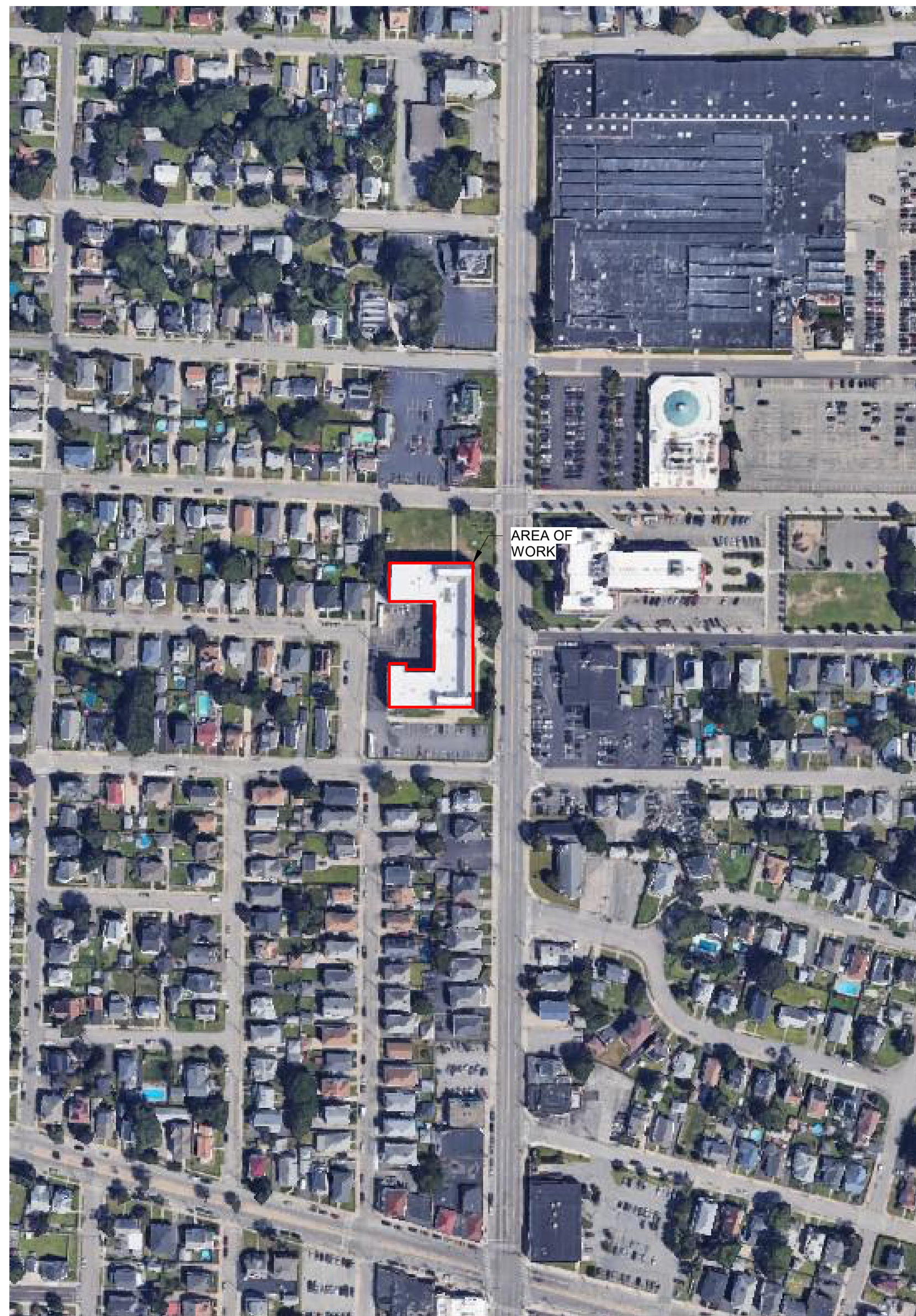


FIRECODE UPDATES TO THE LYMAN B. GOFF MIDDLE SCHOOL

974 NEWPORT AVE. PAWTUCKET, RI 02861



LOCUS MAP



ARCHITECT

**BREWSTER THORNTON
GROUP ARCHITECTS LLP**

317 IRON HORSE WAY
SUITE 202
PROVIDENCE, RI 02908
401 . 861 . 1600
BREWSTERTHORNTON.COM

CLIENT

**PAWTUCKET SCHOOL
DEPARTMENT**

286 MAIN STREET
PAWTUCKET, RI 02860
401 . 729 . 6300

MEP/FP/FA

**WOZNY/BARBAR &
ASSOCIATES, INC.**

161 EXCHANGE STREET
PAWTUCKET, RI 02860
781 . 826 . 4144

PROJECT NAME
GOFF MIDDLE SCHOOL

PROJECT ISSUE
BID SET
11/25/2024

PROJECT NUMBER
BTGA # 2144

COMMON ABBREVIATIONS

(USE OF PUNCTUATION IS OPTIONAL)

ABV	ABOVE	F.A.	FIRE ALARM	O.C.	ON CENTER
A/C	AIR CONDITION	F.A.R.	FLOOR AREA RATIO	O.H.	OPPOSITE HAND
ACC.	ACCESS(IBLE)	F.D.	FLOOR DRAIN	OPNG	OPENING
ACT	ACOUSTICAL CEILING TILE	FEC	FIRE EXTINGUISHER CABINET	OPP	OPPOSITE
ADA	AMERICANS WITH DISABILITY ACT	FF&E	FURNITURE, FIXTURE, AND EQUIPMENT	ORIG.	ORIGINAL
ADDL.	ADDITIONAL			OHD	OVERHEAD
ADJ.	ADJUSTABLE (OR) ADJACENT	FGL	FIBERGLASS		
A/E	ARCHITECT/ENGINEER	FIN.	FINISH	PERP	PERPENDICULAR
A.S.F.	ABOVE SUBFLOOR	FIN.CLG	FINISH CEILING	PL	PLATE
A.F.	ABOVE FLOOR	FIN.FLR	FINISH FLOOR	PNL	PANEL
A.F.F.	ABOVE FINISH FLOOR	FIN.SCH	FINISH SCHEDULE	PNT	PAINT
A.H.J.	AUTHORITY HAVING JURISDICTION	FIXT.	FIXTURE	PP	PEOPLE
AL./ALUM.	ALUMINUM	FLR.	FLOOR	PTD	PAINTED
ALT.	ALTERNATE	FLUOR.	FLUORESCENT	PR	PAIR
ANOD.	ANODIZED	FND.	FOUNDATION	PREP	PREPARATION
ARCH.	ARCHITECT(URAL)	F.O.	FACE OF	P.T.	PRESSURE TREATED
A.P.	ACCESS PANEL	F.P.	FIRE PROTECTION	PTN	PARTITION
APP.	APPROXIMATE	F.RATING	FIRE RATING	PWD	PLYWOOD
APPROX.	APPROXIMATE	FR	FIRE RETARDANT	P.V.	PLUMBING VENT
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	FT	FEET		
	AUTOMATIC AUXILIARY	FTG	FOOTING	R#	RADIUS
AUTO.				R	RISER
AUX.		GA	GAGE/GAUGE	R.B.	RESILIENT BASE
		GALV	GALVANIZED	RCP	REFLECTED CEILING PLAN
BAS	BUILDING AUTOMATION SYSTEM	GL	GLASS	R&D	REMOVE & DISPOSE
BD	BOARD	GLZ	GLAZING	R.D.	ROUGH DRAIN
BLDG	BUILDING	GWB	GYPSUM BOARD	RE-	REFER TO
BLW	BELOW			REF.	REFER
BSMT	BASEMENT	HC	HANDICAP	REQ.	REQUIRE(D)
BOTT.	BOTTOM	HDF	HIGH DENSITY FIBERBOARD	RES.	RESILIENT
B.O.F.	BOTTOM OF FOOTING	HM	HOLLOW METAL	REV.	REVISION
B.O.	BLOW OFF VENT	H.W.	HARDWARE	R.H.	RIGHT HAND
BLKG	BLOCKING	HRW	HARDWARE	RM	ROOM
BRK	BRICK	HOR.	HORIZONTAL	R.O.	ROUGH OPENING
BRZ	BRONZE	HR	HOUR		
BTWN	BETWEEN	HT	HEIGHT	SCHED.	SCHEDULE
				SD	SIDE
CAB.	CABINET	IN.	INCHES	SECT.	SECTION
C.F.M.F.	COLD-FORMED METAL FRAMING	INCL.	INCLUDE(D),(ING)	SF	SQUARE FEET
CG	COLUMN GRID	INFO.	INFORMATION	SF	SUB FLOOR
C.L.	CENTER LINE	INSUL.	INSULATION	S.GASKET	SMOKE GASKET
CLL	CONTRACT LIMIT LINE	INT.	INTERIOR	SGL	SAFETY GLASS
CLO	CLOSET			SHT	SHEET
CLG	CEILING	J.C.	JANITOR'S CLOSET	SHTH	SHEATHING
CLR	CLEAR(ANCE)	J-BOX	JUNCTION BOX	SIM.	SIMILAR
C.J.	CONTROL JOINT	JT	JOINT	SPEC.	SPEC. (-IFIED) (-IFICATION)
CMU	CONCRETE MASONRY UNIT			SRL	SUBMITTAL REVIEW LETTER
CO	CASED OPENING	K.B.	KNOX BOX	SG.	SQUARE
COL.	COLUMN			S.S.	STAINLESS STEEL
COMP.	COMPRESS(ED), (ION), (IBLE)	LAB.	LABORATORY	S.S.M.	SOLID SURFACE MATERIAL
CONC.	CONCRETE	LB	POUND(S)	STC	SOUND TRANSMISSION COEFFICIENT
CONST.	CONSTRUCTION	LCC	SEE Z.C.C.	STD	STANDARD
CONT.	CONTINUE(S), (OUS)	L.E.D.	LIGHT EMITTING DIODE	STOR.	STORAGE
COORD.	COORDINATE	LF	LIGHT FIXTURE	STL	STEEL
		L.H.	LEFT HAND	STRUCT.	STRUCTURAL
DBL	DOUBLE	LIB.	LIBRARY	SUSP.	SUSPEND(ED)
DEMO	DEMOLISH), (LITION)	LIN	LINOLEUM	SYS.	SYSTEM
DEG	DEGREES	LKR	LOCKER		
DET.	DETAIL	LVL	LAMINATED VENEER LUMBER	T	TREAD
DH	DOUBLE HUNG	LOC.	LOCATION	TEMP	TEMPORARY
DIA.	DIAMETER			TGL	TEMPERED GLASS
DIAG.	DIAGONAL	MACH.	MACHINE	THK	THICK(NESS)
DIM.	DIMENSION	MAS.	MASONRY	THRESH	THRESHOLD
DISP.	DISPOSE	MAT.	MATERIAL	T.O.	TOP OF
DN	DOWN	MAX.	MAXIMUM	T.O.W.	TOP OF WALL
DR	DOOR	MECH.	MECHANICAL	TS	TUBE STEEL
DTL	DETAIL	MED.	MEDIUM	TSTAT	THERMOSTAT
DWG	DRAWING	MEMB	MEMBRANE	TYP.	TYPICAL
DWGS	DRAWINGS	MDF	MEDIUM DENSITY FIBERBOARD	TZ	TERRAZZO
		MIL	MILLIMETER		
EA.	EACH	MIN.	MINIMUM	U.H.	UNIT HEATER
EL	ELEVATION	MISC.	MISCELLANEOUS	U.N.O.	UNLESS NOTED OTHERWISE
ELEC.	ELECTRIC(AL)	M.O.	MASONRY OPENING		
ELEV.	ELEVATOR	M.R.	MOISTURE RESISTANT	VCT	VINYL COMPOSITION TILE
EMER.	EMERGENCY	MTL	METAL	VERT.	VERTICAL
EQ	EQUAL			V.I.F.	VERIFY IN FIELD
EQUIP	EQUIPMENT	N.A.	NOT APPLICABLE	V.R.	VAPOR RETARDER
ETR	EXISTING TO REMAIN	N.C.	NOISE CRITERIA		
EV	EXHAUST VENT	N.I.C.	NOT IN CONTRACT	W/	WITH
EX.	EXISTING	NOM.	NOMINAL	WD	WOOD
EXIST.	EXISTING	NO	NUMBER	WDW	WINDOW
EXG	EXISTING	NR	NOT RATED		
EXT.	EXTERIOR	N.R.C.	NOISE REDUCTION COEFFICIENT	@	AT
		N.T.S.	NOT TO SCALE	&	AND

DRAWING LIST

SHEET	SHEET NAME
GENERAL	
G0.0	COVER
G0.1	COMMON ABBREVIATIONS AND DRAWING LIST
G0.2	CODE SUMMARY
G0.3	CODE SUMMARY
G0.4	SPECIFICATIONS
DEMOLITION	
D1.1	DEMOLITION PLAN FIRST FLOOR
D1.2	DEMOLITION PLAN SECOND FLOOR
D1.3	DEMOLITION PLAN THIRD FLOOR
ARCHITECTURE	
A0.1	GENERAL NOTES, LEGENDS
A1.1	FIRST FLOOR PLAN
A1.2	SECOND & THIRD FLOOR PLAN
A4.0	ENLARGED ENTRY STAIRS RAILING
A5.1	DETAILS, DOOR TYPES, FRAMES, & SCHEDULE
ELECTRICAL	
E0.0	ELECTRICAL SYMBOL LEGEND AND NOTES
E1.0	ELECTRICAL LEVEL 1 PLANS
E1.1	ELECTRICAL LEVEL 2 PLANS
E1.2	ELECTRICAL LEVEL 3 PLANS
E2.0	ELECTRICAL SPECIFICATIONS SHEET
E2.1	ELECTRICAL SPECIFICATIONS SHEET
E2.2	ELECTRICAL SPECIFICATIONS SHEET
FIRE PROTECTION	
FP0.0	FIRE PROTECTION LEGEND AND GENERAL NOTES
FP1.1	FIRE PROTECTION FIRST FLOOR PARTIAL PLANS
FP1.2	FIRE PROTECTION SECOND FLOOR PARTIAL PLANS
FP1.3	FIRE PROTECTION THIRD FLOOR PARTIAL PLANS
MECHANICAL	
M0.0	MECHANICAL SYMBOL LEGEND AND NOTES
M1.0	MECHANICAL LEVEL 1 PLANS
M3.0	MECHANICAL LEVEL 3 PLANS

**FIRE CODE UPGRADES TO THE
 LYMAN B. GOFF MIDDLE SCHOOL**

974 Newport Ave., Pawtucket, RI 02861



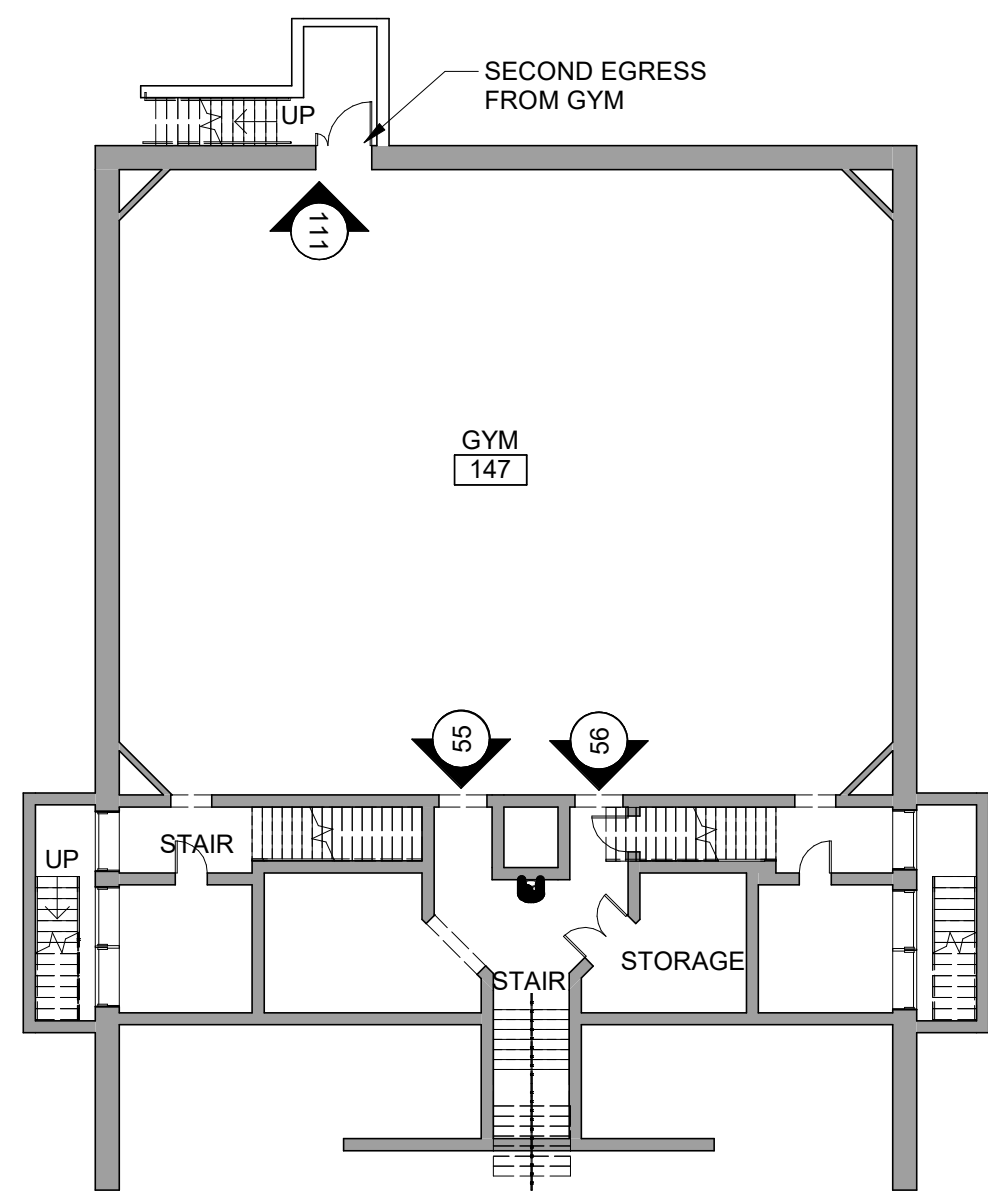
317 Iron Horse Way,
Suite 202
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401.861.1600
brewsterthornton.com

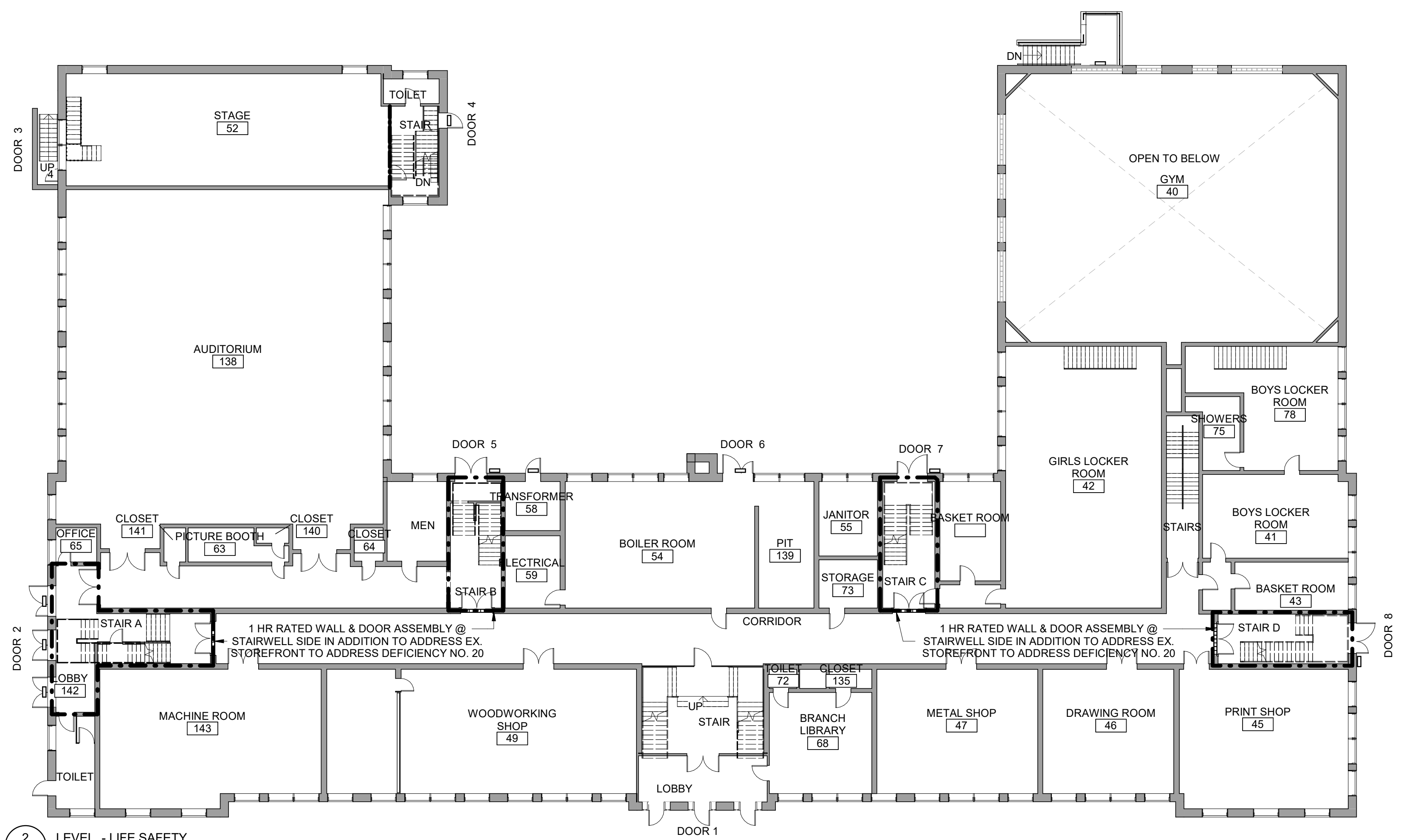
JOB NO.	DATE	
2144	11/25/24	
ISSUE : PRICING SET		
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE
**COMMON
 ABBREVIATIONS
 AND DRAWING
 LIST**

SHEET
G0.1



1
G0.2 BASEMENT LEVEL - LIFE SAFETY
Scale: 1/16" = 1'-0"
NOTE: FOR CODE REFERENCE ONLY. NO SCOPE OF WORK IN BASEMENT



2
G0.2 LEVEL - LIFE SAFETY
Scale: 1/16" = 1'-0"

CODE SUMMARY

APPLICABLE CODES

- Rhode Island Fire Code, NFPA 1, 2018
- Rhode Island Life Safety Code, NFPA 2018
- Rhode Island Accessibility Code (ADAAG 2010: Accessible and Useable Buildings (ICC A117.1-2009)
- IEBC 2021

BUILDING INFORMATION

MIDDLE SCHOOL - Lyman B. Goff Middle School

Plan of Action Deficiencies & Proposed Action

Deficiency Number	Deficiency	Code Requirement	Proposed Action
Deficiency Number 20	There is unrated glazing within the stairwell walls. Some stairwell doors are unrated. The stairwells are non-latching. The stairwells are not provided with adequate fire stopping.	RILSC 716.5 RILSC 8.3.4.1 RILSC 8.3.4.2 RILSC 8.3.4.3	3-Story building requires stairwell walls and glazing to be 1-hr rated. 1-hr rated wall behind ex. glazing is being provided with 1-hr rated doors in that wall.
Deficiency Number 21	The open stairwell at the front entrance is provided with handrails at a height of 40 inches.	RILSC 7.2.2.4.4.2	After field verification the stair handrails are within code mandated ht. at 35.5" The railing at the second level is at 40" and code compliant. Glass railing behind ex. railing to meet guardrail ht. of 42" to be installed per details on Sheet A5.1.
Deficiency Number 22	The handrails at the entrance stair have intermediate rail spacing of greater than 4 inches.	RILSC 7.2.2.4.5.3	Glass railing behind existing railing to be installed per details on Sheet A5.1 to address the greater than 4" opening in the ex. railing

NOTE: All citation information from Pawtucket Public Schools Plan of Action by Jensen Hughes Associates.

LEGEND

LIMIT OF WORK	---	FIRE EXTINGUISHER	F.E.
1 HR SEPARATION	---	EGRESS PATH	---
2 HR SEPARATION	---	CAPACITY OF EGRESS OPENING	CAPACITY = ##
ROOM DESIGNATION	ROOM 100 150 SF ### OCC	EXISTING TO REMAIN	---
EGRESS ANNOTATION (DIRECTION + # OCC.)	#	NEW CONSTRUCTION	---

Additional Code Research

Handrails



7.2.2.4.5.2- Existing required Handrails shall not be less than 30" and not more than 38", above the surface of the tread, measured vertically to the top of the rail from the leading edge of tread.

7.2.2.4.5.6- Handrails Shall Include one of the following features:

1. Circular cross section with an outside diameter of not less than 1 1/2" and not more than 2"
2. Shape other than circular with a perimeter dimension of not less than 4" but not more than 6", and with the largest cross-sectional dimension not more than 2 1/4" in provided that the graspable edges are rounded so as to provide a radius of not less than 1/8"

7.2.2.4.5.9 - New Handrails shall be returned to the wall, floor, or terminate at a newel post.

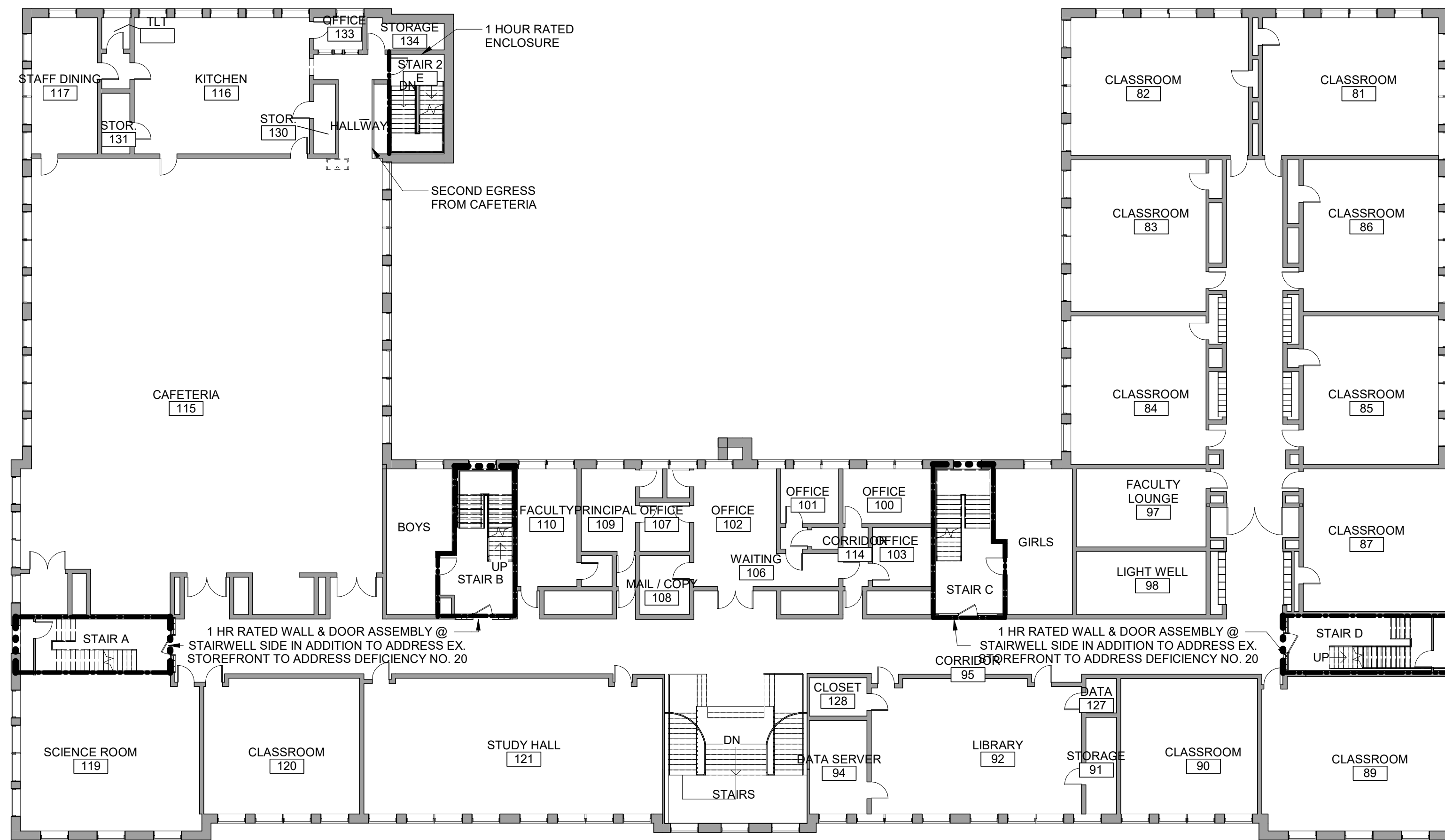
Guardrails

7.2.24.6.2-Guards shall not be less than 42 in. high, except as permitted by one of the following.

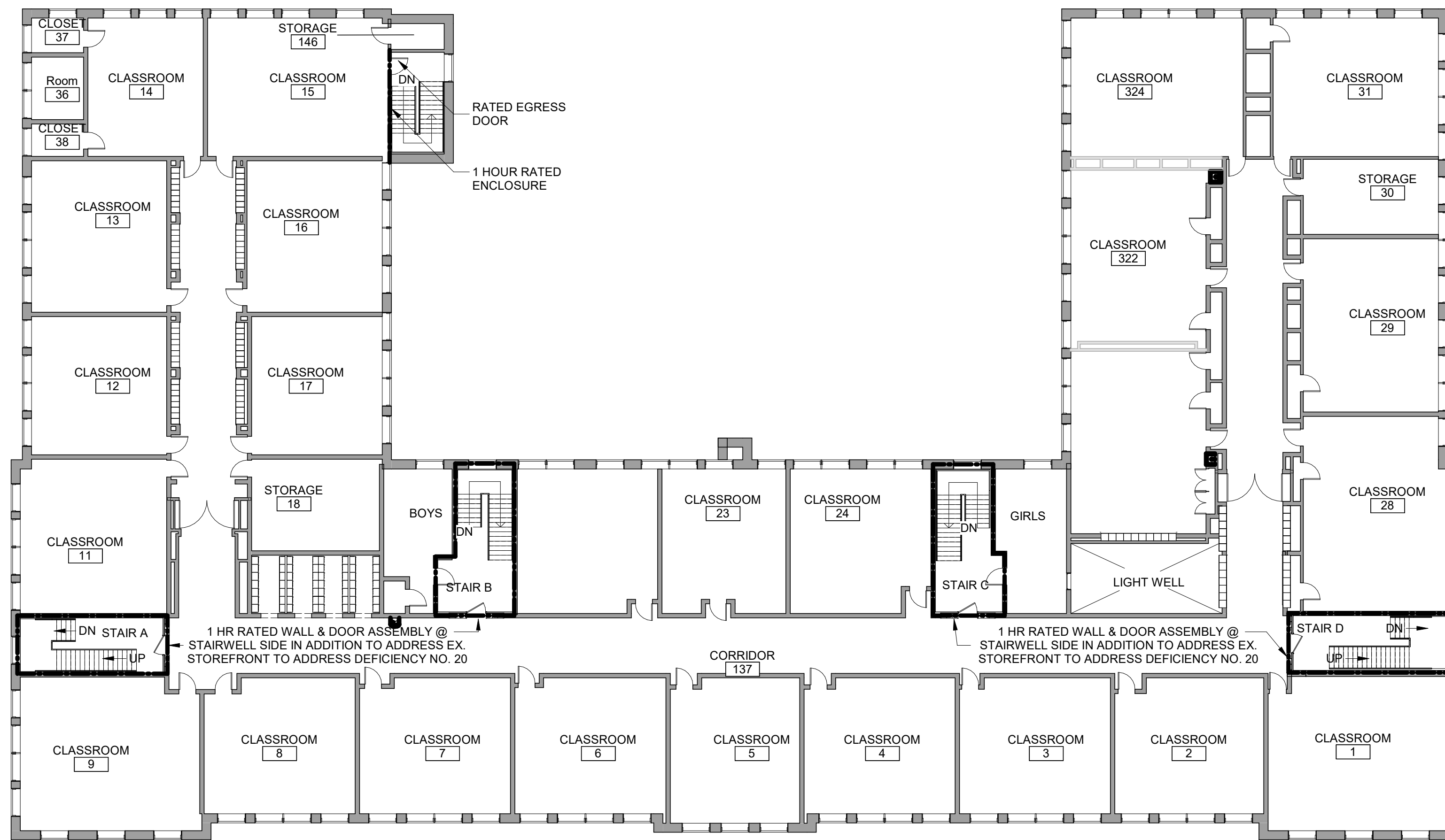
1. Existing guards within dwelling units shall be permitted to be not less than 36" high.
2. The requirement of 7.2.2.4.6.2. shall not apply in assembly occupancies where otherwise provided in Chapters 12 and 13.
3. Existing guards on existing stairs shall be permitted to be not less than 30"

7.2.2.4.6.3- Open guards, other than approved existing open guards, shall have intermediate rails or an ornamental pattern such that a sphere 4 in. in diameter is not able to pass through any opening up to a height of 34 in.

NO.	REVISION DESCRIPTION	DATE



1 LEVEL 2 - LIFE SAFETY
Scale: 1/16" = 1'-0"



2 LEVEL 3 - LIFE SAFETY
Scale: 1/16" = 1'-0"

CODE SUMMARY

APPLICABLE CODES

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BUILDING INFORMATION

MIDDLE SCHOOL - Lyman B. Goff Middle School

Plan of Action Deficiencies & Proposed Action

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NOTE: All citation information from Pawtucket Public Schools Plan of Action by Jensen Hughes Associates.

LEGEND

LIMIT OF WORK		FIRE EXTINGUISHER	
1 HR SEPARATION		EGRESS PATH	
2 HR SEPARATION		CAPACITY OF EGRESS OPENING	CAPACITY = ##
ROOM DESIGNATION		EXISTING TO REMAIN	
EGRESS ANNOTATION (DIRECTION + # OCC.)		NEW CONSTRUCTION	

Additional Code Research

Handrails



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- 7.2.2.4.5.6- Handrails Shall include one of the following features:
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- Guardrails**
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**BREWSTER
 THORNTON
 GROUP
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JOB NO. 2144	DATE 11/25/24	
ISSUE : PRICING SET		
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE
CODE SUMMARY

SHEET
G0.3

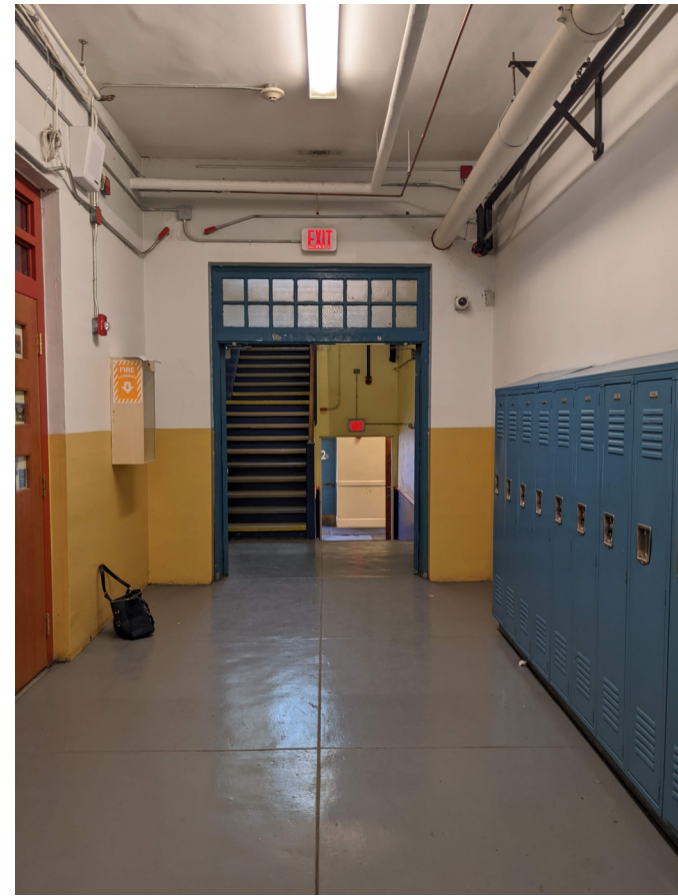


PHOTO 1 - STAIR A DOOR 100-A

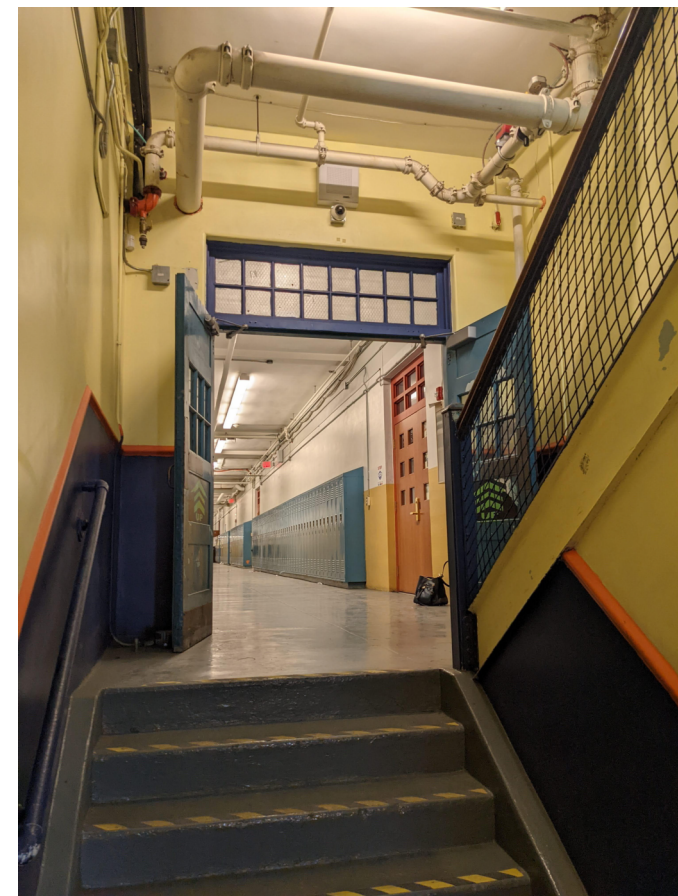


PHOTO 2 - STAIR A DOOR 100-A



PHOTO 3 - STAIR B DOOR 100-B



PHOTO 4 - STAIR B DOOR 100-B

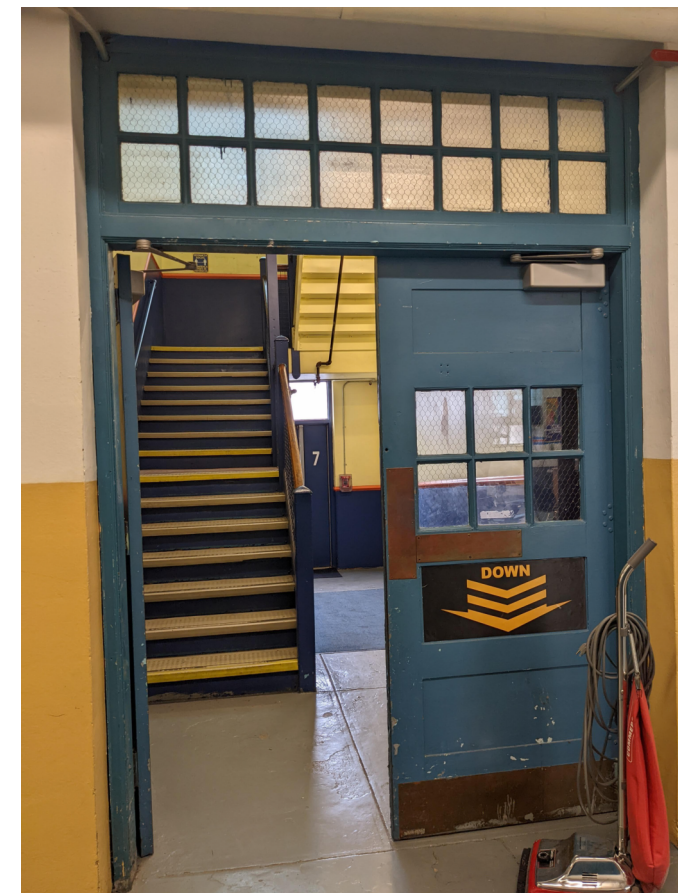


PHOTO 5 - STAIR C DOOR 100-C



PHOTO 6 - STAIR C DOOR 100-C

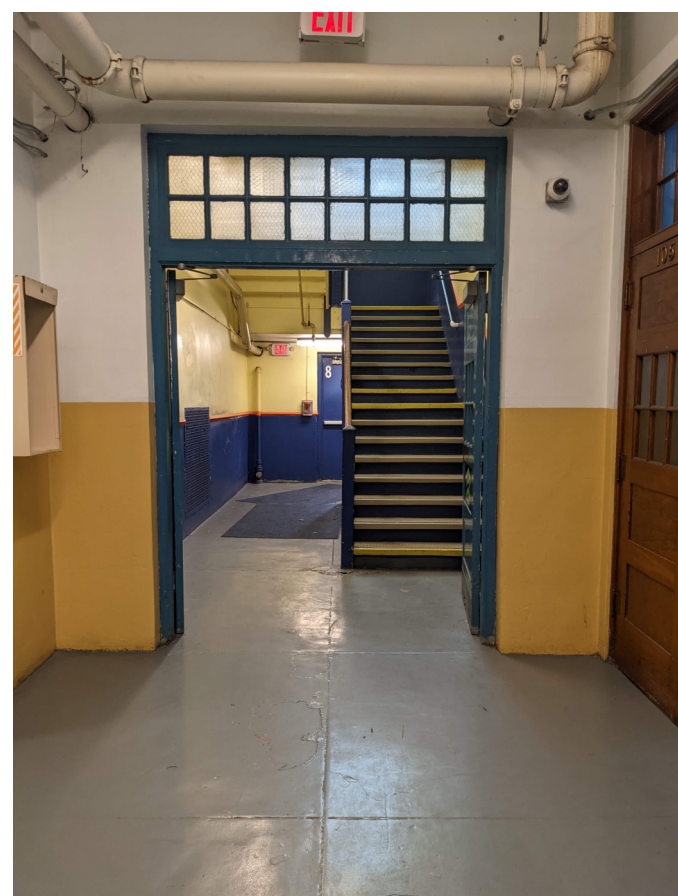
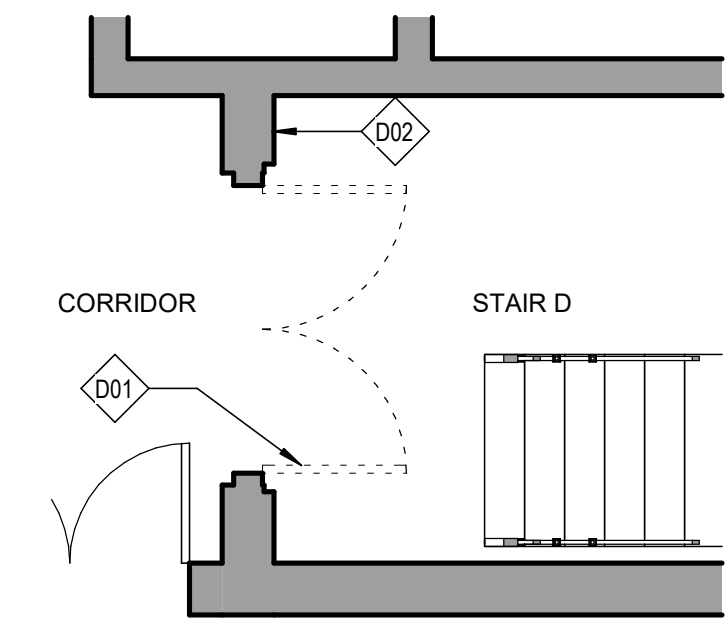


