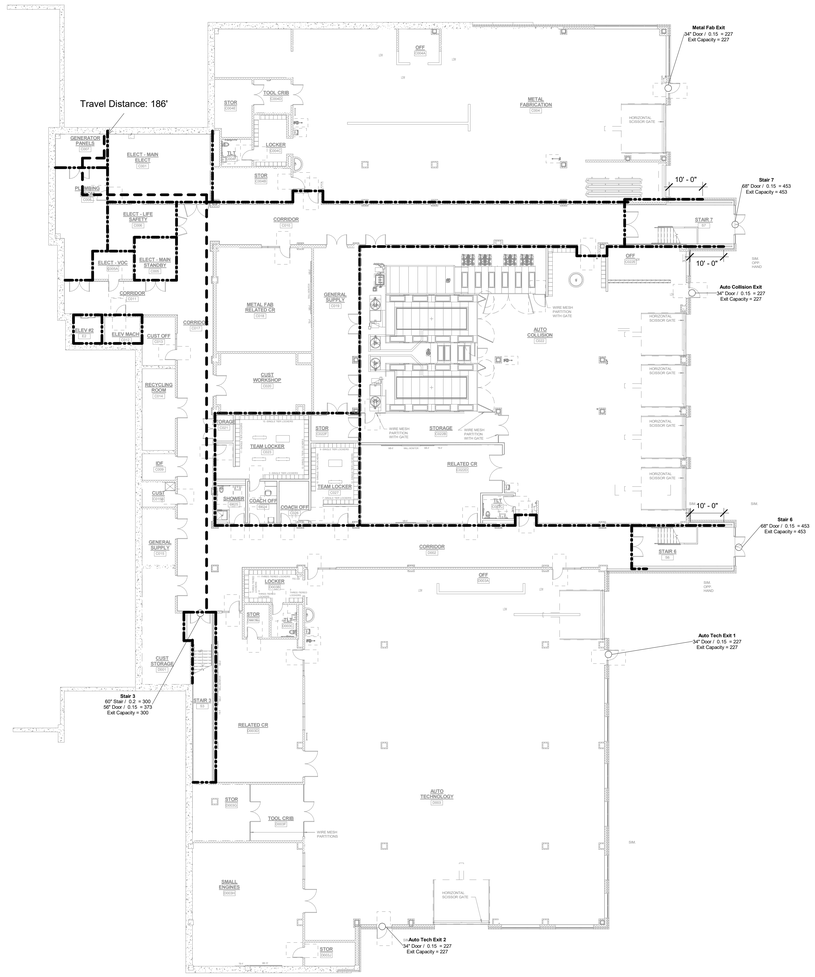

Occupant Load Lower Level			
Use	Floor Area	Floor Area Per Occupant (SF / OCC)	Occupant Load
Classroom	2904 SF	20	145.2
Lab / Vocational	23443 SF	50	468.9
Office	1266 SF	100	12.7
Storage / Mechanical	5821 SF	300	19.4
Weights	982 SF	50	19.6
	34416 SF		665.8

Exit Capacity Lower Level (780 CMR 1005.3)							
Exit	Stair Width	Stair Exit Allowance (in / person)	Stair Capacity (persons)	Door Width	Door Exit Allowance (in / person)	Door Capacity (persons)	Exit Capacity (persons)
Auto Collision Exit				34"	0.15	227	227
Auto Tech Exit 1				34"	0.15	227	227
Auto Tech Exit 2				34"	0.15	227	227
Metal Fab Exit				34"	0.15	227	227
Stair 3	60"	0.2	300	56"	0.15	373	300
Stair 6				68"	0.15	453	453
Stair 7				68"	0.15	453	453
							2113

LEGEND	
	2 HOUR WALL
	SPRINKLER PROTECTED GLAZING (ALT. DESIGN REQUEST)
	1 HOUR WALL
	TRAVEL DISTANCE

Note: Required smoke resistant walls are not shown for clarity but must be provided at Laboratories and Boiler Rooms as required by 780 CMR Table 508.2.5

