction of Available Light.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |
| 4                | The Contractor shall provide all ladders and mechanical lifts (i.e scissors lifts, articulating boom arm lifts, etc.) for the exclusive use of the aim and focus effort. The number and type of lifts and/or ladders to be pre-approved by Available Light. Crew shall arrive at aim and focus equipped with appropriate aim and focus tools including wrenches, gloves, electrical testers, etc., as per industry standards for a theatrical lighting technician. All costs associated with aiming and focusing shall be included in the bid, including but not limited to travel expenses, parking, storage, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| 5                | Junction boxes and/or conduit that is used to wire fixtures and that is open to view shall be painted to match adjacent structure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |
| 6                | Fixture or track shall be mounted to structure in a manner recommended by the manufacturer without compromising the integrity of the structure. Contractor shall be responsible for all materials required to insure a safe and proper pendant installation. Contractor to coordinate changes in size of fixtures or track due to use of approved substitutes with all trades. Tracks shall be mounted to prevent twisting when fixtures are aimed and focused causing an asymmetrical load.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |
| 7                | Prior to the onsite arrival of Available Light, all luminaires shall be installed in the proper positions as indicated in the construction documents with all mechanical shutters pulled and beams of light directed straight down. Accessories (spread lenses, color filters, screens, gobos, top hats, snoots, etc.) shall be installed under the supervision of Available Light during the aim and focus period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| 8                | Remote transformers, power supplies, or drivers shall be located in nearby accessible, concealed-from-view location with manufacturer recommended ventilation available. As per manufacturer's recommendations, Contractor shall not exceed the maximum allowable distance between any luminaire and its associated remote control devices. Contractor shall supply manufacturer's transformer, power supply or driver of proper capacity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |
| 9                | "Local Control" means the controller or dimmer is mounted within the exhibit, rather than a central lighting controller.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |
| 10               | Prior to aim and focus, all DMX fixtures shall be properly addressed per Available Light's specification and tested using the specified control system (i.e. not a local test device).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |

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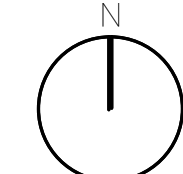
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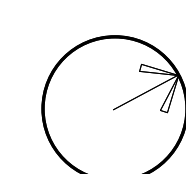
MSBA 60% CD  
SUBMISSION

January 13, 2023

PROJECT NORTH



MAGNETIC NORTH



LUMINAIRE  
SCHEDULE

Scale:

Job No.: 2002

Drawn By: DRA

Date: January 13, 2023

E4-0-20