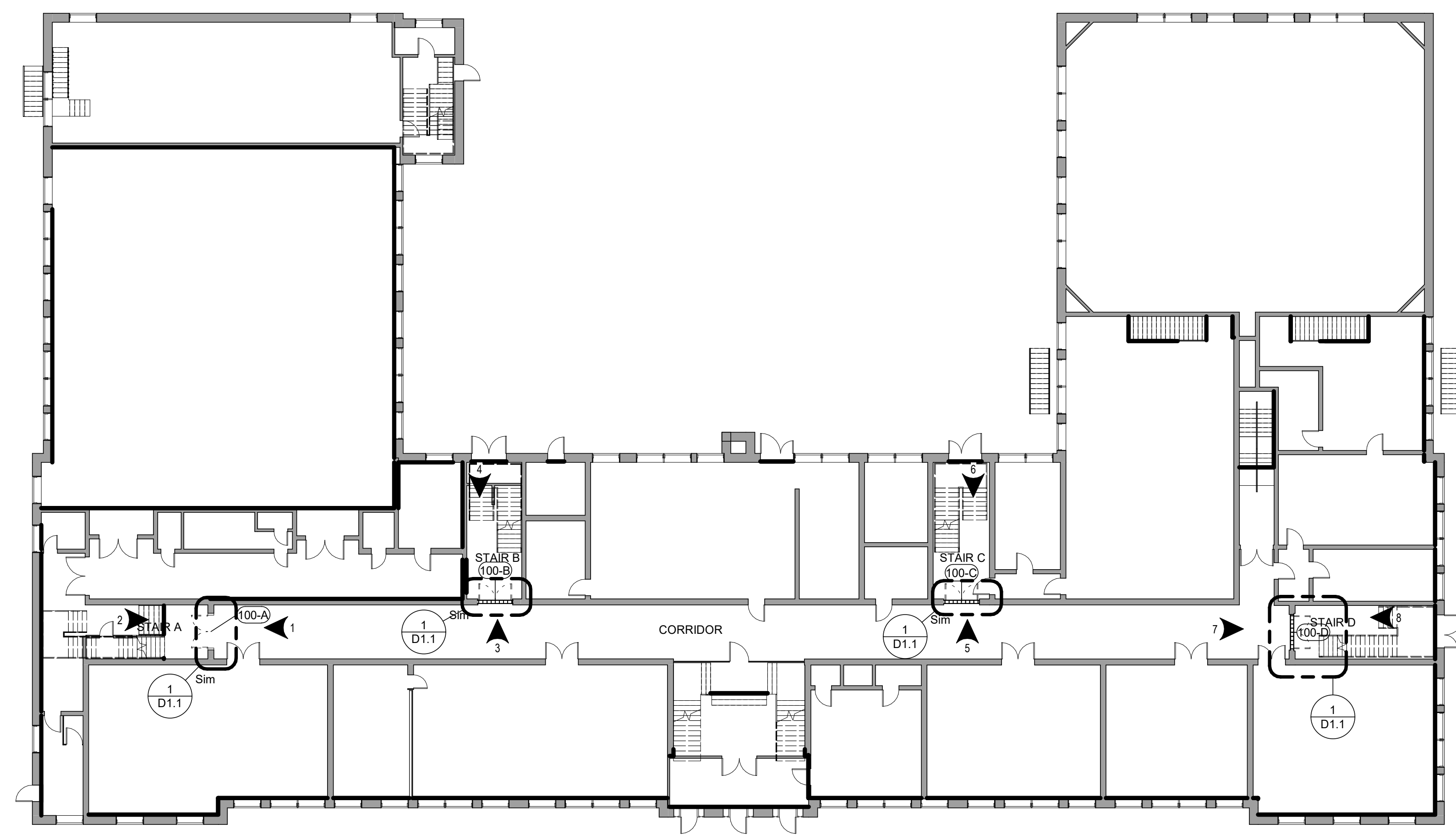
PHOTO 7 - STAIR D DOOR 100-D



PHOTO 8 - STAIR D DOOR 100-D



1 ENLARGED DEMO AT FIRST FLOOR STAIR DOOR TYP.
Scale: 1/4" = 1'-0"



2 FIRST FLOOR DEMOLITION PLAN
Scale: 1/16" = 1'-0"

DEMOLITION LEGEND NTS
SEE DEMOLITION KEYNOTES FOR ADDITIONAL INFORMATION

	INDICATES ITEM OR AREA TO BE REMOVED
	WALL STRUCTURE TO REMAIN, WALL FINISH TO BE REMOVED
	WALL TO BE REMOVED IN ITS ENTIRETY
	EXISTING DOOR & FRAME TO BE REMOVED
	EXISTING WINDOW AND FRAME TO BE REMOVED
	DEMOLITION KEY NOTE, SEE KEY NOTE SCHEDULE

- DEMOLITION NOTES**
- INDICATES ITEM OR AREA TO BE REMOVED.
 - PROVIDE TEMPORARY SUPPORT DURING REMOVAL OF ANY AND ALL STRUCTURAL ELEMENTS.
 - PROTECT ALL AREAS ADJACENT TO OR AFFECTED BY WORK DURING CONSTRUCTION. PROVIDE DUST CONTAINMENT FOR ALL WORK AREAS.
 - CLEAN WORK AREA AND AREAS AFFECTED BY CUTTING AND PATCHING OPERATIONS.
 - PATCH WALLS & CEILING AT DEMO'D AREAS TO MATCH EXISTING ADJACENT SURFACES.
 - SEE DEMOLITION PLANS FOR SPECIFIC NOTES.
 - CAP ALL ABANDONED PLUMBING LINES AND ELECTRICAL OUTLETS.
 - ALL PORTIONS OF THE BUILDING TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
 - PRECAUTIONS AND TEMPORARY SHORING SHALL BE PLACED TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE THROUGHOUT DEMOLITION AND MASONRY WORK.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE AND ANY OTHER AUTHORITIES HAVING JURISDICTION PRIOR TO THE START OF DEMOLITION. COMPLY WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO COMPLETE THE WORK.
 - PROVIDE WEATHER TIGHT TEMPORARY PROTECTION FOR ALL OPENINGS IN EXTERIOR WALLS, ROOF, AND AT WINDOW AND DOOR HEADS.
 - SHOULD SUSPECTED HAZARDOUS MATERIALS BE ENCOUNTERED, CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER IMMEDIATELY.
 - PROVIDE CUTTING AND PATCHING WORK TO PROPERLY COMPLETE THE WORK OF THE PROJECT, COMPLYING WITH PROJECT REQUIREMENTS FOR: a.) STRUCTURAL WORK; b.) MECHANICAL WORK; c.) VISUAL REQUIREMENTS, INCLUDING DETAILING AND TOLERANCES.
 - DO NOT CUT AND PATCH IN A MANNER THAT WOULD RESULT IN A FAILURE OF THE WORK TO PERFORM AS INTENDED, DECREASE ENERGY PERFORMANCE, INCREASE MAINTENANCE, DECREASE OPERATION LIFE, OR DECREASE SAFETY PERFORMANCE.
 - MATCH EXISTING MATERIALS FOR CUTTING AND PATCHING WORK WITH NEW MATERIALS CONFORMING TO PROJECT REQUIREMENTS.
 - INSPECT CONDITIONS PRIOR TO WORK TO IDENTIFY SCOPE AND TYPE OF WORK REQUIRED. NOTIFY OWNER OF WORK REQUIRING INTERRUPTION TO BUILDING SERVICES OR OWNER'S OPERATIONS.
 - CUTTING: USE CUTTING TOOLS. NOT CHOPPING TOOLS. MAKE NEAT HOLE. MINIMIZE DAMAGE TO ADJACENT WORK. INSPECT FOR CONCEALED UTILITIES AND STRUCTURE BEFORE CUTTING.
 - PATCHING: MAKE PATCHES, SEAMS, AND JOINTS DURABLE AND INCONSPICUOUS.
 - REFER TO A1 SHEETS FOR RELEVANT DIMENSIONS AND ADDITIONAL NOTES WHERE APPLICABLE.
 - REVIEW UNIQUE EXISTING CONDITIONS FOUND IN THE FIELD DURING DEMOLITION WITH ARCHITECT.
 - CONTRACTOR TO ARRANGE FOR DISCONNECT AND CAPPING OF UTILITIES AS REQUIRED. PROTECT UTILITIES TO REMAIN. VERIFY LOCATION AND STATUS OF UTILITIES BEFORE BEGINNING DEMOLITION WORK.
 - VERIFY WITH OWNER BEFORE STARTING WORK WHICH ITEMS ARE TO BE SALVAGED FOR THEIR USE. CAREFULLY REMOVE AND STORE SUCH ITEMS AS DIRECTED BY OWNER.
 - PROTECT ADJACENT AREAS AND STRUCTURES TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY AREAS OR SURFACES WHICH ARE DAMAGED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS DURING DEMOLITION.

DEMOLITION KEYNOTES

DISCLAIMER:

NO.	KEYNOTE
D01	CAREFULLY REMOVE DOOR AND COORDINATE WITH OWNER FOR SALVAGE. REFER TO ALL DRAWINGS FOR DESIGN INTENT OF RESULTING OPENING AND DISPOSITION OF ADJACENT CONSTRUCTION. LEAVE EXISTING HEAD AND JAMBS IN CLEAN, SQUARE AND TRUE CONDITION TO RECEIVE CONSTRUCTION ASSEMBLIES AS APPLICABLE.
D02	CAREFULLY REMOVE AV/IT AND FIRE PROTECTION EQUIPMENT FROM WALL AT STAIR SIDE AND REFER TO ENGINEERING DRAWINGS FOR PROPOSED RELOCATION

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JOB NO. 2144	DATE 11/25/24	
ISSUE : PRICING SET		
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SHEET TITLE
**DEMOLITION
 PLAN FIRST
 FLOOR**

SHEET
D1.1



PHOTO 1 - STAIR D DOOR 200-D



PHOTO 2 - STAIR D DOOR 200-D



PHOTO 3 - STAIR B DOOR 200-B



PHOTO 4 - STAIR B DOOR 200-B



PHOTO 5 - STAIR C DOOR 200-C



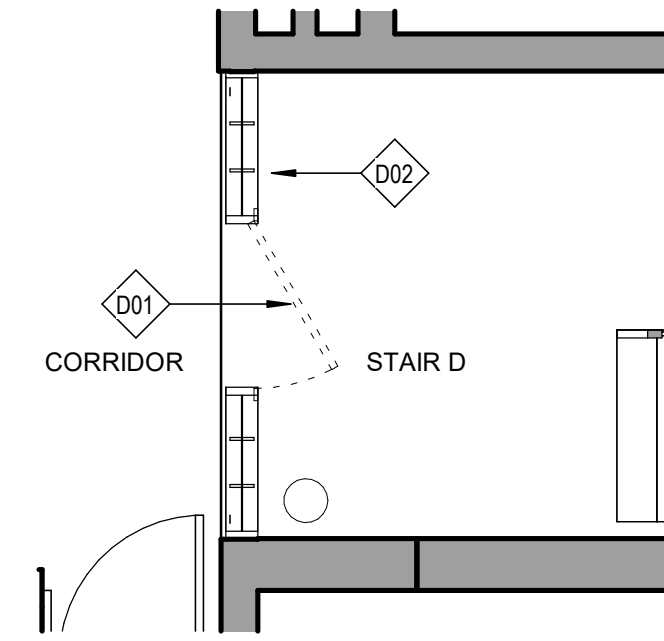
PHOTO 6 - STAIR C DOOR 200-C



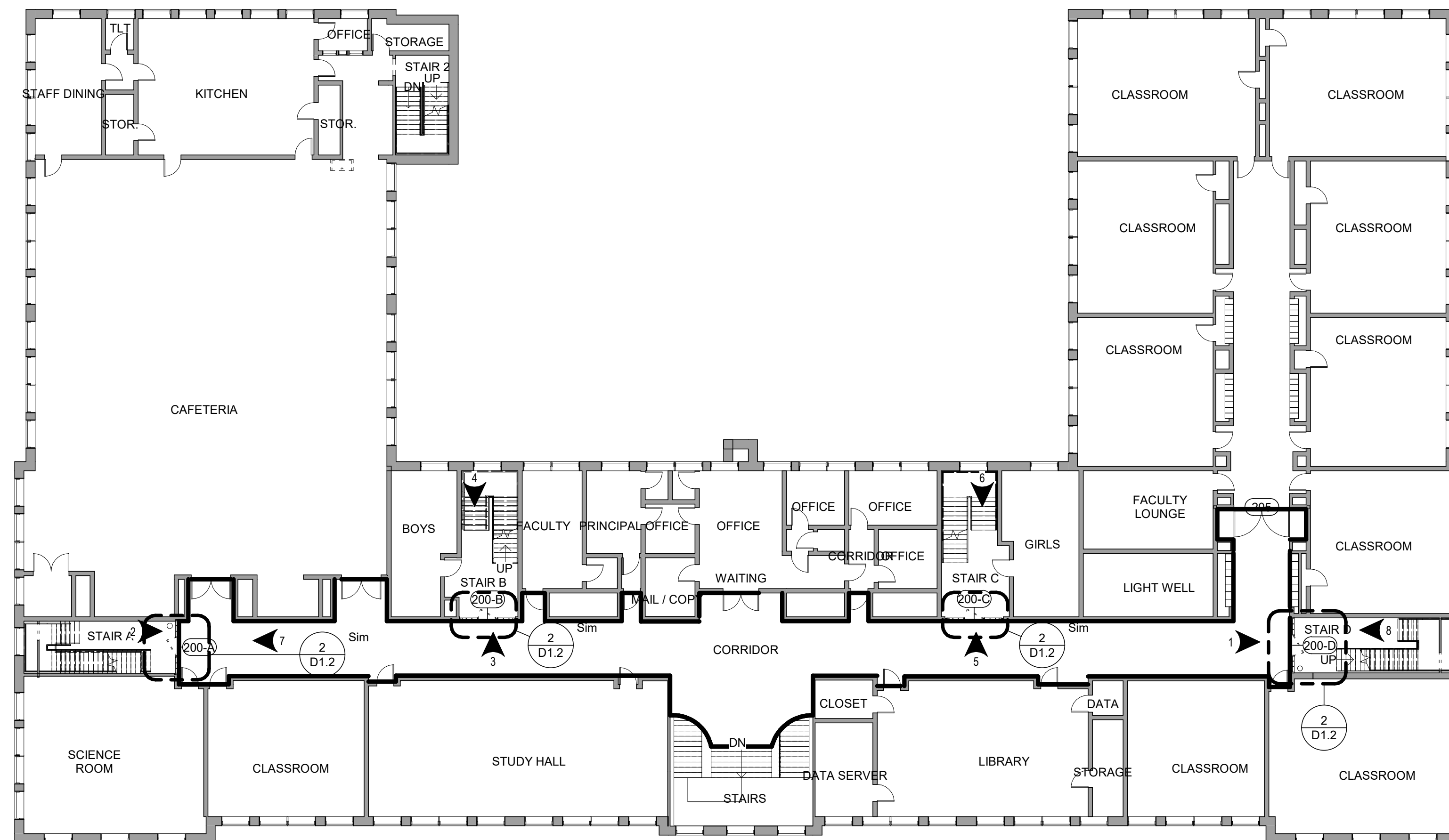
PHOTO 7 - STAIR A DOOR 200-A



PHOTO 8 - STAIR A DOOR 200-A



2 ENLARGED DEMO AT SECOND FLOOR STAIR DOOR TYP.
Scale: 1/4" = 1'-0"



1 SECOND FLOOR DEMOLITION PLAN
Scale: 1/16" = 1'-0"

DEMOLITION LEGEND	
---	INDICATES ITEM OR AREA TO BE REMOVED
[Hatched Box]	WALL STRUCTURE TO REMAIN, WALL FINISH TO BE REMOVED
[Dashed Line]	WALL TO BE REMOVED IN ITS ENTIRETY
[Dashed Door]	EXISTING DOOR & FRAME TO BE REMOVED
[Dashed Window]	EXISTING WINDOW AND FRAME TO BE REMOVED
[Diamond with DXX]	DEMOLITION KEY NOTE, SEE KEY NOTE SCHEDULE

- DEMOLITION NOTES**
- INDICATES ITEM OR AREA TO BE REMOVED.
 - PROVIDE TEMPORARY SUPPORT DURING REMOVAL OF ANY AND ALL STRUCTURAL ELEMENTS.
 - PROTECT ALL AREAS ADJACENT TO OR AFFECTED BY WORK DURING CONSTRUCTION. PROVIDE DUST CONTAINMENT FOR ALL WORK AREAS.
 - CLEAN WORK AREA AND AREAS AFFECTED BY CUTTING AND PATCHING OPERATIONS.
 - PATCH WALLS & CEILING AT DEMO'D AREAS TO MATCH EXISTING ADJACENT SURFACES.
 - SEE DEMOLITION PLANS FOR SPECIFIC NOTES.
 - CAP ALL ABANDONED PLUMBING LINES AND ELECTRICAL OUTLETS.
 - ALL PORTIONS OF THE BUILDING TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
 - PRECAUTIONS AND TEMPORARY SHORING SHALL BE PLACED TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE THROUGHOUT DEMOLITION AND MASONRY WORK.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE AND ANY OTHER AUTHORITIES HAVING JURISDICTION PRIOR TO THE START OF DEMOLITION. COMPLY WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO COMPLETE THE WORK.
 - PROVIDE WEATHER TIGHT TEMPORARY PROTECTION FOR ALL OPENINGS IN EXTERIOR WALLS, ROOF, AND AT WINDOW AND DOOR HEADS.
 - SHOULD SUSPECTED HAZARDOUS MATERIALS BE ENCOUNTERED, CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER IMMEDIATELY.
 - PROVIDE CUTTING AND PATCHING WORK TO PROPERLY COMPLETE THE WORK OF THE PROJECT. COMPLY WITH PROJECT REQUIREMENTS FOR: a.) STRUCTURAL WORK; b.) MECHANICAL WORK; c.) VISUAL REQUIREMENTS, INCLUDING DETAILING AND TOLERANCES.
 - DO NOT CUT AND PATCH IN A MANNER THAT WOULD RESULT IN A FAILURE OF THE WORK TO PERFORM AS INTENDED, DECREASE ENERGY PERFORMANCE, INCREASE MAINTENANCE, DECREASE OPERATION LIFE, OR DECREASE SAFETY PERFORMANCE.
 - MATCH EXISTING MATERIALS FOR CUTTING AND PATCHING WORK WITH NEW MATERIALS CONFORMING TO PROJECT REQUIREMENTS.
 - INSPECT CONDITIONS PRIOR TO WORK TO IDENTIFY SCOPE AND TYPE OF WORK REQUIRED. NOTIFY OWNER OF WORK REQUIRING INTERRUPTION TO BUILDING SERVICES OR OWNER'S OPERATIONS.
 - CUTTING: USE CUTTING TOOLS, NOT CHOPPING TOOLS. MAKE NEAT HOLE. MINIMIZE DAMAGE TO ADJACENT WORK. INSPECT FOR CONCEALED UTILITIES AND STRUCTURE BEFORE CUTTING.
 - PATCHING: MAKE PATCHES, SEAMS, AND JOINTS DURABLE AND INCONSPICUOUS.
 - REFER TO A1 SHEETS FOR RELEVANT DIMENSIONS AND ADDITIONAL NOTES WHERE APPLICABLE.
 - REVIEW UNIQUE EXISTING CONDITIONS FOUND IN THE FIELD DURING DEMOLITION WITH ARCHITECT.
 - CONTRACTOR TO ARRANGE FOR DISCONNECT AND CAPPING OF UTILITIES AS REQUIRED. PROTECT UTILITIES TO REMAIN. VERIFY LOCATION AND STATUS OF UTILITIES BEFORE BEGINNING DEMOLITION WORK.
 - VERIFY WITH OWNER BEFORE STARTING WORK WHICH ITEMS ARE TO BE SALVAGED FOR THEIR USE. CAREFULLY REMOVE AND STORE SUCH ITEMS AS DIRECTED BY OWNER.
 - PROTECT ADJACENT AREAS AND STRUCTURES TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY AREAS OR SURFACES WHICH ARE DAMAGED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS DURING DEMOLITION.

DEMOLITION KEYNOTES	
DISCLAIMER:	
NO.	KEYNOTE
D01	CAREFULLY REMOVE DOOR AND COORDINATE WITH OWNER FOR SALVAGE. REFER TO ALL DRAWINGS FOR DESIGN INTENT OF RESULTING OPENING AND DISPOSITION OF ADJACENT CONSTRUCTION. LEAVE EXISTING HEAD AND JAMBS IN CLEAN, SQUARE AND TRUE CONDITION TO RECEIVE CONSTRUCTION ASSEMBLIES AS APPLICABLE.
D02	CAREFULLY REMOVE AV/IT AND FIRE PROTECTION EQUIPMENT FROM WALL AT STAIR SIDE AND REFER TO ENGINEERING DRAWINGS FOR PROPOSED RELOCATION

**FIRE CODE UPGRADES TO THE
 LYMAN B. GOFF MIDDLE SCHOOL**
 974 Newport Ave., Pawtucket, RI 02861

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JOB NO. 2144	DATE 11/25/24	
ISSUE: PRICING SET		
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE
**DEMOLITION
 PLAN SECOND
 FLOOR**

SHEET
D1.2



PHOTO 1 - STAIR D DOOR 300-D



PHOTO 2 - STAIR D DOOR 300-D



PHOTO 3 - STAIR B DOOR 300-B

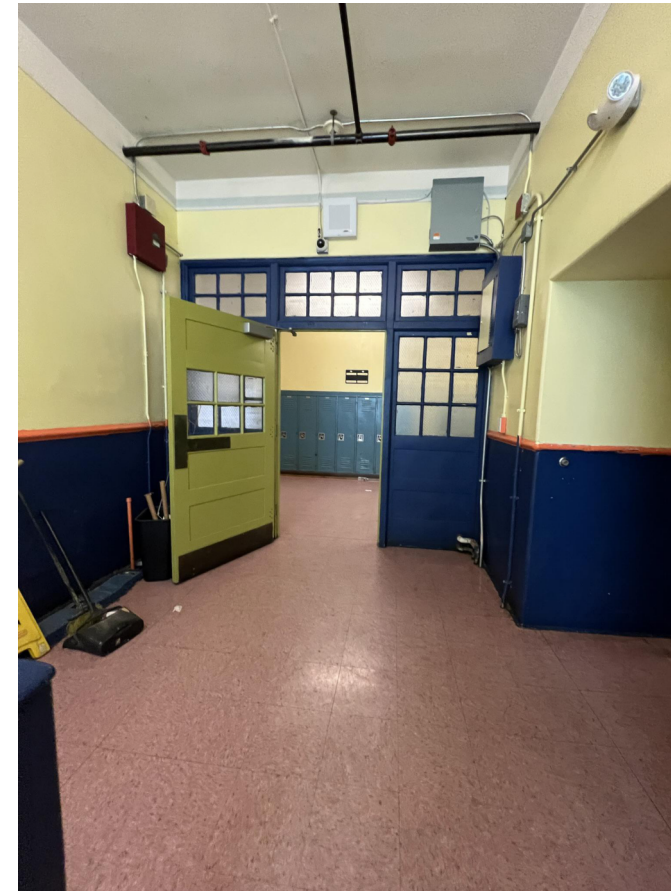


PHOTO 4 - STAIR B DOOR 300-B



PHOTO 5 - STAIR C DOOR 300-C



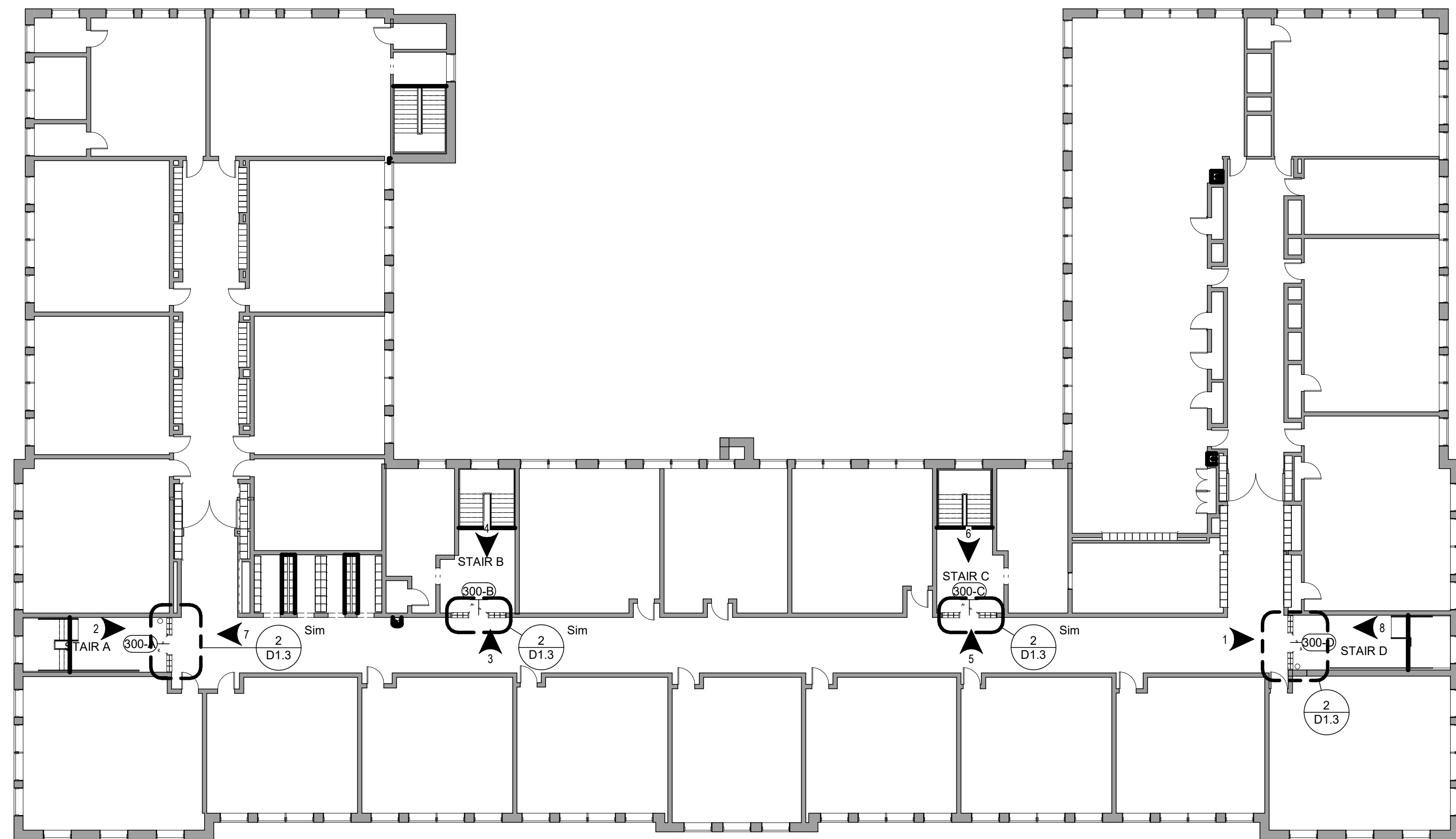
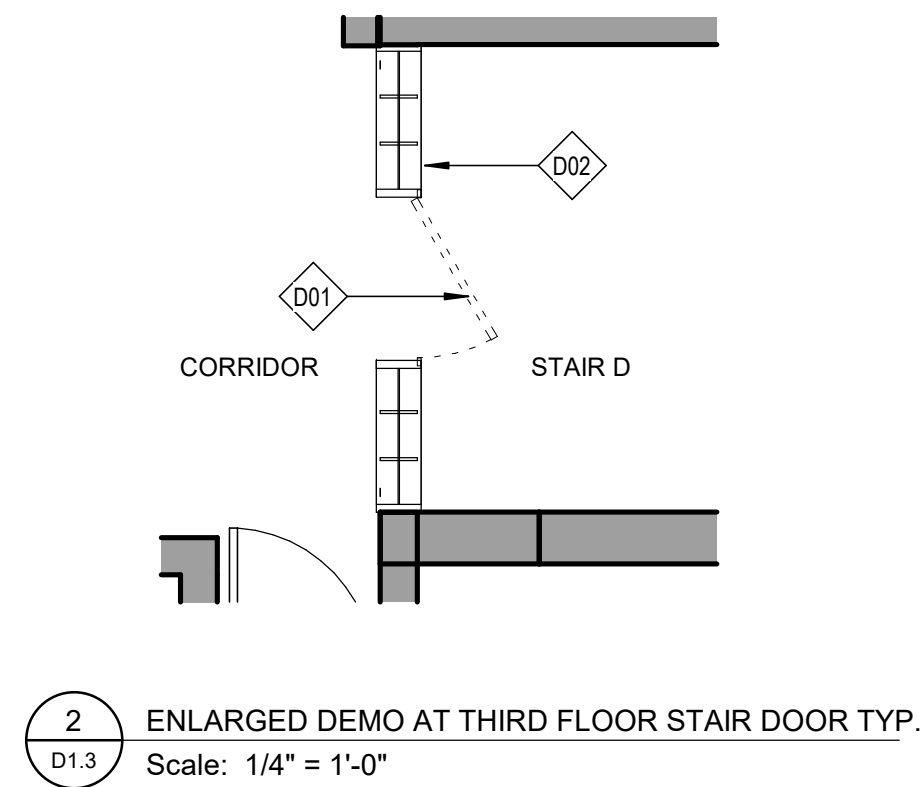
PHOTO 6 - STAIR C DOOR 300-C



PHOTO 7 - STAIR A DOOR 300-A



PHOTO 8 - STAIR A DOOR 300-A



1 D1.3 THIRD FLOOR DEMOLITION PLAN
Scale: 1/16" = 1'-0"

DEMOLITION LEGEND NTS
SEE DEMOLITION KEYNOTES FOR ADDITIONAL INFORMATION

	INDICATES ITEM OR AREA TO BE REMOVED
	WALL STRUCTURE TO REMAIN, WALL FINISH TO BE REMOVED
	WALL TO BE REMOVED IN ITS ENTIRETY
	EXISTING DOOR & FRAME TO BE REMOVED
	EXISTING WINDOW AND FRAME TO BE REMOVED
	DEMOLITION KEY NOTE, SEE KEY NOTE SCHEDULE

- DEMOLITION NOTES**
- INDICATES ITEM OR AREA TO BE REMOVED.
 - PROVIDE TEMPORARY SUPPORT DURING REMOVAL OF ANY AND ALL STRUCTURAL ELEMENTS.
 - PROTECT ALL AREAS ADJACENT TO OR AFFECTED BY WORK DURING CONSTRUCTION. PROVIDE DUST CONTAINMENT FOR ALL WORK AREAS.
 - CLEAN WORK AREA AND AREAS AFFECTED BY CUTTING AND PATCHING OPERATIONS.
 - PATCH WALLS & CEILING AT DEMO'D AREAS TO MATCH EXISTING ADJACENT SURFACES.
 - SEE DEMOLITION PLANS FOR SPECIFIC NOTES.
 - CAP ALL ABANDONED PLUMBING LINES AND ELECTRICAL OUTLETS.
 - ALL PORTIONS OF THE BUILDING TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
 - PRECAUTIONS AND TEMPORARY SHORING SHALL BE PLACED TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE THROUGHOUT DEMOLITION AND MASONRY WORK.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE AND ANY OTHER AUTHORITIES HAVING JURISDICTION PRIOR TO THE START OF DEMOLITION. COMPLY WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO COMPLETE THE WORK.
 - PROVIDE WEATHER TIGHT TEMPORARY PROTECTION FOR ALL OPENINGS IN EXTERIOR WALLS, ROOF, AND AT WINDOW AND DOOR HEADS.
 - SHOULD SUSPECTED HAZARDOUS MATERIALS BE ENCOUNTERED, CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER IMMEDIATELY.
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 - MATCH EXISTING MATERIALS FOR CUTTING AND PATCHING WORK WITH NEW MATERIALS CONFORMING TO PROJECT REQUIREMENTS.
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 - CUTTING: USE CUTTING TOOLS. NOT CHOPPING TOOLS. MAKE NEAT HOLE. MINIMIZE DAMAGE TO ADJACENT WORK. INSPECT FOR CONCEALED UTILITIES AND STRUCTURE BEFORE CUTTING.
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 - PROTECT ADJACENT AREAS AND STRUCTURES TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY AREAS OR SURFACES WHICH ARE DAMAGED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS DURING DEMOLITION.