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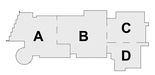
PROGRESS SET

4/28/2023



KEY PLAN

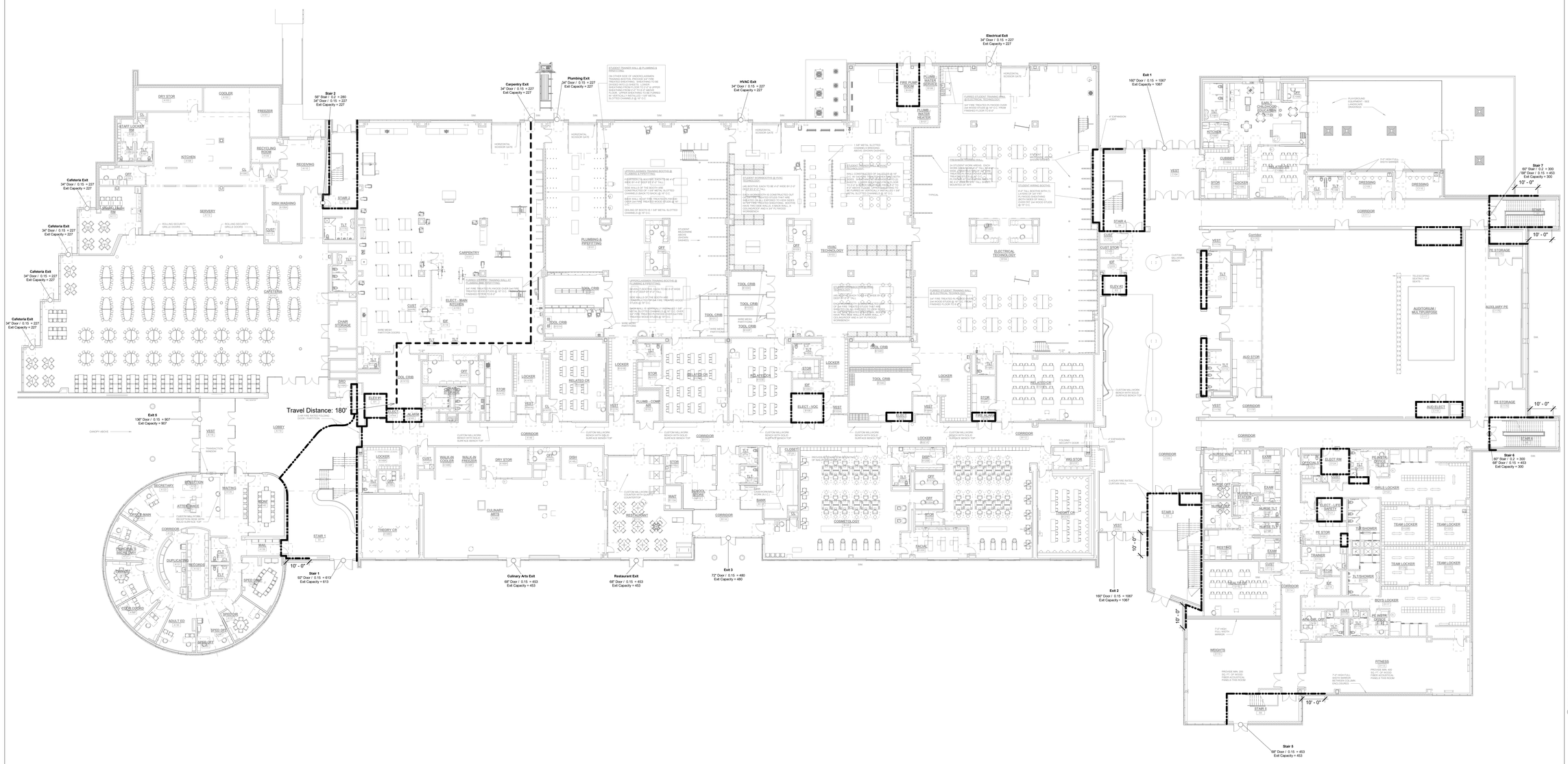
PROJECT NORTH

MAGNETIC NORTH

CODE ANALYSIS LOWER LEVEL

Scale: 1/16" = 1'-0"
Job No.: 20202
Drawn By: DEC
Date: 4/28/2023
Volume

CD1-1



Occupant Load First Floor			
Use	Floor Area	Floor Area Per Occupant (SF / OCC)	Occupant Load
Bank	521 SF	100	5.2
Cafeteria	7930 SF	15	528.7
Classroom	7017 SF	20	350.8
Conference	748 SF	15	49.9
Dressing	483 SF	15	32.2
Fitness	1542 SF	50	30.8
Kitchen	3012 SF	200	15.1
Lab / Vocational	44243 SF	50	884.9
Locker Room	6510 SF	50	130.2
Multipurpose Fixed Seating	3875 SF	7	585.0
Office	7002 SF	100	70.0
Performance / Practice	1370 SF	15	91.3
Playground	2213 SF	50	44.3
Restaurant	1417 SF	15	94.5
Staff Lunch	637 SF	15	42.4
Stage	638 SF	15	42.5
Storage / Mechanical	11091 SF	300	40.4
Store	344 SF	60	5.7
	100594 SF		3044.0

Exit Capacity First Floor (780 CMR 1005.3)							
Exit	Stair Width	Stair Exit Allowance (in / person)	Stair Capacity (persons)	Door Width	Door Exit Allowance (in / person)	Door Capacity (persons)	Exit Capacity (persons)