DEMOLITION KEYNOTES

DISCLAIMER:	
NO.	KEYNOTE
D01	CAREFULLY REMOVE DOOR AND COORDINATE WITH OWNER FOR SALVAGE-REFER TO ALL DRAWINGS FOR DESIGN INTENT OF RESULTING OPENING AND DISPOSITION OF ADJACENT CONSTRUCTION. LEAVE EXISTING HEAD AND JAMBS IN CLEAN, SQUARE AND TRUE CONDITION TO RECEIVE CONSTRUCTION ASSEMBLIES AS APPLICABLE.
D02	CAREFULLY REMOVE AV/IT AND FIRE PROTECTION EQUIPMENT FROM WALL AT STAIR SIDE AND REFER TO ENGINEERING DRAWINGS FOR PROPOSED RELOCATION

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SHEET TITLE
**DEMOLITION
 PLAN THIRD
 FLOOR**
 SHEET
D1.3

GENERAL NOTES

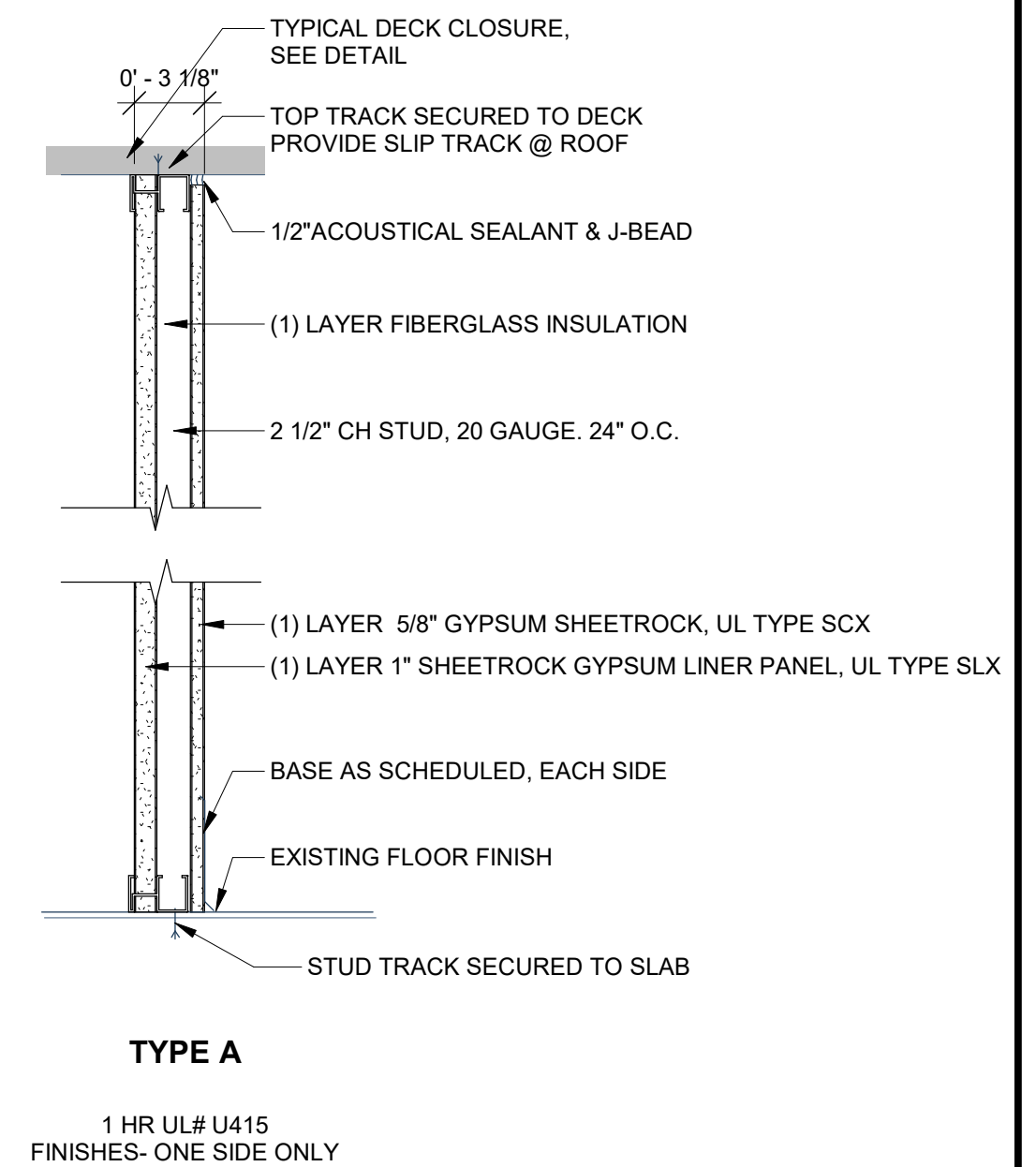
- ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS IN EFFECT AT THE PROJECT SITE.
- DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS.
- THE CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING.
- ALL DIMENSIONS OF NEW WORK ARE TO THE FACE OF CONCRETE AND MASONRY, AND THE CENTER OF METAL STUDS AND FRAME OPENINGS U.N.O.
- DIMENSIONS NOTED TO EXISTING PLANES SHALL REFER TO THE FINISHED SURFACE OF THE EXISTING WALL, FLOOR, OR CEILING PLANE, UNLESS NOTED OTHERWISE.
- ALL ITEMS OF WORK ARE TO BE NEW UNLESS NOTED AS EXISTING.
- CONTRACTOR SHALL VERIFY ALL DOOR AND WINDOW DIMENSIONS IN FIELD BEFORE PURCHASE.
- TYPICAL CONSTRUCTION IS INDICATED THROUGHOUT THE PROJECT. REPEATED SIMILAR GRAPHIC REPRESENTATION IS SUFFICIENT. NOTE AT EACH OCCURRENCE IS NOT REQUIRED.
- ALL ITEMS DETAILED IN SECTION ARE CONTINUOUS UNLESS NOTED OTHERWISE.
- FASTENERS, ADHESIVES AND OTHER SYSTEM COMPONENTS TYPICALLY REQUIRED ARE NOT CONSISTENTLY NOTED OR DETAILED. ONLY UNIQUE CONDITIONS ARE ILLUSTRATED. PROVIDE ALL ITEMS REQUIRED TO SAFELY SECURE, ATTACH OR STABILIZE ALL WORK AS RECOMMENDED BY ITS MANUFACTURER, AS REQUIRED BY CODE OR NECESSARY FOR THE ASSEMBLY'S PROPER PERFORMANCE WHETHER OR NOT DETAILED.
- ALL DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY AND MUST BE USED AS A SET FOR COMPLETE CONSTRUCTION INFORMATION.
- IT SHALL BE THE DUTY OF THE CONTRACTOR TO REQUEST FROM THE ARCHITECT ALL NECESSARY INTERPRETATION OF THE CONTRACT DOCUMENTS.
- DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MAY NOT SHOW ALL DEMOLITION WORK REQUIRED TO COMPLETE THE CONTRACT WORK.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- DRAWINGS INDICATE APPROXIMATE LOCATION OF FIELD CONDITIONS. VERIFY IN FIELD.
- DRAWINGS INDICATE SCOPE OF WORK. ACTUAL EXTENT OF WORK TO BE DETERMINED BY FIELD OBSERVATION.
- DIMENSIONS AND ELEVATIONS INDICATED ON THE DRAWINGS IN REFERENCE TO EXISTING STRUCTURES ARE THE BEST AVAILABLE DATA OBTAINABLE BUT ARE NOT GUARANTEED BY THE OWNER AND THE OWNER WILL NOT BE RESPONSIBLE FOR THEIR ACCURACY. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS, GRADES, LINES, LEVELS, OR OTHER CONDITIONS OF LIMITATIONS AT THE SITE TO AVOID CONSTRUCTION ERRORS. IF ANY WORK IS PERFORMED BY THE CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS PRIOR TO ADEQUATE VERIFICATION OF APPLICABLE DATA, ANY RESULTANT EXTRA COST FOR ADJUSTMENT OF WORK AS REQUIRED TO CONFORM TO EXISTING LIMITATIONS SHALL BE ASSUMED BY THE CONTRACTOR WITHOUT REIMBURSEMENT OR COMPENSATION BY THE OWNER.
- OMISSION FROM THE DRAWINGS AND SPECIFICATIONS OF ITEMS WHICH OBVIOUSLY ARE NEEDED TO PROPERLY PERFORM THE WORK, SUCH AS ATTACHMENTS, BOLTS, HANGERS, ETC., SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THEM.
- IT IS INTENDED THAT ALL DIMENSIONS AND FIGURES ON THE DRAWINGS SHALL AGREE. THE CONTRACTOR SHALL CONFIRM THEM BEFORE STARTING THE WORK AND SHALL REPORT IN WRITING ALL DISCREPANCIES TO THE ARCHITECT FOR ADJUSTMENT.

GENERAL LEGEND

	BATT INSULATION		MARBLE/ GRANITE
	BRICK		MILLWORK
	CONCRETE		PLASTIC/PVC
	CONCRETE BLOCK		PLYWOOD
	CULTURED STONE		RIGID INSULATION
	DISTURBED EARTH		RUBBLE
	UNDISTURBED EARTH		ASPHALT SHINGLES
	ENGINEERED WOOD (MDF, HDF, ETC.)		STEEL/METAL
	GLASS, SPECIALTY		WOOD SHINGLES
	GLASS, VERTICAL SURFACE		WOOD
	GYPSUM WALLBOARD		

DISCLAIMER: HATCH PATTERN SCALE ADJUSTS BY DRAWING SCALE. SEE OTHER DESIGN DISCIPLINES FOR ADDITIONAL LEGEND & SCHEDULE INFORMATION.

	EXTERIOR ELEVATION		ROOM NAME AND MARK
	INTERIOR ELEVATION		LIMITS OF CONSTRUCTION
	SECTION		DOOR MARK
	DETAIL		WALL TYPE
	DETAIL KEY		WINDOW TYPE
	DETAIL CALLOUT		KEY NOTE
	BENCHMARK ELEVATION		EXISTING PARTITION EXISTING CONSTRUCTION
	SPOT ELEVATION		NEW PARTITION
	PROJECT NORTH SYMBOL (DASHED INDICATES TRUE NORTH)		REVISION
	COLUMN GRID LINE NEW CONSTRUCTION		PHOTO SYMBOL
			ACCESSORY/ FURNITURE / SPECIALTY EQUIPMENT MARK
			FLOOR CHANGE LINE
			REVISION CLOUD
			FIRE EXTINGUISHER CABINET (F.E.C.)



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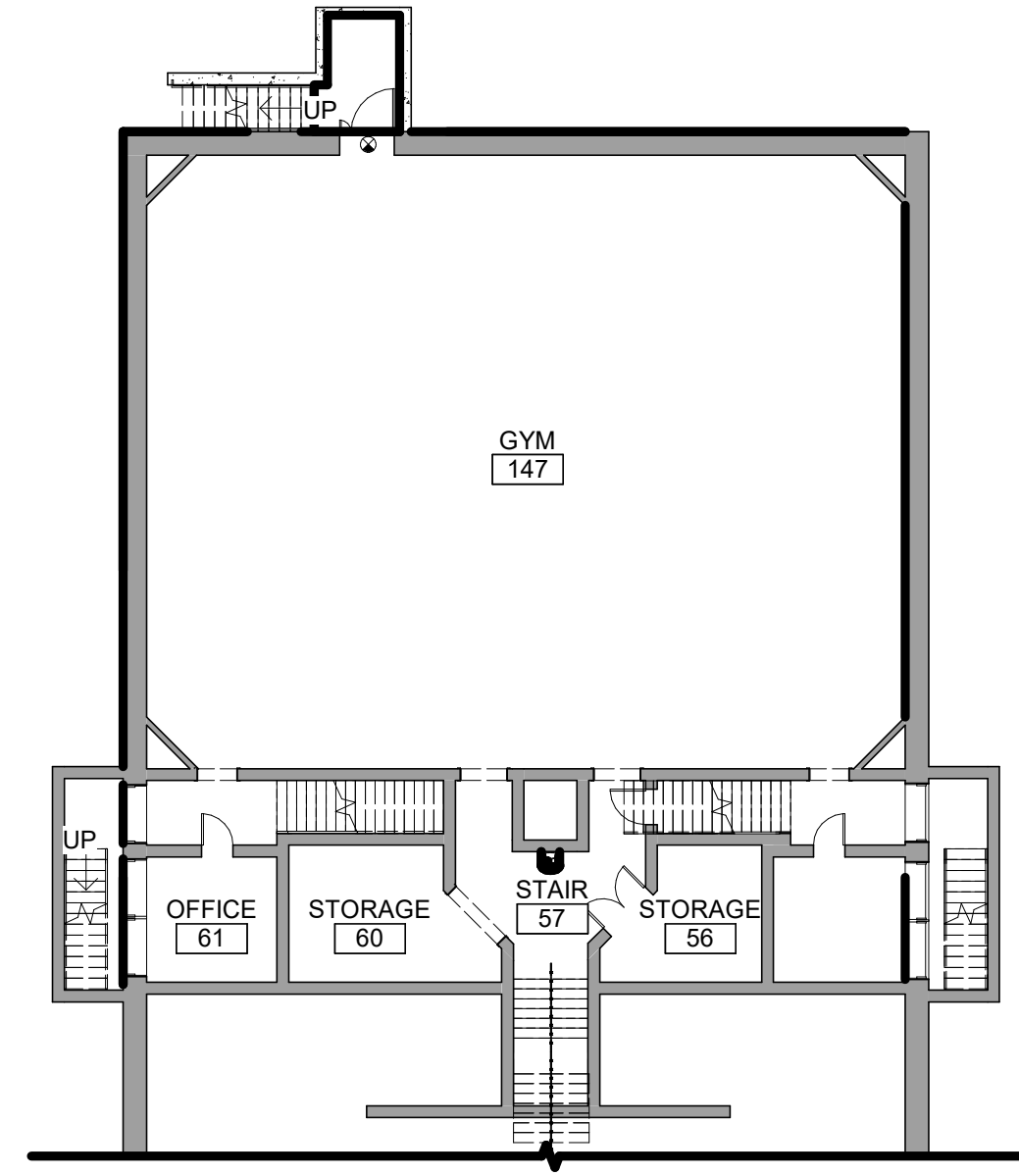
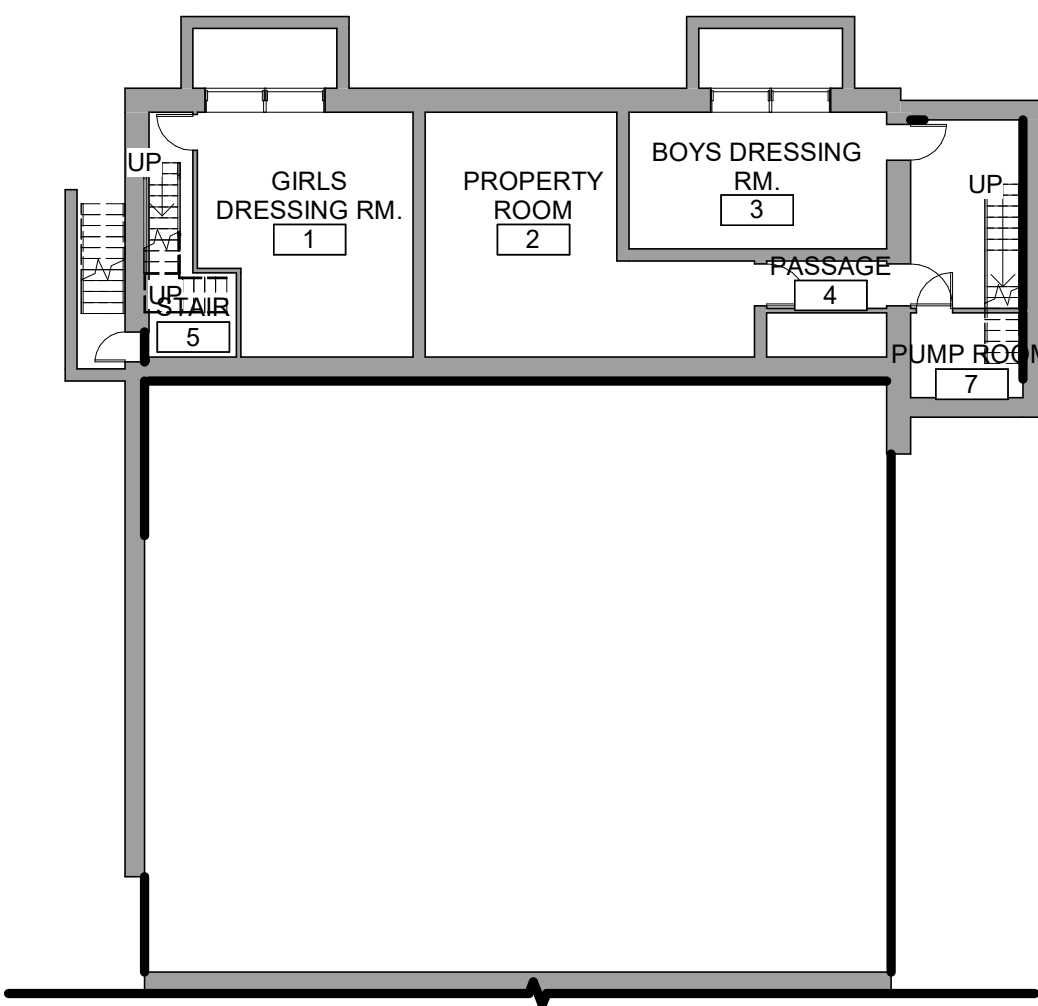


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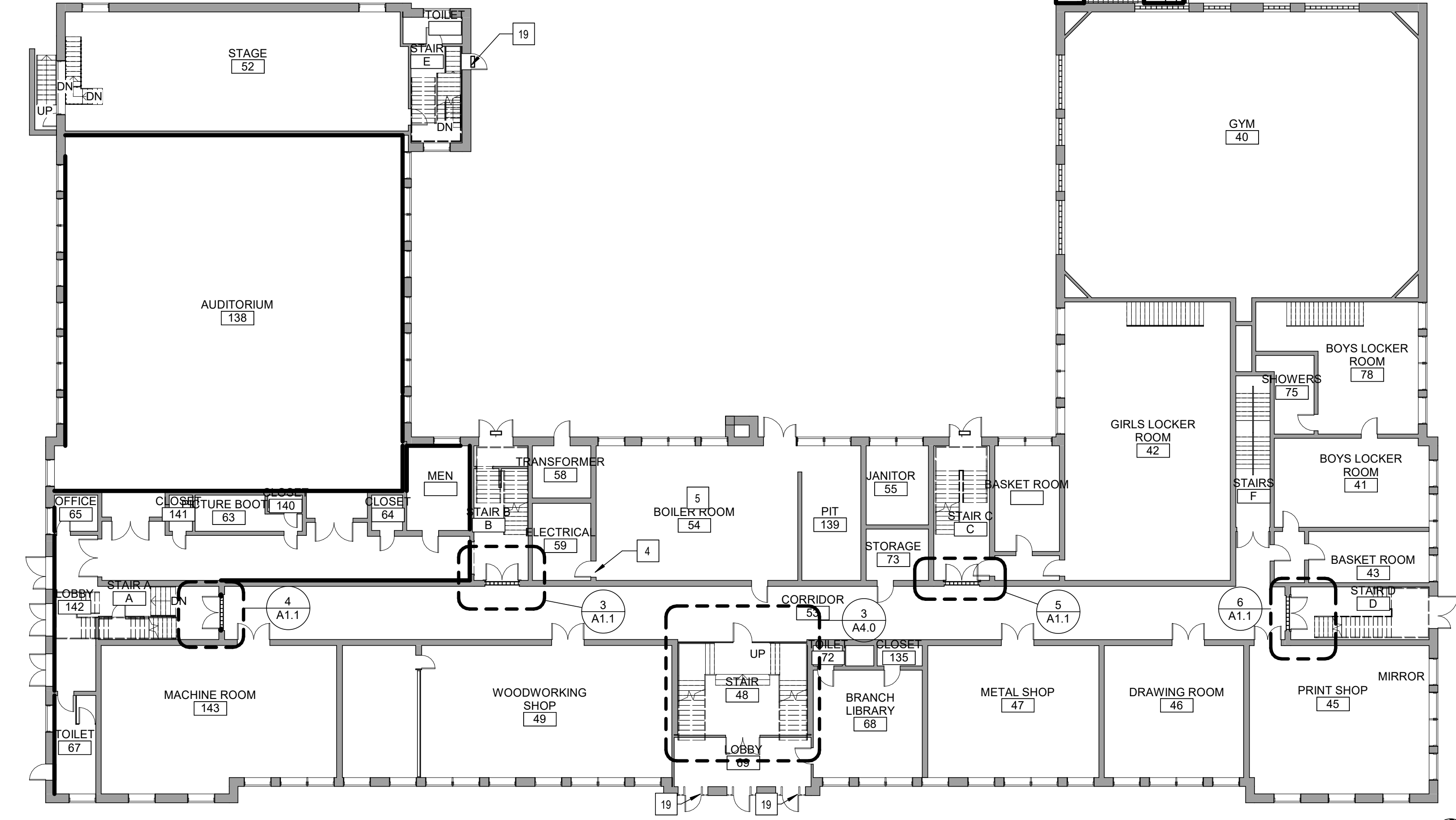
SHEET TITLE
**GENERAL
 NOTES,
 LEGENDS**

SHEET
A0.1

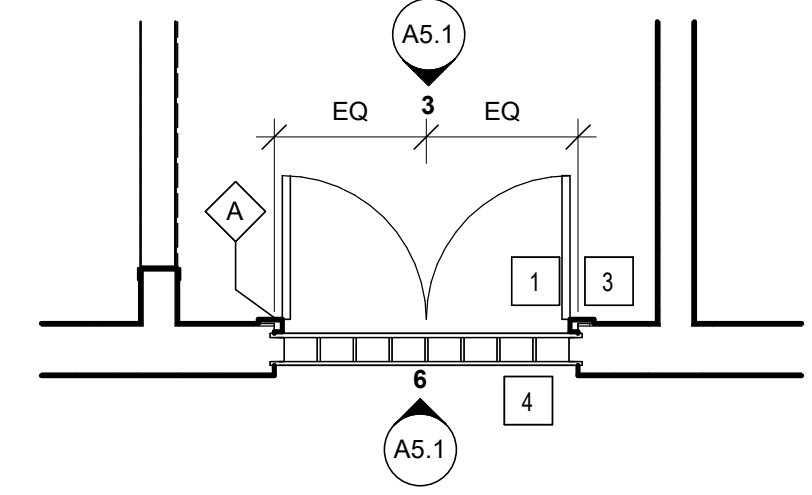


1 BASEMENT FLOOR PLAN
Scale: 1/16" = 1'-0"

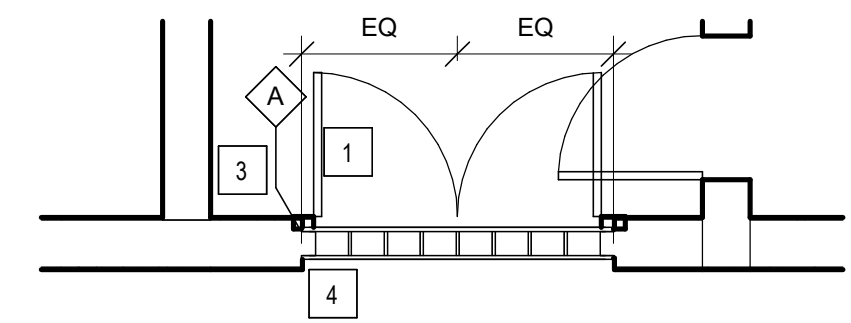
FLOOR PLAN KEY NOTES	
KEYNOTE NUMBER	DESCRIPTION
1	INSTALL DOUBLE DOORS WITH DOOR HARDWARE IN FIRE RATED WALL PER DOOR SCHEDULE. CAREFULLY ALIGN THE DOORS TO MATCH EX. OPENING IN EX. STOREFRONT WALL.
2	INSTALL SINGLE DOOR IN FIRE RATED WALL. CAREFULLY ALIGN THE DOORS TO MATCH EX. OPENING IN EX. WOOD STOREFRONT WALL.
3	REINSTALL EXISTING AV/IT, FIRE ALARM EQUIPMEN. REFER TO MEP DWGS FOR LOCATION.
4	APPLY FILM ON GLASS PANELS OF EX. STOREFRONT ON THE CORRIDOR SIDE. INSTALL 1-HR RATED WALL AS SHOWN.



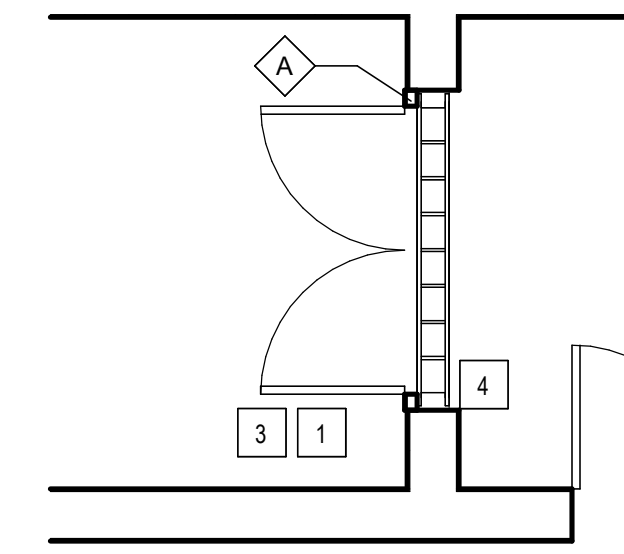
2 LEVEL 1 FLOOR PLAN
Scale: 1/16" = 1'-0"



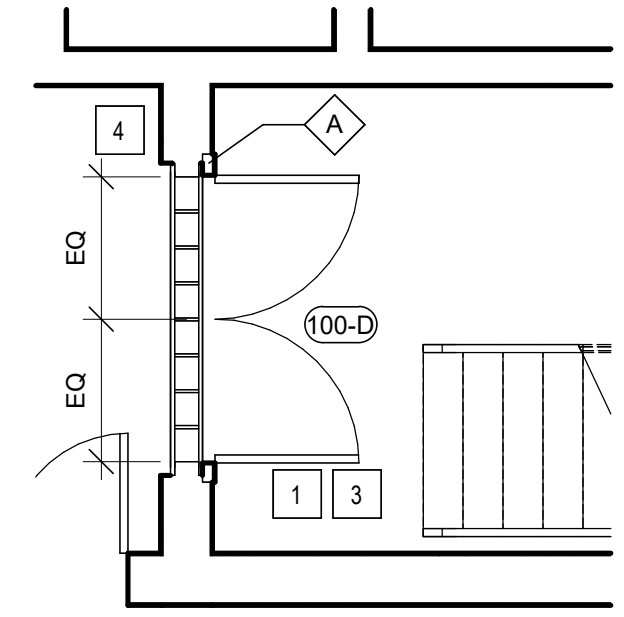
3 LEVEL 1 FLOOR PLAN - STAIR B
Scale: 1/4" = 1'-0"



5 LEVEL 1 FLOOR PLAN - STAIR C
Scale: 1/4" = 1'-0"



4 LEVEL 1 FLOOR PLAN - STAIR A
Scale: 1/4" = 1'-0"



6 LEVEL 1 FLOOR PLAN - STAIR D
Scale: 1/4" = 1'-0"

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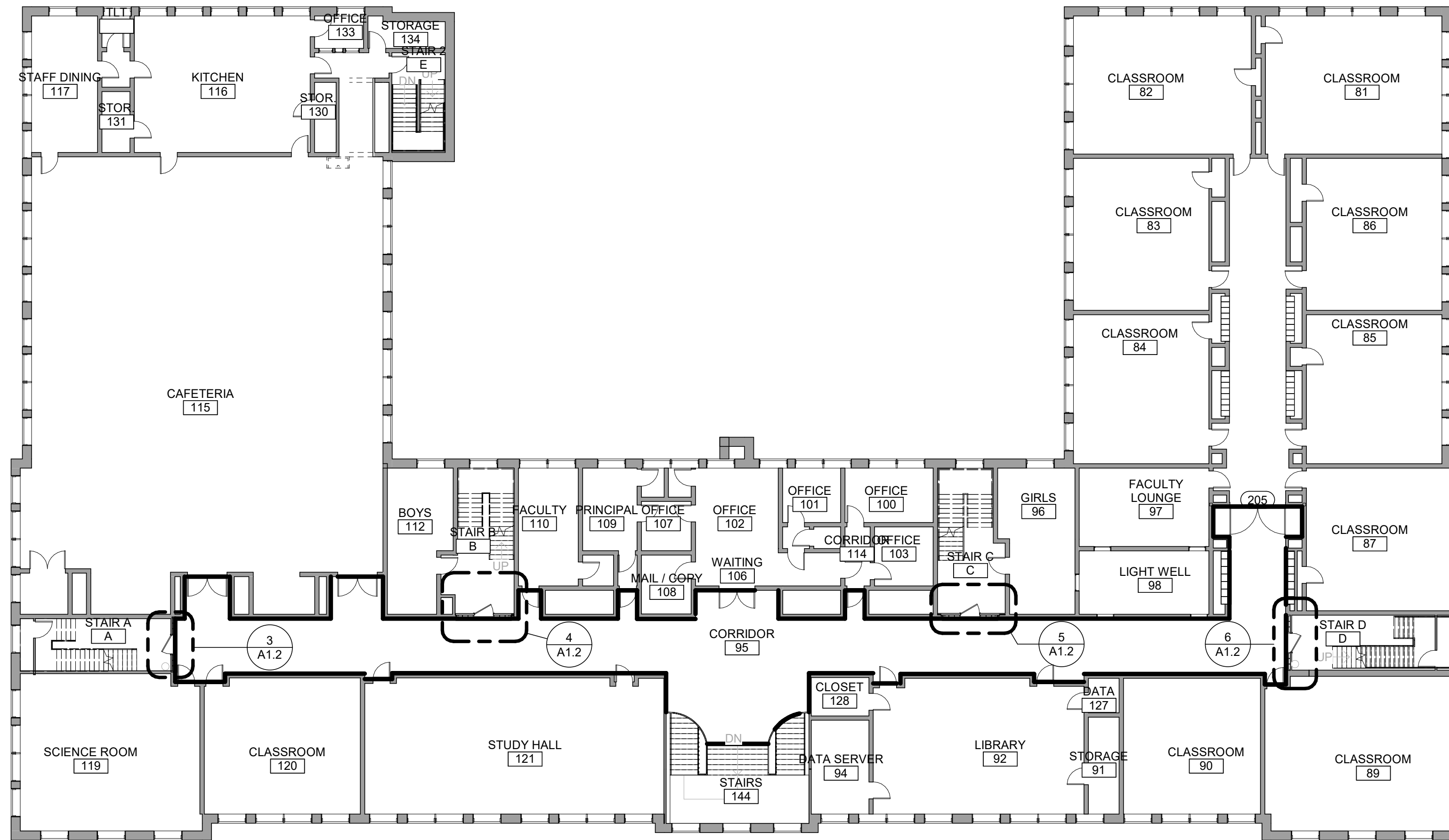


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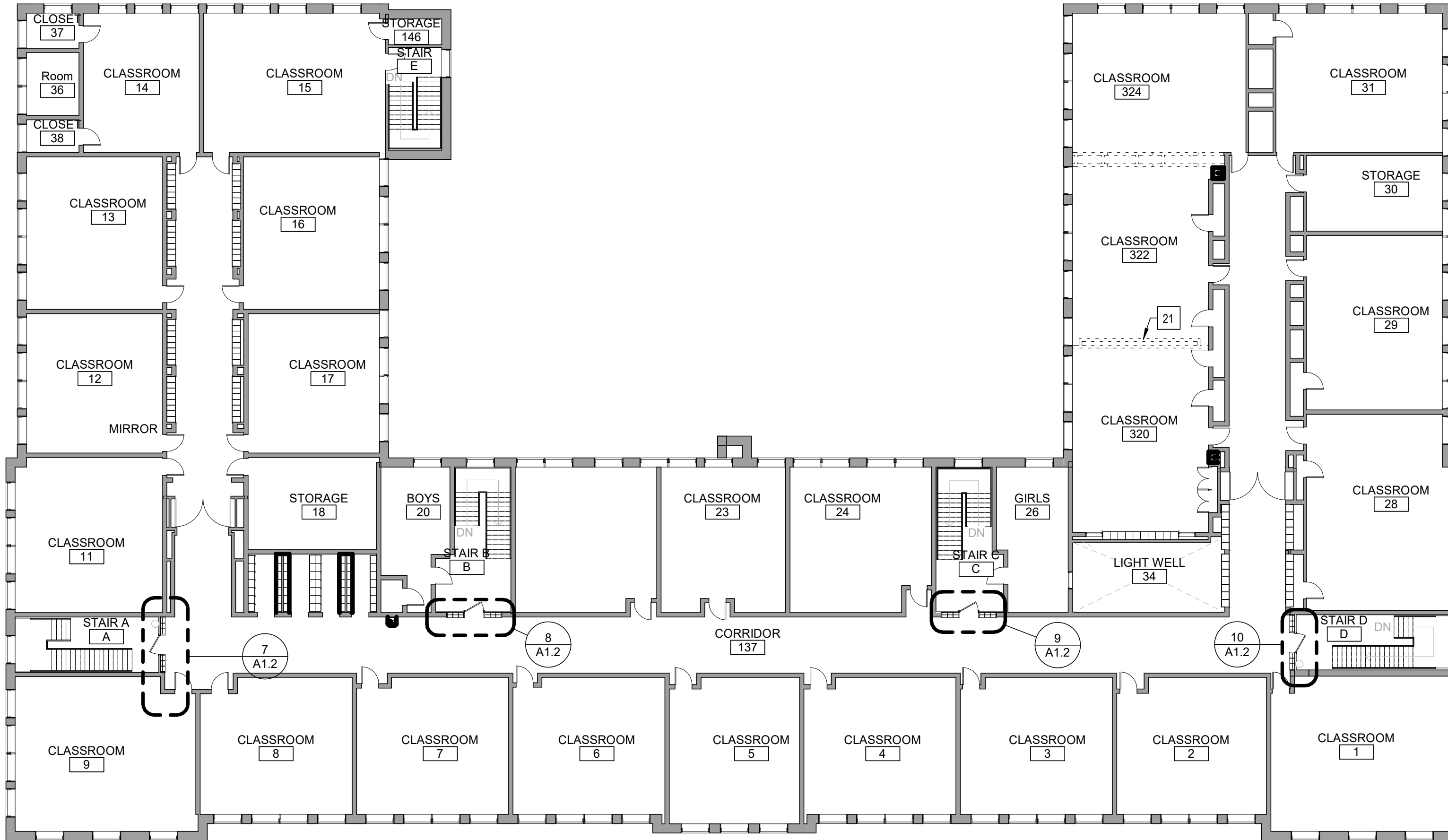
JOB NO.	DATE	
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SHEET TITLE
FIRST FLOOR PLAN

SHEET
A1.1

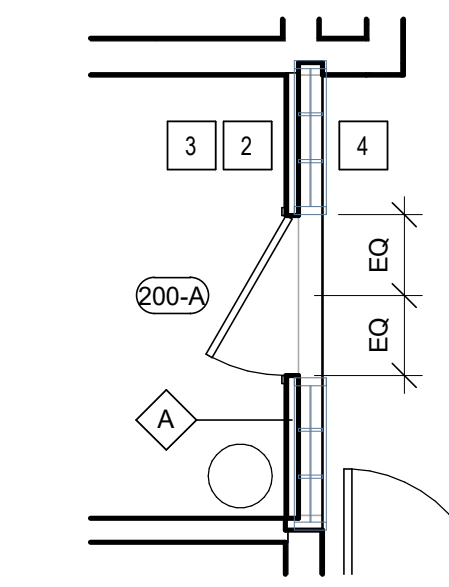


1 LEVEL 2 FLOOR PLAN
A1.2 Scale: 1/16" = 1'-0"

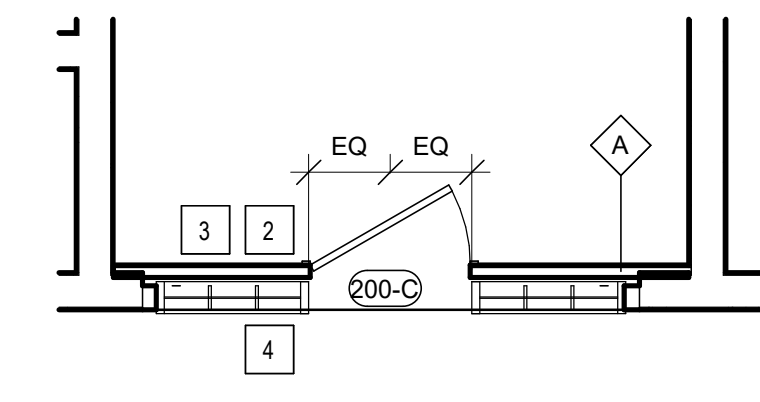


2 LEVEL 3 FLOOR PLAN
A1.2 Scale: 1/16" = 1'-0"

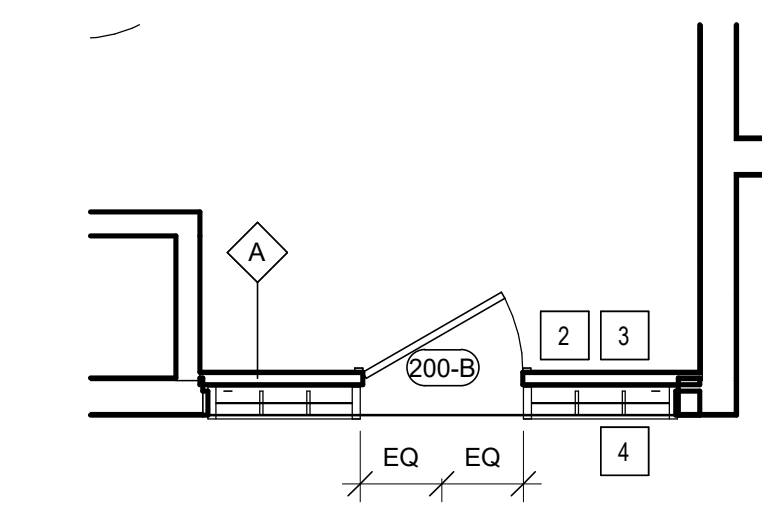
FLOOR PLAN KEY NOTES	
KEYNOTE NUMBER	DESCRIPTION
1	INSTALL DOUBLE DOORS WITH DOOR HARDWARE IN FIRE RATED WALL PER DOOR SCHEDULE. CAREFULLY ALIGN THE DOORS TO MATCH EX. OPENING IN EX. STOREFRONT WALL.
2	INSTALL SINGLE DOOR IN FIRE RATED WALL. CAREFULLY ALIGN THE DOORS TO MATCH EX. OPENING IN EX. STOREFRONT WALL.
3	REINSTALL EXISTING AVIT, FIRE ALARM EQUIPMENT FOR TO MEP DWGS FOR LOCATION.
4	APPLY FILM ON GLASS PANELS OF EX. STOREFRONT ON THE CORRIDOR SIDE. INSTALL 1-HR RATED WALLS SHOWN.