Cafeteria Exit				34"	0.15	227	227
Cafeteria Exit				34"	0.15	227	227
Cafeteria Exit				34"	0.15	227	227
Cafeteria Exit				34"	0.15	227	227
Carpentry Exit				34"	0.15	227	227
Culinary Arts Exit				68"	0.15	453	453
Electrical Exit				34"	0.15	227	227
Exit 1				160"	0.15	1067	1067
Exit 2				160"	0.15	1067	1067
Exit 3				72"	0.15	480	480
Exit 5				136"	0.15	907	907
HVAC Exit				34"	0.15	227	227
Plumbing Exit				34"	0.15	227	227
Restaurant Exit				68"	0.15	453	453
Stair 1				92"	0.15	613	613
Stair 2	56"	0.2	280	34"	0.15	227	227
Stair 5				68"	0.15	453	453
Stair 6	60"	0.2	300	68"	0.15	453	300
Stair 7	60"	0.2	300	68"	0.15	453	300
							8133

LEGEND	
	2 HOUR WALL
	SPRINKLER PROTECTED GLAZING (ALT. DESIGN REQUEST)
	1 HOUR WALL
	TRAVEL DISTANCE

Note: Required smoke resistant walls are not shown for clarity but must be provided at Laboratories and Boiler Rooms as required by 780 CMR Table 508.2.5

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PROGRESS SET

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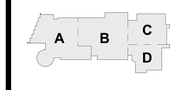


KEY PLAN

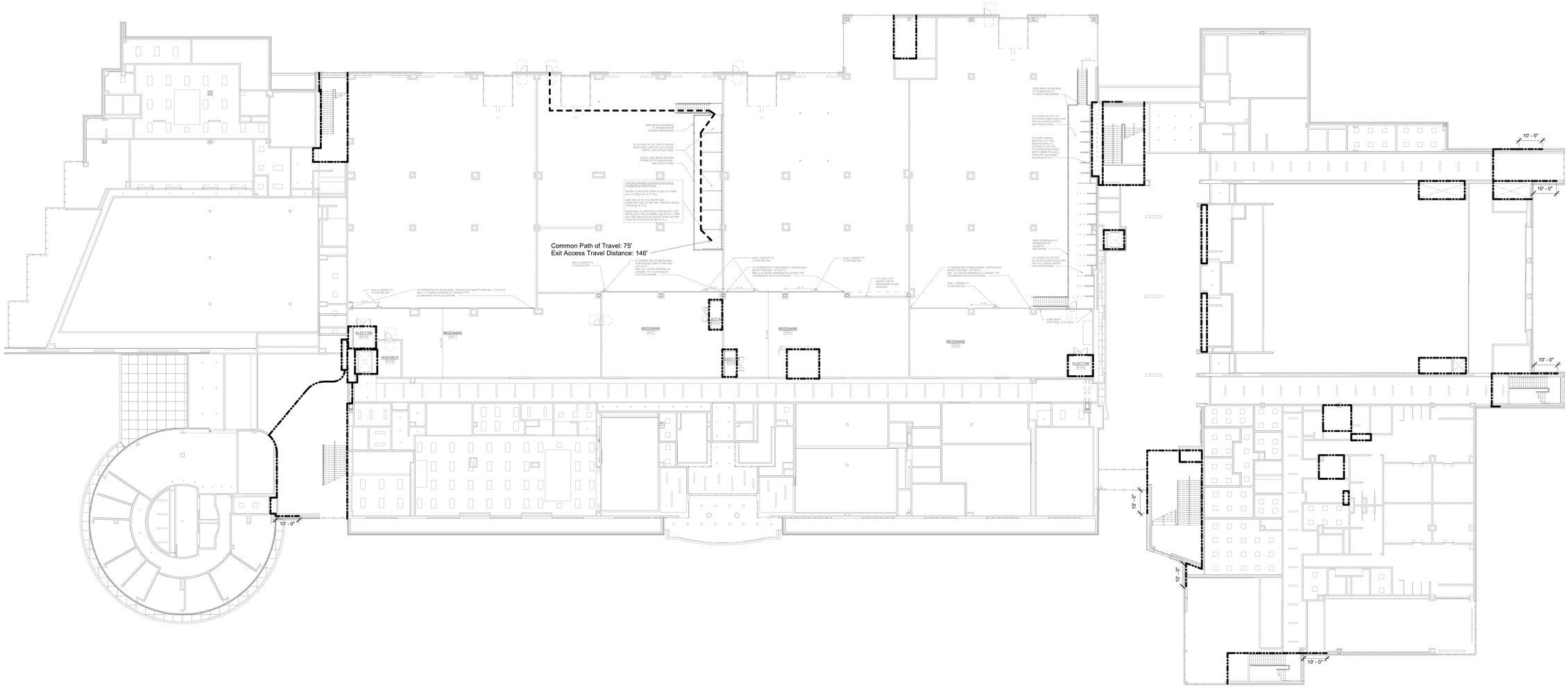
PROJECT NORTH

MAGNETIC NORTH

CODE ANALYSIS FIRST FLOOR

Scale: 1/16" = 1'-0"
Job No.: 20202
Drawn By: DEC
Date: 4/28/2023
Volume

CD1-2



LEGEND	
	2 HOUR WALL
	SPRINKLER PROTECTED GLAZING (ALT. DESIGN REQUEST)
	1 HOUR WALL
	TRAVEL DISTANCE

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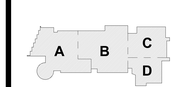
4/28/2023