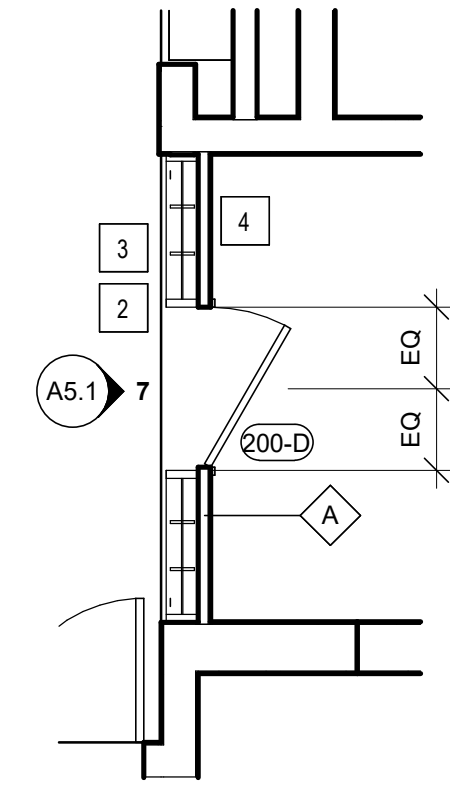
3 LEVEL 2 FLOOR PLAN -STAIR A
1/4" = 1'-0"



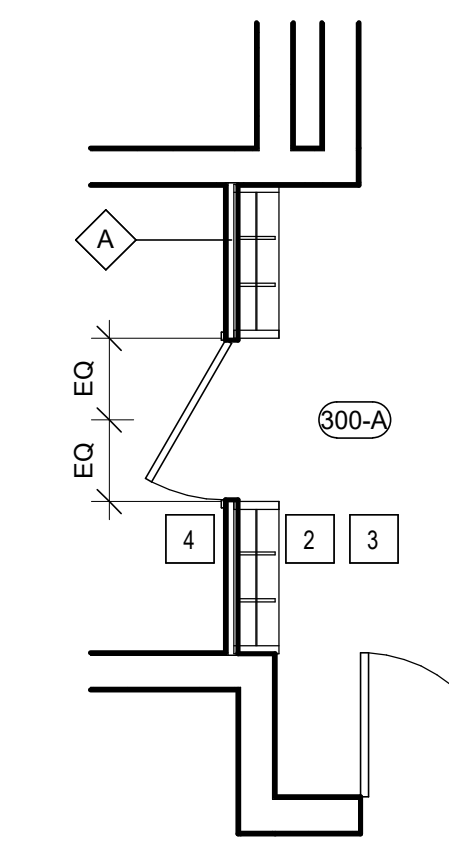
5 LEVEL 2 FLOOR PLAN -STAIR C
1/4" = 1'-0"



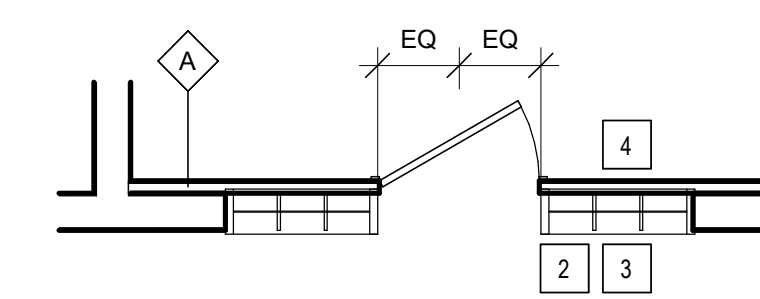
4 LEVEL 2 FLOOR PLAN -STAIR B
1/4" = 1'-0"



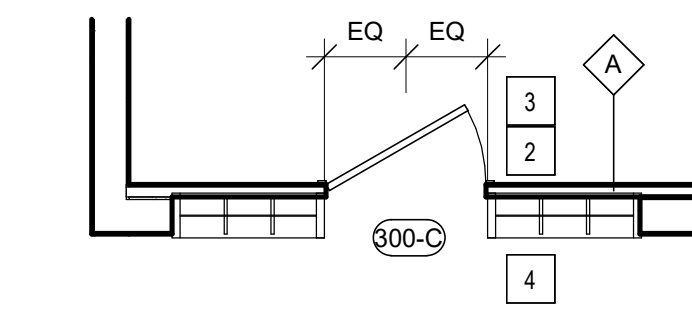
6 LEVEL 2 FLOOR PLAN -STAIR D
1/4" = 1'-0"



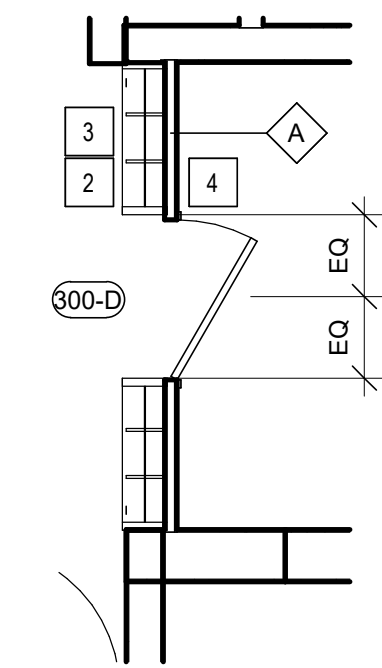
7 LEVEL 3 FLOOR PLAN -STAIR A
1/4" = 1'-0"



8 LEVEL 3 FLOOR PLAN -STAIR B
1/4" = 1'-0"



9 LEVEL 3 FLOOR PLAN -STAIR C
1/4" = 1'-0"



10 LEVEL 3 FLOOR PLAN -STAIR D
1/4" = 1'-0"

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974 Newport Ave., Pawtucket, RI 02861

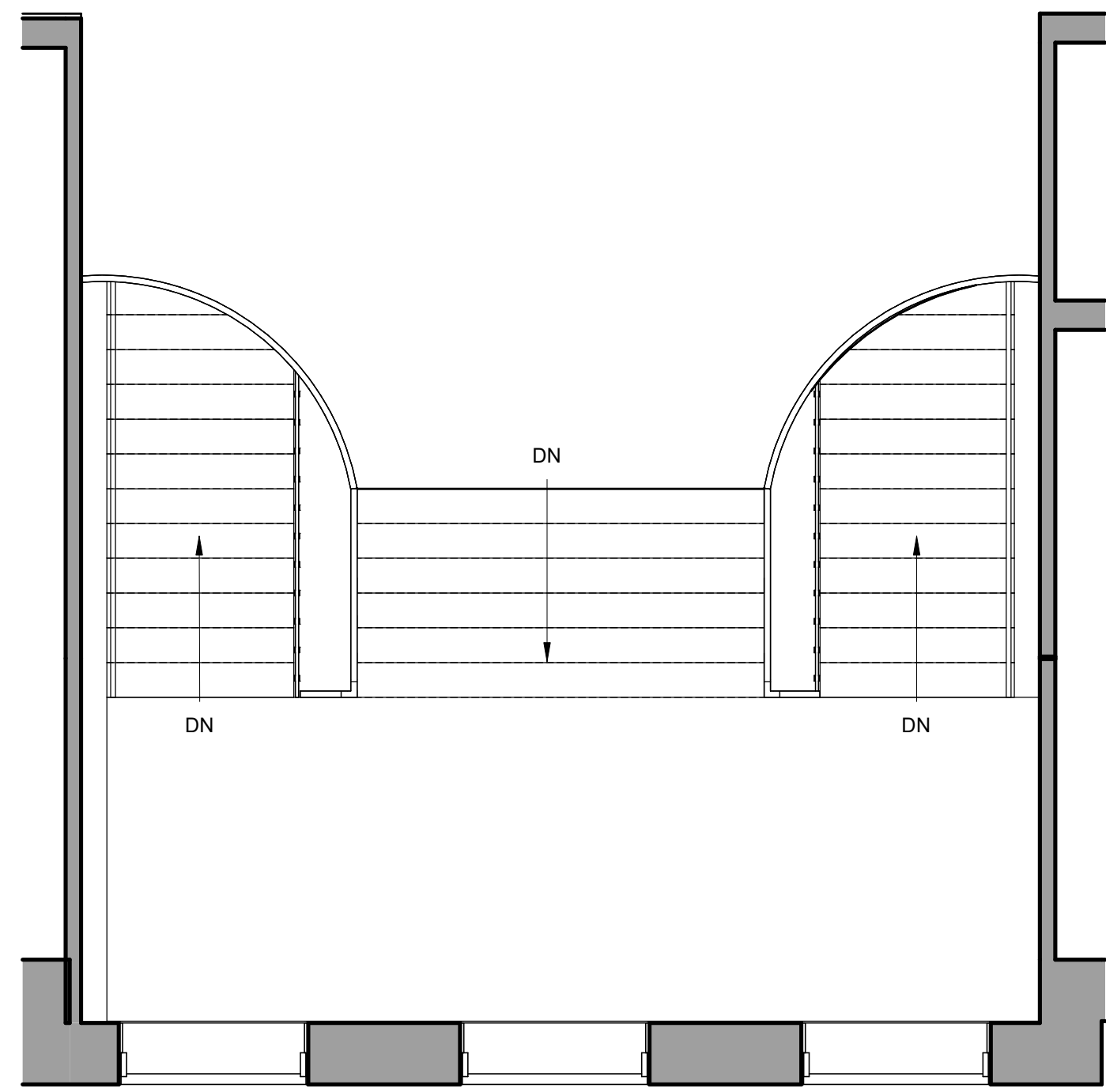
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SHEET TITLE
SECOND & THIRD FLOOR PLAN

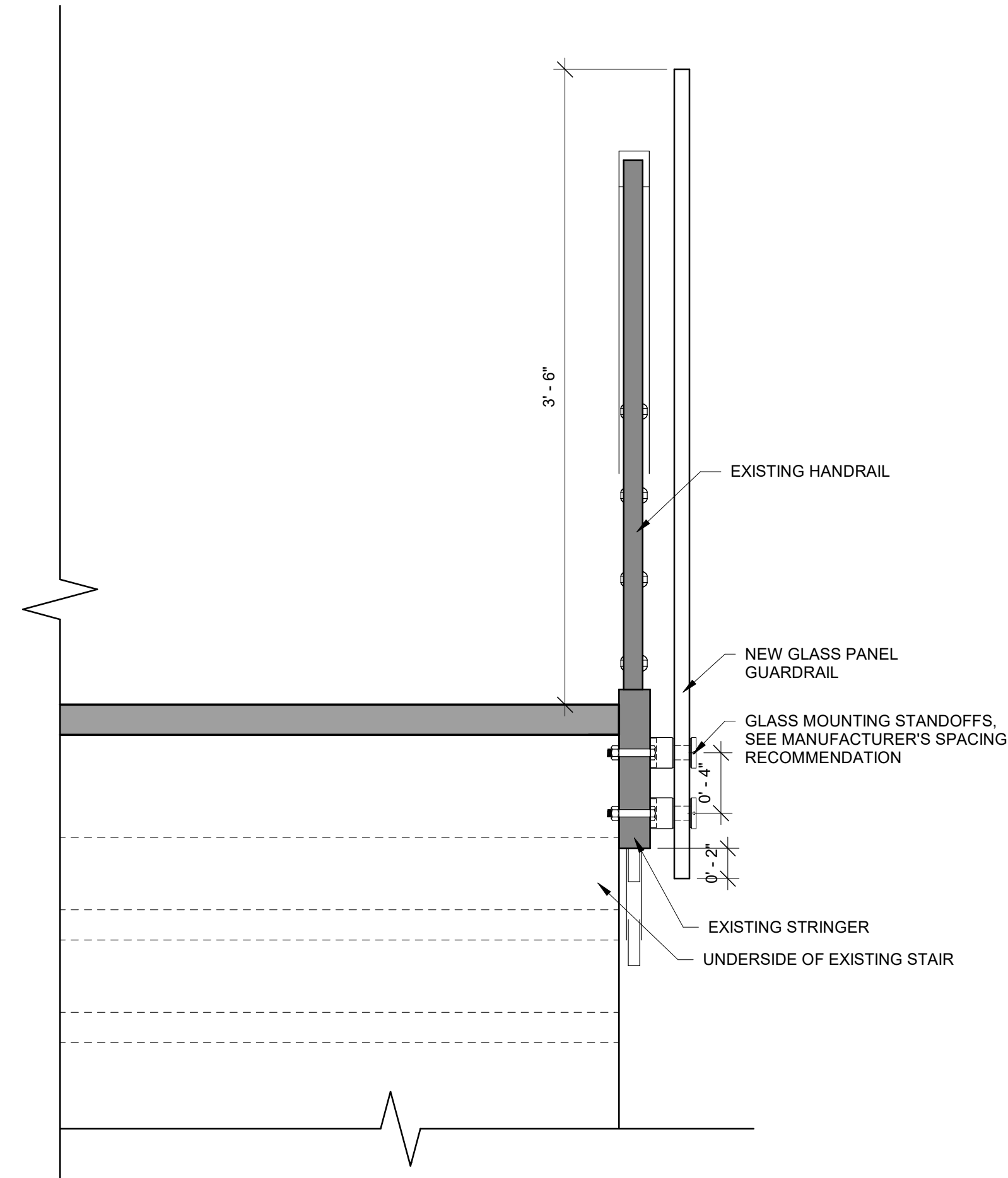
SHEET
A1.2



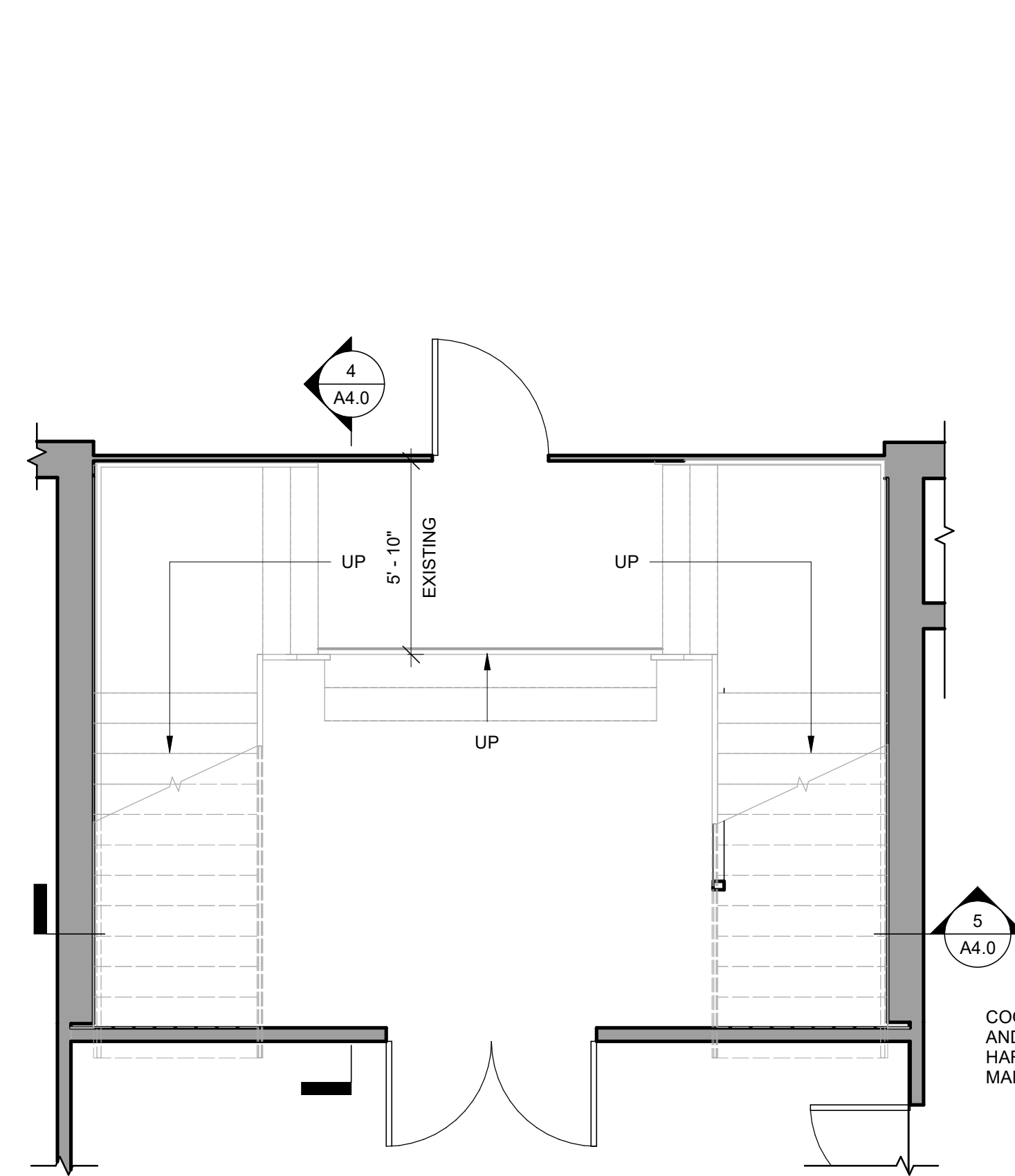
1 LEVEL 2 ENLARGED ENTRY STAIR PLAN
Scale: 1/4" = 1'-0"



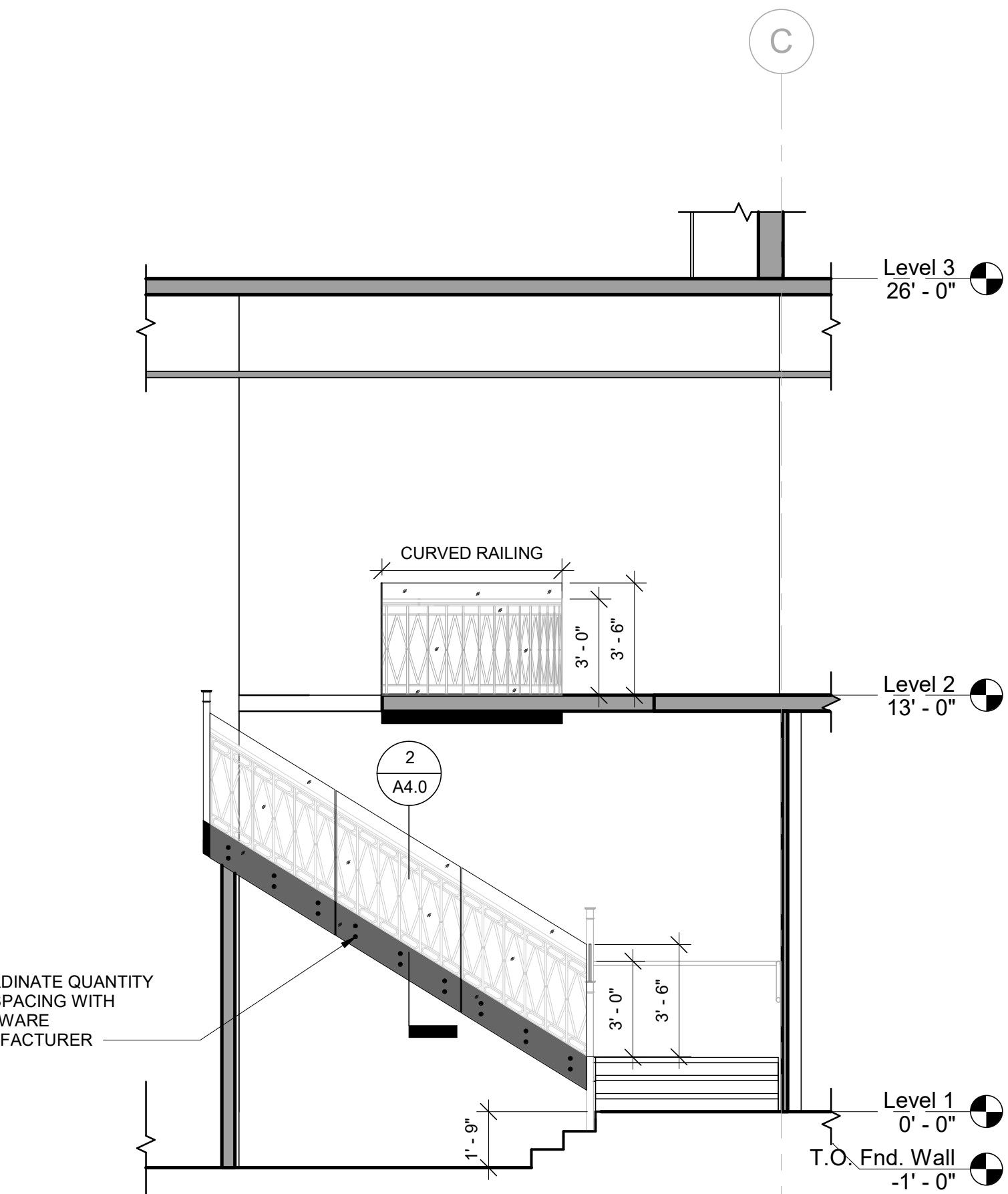
EXISTING SECOND FLOOR RAILING



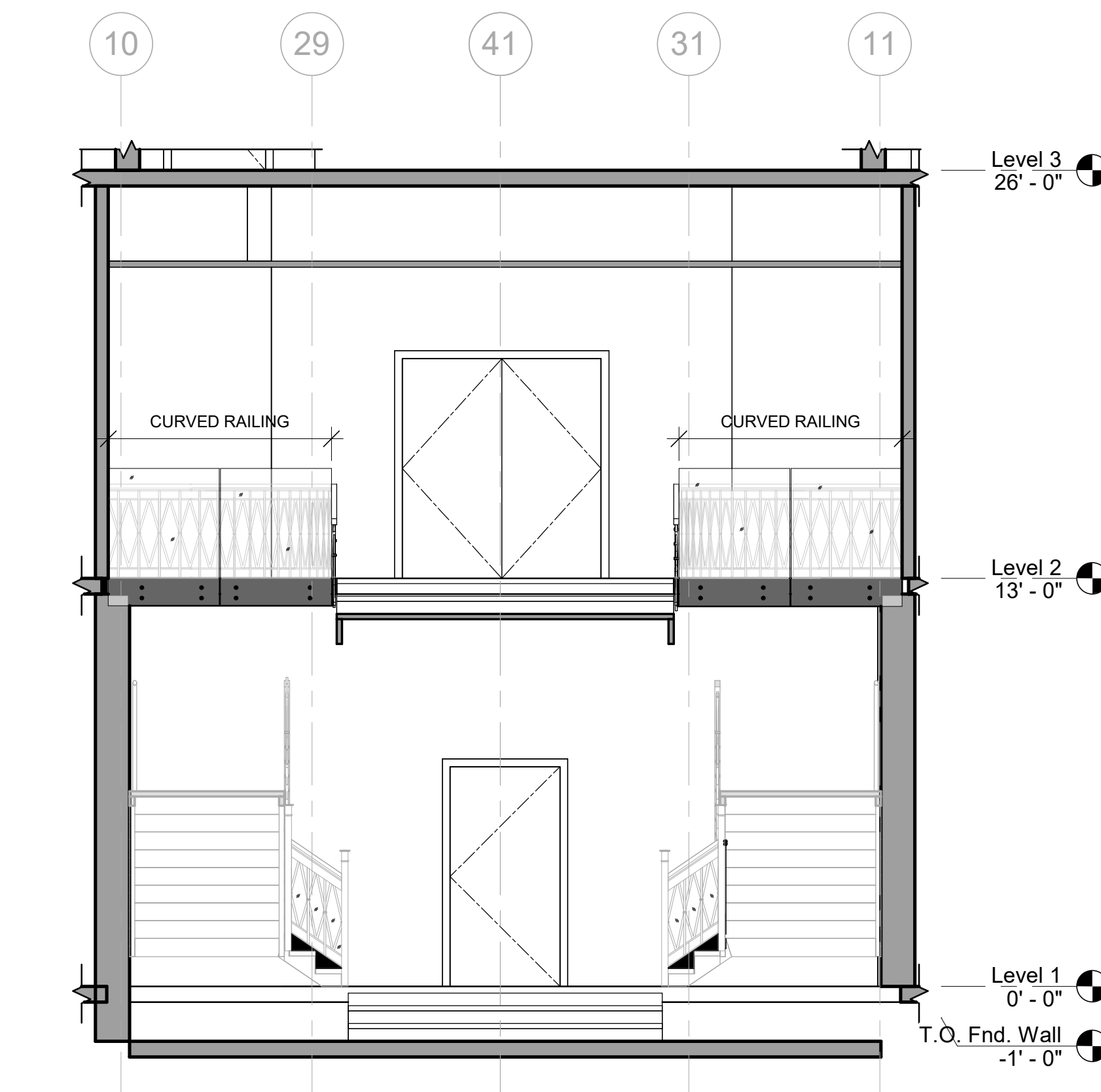
2 PANEL MOUNTING DETAIL
Scale: 1 1/2" = 1'-0"



3 LEVEL 1 ENLARGED ENTRY STAIR PLAN
Scale: 1/4" = 1'-0"



4 ENTRY STAIRWELL SECTION LOOKING SOUTH
Scale: 1/4" = 1'-0"



5 ENTRY STAIRWELL SECTION LOOKING WEST
Scale: 1/4" = 1'-0"

FIRE CODE UPGRADES TO THE
LYMAN B. GOFF MIDDLE SCHOOL
974 Newport Ave., Pawtucket, RI 02861

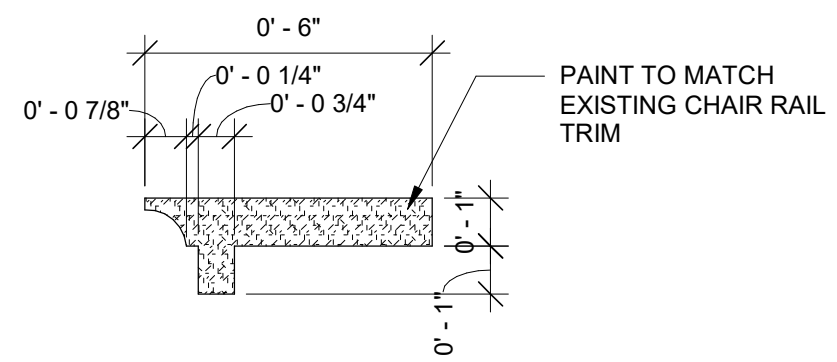
**BREWSTER
THORNTON
GROUP
ARCHITECTS**
LLP

317 Iron Horse Way,
Suite 202
Providence, RI 02908
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JOB NO. 2144	DATE 11/25/24	
ISSUE : PRICING SET		
NO.	REVISION DESCRIPTION	DATE

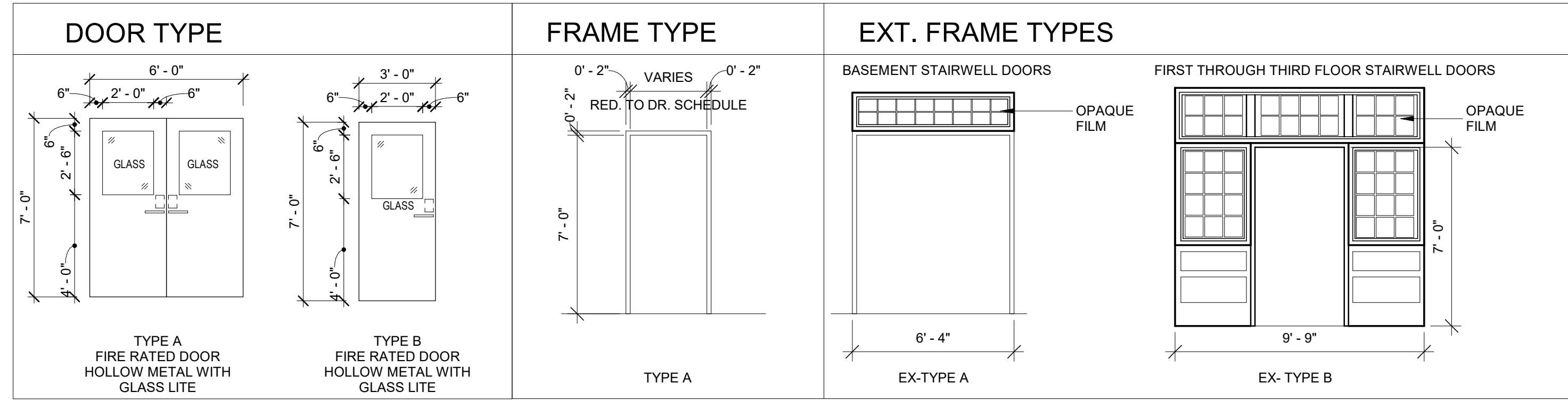
SHEET TITLE
**ENLARGED
ENTRY STAIRS
RAILING**

SHEET
A4.0



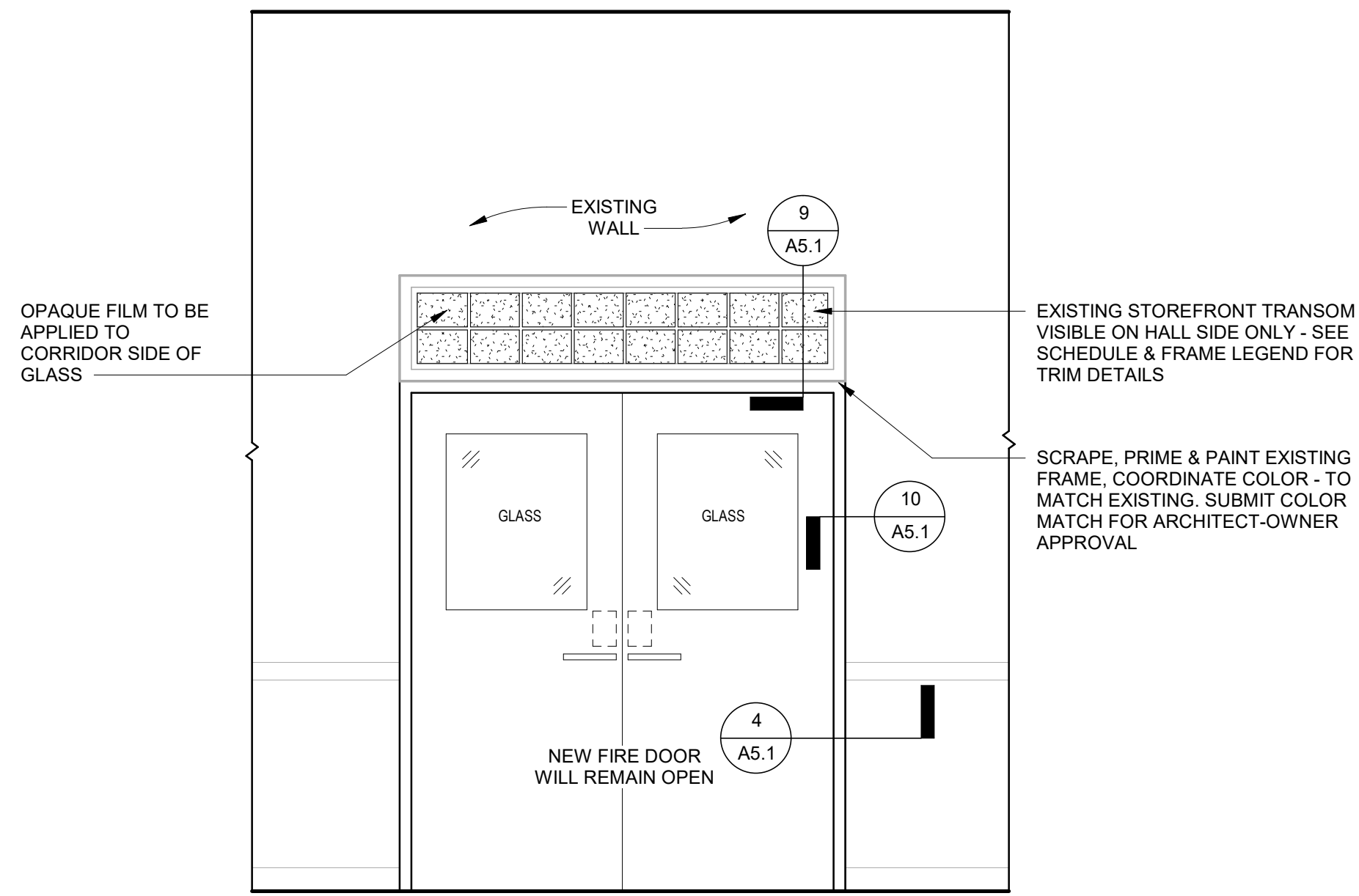
11 WOOD CAP DETAIL
3" = 1'-0"

DOOR SCHEDULE										
Mark	Door Type	Material	Door Width	Height	Thickness	Fire Rating	NEW FRAME TYPE	Head	Jamb	Comments
100-A	A	PNT HM/GLASS	6'-0"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
100-B	A	PNT HM/GLASS	6'-0"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
100-C	A	PNT HM/GLASS	6'-0"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
100-D	A	PNT HM/GLASS	6'-0"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
200-A	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
200-B	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
200-C	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
200-D	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
300-A	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
300-B	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
300-C	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	
300-D	B	PNT HM/GLASS	3'-4"	7'-0"	1 3/4"	60 MIN.	TYPE A	2/A5.1	3/A5.1	

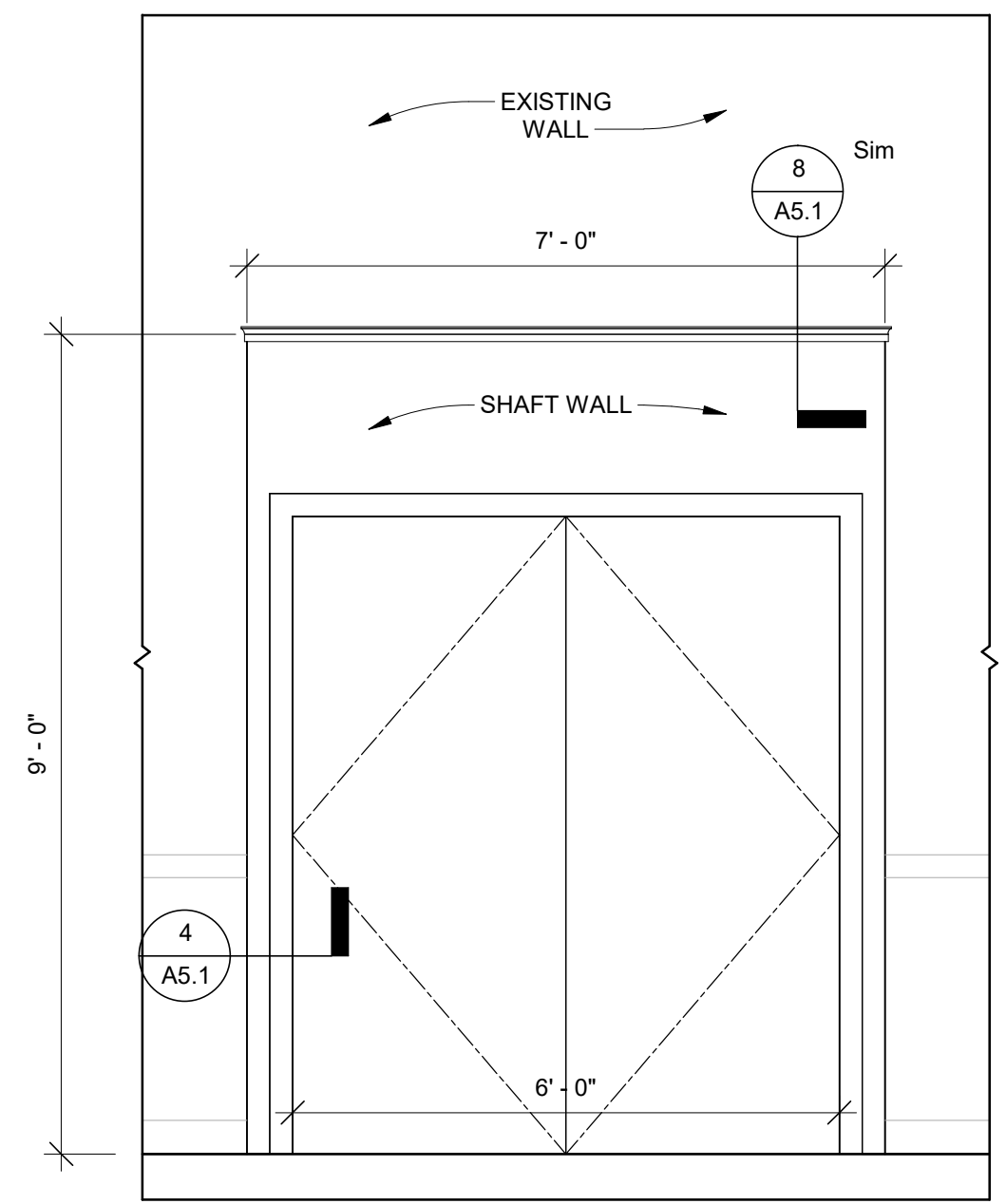


NOTE: FIELD VERIFY DOOR OPENINGS W/ EX. DOOR OPENING IN WEX. WOOD STOREFRONT

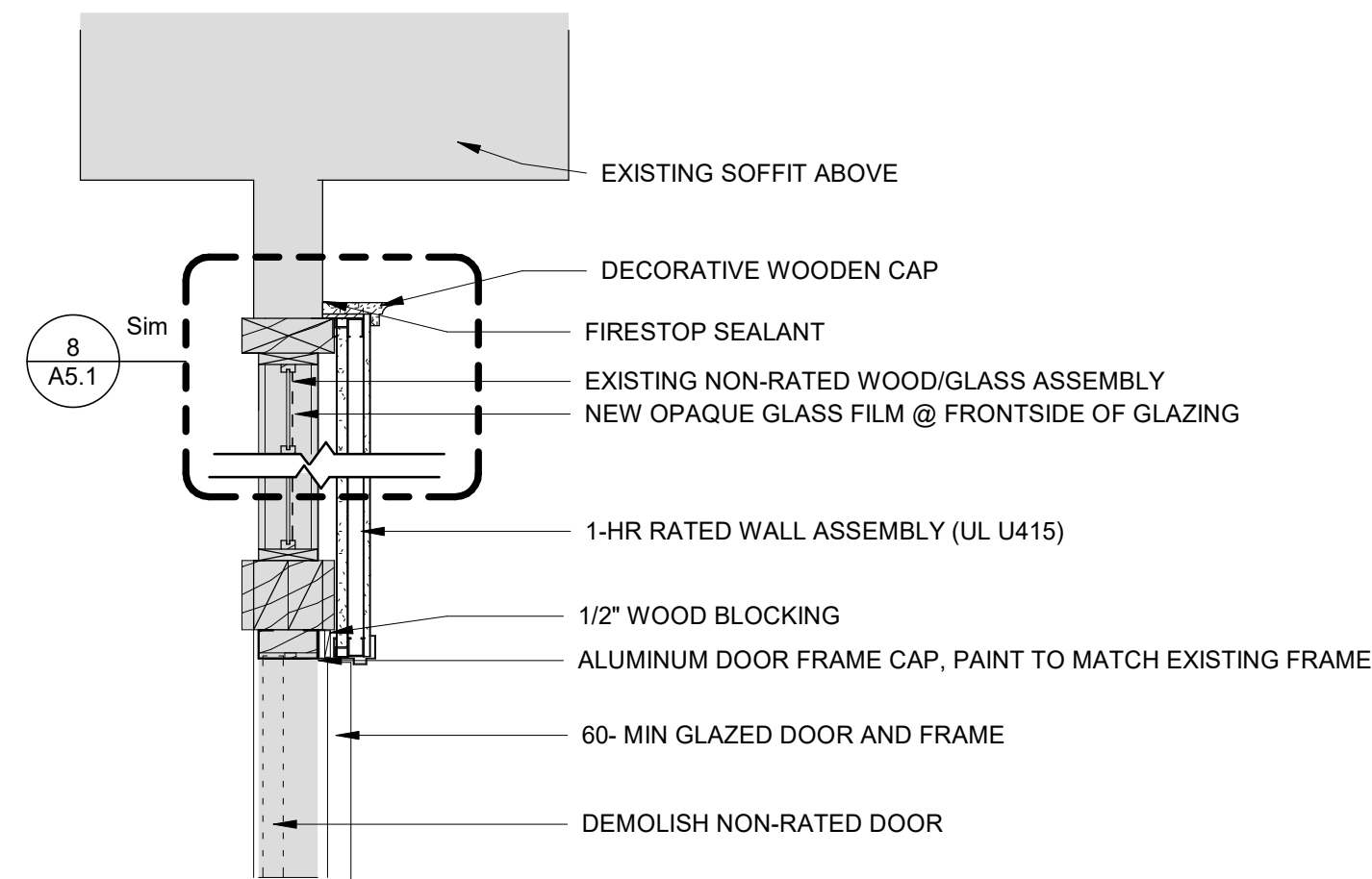
TYPE 1:
LOCKSET- ALLEGION - SCHLAGE L SERIES - CLASSROOM FUNCTION
PANIC HARDWARE- ALLEGION - VON DURPIN 99 SERIES RIM EXIT DEVICE
HINGES- ALLEGION - SCHLAGE- HEAVY DUTY HINGES
DOOR CLOSER- ALLEGION - LCN- 4041



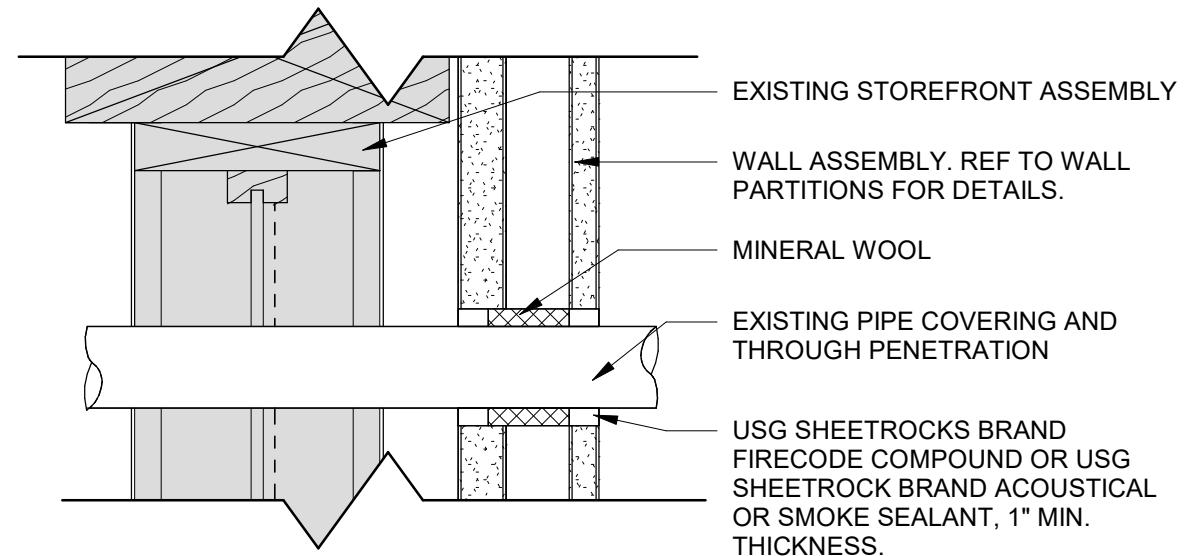
6 FIRE RATED EGRESS STAIR DOOR - FLOOR 1
Scale: 1/2" = 1'-0"



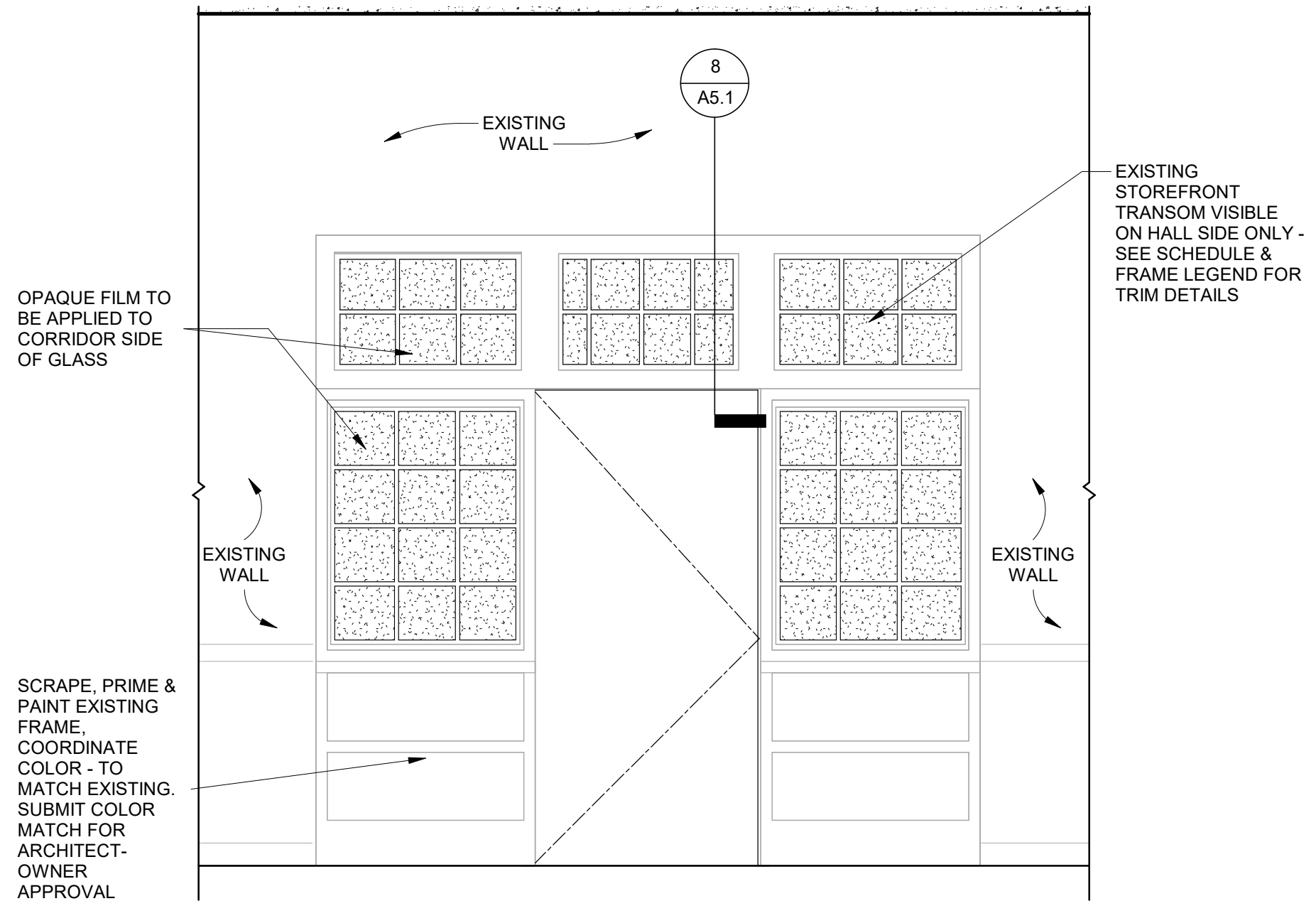
3 STAIRWELL SIDE- FIRE RATED EGRESS DOOR - FLOOR 1
Scale: 1/2" = 1'-0"



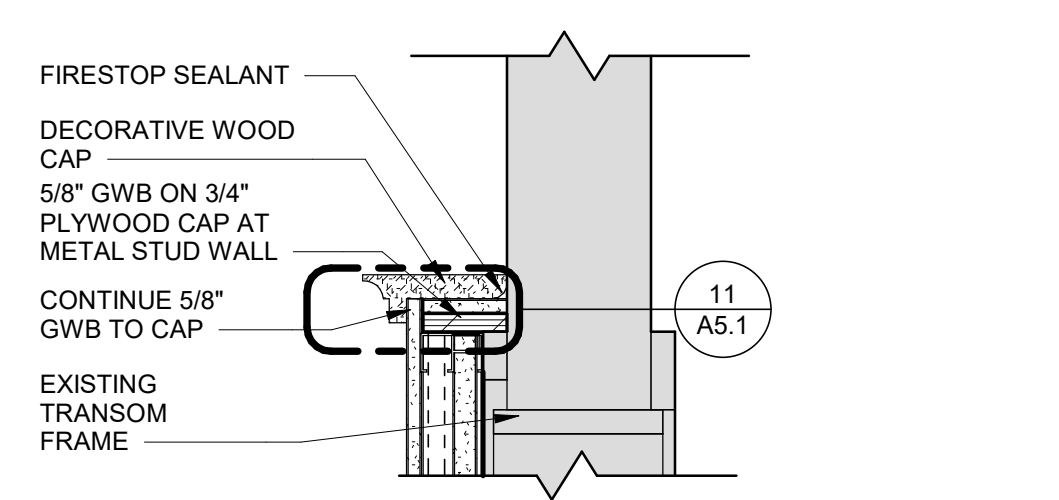
9 HEAD DETAIL @ GOFF STOREFRONT
Scale: 3/4" = 1'-0"



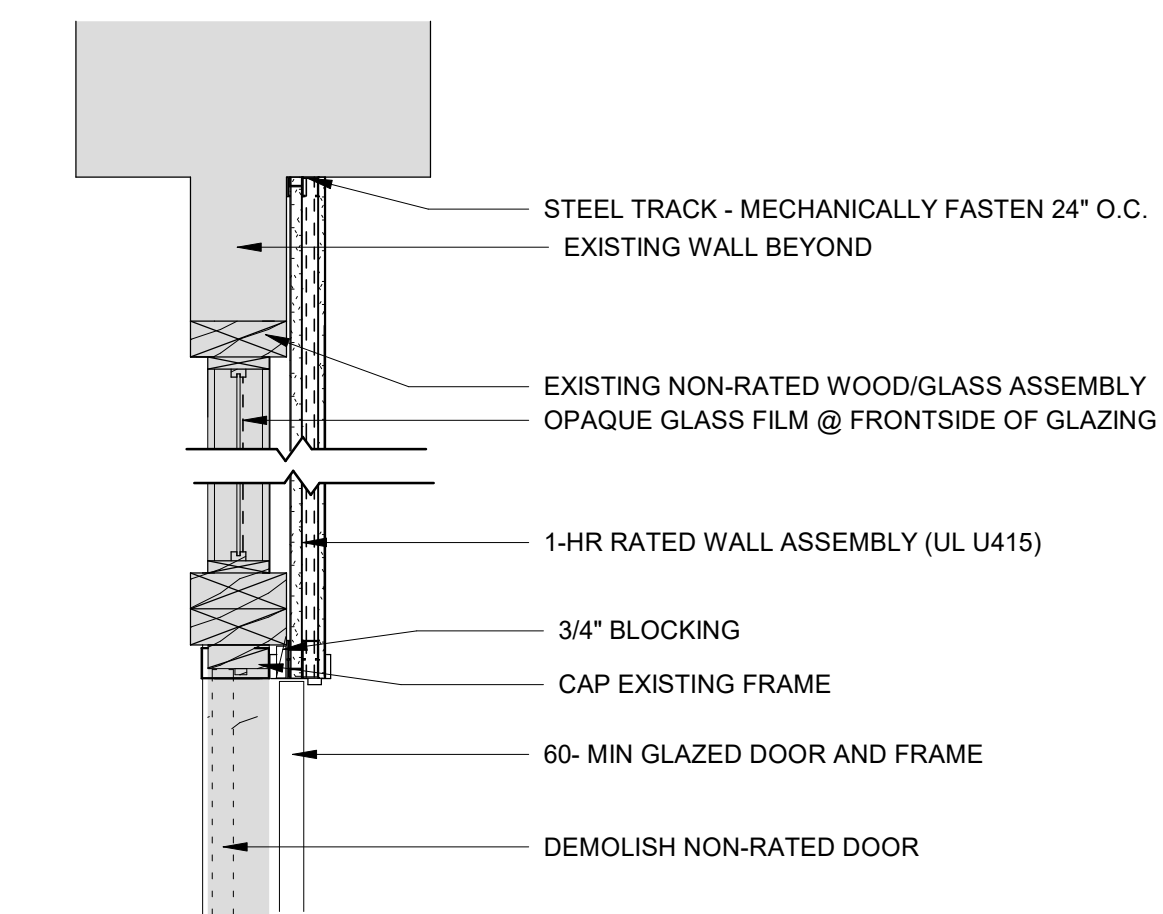
1 TYP. RATED PIPE PENETRATION THROUGH EXT. STOREFRONT
Scale: 3" = 1'-0"



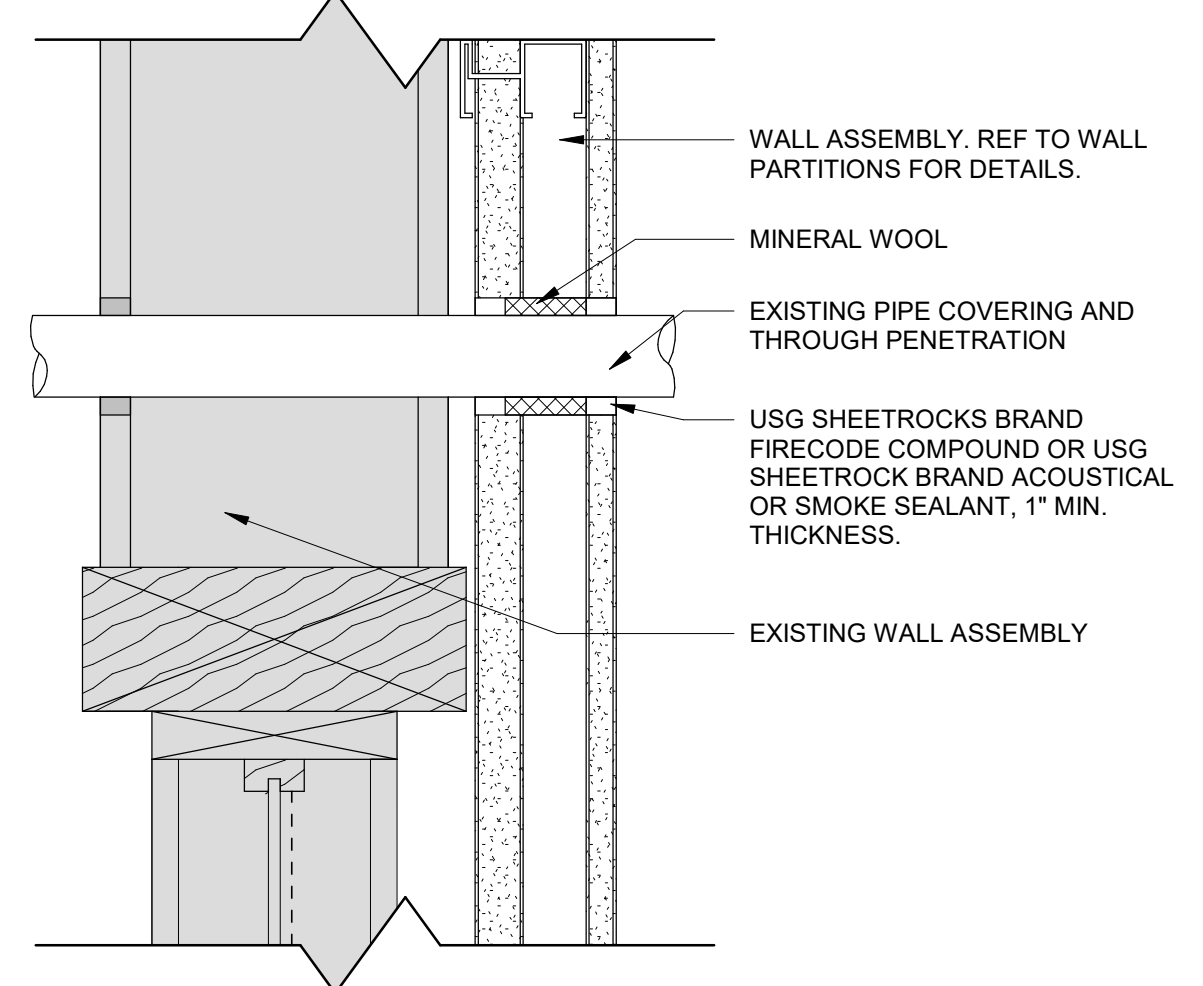
7 FIRE RATED EGRESS STAIR DOOR - FLOORS 2 & 3
Scale: 1/2" = 1'-0"



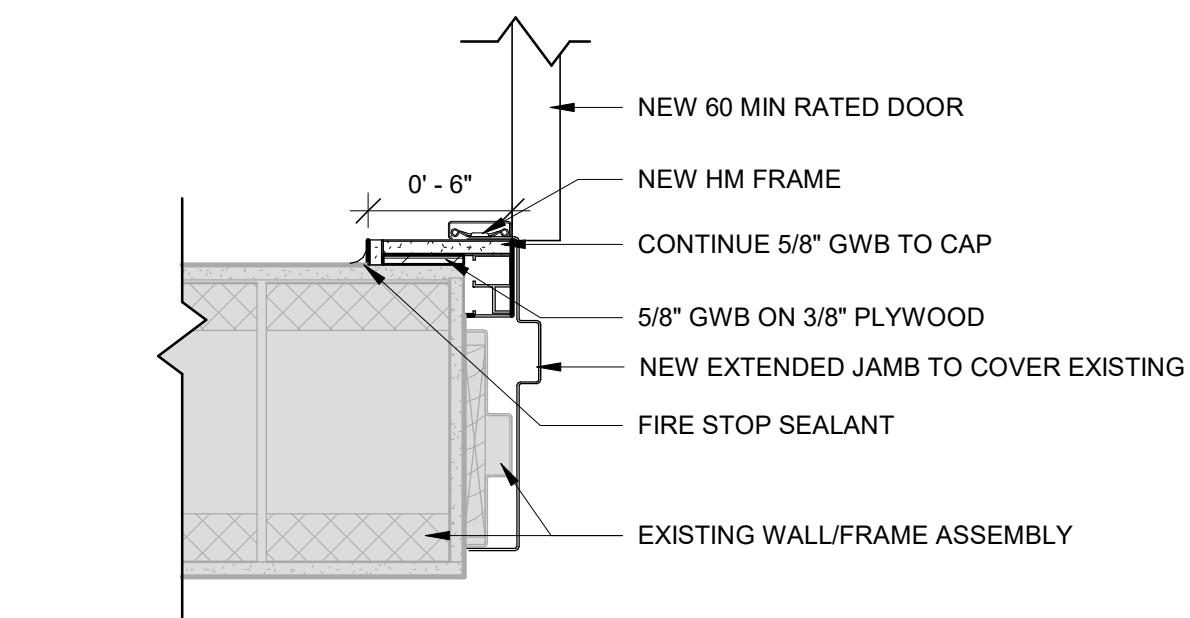
8 WALL TRANSITION DETAIL @ EGRESS DOOR
Scale: 1 1/2" = 1'-0"



10 JAMB DETAIL @ GOFF STOREFRONT
Scale: 3/4" = 1'-0"



2 TYP. RATED PENETRATION THROUGH NEW SHAFT WALL
Scale: 3" = 1'-0"



4 WALL TRANSITION DETAIL @ FIRST FLOOR DOOR JAMB
Scale: 1 1/2" = 1'-0"



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JOB NO. 2144	DATE 11/25/24	
ISSUE : PRICING SET		
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE
DETAILS, DOOR TYPES, FRAMES, & SCHEDULE

SHEET
A5.1



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JOB NO. **24114** DATE **11.25.24**
ISSUE: RIDE REVIEW

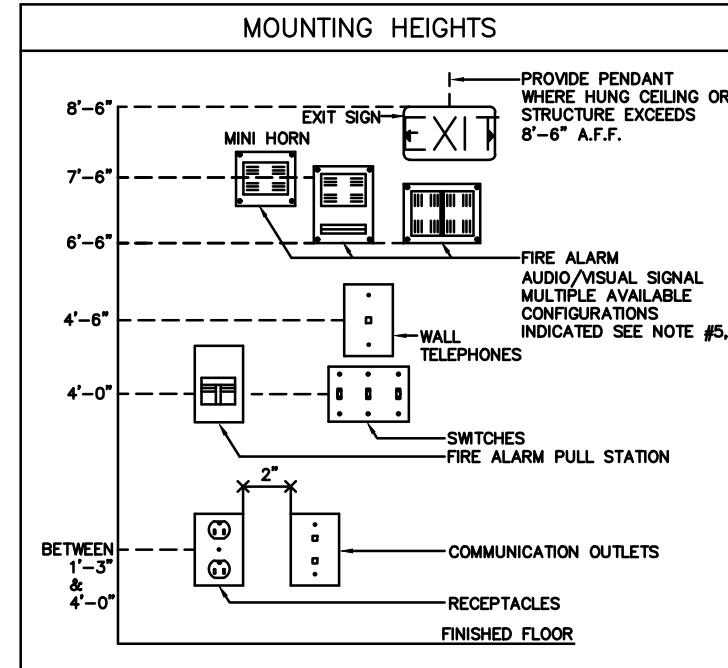
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE
ELECTRICAL SYMBOL LEGEND AND NOTES

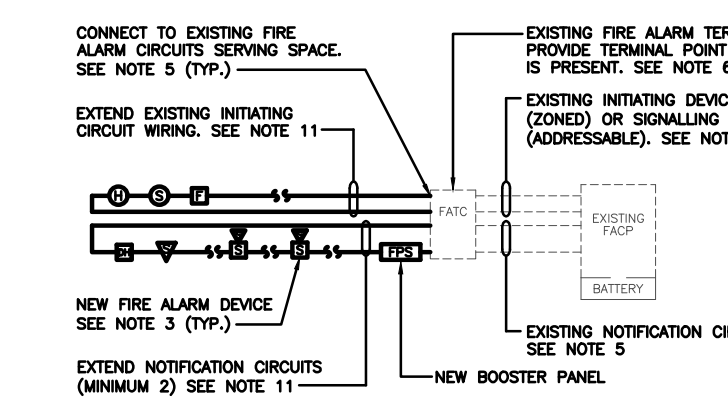
SHEET
E0.0



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- NOTES**
- 1) ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS.
 - 2) DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
 - 3) ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.
 - 4) REFER TO THE ARCHITECT'S ELEVATION DETAILS FOR EXACT HEIGHT AND LENGTH OF SURFACE RAKEWAYS.
 - 5) WALL MOUNTED VISUAL APPLIANCE THE ENTIRE LENS OF A/V SIGNAL OR VISUAL-ONLY SIGNAL IS NOT LESS THAN 80" AND NOT GREATER THAN 86" A.F.F. CONTRACTOR SHALL CONTACT ENGINEER FOR PERFORMANCE BASED ALTERNATIVE (NEPA 72.7.5.4.5) IF REQUIRED DUE TO CEILING HEIGHTS.
 - 6) ALL LOAD CENTERS LOCATED WITHIN GROUP 1 & GROUP 2 UNITS SHALL BE MOUNTED WITH BREAKER A MAXIMUM OF 54" A.F.F. AND 18" FROM INTERIOR CORNER.
 - 7) ALL WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 80" (7'2") AND BELOW THE FINISHED CEILING AT DISTANCES NOT LESS THAN 6".



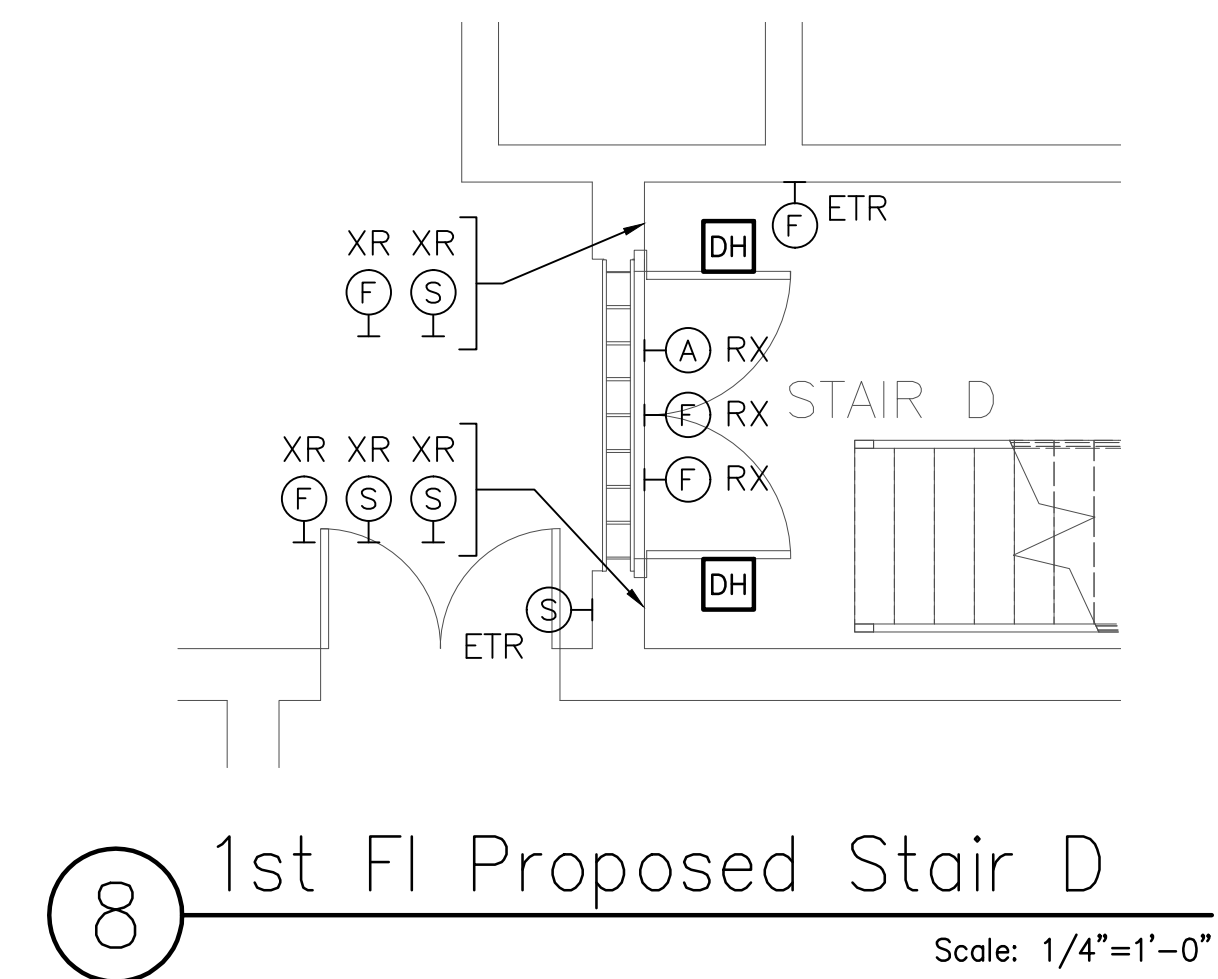
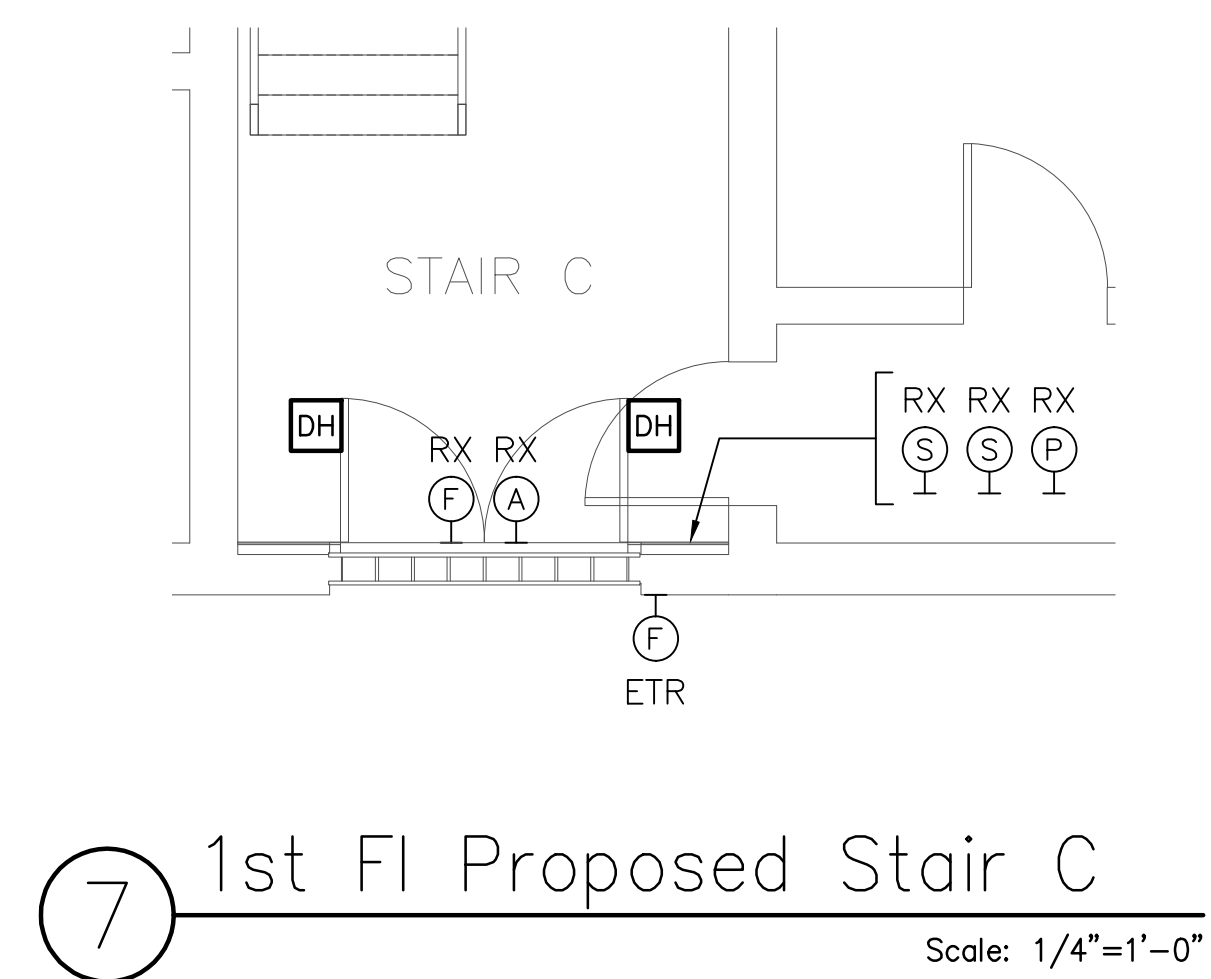
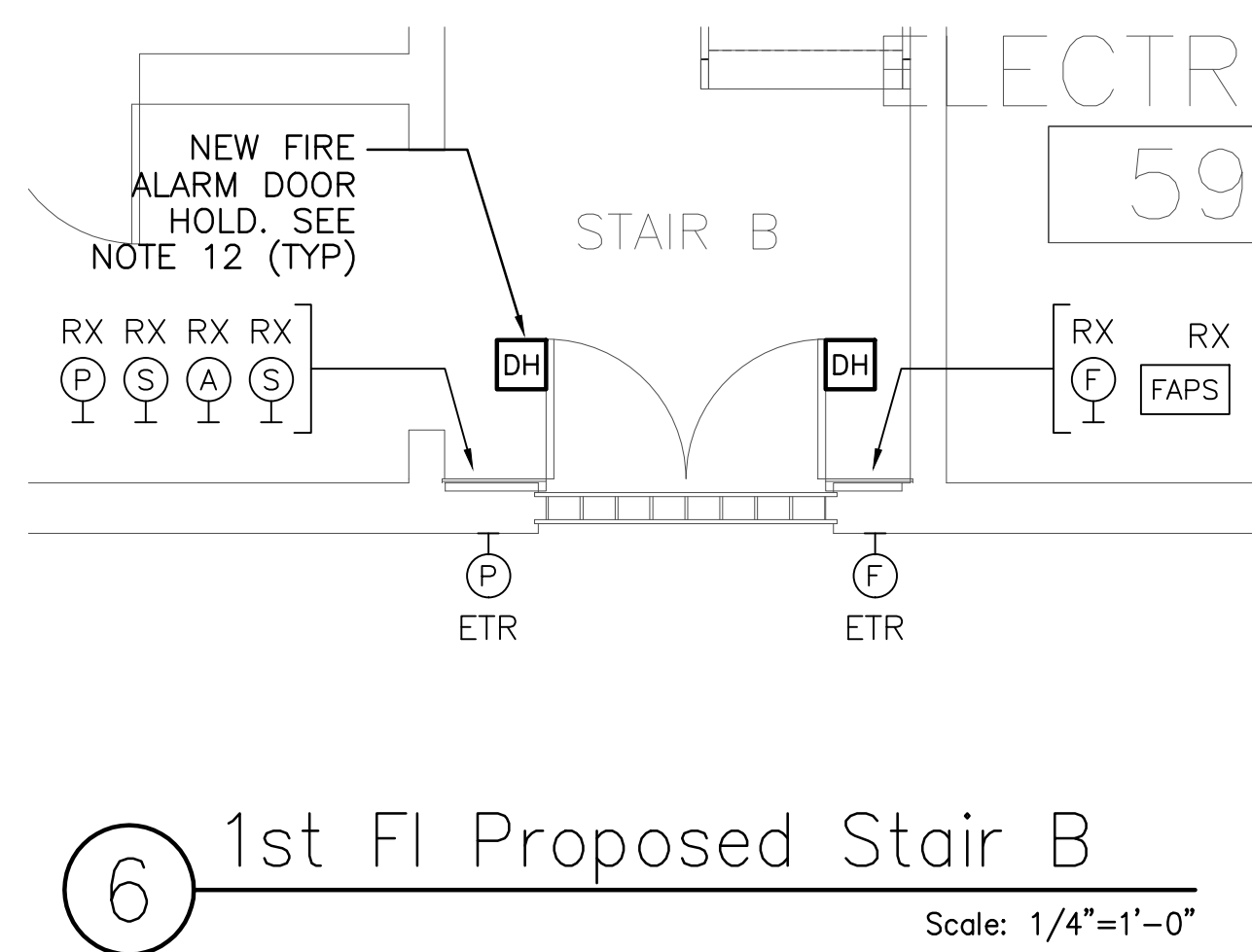
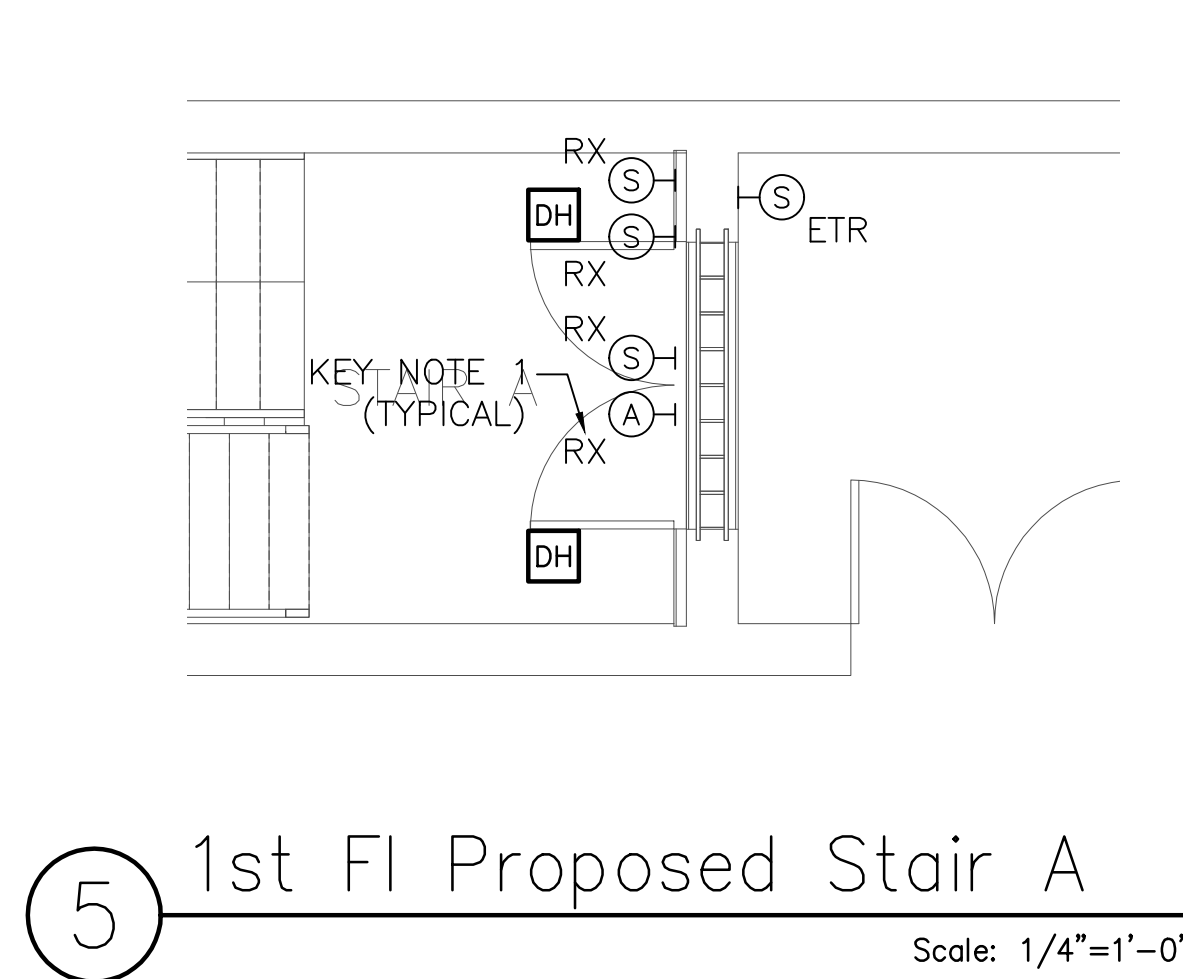
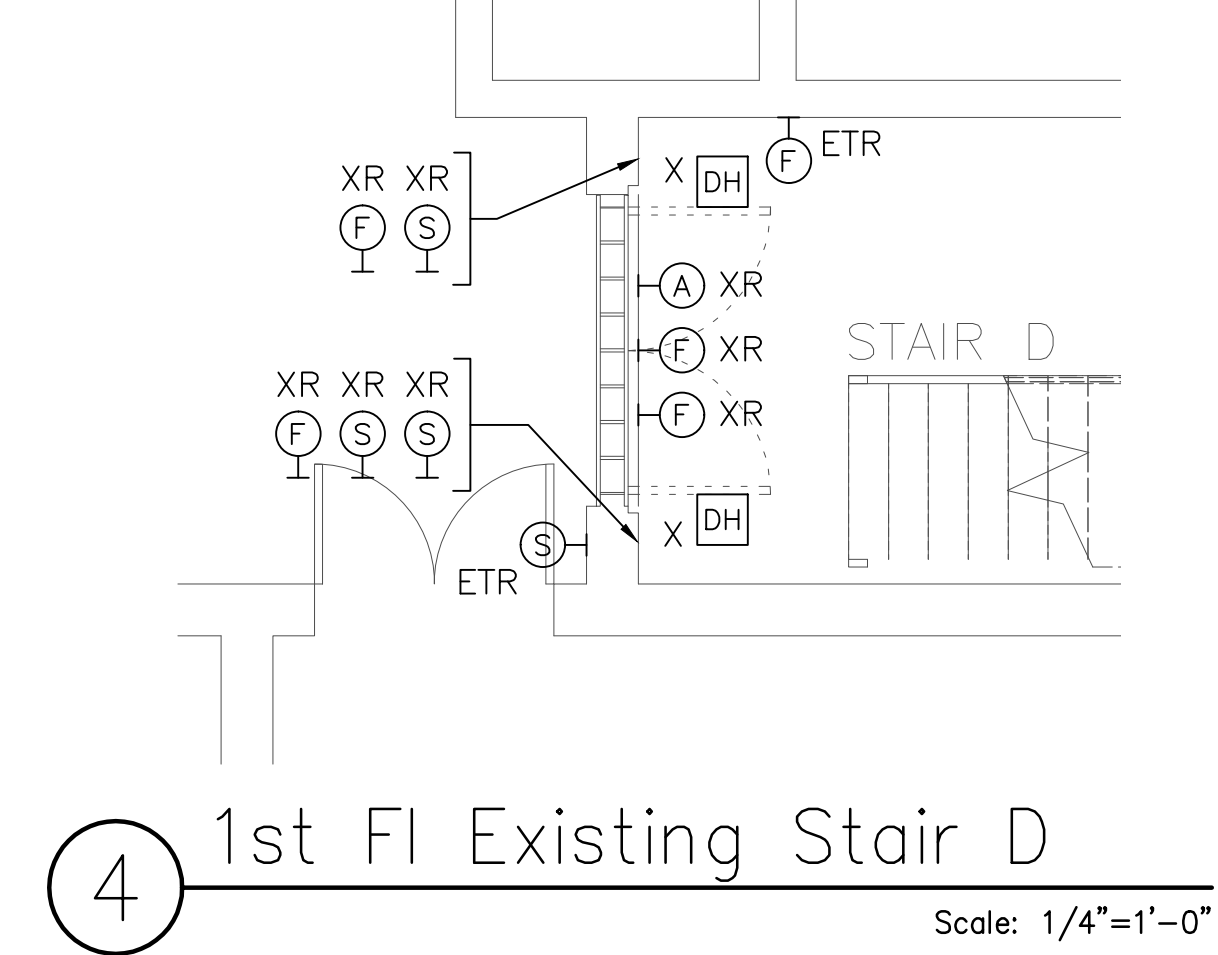
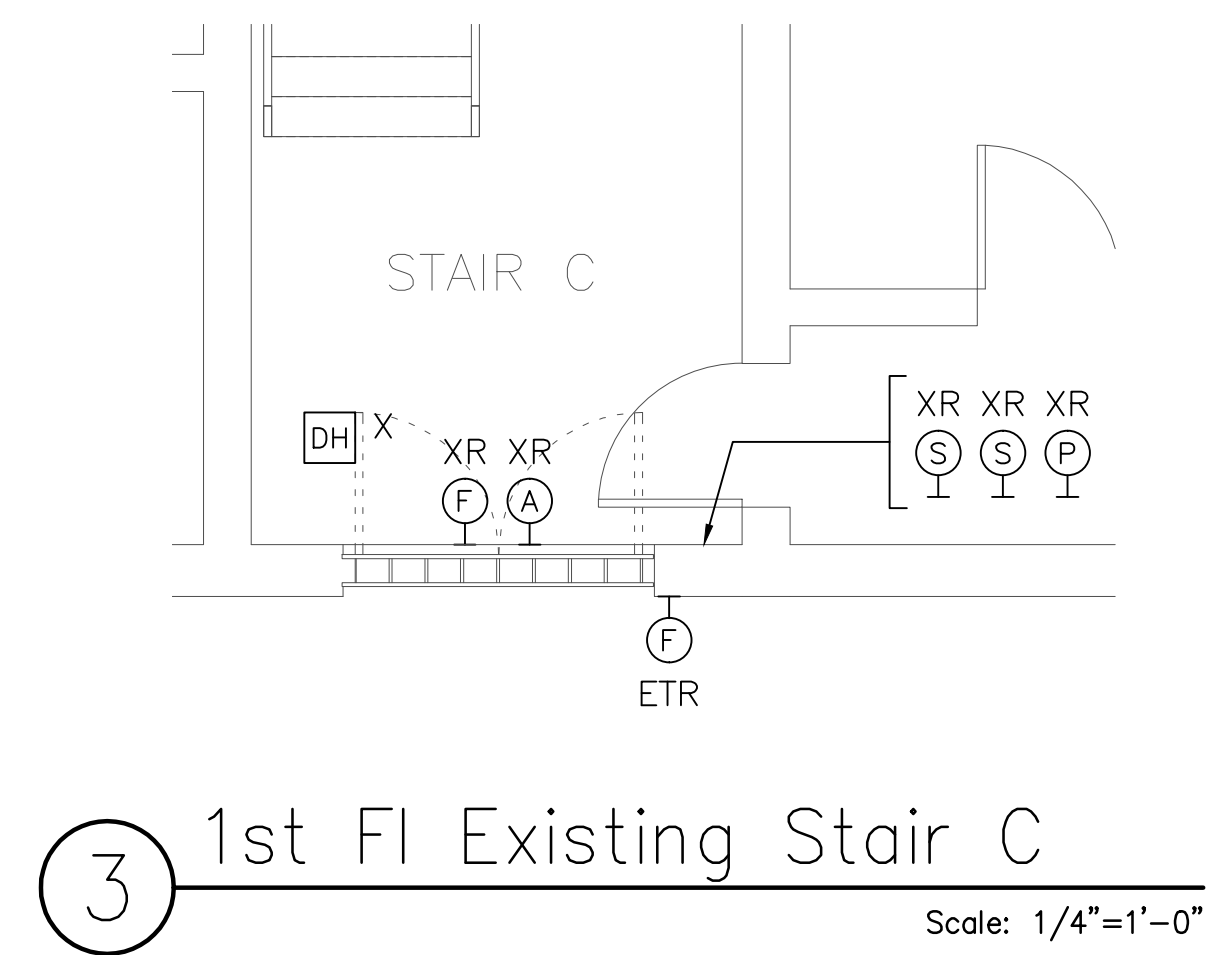
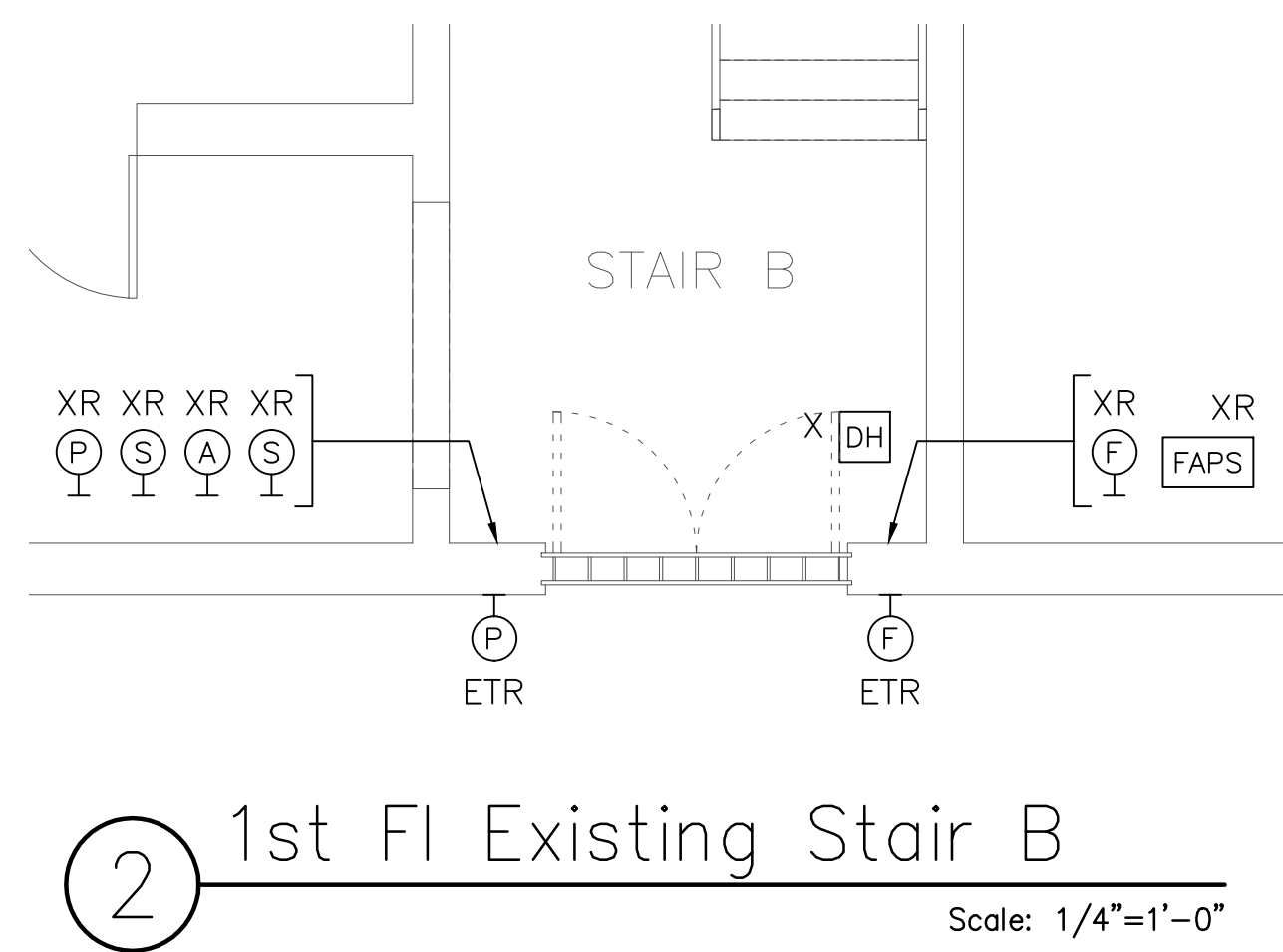
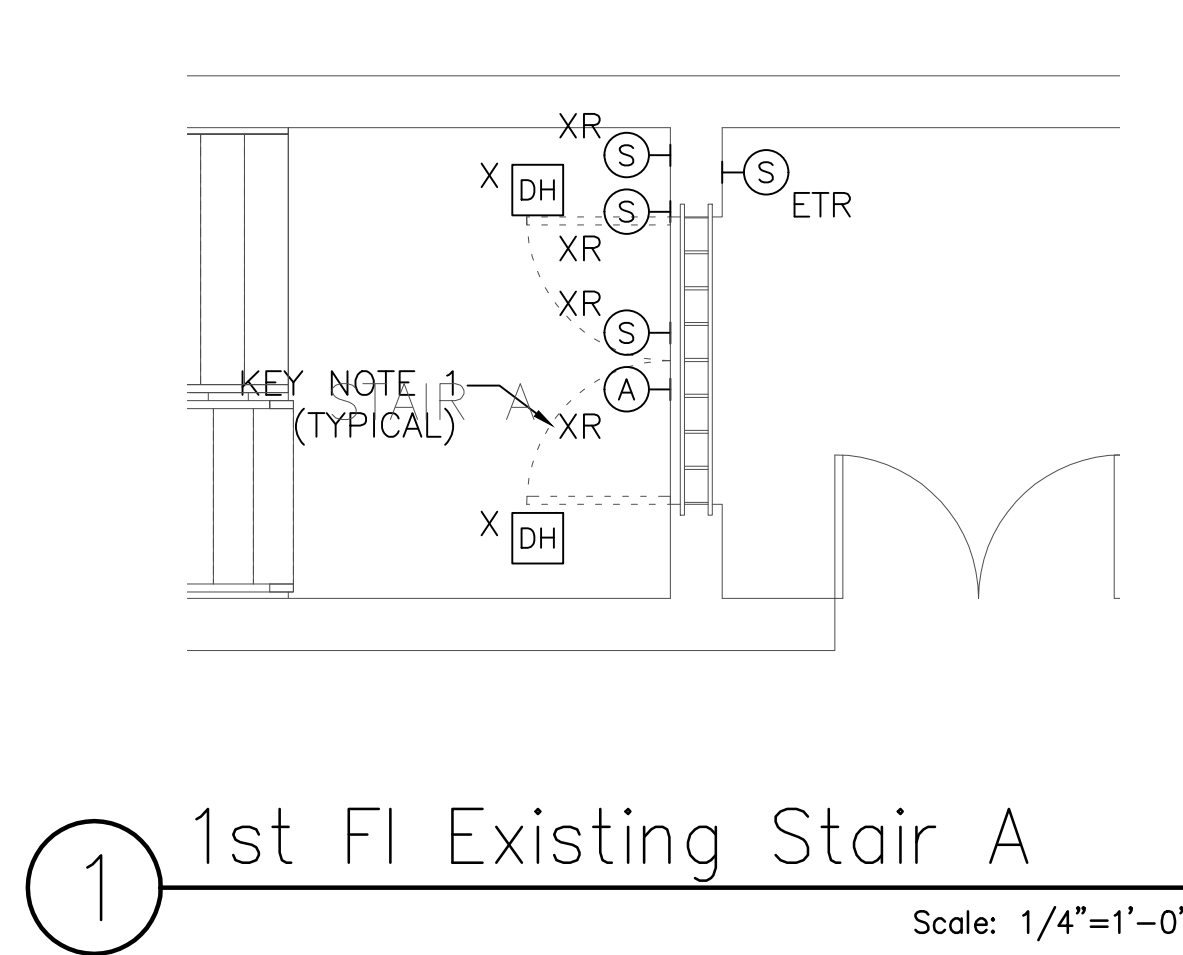
1. ALL WIRING SHALL BE IN ACCORDANCE WITH INSTALLED SYSTEM MANUFACTURER'S REQUIREMENTS AND SHALL BE IN EMT CONDUIT UNLESS USE OF N.C. CABLE IS APPROVED BY THE BUILDING OWNER'S REPRESENTATIVE. JUNCTION BOXES AND CONDUIT COUPLINGS SHALL BE PAINTED RED. N.C. CABLE ARMOR, IF ALLOWED SHALL BE RED.
2. RISER DIAGRAM IS DIAGNOMATIC. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF EQUIPMENT.
3. FIRE ALARM DEVICES SHALL MATCH EXISTING TYPE, MANUFACTURER AND STYLE AND BE LISTED FOR REQUIREMENTS.
4. TEST SYSTEM PER NFPA 72 AND LOCAL AUTHORITIES REQUIREMENTS. OWNER'S FIRE ALARM SERVICE CONTRACTOR SHALL PERFORM ALL REQUIRED TESTING. THE COST FOR THIS WORK SHALL BE INCORPORATED INTO ELECTRICAL CONTRACTOR'S BID.
5. COORDINATE EXISTING SYSTEM WIRING CLASS AND STYLE WITH OWNER'S REPRESENTATIVE AND FIRE ALARM SERVICE CONTRACTOR. MATCH EXISTING WIRING STANDARDS UNLESS OTHERWISE DIRECTED.
6. ALL WIRING CONNECTIONS SHALL BE MADE ON TERMINAL BLOCKS. NO SPLICING IS ALLOWED.
7. COORDINATE RESSING AND REPLACEMENT OF ANY END-OF-LINE RESISTORS (IF APPLICABLE) WITH OWNER'S FIRE ALARM SERVICE CONTRACTOR.
8. ALL NECESSARY PROGRAMMING SHALL BE PERFORMED BY OWNER'S FIRE ALARM SERVICE CONTRACTOR. THE COST FOR THIS WORK SHALL BE INCORPORATED INTO ELECTRICAL CONTRACTOR'S BID.
9. FURNISH ALL REQUIRED COMPONENTS, CARDS, MODULES, RELAYS, CONTACTS AND WIRING IN MAIN PACP OR SUB-PANEL SERVING THE AREA OF WORK TO ACCOMMODATE RENOVATION WORK. ALL WORK IN THESE PANELS SHALL BE PERFORMED BY OWNER'S FIRE ALARM SERVICE CONTRACTOR. THE COST FOR THIS WORK SHALL BE INCORPORATED INTO ELECTRICAL CONTRACTOR'S BID.
10. PROVIDE ADDITIONAL NAC EXTENSION PANELS AND/OR POWER SUPPLIES IF EXISTING SYSTEM BATTERY CAPACITY IS INSUFFICIENT FOR ADD LOADS.
11. PROVIDE DUAL NOTIFICATION CIRCUITS WHERE REQUIRED BY CODE OR LOCAL AUTHORITY WIRING JURISDICTION.
12. NOTIFICATION CIRCUITS SHALL BE SYNCHRONIZED.
13. PER NFPA 72 SECTION 8.7.1.1.1 SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN UP OR ALL TRADES IS COMPLETE AND FINAL.
14. COMBINATION SMOKE/CO DETECTORS SHALL EMPLOY BOTH SIMULATED VOICE AND TONE ALARM FEATURES (BUILT-IN) (DISTINGUISHES BETWEEN CARBON MONOXIDE AND SMOKE NOTIFICATION). IN ACCORDANCE WITH NFPA 720.5.3.4 AND 527 CDR 31.00.
15. CONTRACTOR SHALL TEST AND CONFIRM THAT EXISTING FIRE ALARM SYSTEM HAS CAPACITY TO ACCOMMODATE NEW BUILDING & FIRE ALARM DEVICES. IF NECESSARY, CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY POWER DISTRIBUTION PANELS, WIRE PANELS, AND/OR TRANSFORMER PANELS TO ACCOMMODATE NEW DEVICES TO INTERFACE WITH EXISTING FIRE ALARM SYSTEM.