KEY PLAN

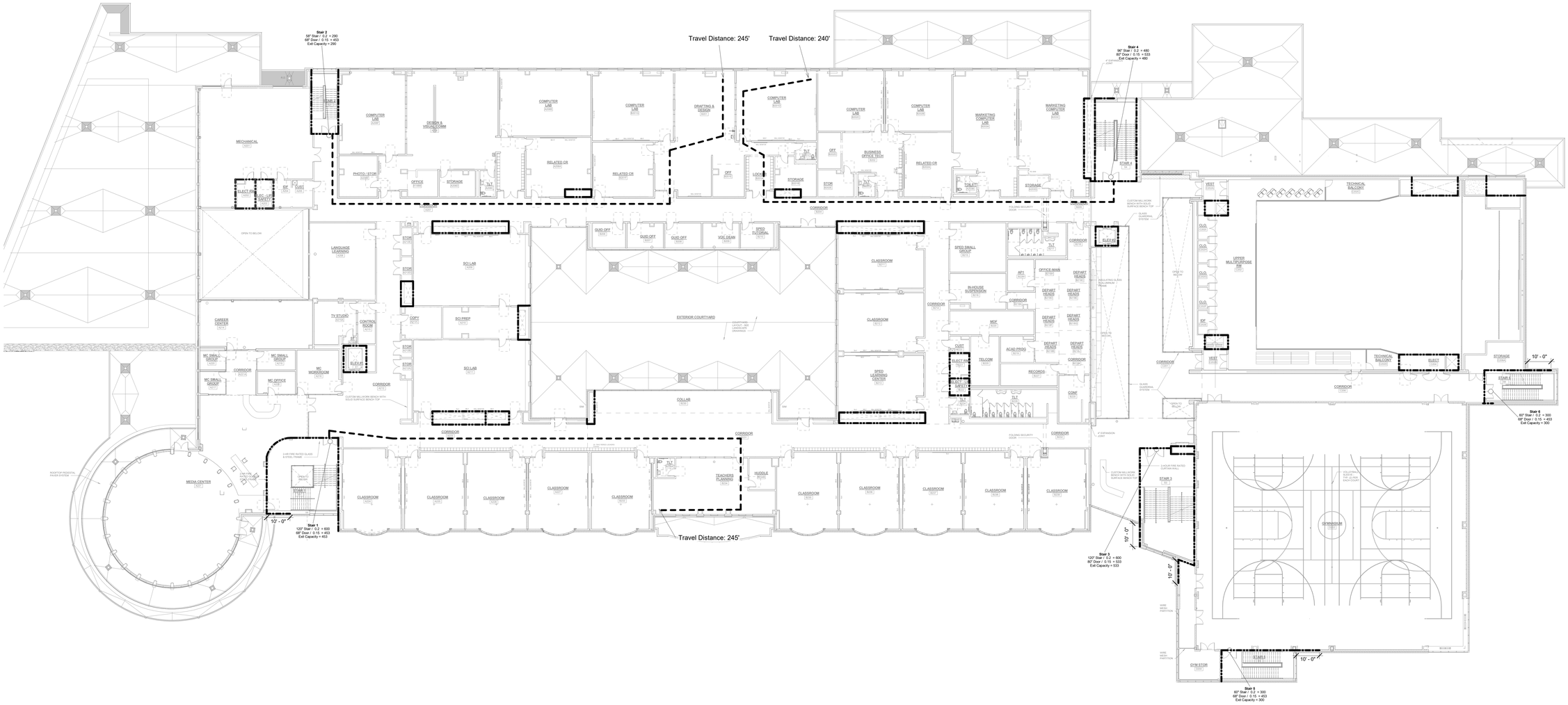
PROJECT NORTH

MAGNETIC NORTH

CODE ANALYSIS FIRST FLOOR MEZZ

Scale: 1/16" = 1'-0"
Job No.: 20202
Drawn By: DEC
Date: 4/28/2023
Volume

CD1-3



Occupant Load Second Floor			
Use	Floor Area	Floor Area Per Occupant (SF / OCC)	Occupant Load
Classroom	14691 SF	20	734.5
Collab	914 SF	20	45.7
Conference	264 SF	15	17.6
Courtyard (Requested Actual Posted)	8770 SF	179	49.0
Gym Seating	3240 SF		684.0
Gymnasium Floor	7020 SF	50	140.4
Lab / Vocational	16640 SF	50	332.8
Media Center	7882 SF	50	157.6
Multipurpose Seating	957 SF	7	136.7
Office	3277 SF	100	32.8
Prep	469 SF	100	4.7
Storage / Mechanical	6775 SF	300	22.6
Teacher Planning	1236 SF	100	12.4
	72135 SF		2370.8

Exit Capacity Second Floor (780 CMR 1005.3)							
Exit	Stair Width	Stair Exit Allowance (in / person)	Stair Capacity (persons)	Door Width	Door Exit Allowance (in / person)	Door Capacity (persons)	Exit Capacity (persons)
Stair 1	120"	0.2	600	68"	0.15	453	453
Stair 2	58"	0.2	290	68"	0.15	453	290
Stair 3	120"	0.2	600	80"	0.15	533	533
Stair 4	96"	0.2	480	80"	0.15	533	480
Stair 5	60"	0.2	300	68"	0.15	453	300
Stair 6	60"	0.2	300	68"	0.15	453	300
							2357

LEGEND	
	2 HOUR WALL
	SPRINKLER PROTECTED GLAZING (ALT. DESIGN REQUEST)
	1 HOUR WALL
	TRAVEL DISTANCE

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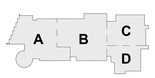
4/28/2023



KEY PLAN

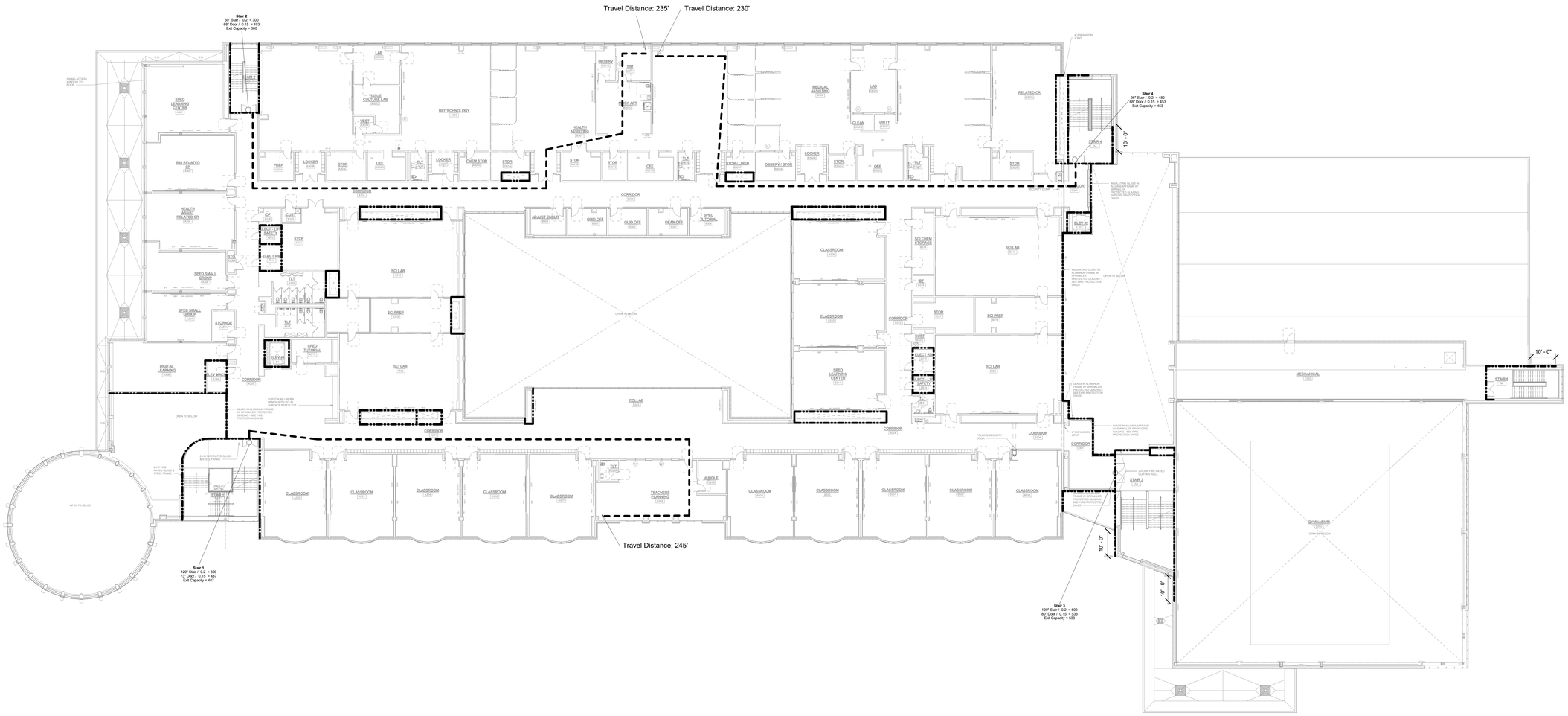
PROJECT NORTH

MAGNETIC NORTH

CODE ANALYSIS SECOND FLOOR

Scale: 1/16" = 1'-0"
Job No.: 20202
Drawn By: DEC
Date: 4/28/2023
Volume

CD1-4



Occupant Load Third Floor			
Use	Floor Area	Floor Area Per Occupant (SF / OCC)	Occupant Load
Classroom	15530 SF	20	776.5
Collab	916 SF	20	45.8
Lab / Vocational	20611 SF	50	412.2
Office	1704 SF	100	17.0
Prep	1409 SF	100	14.1
Storage / Mechanical	3238 SF	300	10.8
Teacher Planning	1259 SF	100	12.6
	44667 SF		1289.0

Exit Capacity Third Floor (780 CMR 1005.3)								
Exit	Stair Width	Stair Exit Allowance (in / person)	Stair Capacity (persons)	Door Width	Door Exit Allowance (in / person)	Door Capacity (persons)	Exit Capacity (persons)
Stair 1	120"	0.2	600	73"	0.15	487	487
Stair 2	60"	0.2	300	68"	0.15	453	300
Stair 3	120"	0.2	600	80"	0.15	533	533
Stair 4	96"	0.2	480	68"	0.15	453	453
							1773

LEGEND
2 HOUR WALL
SPRINKLER PROTECTED GLAZING (ALT. DESIGN REQUEST)
1 HOUR WALL
TRAVEL DISTANCE

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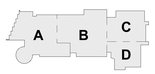