1 Fire Alarm Riser Diagram Scale: None

GENERAL NOTES	
1. ALL CONDUIT AND EQUIPMENT SHALL BE INSTALLED AND GROUND IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE APPLICABLE CODES AND STANDARDS. REFER TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM CODE (NFPA 72) FOR THE LATEST REQUIREMENTS.	
2. CONDUIT RUNS ARE SHOWN DIAGNOMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONTACTS WITH EQUIPMENT AND STRUCTURES. CONDUIT ENDS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM CODE (NFPA 72) FOR THE LATEST REQUIREMENTS.	
3. CONDUIT SHALL BE TERMINATED 30" AS TO PERMIT NEAT CONNECTIONS TO MOTORS AND OTHER EQUIPMENT.	
4. NO CONDUIT SMALLER THAN 3/4" NOR WIRE SIZE SMALLER THAN #12 A.W.G. FOR POWER SHALL BE USED UNLESS OTHERWISE NOTED.	
5. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF THE WIRES AND CONDUIT THEREON ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE COMPONENTS OF ELECTRICAL EQUIPMENT, MODIFICATIONS ACCESSIBLE TO THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE BASIC SEQUENCE AND METHOD OF CONTROL, MUST BE MAINTAINED AS SHOWN ON THE DRAWINGS AND/OR SPECIFICATIONS.	
6. SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE MOUNTED BY AFF.	
7. ALL SURFACE MOUNTED PANELS AND PANELBOARDS ON THE INSIDE OF EXTERIOR WALLS ABOVE GRADE OR IN OTHER LOCATIONS CONSIDERED AS DAMP SHALL BE MOUNTED 30" AS TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 4'-0".	
8. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 4'-0".	
9. LIGHTING FIXTURES SHALL BE MOUNTED ACCORDING TO THE MOUNTING HEIGHT SHOWN ON THE DRAWINGS, WITH THE DISTANCE BEING MEASURED FROM THE BOTTOM OF THE LIGHTING FIXTURE TO THE FINISHED FLOOR.	
10. FOR LOCATION OF HVAC, PLUMBING, FIRE PROTECTION, AND MISCELLANEOUS EQUIPMENT SEE RESPECTIVE TRADE DRAWINGS.	
11. ALL CONDUIT RANS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR COMPENSATION AND SELECTION TYPE FITTINGS AS REQUIRED. SHOW EXACT LOCATIONS OF EXPANSION JOINTS SEE STRUCTURAL DRAWINGS.	
12. ALL MOTOR STARTER CONTACTS TRANSFORMERS SHALL BE SEED TO PROVIDE SUFFICIENT VOLTAGE CAPACITY FOR OPERATING ALL ELECTRICAL DEVICES. THE CONTRACTOR SHALL VERIFY THE MOTOR IN EACH RECEPTOR. IF THE MOTOR IS NOT THE CORRECT TYPE, THE CONTRACTOR SHALL CONTACT THE SUPPLIER FOR THE CORRECT TYPE. THE CONTRACTOR SHALL VERIFY THE MOTOR IS THE CORRECT TYPE. THE CONTRACTOR SHALL VERIFY THE MOTOR IS THE CORRECT TYPE.	
13. CONDUIT AND WIRE (NOT SHOWN) FOR FIXTURES, SWITCHES AND/OR RECEPTACLES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE MOTOR IN EACH RECEPTOR. IF THE MOTOR IS NOT THE CORRECT TYPE, THE CONTRACTOR SHALL CONTACT THE SUPPLIER FOR THE CORRECT TYPE. THE CONTRACTOR SHALL VERIFY THE MOTOR IS THE CORRECT TYPE.	
14. FOR EQUIPMENT PAD CONSTRUCTION DETAILS SEE STRUCTURAL DRAWINGS.	
15. ALL 120V BRANCH CIRCUITS GREATER THAN 100 LINEAR FEET SHALL BE POWER WIRE.	
16. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LAYOUTS FOR ALL ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE MOTOR IN EACH RECEPTOR. IF THE MOTOR IS NOT THE CORRECT TYPE, THE CONTRACTOR SHALL CONTACT THE SUPPLIER FOR THE CORRECT TYPE. THE CONTRACTOR SHALL VERIFY THE MOTOR IS THE CORRECT TYPE.	
17. PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL DEVICES ON EXTERIOR WALLS AND ON INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.	
18. THE ELECTRICAL CONTRACTOR SHALL SUBMIT PLANS FOR APPROVAL, SHOWING ALL COMMUNICATIONS EQUIPMENT AND DEVICES THROUGHOUT THE BUILDING. THE CONTRACTOR SHALL VERIFY THE MOTOR IN EACH RECEPTOR. IF THE MOTOR IS NOT THE CORRECT TYPE, THE CONTRACTOR SHALL CONTACT THE SUPPLIER FOR THE CORRECT TYPE. THE CONTRACTOR SHALL VERIFY THE MOTOR IS THE CORRECT TYPE.	
19. ALL TERMINATION LUGS SHALL BE SIZED ACCORDING TO ACCOMMODATE NOTICED CONNECTIONS.	
20. THE ELECTRICAL CONTRACTOR SHALL SUBMIT PLANS FOR APPROVAL, SHOWING ALL COMMUNICATIONS EQUIPMENT AND DEVICES THROUGHOUT THE BUILDING. THE CONTRACTOR SHALL VERIFY THE MOTOR IN EACH RECEPTOR. IF THE MOTOR IS NOT THE CORRECT TYPE, THE CONTRACTOR SHALL CONTACT THE SUPPLIER FOR THE CORRECT TYPE. THE CONTRACTOR SHALL VERIFY THE MOTOR IS THE CORRECT TYPE.	
21. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR THE LOCATION OF ALL LIGHT FIXTURES IN MECHANICAL AND ELECTRICAL ROOMS OF EQUIPMENT, PIPING AND DUCTWORK.	
22. ALL EXIT SIGNS SHALL BE UNLIGHTED.	
23. ALL SWITCHED LIGHT FIXTURES CONNECTED TO A NORMAL/EMERGENCY CIRCUIT ARE TO BE WIRED WITH AN EMERGENCY BY-PASS RAY.	
24. ALL BY-PASS SINGLE POLE DRIVERS SHALL BE PROVIDED WITH A SEPARATE FULL SIZE NEUTRAL CONDUIT.	
25. CONFIRM EXACT POWER REQUIREMENTS AND CONNECTION LOCATIONS FOR ALL HEAT DETECTOR WITH THE PLUMBING, FIRE PROTECTION, HVAC AND GENERAL CONTRACTOR.	
26. CERTAIN SYMBOLS IN THE SYMBOL LIST DO NOT APPEAR ELSEWHERE IN THE DRAWINGS. SUCH SYMBOLS ARE INCLUDED TO PERMIT INTERPRETATIONS TO BE MADE IN THE EVENT OF DESIGN CHANGES.	
27. ELECTRICAL CONTRACTOR SHALL MAINTAIN RAYWAY OF ANY CEILING, WALL, FLOOR OR BALCONY STRUCTURE FOR WIRING.	
28. THE ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL SUBMITTED LED DRAWINGS ARE IFC COMPLIANT AND THAT ALL SUBMITTED LIGHTING FIXTURES ARE UL LISTED.	

FIRE ALARM SYSTEM	
MANUAL FIRE ALARM PULL STATION	COMBINATION SMOKE DETECTOR/ CARBON MONOXIDE VISUAL ALARM FOR HEARING IMPAIRED. BRK MODEL SL117 OR EQUAL.
VISUAL ONLY FIRE ALARM DEVICE	COMBINATION SMOKE DETECTOR/ VISUAL ALARM FOR HEARING IMPAIRED.
COMBINATION AUDIO AND VISUAL FIRE ALARM DEVICE	COMBINATION HEAT DETECTOR/ VISUAL ALARM FOR HEARING IMPAIRED.
CEILING MOUNTED AUDIO AND VISUAL FIRE ALARM DEVICE	DETECTOR TYPE SUBSCRIPTS: 1. LOCAL 120V DETECTOR WITH INTERAL BATTERY BACKUP RESEDER UNIT R T TRANSMITTER UNIT D IN DUCT DETECTOR E BEAM TYPE PHOTOELECTRIC SA SUPPLY AIR DUCT DETECTOR RA RETURN AIR DUCT DETECTOR CO COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
WALL MOUNTED FIRE ALARM SPEAKER	MONITOR TYPE: M MONITORING MODULE CM CONTROL MODULE
WALL MOUNTED FIRE ALARM MINI-HORN	PROVIDE CONNECTION TO DOOR HARDWARE INTERIOR HOLDERS
WALL MOUNTED FIRE ALARM STROBE	MAGNETIC DOOR HOLDER
WALL MOUNTED FIRE ALARM MINI-HORN/STROBE	SMOKE EXHAUST FAN KEY SWITCH
LOW FREQUENCY ALARM 530HZ IN ALL ROOMS USED FOR SLEEPING	ADDRESSABLE CONTROL OR MONITOR MODULE
FIRE ALARM MASTER BOX	ILLUMINATED DOOR BELL PUSH BUTTON
KNOX BOX	DOOR BELL CHIME/BELL
ROTATING FIRE ALARM BEACON LIGHT	HEARING IMPAIRED HEARING STROBE
ELECTRIC BELL PROVIDE (1) DEDICATED 120V FIRE FIGHTER PHONE	HEARING IMPAIRED INTERCOM STROBE
FIRE FIGHTER PHONE	HEARING IMPAIRED DOORBELL STROBE
FIRE FIGHTER PHONE	PROXIMITY CARD READER
WALL MOUNTED FIRE ALARM SPEAKER	KEY PAD
WALL MOUNTED FIRE ALARM MINI-HORN	DOOR CONTACT
WALL MOUNTED FIRE ALARM STROBE	ELECTRIC DOOR STRIKE
WALL MOUNTED FIRE ALARM MINI-HORN/STROBE	LOCAL DOOR ALARM
LOW FREQUENCY ALARM 530HZ IN ALL ROOMS USED FOR SLEEPING	WALL MOUNTED MOTION DETECTOR
FIRE ALARM MASTER BOX	WALL MOUNTED MOTION DETECTOR
KNOX BOX	WALL MOUNTED MOTION DETECTOR
ROTATING FIRE ALARM BEACON LIGHT	WALL MOUNTED MOTION DETECTOR
ELECTRIC BELL PROVIDE (1) DEDICATED 120V FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM SPEAKER	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM MINI-HORN	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM STROBE	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM MINI-HORN/STROBE	WALL MOUNTED MOTION DETECTOR
LOW FREQUENCY ALARM 530HZ IN ALL ROOMS USED FOR SLEEPING	WALL MOUNTED MOTION DETECTOR
FIRE ALARM MASTER BOX	WALL MOUNTED MOTION DETECTOR
KNOX BOX	WALL MOUNTED MOTION DETECTOR
ROTATING FIRE ALARM BEACON LIGHT	WALL MOUNTED MOTION DETECTOR
ELECTRIC BELL PROVIDE (1) DEDICATED 120V FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM SPEAKER	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM MINI-HORN	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM STROBE	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM MINI-HORN/STROBE	WALL MOUNTED MOTION DETECTOR
LOW FREQUENCY ALARM 530HZ IN ALL ROOMS USED FOR SLEEPING	WALL MOUNTED MOTION DETECTOR
FIRE ALARM MASTER BOX	WALL MOUNTED MOTION DETECTOR
KNOX BOX	WALL MOUNTED MOTION DETECTOR
ROTATING FIRE ALARM BEACON LIGHT	WALL MOUNTED MOTION DETECTOR
ELECTRIC BELL PROVIDE (1) DEDICATED 120V FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
FIRE FIGHTER PHONE	WALL MOUNTED MOTION DETECTOR
WALL MOUNTED FIRE ALARM SPEAKER	WALL MOUNTED MOTION DETECTOR
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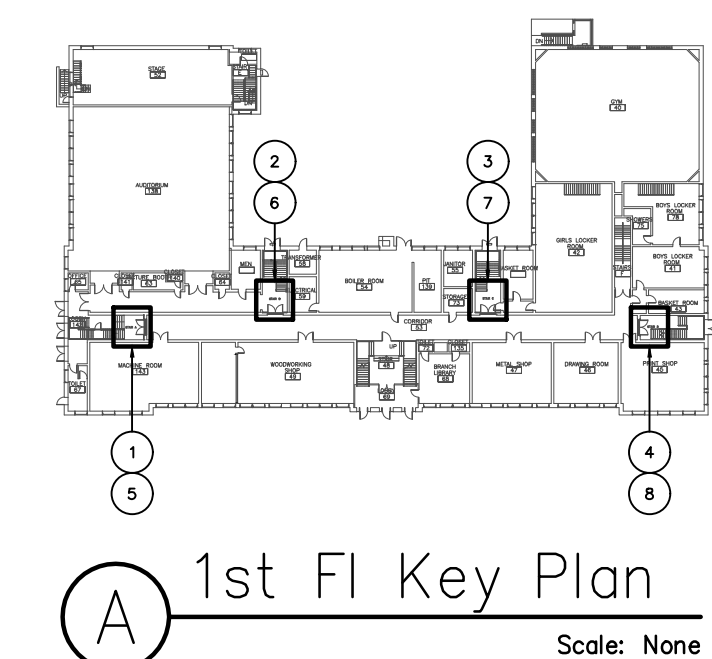
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- Ⓟ FIRE ALARM JUNCTION BOX, LB, RACEWAY
- Ⓢ 120V POWER JUNCTION BOX, LB, RACEWAY
- Ⓢ SECURITY LOW VOLTAGE DEVICE, JUNCTION BOX RACEWAY. SEE KEY NOTE 1
- DH FIRE ALARM DOOR HOLD DEVICE
- FAPS FIRE ALARM POWER SUPPLY
- CTRL BUILDING SYSTEM CONTROL PANEL, JUNCTION BOX, RACEWAY. SEE KEY NOTE 1
- EB DUAL HEAD EMERGENCY FIXTURE

KEY NOTES:

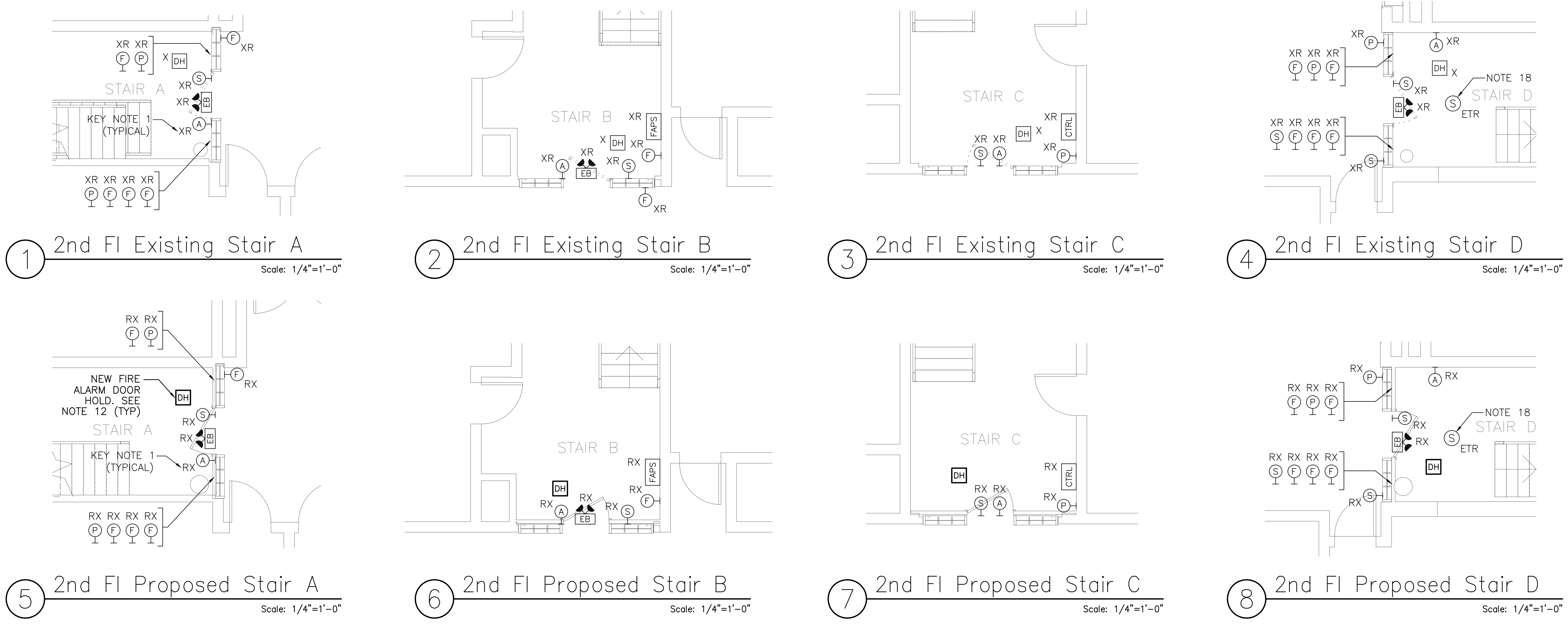
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ELECTRICAL NOTES:

1. LIMIT OF SCOPE LINE INDICATES THE APPROXIMATE AREA OF RENOVATION THAT ELECTRICAL SYSTEMS MAY BE RELOCATED OR REMOVED. SCOPE OF DEMOLITION SHOWN ON PLANS ARE PARTIAL ONLY FOR THE CONTRACTORS CONVENIENCE AND NOT INTENDED TO SHOW ALL EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO INCLUDE ALL NECESSARY WORK TO MODIFY AND EXTEND EXISTING SYSTEMS, WIRING, ETC. AS REQUIRED TO ACCOMMODATE THE NEW ARCHITECTURAL FLOOR PLAN.
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3. ELECTRICAL CONTRACTOR SHALL MAINTAIN INTEGRITY OF FIRE ALARM WIRING SO NOTIFICATION DEVICES OUTSIDE SCOPE OF WORK REMAIN ACTIVE DURING RENOVATION.
4. ALL EXISTING DEVICES AND EQUIPMENT TO BE REMOVED - DISCONNECT, REMOVE, AND DISPOSE ALL RACEWAY AND WIRING BACK TO ASSOCIATED PANEL.
5. COORDINATE SHUT DOWN OF BASE BUILDING ELECTRICAL AND FIRE ALARM SYSTEMS WITH SCHOOL FACILITIES.
6. DISCONNECT, MAKE SAFE, AND REMOVE ALL TEMPORARY AND ABANDONED WIRE WITHIN THE LIMIT OF WORK.
7. ELECTRICAL CONTRACTOR SHALL RELOCATE ANY AND ALL EXISTING ELECTRICAL DEVICES AND RACEWAY WITHIN AREA OF RENOVATION. CONFIRM AND COORDINATE RENOVATION SCOPE WITH ARCHITECT. EXTEND AND CONNECT EXISTING WIRING AND RACEWAY TO NEW LOCATION OF RELOCATED EQUIPMENT. CONTRACTOR SHALL EVALUATE CONDITION OF EXISTING WIRING AND RACEWAY AND REPLACE BACK TO SOURCE IF NECESSARY. CONTRACTOR SHALL REPLACE EXISTING WIRING, BACK TO SOURCE, IF EXISTING EXTENDED WIRING DOES NOT REACH LOCATION OF RELOCATED EQUIPMENT.
8. ELECTRICAL CONTRACTOR SHALL CONFIRM AND COORDINATE FINAL LOCATION OF ALL LOW VOLTAGE DEVICES AND ROUTING OF LOW VOLTAGE RACEWAY WITH ARCHITECT.
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13. ALL NEW EQUIPMENT SHALL MATCH BASE BUILDING STANDARDS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE. ALL NEW EQUIPMENT SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
14. FIRE ALARM DEVICES AND COMPONENTS SHALL BE NEW AND WIRED BACK TO THE EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR TO PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT NECESSARY TO EXPAND EXISTING SYSTEM. CONTRACTOR TO ENSURE ALL NEW DEVICES AND RELATED EQUIPMENT ARE COMPATIBLE WITH THE EXISTING SYSTEM. CONTRACTOR TO MATCH EXISTING DEVICE MOUNTING HEIGHTS WITHIN ADA REQUIREMENTS. WHERE EXISTING HEIGHTS DO NOT MEET CURRENT ADA REQUIREMENTS MOUNT NEW, RELOCATED AND REINSTALLED DEVICES AT HEIGHTS LISTED IN MTG HEIGHT DETAIL ON DRAWING E0. ALL FIRE ALARM STROBES TO BE SYNCHRONIZED WITH EXISTING BLDG STROBES. CONTRACTOR SHALL REPLACE ALL EXISTING FIRE ALARM DEVICES IF THEY ARE NOT SYNCHRONIZABLE. PROVIDE A COMPLETE TEST OF THE ENTIRE FIRE ALARM SYSTEM UPON COMPLETION OF THE INSTALLATION THE SYSTEM SHALL MEET ALL REQUIREMENTS OF THE NFPA AND LOCAL CODES. COORDINATE EXACT REQUIREMENTS WITH LOCAL FIRE DEPARTMENT PRIOR TO WORK BEING PERFORMED.
15. CONTRACTOR SHALL PROVIDE AN NFPA 241 IMPAIRMENT PLAN TO THE AHJ & OWNER FOR REVIEW AND APPROVAL BEFORE COMMENCEMENT OF WORK.
16. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL NEW FIRE ALARM MODULES, RELAYS AND ASSOCIATED EQUIPMENT TO ADD NEW FIRE ALARM DEVICES TO THE EXISTING SYSTEM.
17. CONTRACTOR SHALL FURNISH AND INSTALL FIRE RATED SEALANT FOR ALL CONDUITS PENETRATING NEW FIRE RATED STAIRWELLS.
18. CONTRACTOR SHALL REMOVE PAINTERS PLASTIC AND TAPE COVERING EXISTING SMOKE DETECTOR.
19. ELECTRICAL CONTRACTOR SHALL RELOCATE EXISTING 120/208V POWER PANEL. EXTEND AND CONNECT EXISTING WIRING AND RACEWAY TO NEW LOCATION OF RELOCATED PANEL. CONTRACTOR SHALL EVALUATE CONDITION OF EXISTING WIRING AND RACEWAY AND REPLACE BACK TO SOURCE IF NECESSARY. CONTRACTOR SHALL REPLACE EXISTING WIRING, BACK TO SOURCE, IF EXISTING EXTENDED WIRING DOES NOT REACH LOCATION OF RELOCATED EQUIPMENT.