KEY PLAN

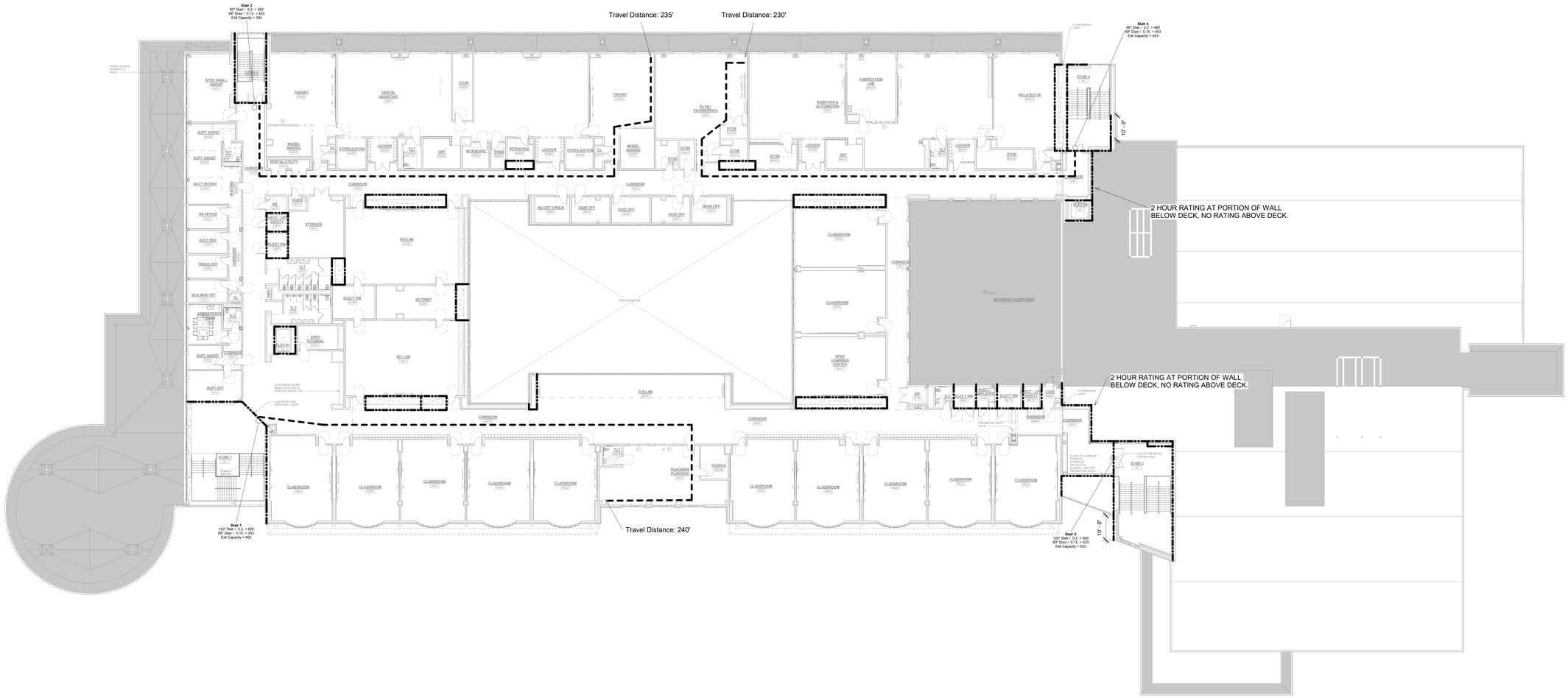
PROJECT NORTH

MAGNETIC NORTH

CODE ANALYSIS THIRD FLOOR

Scale: 1/16" = 1'-0"
Job No.: 20202
Drawn By: DEC
Date: 4/28/2023
Volume

CD1-5



Occupant Load Fourth Floor			
Use	Floor Area	Floor Area Per Occupant (SF / OCC)	Occupant Load
Classroom	14109 SF	20	705.5
Collab	917 SF	20	45.8
Conference	228 SF	15	15.2
Lab / Vocational	13029 SF	50	260.6
Office	3728 SF	100	37.3
Prep	449 SF	100	4.5
Storage / Mechanical	2882 SF	300	9.6
Teacher Planning	1253 SF	100	12.5
	36595 SF		1091.0

Exit Capacity Fourth Floor (780 CMR 1005.3)							
Exit	Stair Width	Stair Exit Allowance (in / person)	Stair Capacity (persons)	Door Width	Door Exit Allowance (in / person)	Door Capacity (persons)	Exit Capacity (persons)
Stair 1	120"	0.2	600	73"	0.15	487	487
Stair 2	60"	0.2	300	68"	0.15	453	300
Stair 3	120"	0.2	600	80"	0.15	533	533
Stair 4	96"	0.2	480	68"	0.15	453	453
							1773

LEGEND
2 HOUR WALL
SPRINKLER PROTECTED GLAZING (ALT. DESIGN REQUEST)
1 HOUR WALL
TRAVEL DISTANCE

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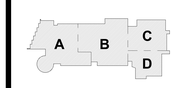

KEY PLAN

PROJECT NORTH

MAGNETIC NORTH

CODE ANALYSIS FOURTH FLOOR

Scale: 1/16" = 1'-0"
Job No.: 20202
Drawn By: DEC
Date: 4/28/2023
Volume

CD1-6