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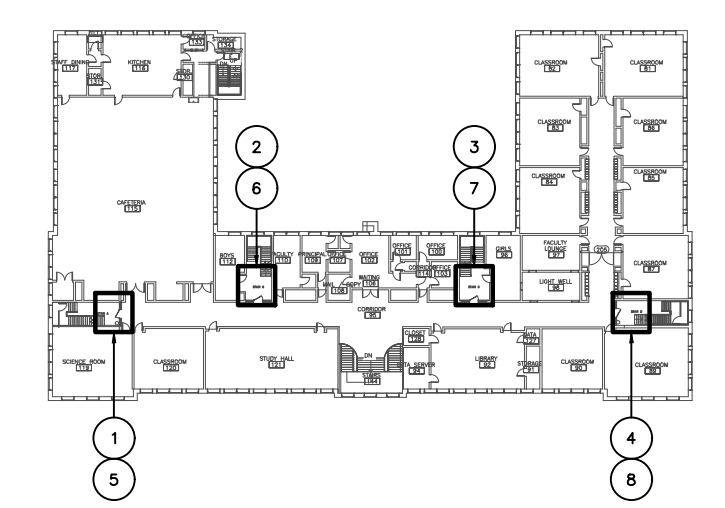
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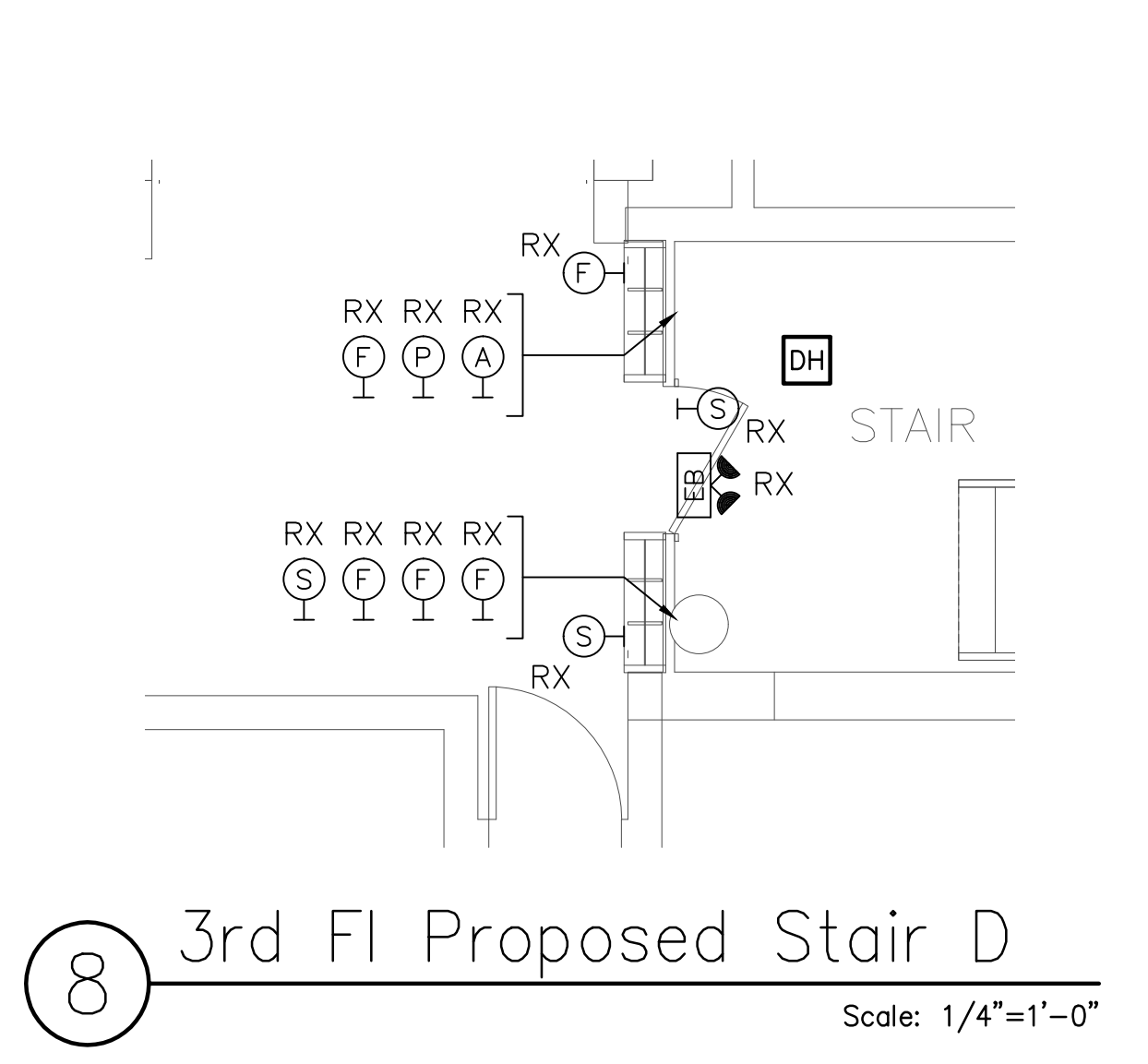
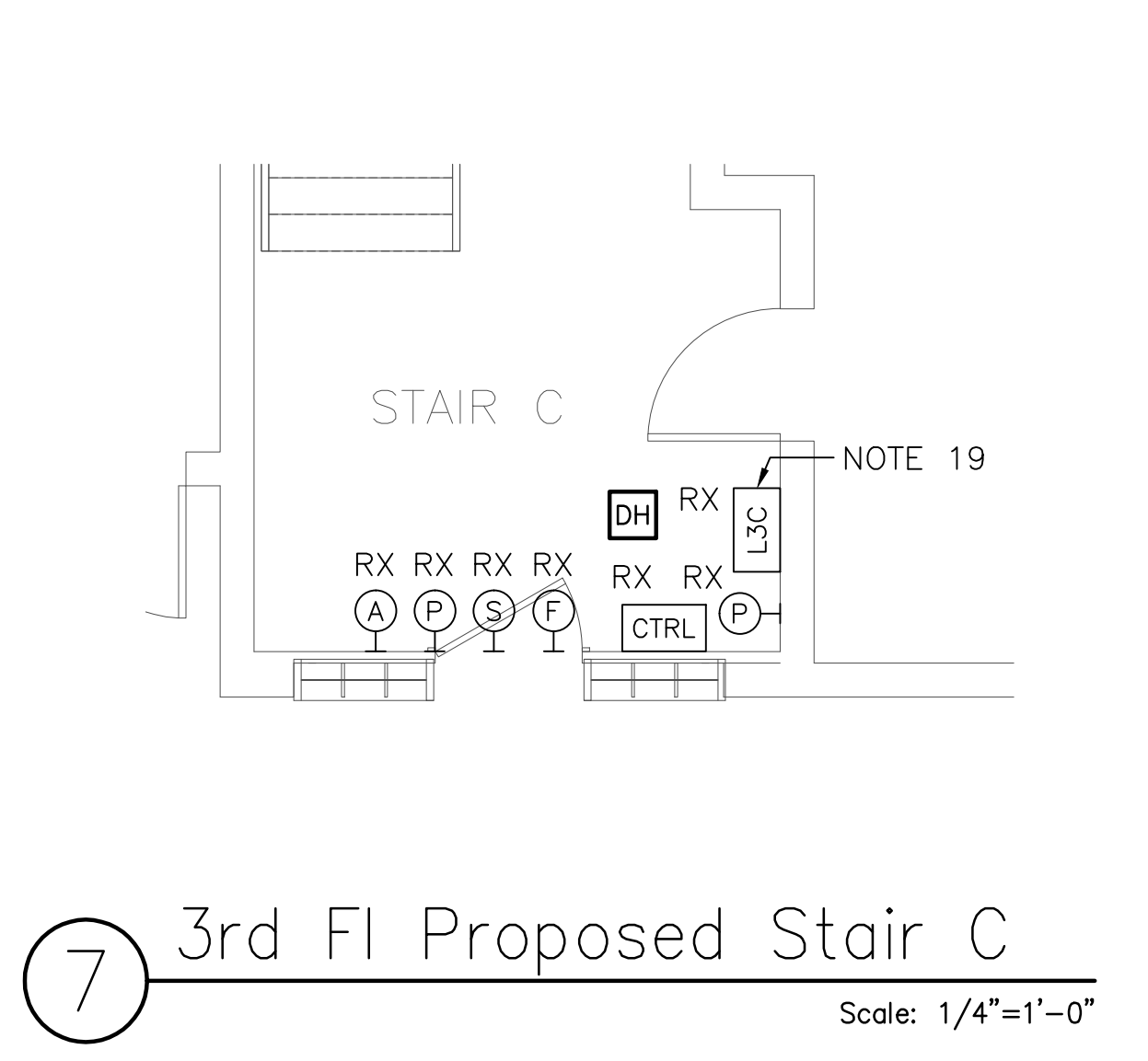
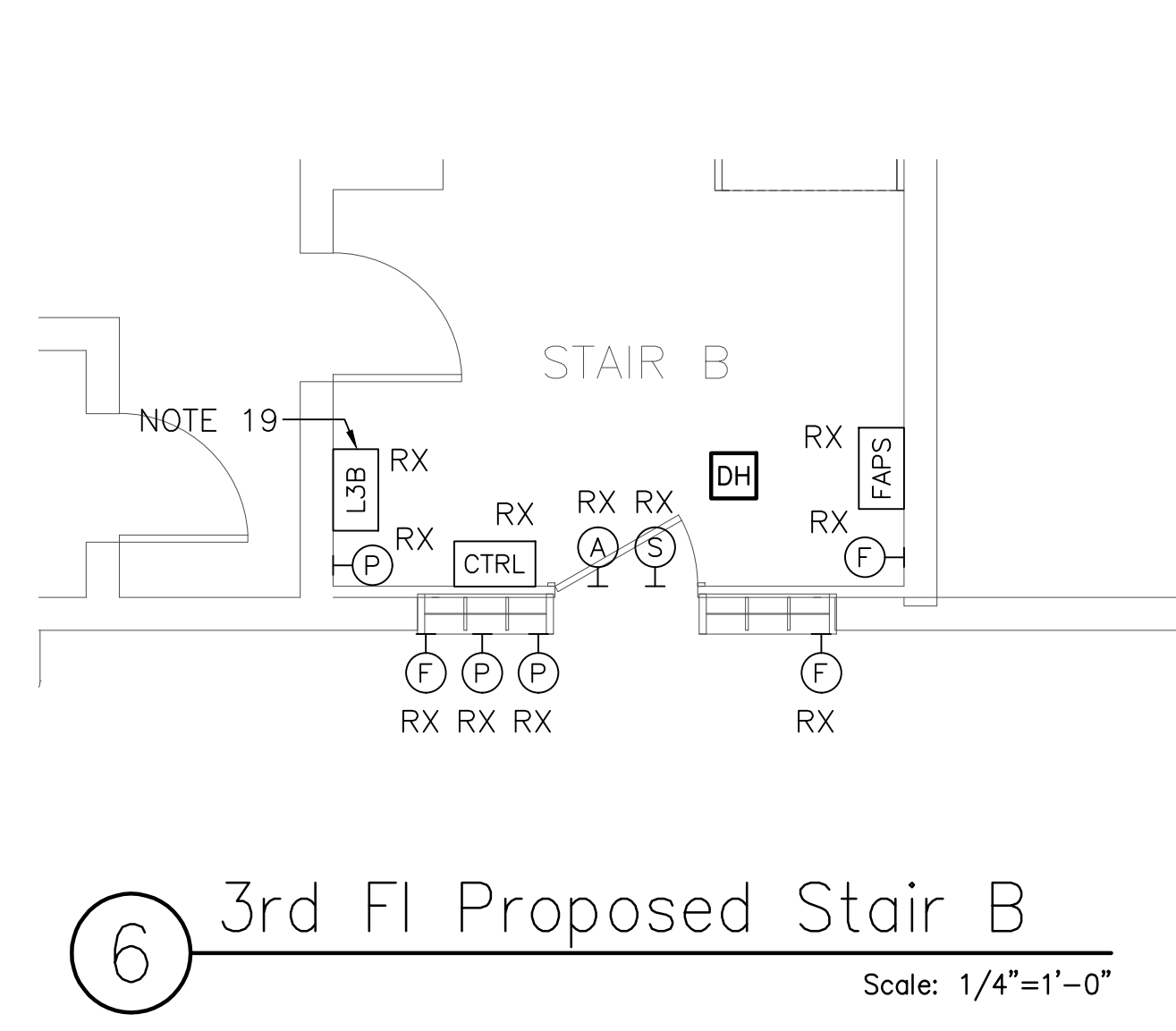
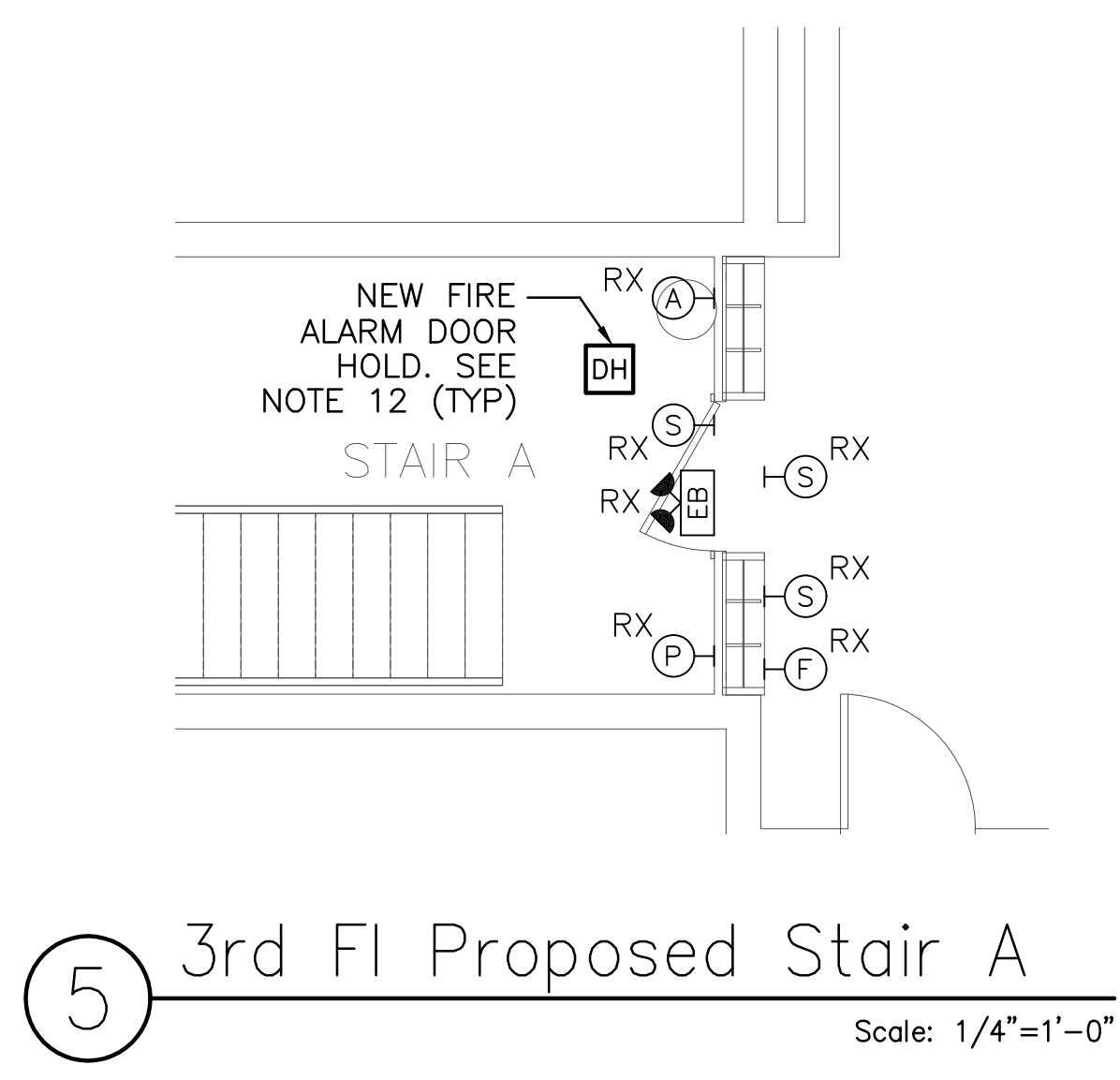
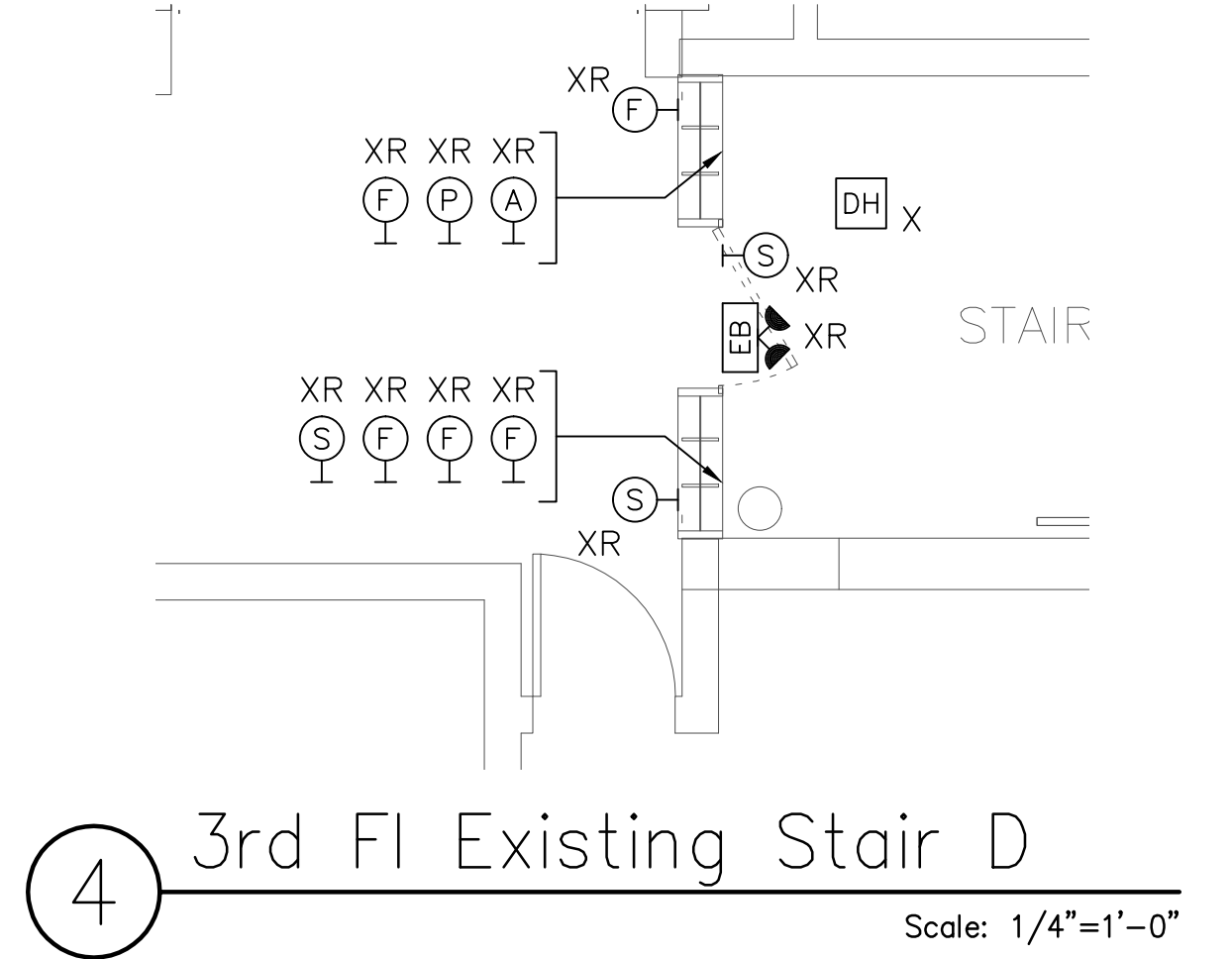
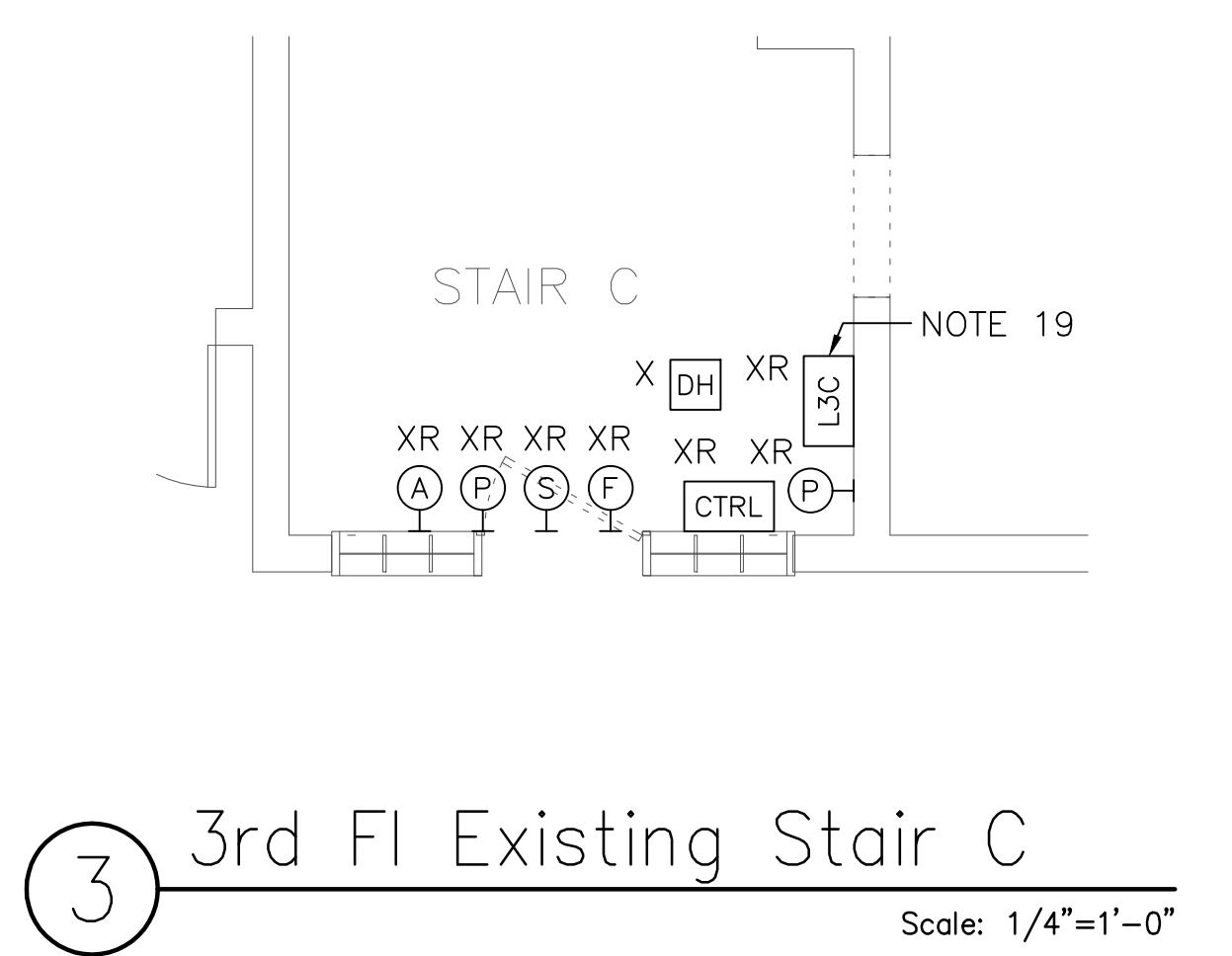
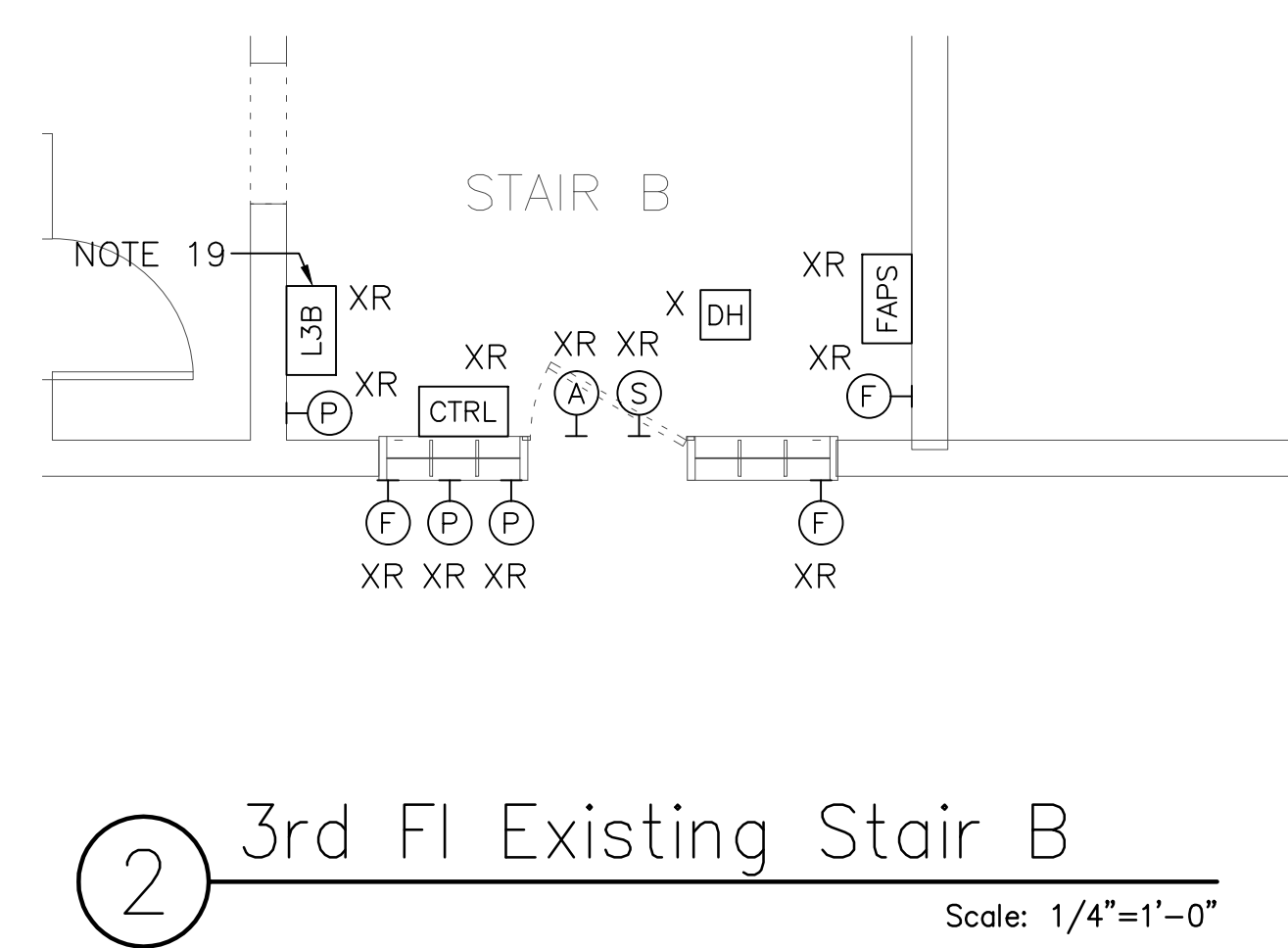
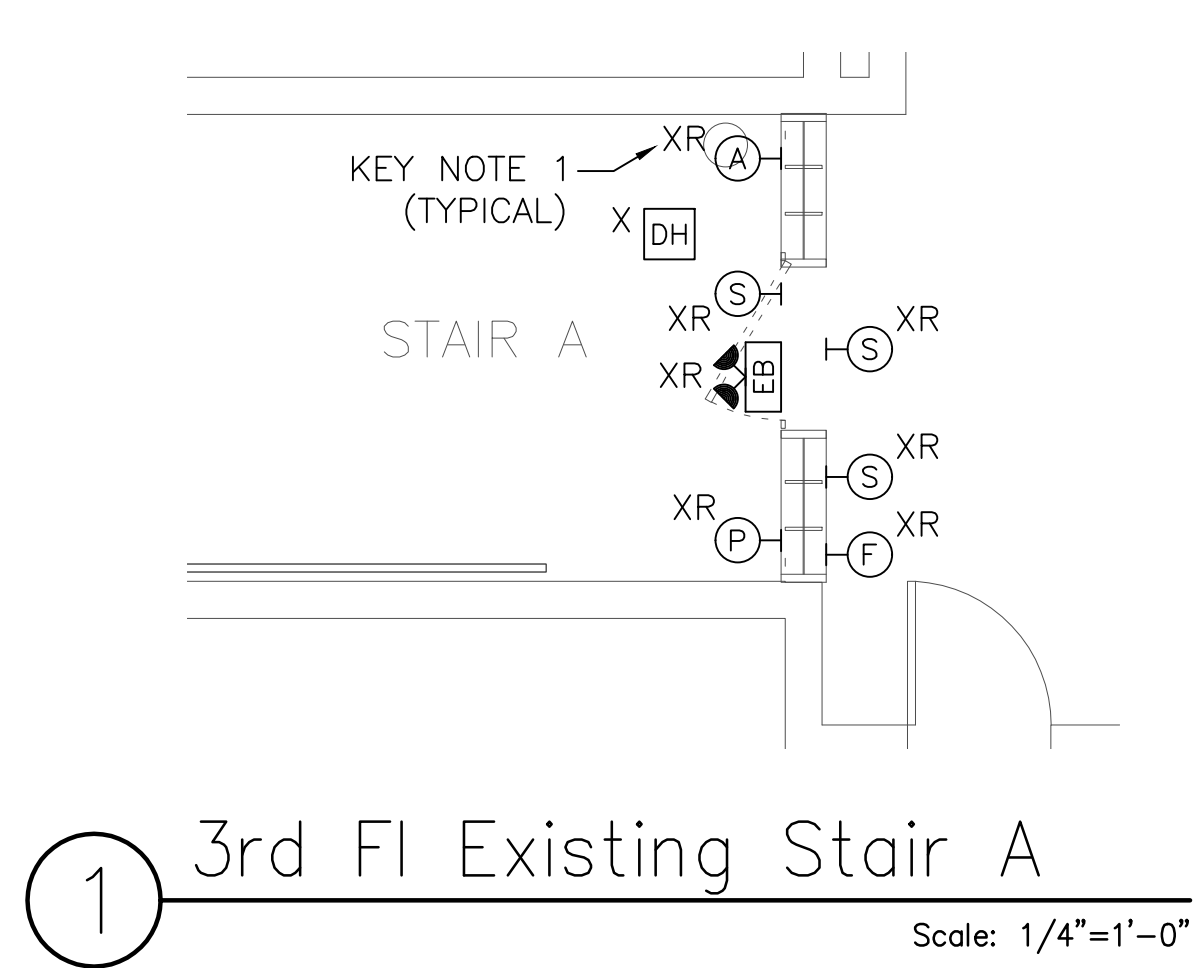
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14. FIRE ALARM DEVICES AND COMPONENTS SHALL BE NEW AND WIRED BACK TO THE EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR TO PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT NECESSARY TO EXPAND EXISTING SYSTEM. CONTRACTOR TO ENSURE ALL NEW DEVICES AND RELATED EQUIPMENT ARE COMPATIBLE WITH THE EXISTING SYSTEM. CONTRACTOR TO MATCH EXISTING DEVICE MOUNTING HEIGHTS WITHIN ADA REQUIREMENTS. WHERE EXISTING HEIGHTS DO NOT MEET CURRENT ADA REQUIREMENTS MOUNT NEW, RELOCATED AND REINSTALLED DEVICES AT HEIGHTS LISTED IN MTG HEIGHT DETAIL ON DRAWING E0. ALL FIRE ALARM STROBES TO BE SYNCHRONIZED WITH EXISTING BLDG STROBES. CONTRACTOR SHALL REPLACE ALL EXISTING FIRE ALARM DEVICES IF THEY ARE NOT SYNCHRONIZABLE. PROVIDE A COMPLETE TEST OF THE ENTIRE FIRE ALARM SYSTEM UPON COMPLETION OF THE INSTALLATION THE SYSTEM SHALL MEET ALL REQUIREMENTS OF THE NFPA AND LOCAL CODES. COORDINATE EXACT REQUIREMENTS WITH LOCAL FIRE DEPARTMENT PRIOR TO WORK BEING PERFORMED.
15. CONTRACTOR SHALL PROVIDE AN NFPA 241 IMPAIRMENT PLAN TO THE AHJ & OWNER FOR REVIEW AND APPROVAL BEFORE COMMENCEMENT OF WORK.
16. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL NEW FIRE ALARM MODULES, RELAYS AND ASSOCIATED EQUIPMENT TO ADD NEW FIRE ALARM DEVICES TO THE EXISTING SYSTEM.
17. CONTRACTOR SHALL FURNISH AND INSTALL FIRE RATED SEALANT FOR ALL CONDUITS PENETRATING NEW FIRE RATED STAIRWELLS.
18. CONTRACTOR SHALL REMOVE PAINTERS PLASTIC AND TAPE COVERING EXISTING SMOKE DETECTOR.
19. ELECTRICAL CONTRACTOR SHALL RELOCATE EXISTING 120/208V POWER PANEL. EXTEND AND CONNECT EXISTING WIRING AND RACEWAY TO NEW LOCATION OF RELOCATED PANEL. CONTRACTOR SHALL EVALUATE CONDITION OF EXISTING WIRING AND RACEWAY AND REPLACE BACK TO SOURCE IF NECESSARY. CONTRACTOR SHALL REPLACE EXISTING WIRING, BACK TO SOURCE, IF EXISTING EXTENDED WIRING DOES NOT REACH LOCATION OF RELOCATED EQUIPMENT.



A 2nd Fl Key Plan
 Scale: None

NO.	REVISION DESCRIPTION	DATE



ELECTRICAL DEVICE KEY:

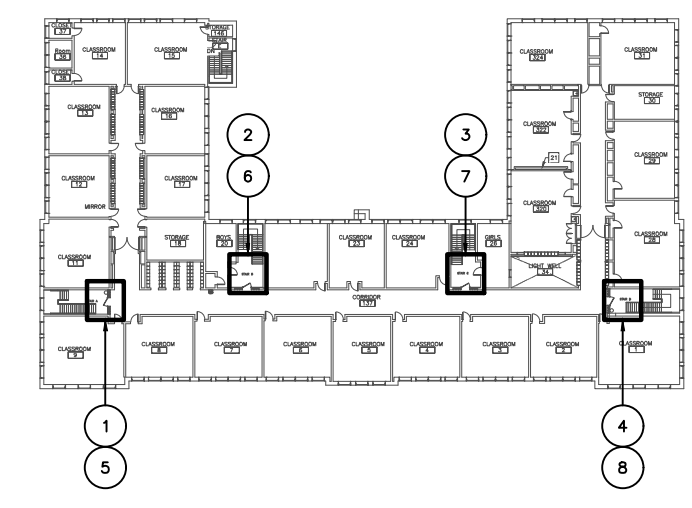
- AUDIO LOW VOLTAGE DEVICE, JUNCTION BOX RACEWAY. SEE KEY NOTE 1
- FIRE ALARM JUNCTION BOX, LB, RACEWAY
- 120V POWER JUNCTION BOX, LB, RACEWAY
- SECURITY LOW VOLTAGE DEVICE, JUNCTION BOX RACEWAY. SEE KEY NOTE 1
- FIRE ALARM DOOR HOLD DEVICE
- FIRE ALARM POWER SUPPLY
- BUILDING SYSTEM CONTROL PANEL, JUNCTION BOX, RACEWAY. SEE KEY NOTE 1
- DUAL HEAD EMERGENCY FIXTURE

KEY NOTES:

1. CONTRACTOR SHALL CONFIRM AND COORDINATE FINAL LOCATION OF ALL RELOCATED BUILDING SYSTEM, LOW VOLTAGE DEVICES AND RACEWAY WITH ARCHITECT. CONFIRM ROUTING OF EXTENDED RACEWAY WITH ARCHITECT. LOW VOLTAGE SHOWN ON ELECTRICAL PLANS FOR REFERENCE ONLY.

ELECTRICAL NOTES:

1. LIMIT OF SCOPE LINE INDICATES THE APPROXIMATE AREA OF RENOVATION THAT ELECTRICAL SYSTEMS MAY BE RELOCATED OR REMOVED. SCOPE OF DEMOLITION SHOWN ON PLANS ARE PARTIAL ONLY FOR THE CONTRACTORS CONVENIENCE AND NOT INTENDED TO SHOW ALL EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO INCLUDE ALL NECESSARY WORK TO MODIFY AND EXTEND EXISTING SYSTEMS, WIRING, ETC. AS REQUIRED TO ACCOMMODATE THE NEW ARCHITECTURAL FLOOR PLAN.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY RE-FEEDING OF EQUIPMENT OR DEVICES TO MAINTAIN CIRCUIT CONTINUITY OF EXISTING EQUIPMENT REMAINING.
3. ELECTRICAL CONTRACTOR SHALL MAINTAIN INTEGRITY OF FIRE ALARM WIRING SO NOTIFICATION DEVICES OUTSIDE SCOPE OF WORK REMAIN ACTIVE DURING RENOVATION.
4. ALL EXISTING DEVICES AND EQUIPMENT TO BE REMOVED - DISCONNECT, REMOVE, AND DISPOSE ALL RACEWAY AND WIRING BACK TO ASSOCIATED PANEL.
5. COORDINATE SHUT DOWN OF BASE BUILDING ELECTRICAL AND FIRE ALARM SYSTEMS WITH SCHOOL FACILITIES.
6. DISCONNECT, MAKE SAFE, AND REMOVE ALL TEMPORARY AND ABANDONED WIRE WITHIN THE LIMIT OF WORK.
7. ELECTRICAL CONTRACTOR SHALL RELOCATE ANY AND ALL EXISTING ELECTRICAL DEVICES AND RACEWAY WITHIN AREA OF RENOVATION. CONFIRM AND COORDINATE RENOVATION SCOPE WITH ARCHITECT. EXTEND AND CONNECT EXISTING WIRING AND RACEWAY TO NEW LOCATION OF RELOCATED EQUIPMENT. CONTRACTOR SHALL EVALUATE CONDITION OF EXISTING WIRING AND RACEWAY AND REPLACE BACK TO SOURCE IF NECESSARY. CONTRACTOR SHALL REPLACE EXISTING WIRING, BACK TO SOURCE, IF EXISTING EXTENDED WIRING DOES NOT REACH LOCATION OF RELOCATED EQUIPMENT.
8. ELECTRICAL CONTRACTOR SHALL CONFIRM AND COORDINATE FINAL LOCATION OF ALL LOW VOLTAGE DEVICES AND ROUTING OF LOW VOLTAGE RACEWAY WITH ARCHITECT.
9. ALL NEW EQUIPMENT SHALL MATCH BASE BUILDING STANDARDS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE. ALL NEW EQUIPMENT SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
10. ALL POWER DEVICE FACEPLATES, COVERS, AND DISCONNECTS SHALL BE LABELED WITH CIRCUIT NUMBER AND PANEL DESIGNATION.
11. ALL SURFACE MOUNTED INTERIOR CONDUIT SHALL BE EMT (ELECTRIC METAL TUBING) CONFIRM ROUTING OF ALL SURFACE MOUNTED RACEWAY WITH ARCHITECT.
12. CONTRACTOR SHALL PROVIDE 120V POWER TO NEW DOOR HOLDS FROM NEAREST AVAILABLE 120V CIRCUIT WITH AVAILABLE CAPACITY. IF CIRCUIT DOES NOT EXIST, CONTRACTOR SHALL FURNISH AND INSTALL (1) NEW 20A/1P BREAKER IN NEAREST EXISTING PANEL WITH SPARE CAPACITY AND WIRE NEW DOOR HOLD TO THIS CIRCUIT.
13. ALL NEW EQUIPMENT SHALL MATCH BASE BUILDING STANDARDS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE. ALL NEW EQUIPMENT SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
14. FIRE ALARM DEVICES AND COMPONENTS SHALL BE NEW AND WIRED BACK TO THE EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR TO PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT NECESSARY TO EXPAND EXISTING SYSTEM. CONTRACTOR TO ENSURE ALL NEW DEVICES AND RELATED EQUIPMENT ARE COMPATIBLE WITH THE EXISTING SYSTEM. CONTRACTOR TO MATCH EXISTING DEVICE MOUNTING HEIGHTS WITHIN ADA REQUIREMENTS. WHERE EXISTING HEIGHTS DO NOT MEET CURRENT ADA REQUIREMENTS MOUNT NEW, RELOCATED AND REINSTALLED DEVICES AT HEIGHTS LISTED IN MTG HEIGHT DETAIL ON DRAWING E0. ALL FIRE ALARM STROBES TO BE SYNCHRONIZED WITH EXISTING BLDG STROBES. CONTRACTOR SHALL REPLACE ALL EXISTING FIRE ALARM DEVICES IF THEY ARE NOT SYNCHRONIZABLE. PROVIDE A COMPLETE TEST OF THE ENTIRE FIRE ALARM SYSTEM UPON COMPLETION OF THE INSTALLATION THE SYSTEM SHALL MEET ALL REQUIREMENTS OF THE NFPA AND LOCAL CODES. COORDINATE EXACT REQUIREMENTS WITH LOCAL FIRE DEPARTMENT PRIOR TO WORK BEING PERFORMED.
15. CONTRACTOR SHALL PROVIDE AN NFPA 241 IMPAIRMENT PLAN TO THE AHJ & OWNER FOR REVIEW AND APPROVAL BEFORE COMMENCEMENT OF WORK.
16. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL NEW FIRE ALARM MODULES, RELAYS AND ASSOCIATED EQUIPMENT TO ADD NEW FIRE ALARM DEVICES TO THE EXISTING SYSTEM.
17. CONTRACTOR SHALL FURNISH AND INSTALL FIRE RATED SEALANT FOR ALL CONDUITS PENETRATING NEW FIRE RATED STAIRWELLS.
18. CONTRACTOR SHALL REMOVE PAINTERS PLASTIC AND TAPE COVERING EXISTING SMOKE DETECTOR.
19. ELECTRICAL CONTRACTOR SHALL RELOCATE EXISTING 120/208V POWER PANEL. EXTEND AND CONNECT EXISTING WIRING AND RACEWAY TO NEW LOCATION OF RELOCATED PANEL. CONTRACTOR SHALL EVALUATE CONDITION OF EXISTING WIRING AND RACEWAY AND REPLACE BACK TO SOURCE IF NECESSARY. CONTRACTOR SHALL REPLACE EXISTING WIRING, BACK TO SOURCE, IF EXISTING EXTENDED WIRING DOES NOT REACH LOCATION OF RELOCATED EQUIPMENT.



A 3rd Fl Key Plan
Scale: None

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. ALL OF THE CONTRACT DOCUMENTS, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISIONS 1 GENERAL REQUIREMENTS, APPLY TO THE WORK OF THIS SECTION.
- B. EXAMINE ALL DRAWINGS AND ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR REQUIREMENTS AFFECTING THE WORK OF THIS SECTION.

1.2 SCOPE

- A. PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT FOR THE INSTALLATION OF THE COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- B. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
 1. PRIMARY SERVICE INCLUDING CONDUIT RISER, RACEWAYS, RIGID STEEL SWEEPS, AND CONCRETE PAD PER LOCAL POWER COMPANY REQUIREMENTS.
 2. PRIMARY AND SECONDARY DUCT BANK INCLUDING CONDUIT SPACERS, CONCRETE, STEEL REINFORCING AS REQUIRED AND MARKER TAPE 7' BELOW GRADE.
 3. CONCRETE PAD, GROUNDING, REINFORCING, FOR LOCAL POWER COMPANY.
 4. TRENCHING, BACKFILLING, SOIL OR HYDRO SEEDING, COORDINATE WITH GENERAL CONTRACTOR.
 5. SECONDARY ELECTRIC SERVICE INCLUDING SECONDARY SERVICE ENTRANCE RACEWAYS, CABLES, CONDUIT BUSHINGS AND GROUNDING.
 6. FREE STANDING SWITCHBOARDS INCLUDING VERTICAL FULL SECTION, MAIN CIRCUIT BREAKER, CURRENT TRANSFORMER COMPARTMENT WITH UTILITY METER, AMMETER, AMMETER SWITCH, VOLTMETER, VOLTMETER SWITCH, P/Y'S AND C/T'S, FEEDER CUBICLE WITH FEEDER BREAKERS.
 7. FEEDERS, BRANCH CIRCUIT WIRING AND RACEWAYS.
 8. CONDUIT, WIRE, BOXES, FITTINGS, HANGERS AND SUPPORTS.
 9. SWITCHES, RECEPTACLES, SPECIAL PURPOSE OUTLETS AND WALL PLATES.
 10. SAFETY DISCONNECTS SWITCHES, NON-FUSED AND FUSED WITH FUSES.
 11. LIGHTING SYSTEM INCLUDING LAMPS, LENSES, BALLASTS, DEVICES, CONTROLS AND CONTROLS.
 12. MOTOR CONNECTIONS AND CONTROLS.
 13. SURGE PROTECTIVE DEVICES SHALL BE PROVIDED PER NEC 700.28 TO ENSURE RELIABILITY OF CRITICAL EMERGENCY SYSTEMS SUCH AS EMERGENCY LIGHTING PANELS, EMERGENCY COMMUNICATION SYSTEMS, FIRE CONTROL SYSTEMS, ELEVATORS USED FOR EVACUATIONS.
 14. SYSTEM GROUNDING.
 15. POWER CONNECTIONS TO ALL PLUMBING, MECHANICAL, AND ALL OTHER EQUIPMENT.
 16. NAMEPLATES ON ALL MAJOR ELECTRICAL EQUIPMENT AND COMPONENTS.
 17. UNDERGROUND FIRE ALARM SERVICE WITH MSIA FIRE ALARM CABLE PER LOCAL FIRE ALARM CRITERIA.
 18. ADDRESSABLE FIRE ALARM SYSTEM, ANALOG SMOKE AND HEAT DEVICES, MONITORING DIMENSIONAL WIRE RACEWAYS, 24V D.C. STROBES, CONTROL PANEL WITH BUILT-IN AND REMOTE KODI DISPLAYS.
 19. CHARACTERISTICS AND RATING ON, AND FINAL CONNECTION BY FIRE ALARM TESTING AGENCY OF RECORD.
 20. PROGRAMMING OF NEW FIRE ALARM SYSTEM.
 21. TEMPORARY LIGHT, POWER AND PANEL FOR USE DURING CONSTRUCTION.
 22. DATA, COMPUTER AND TELEPHONE DUPLEX BOXES WITH FULL STRING TO TELEPHONE BACKROOMS.
 23. SEAL PENETRATIONS BETWEEN FOUNDATION FLOORS AND WALLS WITH FIRE RESISTANT MATERIAL.
 24. SEAL ALL CABLES AND CONDUITS FOR WATER/MOISTURE PENETRATION USING OZ GELTY PRODUCTS. REFER TO RACEWAYS SECTION FOR DETAILS.
 25. OBTAIN ALL PERMITS AND ASSOCIATED FEES.
 26. INTERIOR SECONDARY DISTRIBUTION SYSTEMS INCLUDING MAIN SWITCHBOARD, CURRENT LIMITER CABINET, TYPE 1/2 INCH TRANSFORMER BANKS, ALL DISTRIBUTION PANELBOARDS, MOTOR CONTROLS, MAGNETIC STARTERS, OVERCURRENT AND SHORTCIRCUIT DEVICES, RACEWAYS, CABLES, WIRING, JUNCTION BOXES AND FULL BOXES, WIRWAYS, AND ALL OTHER COMPONENTS REQUIRED FOR COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
 27. AN ADDRESSABLE FIRE ALARM SYSTEM COMPLETE WITH ALL DEVICES AND WIRING INCLUDING MANUAL CONNECTIONS.
 28. TESTING OF ALL ELECTRICAL SYSTEMS.
 29. ACCESS PANELS (FURNISH ONLY).
 30. COORDINATION BETWEEN ELECTRICAL AND OTHER TRADES.
 31. POWER WIRING FOR ELEVATORS AND ASSOCIATED EQUIPMENT.
 32. LIGHTING CONTROL AND DIMMING SYSTEM.
 33. INTERCOM SYSTEM COMPLETE WITH WIRING COMPONENTS AND PROGRAMMING.
 34. ALL OTHER SYSTEMS HEREIN/NOT SPECIFIED OR INDICATED ON THE CONTRACT DRAWINGS, COMPLETE LEAVING READY AN ELECTRICAL SYSTEM IN PERFECT OPERATING CONDITION.

1.3 DEFINITIONS

- A. AS USED IN THIS SECTION, PROVIDE MEANS FURNISH AND INSTALL AND POS MEANS PROVIDED UNDER OTHER SECTIONS.
- B. AS USED IN THE DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL WORK, CERTAIN NON-TECHNICAL WORDS SHALL BE UNDERSTOOD TO HAVE SPECIFIC MEANINGS AS FOLLOWS REGARDLESS OF INDICATIONS TO THE CONTRARY IN THE GENERAL CONDITIONS OR OTHER DOCUMENTS GOVERNING THE ELECTRICAL WORK:
 - 1. FURNISH PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH ALL NECESSARY APPURTENANCES AND SUPPORT, ALL AS PART OF THIS WORK.
 - 2. PURCHASING SHALL INCLUDE PAYMENT OF ALL SALES TAXES AND OTHER CHARGES FOR ANY AND ALL ADVICES, CONNESSIONS RESULTING FROM THE DEVIATIONS BEING IMPLEMENTED. THIS SHALL APPLY REGARDLESS OF WHETHER THE ARCHITECT HAS REVIEWED OR APPROVED SHOP DRAWINGS CONTAINING THE DEVIATION, AND WILL BE STRICTLY ENFORCED.

INSTALL UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THIS WORK. PROVIDE FURNISH AND INSTALL.

- A. NEW MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.
- B. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ELECTRICAL ITEM IN THE DRAWINGS OR SPECIFICATIONS FOR ELECTRICAL WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEM AS PART OF THE ELECTRICAL WORK, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.
- C. IT SHALL BE UNDERSTOOD THAT THE SPECIFICATIONS AND DRAWINGS FOR ELECTRICAL WORK ARE COMPLEMENTARY AND ARE TO BE TAKEN TOGETHER FOR A COMPLETE INTERPRETATION OF THE ELECTRICAL WORK EXCEPT THAT INDICATIONS ON THE DRAWINGS, WHICH REFER TO AN INDIVIDUAL ELEMENT OF WORK, TAKE PRECEDENCE OVER THE SPECIFICATIONS WHERE THEY CONFLICT WITH SAME.

1.4 WORK BY OTHERS

- A. THE FOLLOWING IS RELATED WORK SPECIFIED ELSEWHERE:
 1. HVAC EQUIPMENT INCLUDING PROVIDING INDIVIDUAL MOTOR STARTERS, ADJUSTABLE FREQUENCY DRIVES, CONTROL WIRING, VARIABLE SPEED SWITCHES AND DEVICES SHALL BE PROVIDED BY HVAC CONTRACTOR.
 2. TEMPERATURE CONTROL WIRING BY HVAC CONTRACTOR.
 3. CHARGES FOR POWER CONSUMED BY THE TEMPORARY LIGHT AND POWER SYSTEM FOR CONSTRUCTION WILL BE PAID BY THE GENERAL CONTRACTOR.
 4. ACCESS PANELS, WHERE REQUIRED, ARE FURNISHED BY THE GENERAL CONTRACTOR AND COORDINATED WITH THIS SECTION.
 5. ALL DUCT SMOKE DETECTORS SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR, WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INCLUDE REMOTE TEST PANELS.

1.5 CODES, PERMITS & STANDARDS

- A. PROVIDE ALL PERMITS AND LICENSES, OBTAIN AND PAY ALL CERTIFICATES OF INSPECTION AS REQUIRED BY REGULATORY AGENCIES AND SUBMIT FOR APPROVAL.
- B. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND DESIGNED, CONSTRUCTED, INSTALLED AND TESTED IN ACCORDANCE WITH THE SPECIFICATION AND THE FOLLOWING STANDARDS:
 1. MASSACHUSETTS ELECTRICAL CODE (MEC).
 2. NATIONAL ELECTRICAL CODE (NEC)
 3. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
 4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 5. UNDERWRITERS LABORATORY (UL)
 6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 7. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 8. AMERICANS WITH DISABILITIES ACT (ADA)
 9. NATIONAL ELECTRIC SAFETY CODE (NEISC)
 10. NEC ARTICLE 110 - FLASH PROTECTION MASSACHUSETTS BUILDING CODE.
 11. INTERNATIONAL BUILDING CODE (IBC)

1.6 PROTECTION AND CLEANING

- A. ALL ELECTRICAL EQUIPMENT AND DEVICES IN THE EXISTING BUILDING IN WHICH THE ELECTRICAL WORK IS TO BE DONE UNDER CONTRACT SHALL BE PROTECTED FROM SCRATCHES, PANTS, GENIE, ETC. UNTIL THE WORK IS COMPLETE.
- B. WHERE ELECTRICAL EQUIPMENT AND/OR DEVICES ARE INDICATED TO BE AMBUSHED AND THE OWNER ELECTS TO HAVE SPECIFIC ITEMS AND ITEMS SHOULD BE DELIVERED TO STORAGE ON SITE AT A LOCATION DESIGNATED BY THE OWNER.
- C. EXPOSED SURFACES OF ELECTRICAL EQUIPMENT & LIGHTING FIXTURES SHALL BE CLEANED UPON COMPLETION OF THE WORK.
- D. ALL DEBRIS AND MATERIAL RESULTING FROM ELECTRICAL WORK SHALL BE REMOVED FROM THE PROPERTY EACH AND EVERY DAY AND SHALL BE DISPOSED OF IN A LEGAL MANNER. WORKSPACE SHALL BE LEFT CLEAN AS ELECTRICAL WORK IS COMPLETED.
- E. DAMAGED TO COVERS AND TRIMS OF ELECTRICAL EQUIPMENT SHALL BE REPAIRED AND PAINTED WITH TOUCH UP PAINT SUPPLIED BY THE EQUIPMENT MANUFACTURER TO THE SATISFACTION OF THE OWNER'S DESIGNATED REPRESENTATIVE OR THE ARCHITECT OR THE EQUIPMENT SHALL BE REPLACED WITH NEW.

1.7 INTERPRETATION OF PLANS

- A. ALL WORK SHOWN ON THE PLANS IS INTENDED TO BE APPROXIMATELY CORRECT TO SCALE BUT POSSIBLE DIMENSIONS AND DETAILS DRAWINGS ARE TO BE FOLLOWED IN EVERY CASE. THE DRAWINGS SHALL BE TAKEN AS DIAGRAMMATIC. RACEWAYS, WIRING AND PROTECTION METHODS OF RACEWAYS ARE SHOWN BUT IS NOT INTENDED TO SHOW ANY OFFSET AND FITTING NOR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED, TO CORRECTLY INTERPRET AND DETERMINE THE INTENT AND PURPOSES OF THE PLANS, SUPPLY AND INSTALL COMPONENTS NECESSARY TO PROVIDE COMPLETE WORKING SYSTEMS, READY FOR USE WITH NO ADDITIONAL COST TO THE OWNER.

1.8 SHOP DRAWINGS

- A. DEFINITIONS
 1. SHOP DRAWINGS ARE INFORMATION PREPARED BY THE CONTRACTOR TO ILLUSTRATE PORTIONS OF THE WORK IN MORE DETAIL THAN SHOWN IN THE CONTRACT DOCUMENTS.
 2. COORDINATION DRAWINGS ARE DETAILED, LARGE-SCALE LAYOUT SHOP DRAWINGS SHOWING HVAC, ELECTRICAL PLUMBING AND FIRE PROTECTION WORK SUPERIMPOSED IN ORDER TO IDENTIFY CONFLICTS AND ENSURE INTER-COORDINATION OF MECHANICAL, ELECTRICAL, ARCHITECTURAL, STRUCTURAL AND OTHER WORK.

B. SUBMITTAL COVER SHEET

- 1. SHOP DRAWINGS SHALL BE SUBMITTED ACCORDING TO SPECIFICATION SECTION WITH A SEPARATE COVER SHEET COMPLETED FOR EACH PRODUCT, RATHER THAN ONE COVER SHEET FOR MULTIPLE PRODUCTS, WHETHER OR NOT SUPPLIED BY ONE MANUFACTURER OR VENDOR.

C. SUBMITTAL PROCEDURES AND FORMAT

- 1. REVIEW SUBMITTAL PACKAGES FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THEN SUBMIT TO ARCHITECT FOR REVIEW.
- 2. PROVIDE ADDITIONAL COPIES OF REVIEWED SHOP DRAWINGS AS REQUIRED FOR FULL DISTRIBUTION.
- 3. SHOP DRAWINGS SHOWING LAYOUTS OF SYSTEMS SHALL CONTAIN SUFFICIENT PLANS, ELEVATIONS, SECTIONS, DETAILS AND SCHEMATICS TO BE UNDERSTOOD CLEARLY. THEY SHALL BE 1/8" = 1' - 0" SCALE UNLESS SPECIFIED OTHERWISE. SHEET METAL SHOP DRAWINGS SHALL SHOW CLEARLY THE LOCATION OF ALL OTHER SYSTEMS WHERE INTERFERENCES ARE POSSIBLE. PROVIDE LARGER SCALE DETAILS AS NECESSARY. SHOP DRAWINGS SHALL SHOW LAYOUTS OF ALL OTHER SYSTEMS REFLECTED CEILING PLAN, EXPOSED OUTCROPPING, WALLS AND PARTITIONS, OFFICERS, REGISTER, ORIENT FIRE DAMPERS, SLEEVES AND OTHER ASPECTS OF CONSTRUCTION AS NECESSARY FOR COORDINATION.
- 4. ALL FIREALLS AND SMOKE PARTIONS MUST BE HIGHLIGHTED ON THE SHEET METAL DRAWINGS FOR APPROPRIATE COORDINATION.

- 5. SHOP DRAWINGS SHOWING MANUFACTURER'S PRODUCT DATA SHALL CONTAIN DETAILED DIMENSIONAL DRAWINGS, ACCURATE AND COMPLETE DESCRIPTION OF CONSTRUCTION MATERIALS, MANUFACTURER'S PUBLISHED PERFORMANCE CHARACTERISTICS AND RATING ON, AND FINAL CONNECTION BY FIRE ALARM TESTING AGENCY OF RECORD.

- 21. TEMPORARY LIGHT, POWER AND PANEL FOR USE DURING CONSTRUCTION.
- 22. DATA, COMPUTER AND TELEPHONE DUPLEX BOXES WITH FULL STRING TO TELEPHONE BACKROOMS.

- 23. SEAL PENETRATIONS BETWEEN FOUNDATION FLOORS AND WALLS WITH FIRE RESISTANT MATERIAL.
- 24. SEAL ALL CABLES AND CONDUITS FOR WATER/MOISTURE PENETRATION USING OZ GELTY PRODUCTS. REFER TO RACEWAYS SECTION FOR DETAILS.

- 25. OBTAIN ALL PERMITS AND ASSOCIATED FEES.
- 26. INTERIOR SECONDARY DISTRIBUTION SYSTEMS INCLUDING MAIN SWITCHBOARD, CURRENT LIMITER CABINET, TYPE 1/2 INCH TRANSFORMER BANKS, ALL DISTRIBUTION PANELBOARDS, MOTOR CONTROLS, MAGNETIC STARTERS, OVERCURRENT AND SHORTCIRCUIT DEVICES, RACEWAYS, CABLES, WIRING, JUNCTION BOXES AND FULL BOXES, WIRWAYS, AND ALL OTHER COMPONENTS REQUIRED FOR COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.

- 27. AN ADDRESSABLE FIRE ALARM SYSTEM COMPLETE WITH ALL DEVICES AND WIRING INCLUDING MANUAL CONNECTIONS.
- 28. TESTING OF ALL ELECTRICAL SYSTEMS.
- 29. ACCESS PANELS (FURNISH ONLY).
- 30. COORDINATION BETWEEN ELECTRICAL AND OTHER TRADES.
- 31. POWER WIRING FOR ELEVATORS AND ASSOCIATED EQUIPMENT.
- 32. LIGHTING CONTROL AND DIMMING SYSTEM.
- 33. INTERCOM SYSTEM COMPLETE WITH WIRING COMPONENTS AND PROGRAMMING.
- 34. ALL OTHER SYSTEMS HEREIN/NOT SPECIFIED OR INDICATED ON THE CONTRACT DRAWINGS, COMPLETE LEAVING READY AN ELECTRICAL SYSTEM IN PERFECT OPERATING CONDITION.

- D. ACCEPTABLE MANUFACTURERS
 1. ALTERNATE MANUFACTURERS ARE ACCEPTABLE ONLY IF, AS A MINIMUM, THEY:
 - A. MEET ALL PERFORMANCE CRITERIA LISTED IN THE SCHEDULES AND DETAILED IN THE SPECIFICATIONS.
 - B. HAVE IDENTICAL OPERATING CHARACTERISTICS TO THOSE CALLED FOR IN THE SPECIFICATION.
 - C. FIT WITHIN THE AVAILABLE SPACE IF WAS DESIGNED FOR, INCLUDING SPACE FOR MAINTENANCE AND COMPONENT REMOVAL, WITH NO MODIFICATION TO EITHER SPACE OR THE PRODUCT. CLEANLINESS TO WALLS, CEILING AND OTHER EQUIPMENT SHALL BE AT LEAST EQUAL TO THOSE SHOWN ON THE DESIGN DRAWINGS.
 2. FOR ROOFTOP MOUNTED EQUIPMENT AND FOR EQUIPMENT MOUNTED IN AREAS WHERE STRUCTURAL MATTERS ARE A CONSIDERATION, THE PRODUCTS MUST BE IDENTICAL TO THOSE LISTED IN THE SPECIFICATIONS.

- E. PRODUCTS MUST ADHERE TO ALL ARCHITECTURAL CONSIDERATIONS INCLUDING, BUT NOT LIMITED TO, BEING OF THE SAME COLOR AS THE PRODUCT SCHEDULED OR SPECIFIED, FITTING WITHIN ARCHITECTURAL ENCLOSURES AND DETAILS AND FOR OFFICERS, LIGHTING AND PLUMBING FIXTURES-BEING THE SAME SIZE AND OF THE SAME PHYSICAL APPEARANCE AS SCHEDULED OR SPECIFIED PRODUCTS.

- F. DEVIATIONS
 1. CONCERNING DEVIATIONS OTHER THAN SUBSTITUTIONS, PROPOSED DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE REQUESTED INDIVIDUALLY IN WRITING. WHETHER DEVIATIONS RESULT FROM FIELD CONDITIONS, STANDARD SHOP PRACTICE, OR OTHER CAUSES, SUBMIT LETTER WITH TRANSMITTAL OF SHOP DRAWINGS, WHICH FLAG THE DEVIATION TO THE ATTENTION OF THE ARCHITECT.
 2. WITHOUT LETTERS FLAGGING THE DEVIATION TO THE ARCHITECT, IT IS POSSIBLE THAT THE ARCHITECT MAY NOT NOTICE SUCH DEVIATION OR NOT REALIZE ITS RAMIFICATIONS. THEREFORE, IF SUCH LETTERS ARE NOT SUBMITTED TO THE ARCHITECT, THE CONTRACTOR SHALL HOLD THE ARCHITECT AND HIS CONSULTANTS HARMLESS FOR ANY AND ALL ADVICES, CONNESSIONS RESULTING FROM THE DEVIATIONS BEING IMPLEMENTED. THIS SHALL APPLY REGARDLESS OF WHETHER THE ARCHITECT HAS REVIEWED OR APPROVED SHOP DRAWINGS CONTAINING THE DEVIATION, AND WILL BE STRICTLY ENFORCED.

- 3. APPROVAL OF PROPOSED DEVIATIONS, IF ANY, WILL BE MADE AT THE DISCRETION OF THE ARCHITECT.

- F. RESPONSIBILITY
 1. INTENT OF SUBMITTAL REVIEW IS TO CHECK FOR CLARITY, RATING, AND CERTAIN CONSTRUCTION FEATURES. CONTRACTOR SHALL ENSURE THAT WORK MEETS REQUIREMENTS OF CONTRACT DOCUMENTS REGARDING INFORMATION THAT PERTAINING TO FABRICATION PROCESSES OR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; AND FOR COORDINATION OF WORK OF THIS AND OTHER SECTIONS. WORK SHALL COMPLY WITH SUBMITTALS MARKED "REVIEWED" TO EXTENT THAT THEY AGREE WITH CONTRACT DOCUMENTS. SUBMITTAL REVIEW SHALL NOT DIMINISH RESPONSIBILITY UNDER THIS CONTRACT FOR DIMENSIONAL COORDINATION, QUANTITIES, INSTALLATION, MATERIALS, SUPPORTS AND ACCESS FOR SERVICE, NON SHOP DRAWING ERRORS, OR DEVIATIONS FROM REQUIREMENTS OF CONTRACT DOCUMENTS. THE ARCHITECT'S NOTING OF SOME ERRORS WHILE OVERLOOKING OTHERS WILL EXCUSE THE CONTRACTOR FROM PROCEEDING IN ERROR. CONTRACT DOCUMENTS REQUIREMENTS SHALL BE ENFORCED, UNLESS NON-SUBMITTED TO ANY BY REVIEW.

- 2. INFORM SUBMITTALS, MANUFACTURERS, SUPPLIERS, ETC. OF SCOPE AND LIMITED NATURE OF REVIEW PROCESS AND ENFORCE COMPLIANCE WITH CONTRACT DOCUMENTS.

- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DRAWINGS AND SPECIFICATIONS THOROUGHLY DURING BID PROCESS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT VIA RFI (REQUEST FOR INFORMATION) IF ANY CONFLICTS ARISE. FAILURE TO IDENTIFY THE DISCREPANCIES DURING THE BID PROCESS SHALL DISQUALIFY THE CONTRACTOR FOR CLAIMING ANY ADDITIONAL COMPENSATION.

- 4. SHOP DRAWINGS FOR ENTIRE DISTRIBUTION SYSTEM WILL NOT BE SUBMITTED UNTIL AFTER THE COMPLETION OF THE SHORT CIRCUIT STUDY. EQUIPMENT AND RATING SHALL MATCH WITH THE RESULTS OF THE STUDY. SERIES RATING OF DEVICES WILL NOT BE ACCEPTED.

- G. SCHEDULE: INCORPORATE SHOP DRAWING REVIEW PERIOD INTO CONSTRUCTION SCHEDULE SO THAT WORK IS NOT DELAYED. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DELAYS CAUSED BY NOT INCORPORATING THE FOLLOWING SHOP DRAWING REVIEW TIME REQUIREMENTS INTO HIS PROJECT SCHEDULE. WORKING DAYS LISTED REFERENCE THE TIME IN THE ENGINEER'S OFFICE. IT DOES NOT INCLUDE TRANSIT/MAIL TIME FOR REVIEW EACH TIME SHOP DRAWING IS SUBMITTED OR RESUBMITTED.

- H. LIST OF PROPOSED EQUIPMENT AND MATERIALS
 1. WITHIN FOUR WEEKS AFTER AWARD OF CONTRACT AND BEFORE ORDERING MATERIALS OR EQUIPMENT, SUBMIT COMPLETE LIST OF PROPOSED MATERIALS AND EQUIPMENT AND INDICATE MANUFACTURER'S NAMES AND ADDRESSES. NO CONSIDERATION WILL BE GIVEN TO PARTIAL LISTS SUBMITTED OUT OF SEQUENCE.

- I. SUBMIT SHOP DRAWINGS IN PDF FORMAT AND ELECTRONICALLY FOR THE FOLLOWING:
 1. PANELBOARDS
 2. LOAD CENTERS
 3. CIRCUIT BREAKERS AND ENCLOSURES
 4. SWITCHBOARDS
 5. DISCONNECT SWITCHES
 6. CONDUIT, WIRE, FEEDERS, CABLES AND BRANCH CIRCUIT WIRING
 7. MANUAL MOTOR STARTERS
 8. WIRE WAHS, OUTLET BOXES, COVERS
 9. SWITCHES, RECEPTACLES, SPECIAL PURPOSE DEVICES AND PLATES
 10. LIGHTING FIXTURES AND LAMPS
 11. FIRE ALARM SYSTEM (ADDRESSABLE)
 12. APARTMENT ENTRY SYSTEM
 13. SHORT-CIRCUIT ANALYSIS
 14. PROTECTIVE DEVICE TIME CURRENT COORDINATION ANALYSIS
 15. AND FLASH HAZARD ANALYSIS.

- J. SUBMITTAL DOCUMENTATION REQUIREMENTS
 1. FURNISH DOCUMENTATION ASSOCIATED WITH THIS BID PROPOSAL AND CONTRACT INCLUDING SUBMITTALS, SHOP DRAWINGS, DATA MANUALS, AND TEST REPORTS AS FOLLOWS. THESE REQUIREMENTS ARE IN ADDITION TO SUBMITTAL REQUIREMENTS STATED ELSEWHERE AND SHALL NOT DEPRIVE THE OWNER OF RIGHTS UNDER OTHER PROVISIONS OF THE CONTRACT DOCUMENTS.
 1. SUBMIT SIX (6) HARD COPIES OF DOCUMENTATION FOR REVIEW.
 2. SUBMIT DOCUMENTS IN PORTABLE DOCUMENT FORMAT (PDF).
 3. SUBMIT DOCUMENTS IN AUTOCAD - LATEST VERSION FOR DRAWINGS AND MICROSOFT WORD (LATEST VERSION) FOR TEXT FORMAT WHEN REQUESTED.

- B. PROVIDE A COMPLIANCE REVIEW OF EACH SECTION OF THE SPECIFICATIONS, DRAWINGS AND GENERAL CONDITIONS. THE COMPLIANCE REVIEW SHALL BE A PARAGRAPH-BY-PARAGRAPH REVIEW OF THE SPECIFICATIONS WITH THE FOLLOWING INFORMATION: 907, 909 OR 917 MARKED WITH THE MARION OF THE ORIGINAL SPECIFICATIONS AND ANY SUBSEQUENT AMENDMENTS.
 1. 70% COMPLY WITH NO EXCEPTIONS.
 2. 70% COMPLY WITH DEVIATIONS. FOR EACH AND EVERY DEVIATION, PROVIDE A NUMBERED FOOTNOTE WITH REASONS FOR THE PROPOSED DEVIATION AND HOW THE INTENT OF THE SPECIFICATION CAN BE SATISFIED.
 3. 70% EXCEPTION, DO NOT COMPLY, FOR EACH AND EVERY EXCEPTION, PROVIDE A NUMBERED FOOTNOTE WITH REASONS AND POSSIBLE ALTERNATIVES.

- C. UNLESS A DEVIATION OR EXCEPTION IS SPECIFICALLY NOTED IN THE COMPLIANCE REVIEW, IT IS ASSUMED THAT THE BIDDER IS IN COMPLETE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. DEVIATIONS OR EXCEPTIONS TAKEN IN COVER LETTERS, SUBSIDIARY DOCUMENTS, BY OMISSION OR BY CONTRADICTION DO NOT RELEASE THE BIDDER FROM BEING IN COMPLETE COMPLIANCE. UNLESS THE CONTRACTOR OR DEVIATION HAS BEEN SPECIFICALLY NOTED IN THE COMPLIANCE REVIEW, BIDDER MAY SUBMIT THE LATEST STATE-OF-THE-ART COMPONENTS AND THEIR STANDARD CONTROL COMPONENTS IN LIEU OF THE SPECIFIED ITEMS. THE A/E AND OWNER WILL REVIEW DEVIATIONS FROM THE SPECIFICATIONS.

1.10 CONTINUITY OF SERVICES

- A. WORK UNDER THIS SECTION INCLUDES NEW WORK AND WORK ON EXISTING SYSTEMS WITHIN EXISTING BUILDING. PERFORM SUCH WORK SO AS NOT TO INTERFERE WITH THE OWNERS OPERATION WHERE WORK NECESSITATES INTERRUPTION OF SERVICES. SCHEDULE OUTAGES WITH THE OWNER AND ENGINEER AND PERFORM THE WORK AT SUCH TIMES AS THEY SHALL DIRECT.

1.11 RECORD DRAWINGS

- A. FOR THE DURATION OF THE CONTRACT THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS, ALL COMPLETED WORK AND ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS. ALL SUCH DRAWINGS SHALL BE CLEARLY AND ACCURATELY RECORDED DRAWINGS SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE WORK.

- B. ELECTRONIC FILES ARE AVAILABLE TO FACILITATE THE PREPARATION OF RECORD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A FULL REPRESENTATION OF THE SCOPE OF WORK. THESE FILES ARE AVAILABLE FROM WORDSWORTH & ASSOCIATES, INC. AT A COST OF \$500.00 PER DRAWING FILE.

1.12 COORDINATION

- A. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES AND PARTIES TO AVOID CONFLICTS. NO ADDITIONAL CHARGES WILL BE INCURRED FOR THE WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AFTER THE BIDS HAVE BEEN ACCEPTED.

1.13 TEMPORARY FACILITIES

- A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE, AT HIS OWN EXPENSE, HIS OWN FIELD OFFICE, FURNISH ALL TOOLS, EQUIPMENT, SCAFFOLDING AND TEMPORARY CONSTRUCTION REQUIRED FOR THE EXECUTION OF THE ELECTRICAL WORK.
- B. ALL SCAFFOLDING AND OTHER TEMPORARY CONSTRUCTION SHALL BE RIDGELY BUILT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS, AND SHALL BE REMOVED FROM THE PREMISES UPON COMPLETION OF THE WORK.
- C. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TRANSFORMERS, PLYWOOD, PANEL BOARDS, WIRING AND OTHER ELECTRICAL EQUIPMENT TO SUPPORT THE NEEDS OF TEMPORARY LIGHT AND POWER. UTILIZE NEW SERVICE ENTRANCE CONDUITS FOR TEMPORARY POWER REQUIREMENTS WHERE PRACTICAL.
- D. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, THE UTILITY COMPANY AND INCLUDE ALL COSTS ASSOCIATED WITH THE INSTALLATION OF TELEPHONES DURING THE CONSTRUCTION PERIOD. INCLUDE TELEPHONE SERVICE FOR ALL CONSTRUCTION TRAILERS.

1.14 COORDINATION DRAWINGS

- A. BEFORE MATERIALS ARE PURCHASED OR WORK BEGUN, THE ELECTRICAL CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS SHOWING THE SIZE AND LOCATION OF ELECTRICAL EQUIPMENT AND CONDUIT RUNS AND OTHER EQUIPMENT RELATED TO THE ELECTRICAL WORK.
- B. COORDINATION DRAWINGS ARE FOR THE GENERAL CONTRACTOR'S AND THE ENGINEER'S USE DURING CONSTRUCTION AND SHALL NOT BE CONTROLLED AS REPLACING ANY SHOP, AS BUILT OR RECORD DRAWINGS REQUIRED ELSEWHERE IN THIS CONTRACT DOCUMENT.

1.15 OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS

- A. INSTRUCT TO THE OWNER'S SATISFACTION SUCH PERSONS AS THE OWNER DESIGNATES, IN THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS AND THEIR PARTS.
- B. FURNISH OPERATING AND MAINTENANCE MANUALS AND FORWARD SAME TO THE ENGINEER FOR TRANSMITTAL TO THE OWNER.
- C. OPERATING INSTRUCTIONS SHALL BE SPECIFIC FOR EACH SYSTEM AND SHALL INCLUDE COPIES OF POSTED SPECIFIC INSTRUCTIONS.
- D. FOR MAINTENANCE PURPOSES, PROVIDE SHOP DRAWINGS, PARTS LISTS, SPECIFICATIONS AND MANUFACTURER'S MAINTENANCE BULLETINS FOR EACH PIECE OF EQUIPMENT.

1.16 WORKMANSHIP

- A. THE ENTIRE WORK INSTALLED IN THIS SPECIFICATION AND AS SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED AND FINISHED BY MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; AND FOR COORDINATION OF WORK OF THIS AND OTHER SECTIONS. WORK SHALL COMPLY WITH SUBMITTALS MARKED "REVIEWED" TO EXTENT THAT THEY AGREE WITH CONTRACT DOCUMENTS. SUBMITTAL REVIEW SHALL NOT DIMINISH RESPONSIBILITY UNDER THIS CONTRACT FOR DIMENSIONAL COORDINATION, QUANTITIES, INSTALLATION, MATERIALS, SUPPORTS AND ACCESS FOR SERVICE, NON SHOP DRAWING ERRORS, OR DEVIATIONS FROM REQUIREMENTS OF CONTRACT DOCUMENTS. THE ARCHITECT'S NOTING OF SOME ERRORS WHILE OVERLOOKING OTHERS WILL EXCUSE THE CONTRACTOR FROM PROCEEDING IN ERROR. CONTRACT DOCUMENTS REQUIREMENTS SHALL BE ENFORCED, UNLESS NON-SUBMITTED TO ANY BY REVIEW.

- 2. REMOVE ONLY ALL RUBBISH AND DEBRIS AND ALL REFUSE FROM WORKMEN'S LUNCHES AND AT COMPLETION REMOVE ALL HIS SURPLUS MATERIALS, AND LEAVE IN CLEAN CONDITION ACCEPTABLE TO THE OWNER'S ENGINEER.

1.17 PROTECTION

- A. FURNISH AND INSTALL ALL SLEEVES, INSERTS, ANCHOR BOLTS AND SIMILAR ITEMS TO BE SET INTO MASONRY OR CONCRETE, AS REQUIRED FOR MECHANICAL AND ELECTRICAL SYSTEMS OF THE ARCHITECT.

1.18 EXAMINATION OF SITE AND CONTRACT DOCUMENTS

- A. BEFORE SUBMITTING PRICES OR BEGINNING WORK, THOROUGHLY MAKE AN EXAMINATION OF THE SITE.

1.19 ACCESSIBILITY

- A. INSTALL ALL WORK SUCH THAT PARTS REQUIRING PERIODIC INSPECTION, OPERATION, MAINTENANCE AND REPAIR ARE READILY ACCESSIBLE.

1.20 TOOLS AND EQUIPMENT

- A. PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR THE FABRICATION AND INSTALLATION OF THE MECHANICAL AND ELECTRICAL EQUIPMENT AT THE SITE.

1.21 PORTABLE AND DETACHABLE PARTS

- A. CONTRACTORS SHALL RETAIN IN THEIR POSSESSION ALL PORTABLE AND/OR DETACHABLE PARTS AND PORTIONS OF MATERIALS, DEVICES, EQUIPMENT ETC. NECESSARY FOR THE PROPER OPERATION AND MAINTENANCE OF THE MECHANICAL AND ELECTRICAL SYSTEMS UNTIL FINAL COMPLETION OF THE WORK, AT WHICH TIME THEY SHALL BE HANDLED OVER TO THE OWNERS.

1.22 RECORD DRAWINGS, PROJECT CLOSEOUT

- A. AS WORK PROGRESSES AND FOR THE DURATION OF CONTRACT, MAINTAIN A COMPLETE AND SEPARATE SET OF PRINTS OF CONTRACT DRAWINGS AT JOB SITE. ALL TRADES SHALL REVIEW AND APPROVE ANY CHANGES FROM ORIGINAL CONTRACT DRAWINGS CLEARLY AND ACCURATELY INCLUDING WORK RECALLED AS A MODIFICATION OR ADDITION TO THE ORIGINAL DESIGN. WORK SHALL BE UPDATED ON A DAILY BASIS AND SHALL BE MADE AVAILABLE FOR REVIEW BY WHOEVER IS REQUIRED. THIS WORK SHALL BE REVISIONATED BEFORE PURCHASING OR ORDERING PARTS. IN ADDITION, THE PHOTOGRAPHS OF ALL CONSIDERABLE EQUIPMENT IN OPEN BOARD CEILING, SHIFTS, AND OTHER CONCEALED, ACCESSIBLE WORK, AT COMPLETION OF WORK, HAVE COPIES OF PHOTOGRAPHS WITH WRITTEN EXPLANATION ON BACK. THIS SHALL BECOME PART OF RECORD DOCUMENTS.

1.23 ARCHITECT WILL NOT CERTIFY THE ACCURACY OF THE RECORD DRAWINGS. THIS IS SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

- D. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE HVAC, PLUMBING AND FIRE PROTECTION CONTRACTORS WITH REGARD TO FEEDER, RACEWAY, AND CIRCUIT BREAKER AND DISCONNECT SWITCH SIZES. IF A SUBSTITUTION OF HVAC, PLUMBING, OR FIRE PROTECTION EQUIPMENT IS PROPOSED BY A TRADE CONTRACTOR, IT SHALL BECOME THE RESPONSIBILITY OF THAT SUBCONTRACTOR TO COORDINATE WITH THE ELECTRICAL CONTRACTOR. ALL CHANGES WITH REGARD TO FEEDER, RACEWAY, AND CIRCUIT BREAKER AND DISCONNECT SWITCH SIZES, THE SHOP DRAWINGS SHALL CLEARLY INDICATE WHAT CHANGES ARE REQUIRED AND ANY ADDITIONAL COSTS ASSOCIATED WITH THE CHANGE. IF COORDINATION DOES NOT OCCUR, THE SUBCONTRACTOR PROPOSING THE CHANGE SHALL BE RESPONSIBLE FOR ALL COSTS THAT OCCUR DUE TO THE SUBSTITUTION.

- E. WHENEVER THE CONTRACTOR SECURES APPROVAL FOR CHANGING ANY ITEMS AND SUCH CHANGES INVOLVE A CORRESPONDING CHANGE OR DEVIATION IN ANY ADJUSTMENT OR RELATED ITEM, THE RESPONSIBILITY FOR MAKING THE REQUIRED CHANGE, OR SEEING THAT IT IS MADE, RESTS WITH THE CONTRACTOR. THE COST OF THESE CHANGES AND/OR ADJUSTMENTS SHALL BE PAID FOR BY THE CONTRACTOR UNLESS IT IS OTHERWISE AGREED, IN WRITING, AT THE TIME THE CHANGE IS APPROVED. THE ACCEPTANCE OF ANY CHANGE WILL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

1.24 FIELD MEASUREMENTS

- A. THE ELECTRICAL CONTRACTOR (EC) SHALL VERIFY, IN THE FIELD, ALL MEASUREMENTS, SITE CONDITIONS NECESSARY FOR HIS WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR ACCURACY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AFTER THE BIDS HAVE BEEN ACCEPTED.

- A. THE ELECTRICAL CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH HIS WORK. FILE ALL NECESSARY PLANS, PREPARE ALL NECESSARY DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF STATE AUTHORITIES, ALL LOCAL, TOWN, CITY OR COUNTY DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR WORK.

- B. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS IN ADDITION TO THE DRAWINGS PREPARED BY THE PROJECT ENGINEER AND DOCUMENTS. IT SHALL BECOME THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO OBTAIN ALL NECESSARY APPROVALS AND TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS WHETHER OR NOT SHOWN ON THE DRAWINGS AND/OR SPECIFIED.

1.25 GUARANTEE

- A. ATTENTION IS DIRECTED TO THE PROVISIONS OF THE GENERAL CONDITIONS AND SPECIAL CONDITIONS REGARDING GUARANTEES AND WARRANTIES FOR WORK UNDER THIS CONTRACT.
- B. ELECTRICAL CONTRACTOR'S GUARANTEES SHALL BE THE SAME AS THE GENERAL CONTRACTOR'S.
- C. ALL MATERIAL, ITEMS OF EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CARRY FOR THIS STANDARD WARRANTY AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, FABRICATION, EQUIPMENT, WORKMANSHIP OR DESIGN WHICH MAY DEVELOP SHALL BE MADE GOOD, FORTHWITH BY AND AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR, INCLUDING ALL OTHER DAMAGE DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE.

- D. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE SYSTEMS OR EQUIPMENT DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR PARTS SHALL BE REPLACED BY THE ELECTRICAL CONTRACTOR AT HIS OWN COST TO THE OWNER.

1.26 INSTALLATION REQUIREMENTS

- A. THE ARRANGEMENT OF ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE MINIMUM REQUIREMENTS OF THE WORK. CONDITIONS AT THE BUILDING INCLUDING ACTUAL MEASUREMENTS SHALL DETERMINE THE DETAILS OF THE INSTALLATION. ALL WORK SHALL BE LAID OUT AND INSTALLED SO AS TO REQUIRE THE LEAST AMOUNT OF CUTTING AND PATCHING.
- B. CHECK THE ARCHITECTURAL PLANS AND SPECIFICATIONS BEFORE ORDERING ANY MATERIAL AND EQUIPMENT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS DETERMINATION PRIOR TO PROCEEDING WITH THE WORK.

- C. TYPICAL DETAILS WHERE SHOWN ON THE DRAWINGS SHALL APPLY TO EACH AND EVERY ITEM OF THE PROJECT WHERE SUCH ITEMS ARE APPLICABLE. THEY ARE NOT REPEATED IN FULL ON THE DRAWINGS, WHICH IN MANY CASES ARE DIAGRAMMATIC ONLY, BUT WITH THE INTENTION THAT SUCH DETAILS SHALL BE INCORPORATED IN FULL. ANY ALTERNATE METHOD PROPOSED FOR USE BY THE CONTRACTOR SHALL HAVE THE PRIOR APPROVAL OF THE ARCHITECT.

- D. CHECK THE ARCHITECTURAL PLANS AND SPECIFICATIONS BEFORE ORDERING ANY MATERIAL AND EQUIPMENT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS DETERMINATION PRIOR TO PROCEEDING WITH THE WORK.

- E. OBTAIN DETAILED INFORMATION FROM THE MANUFACTURERS OF APPARATUS AS TO THE WORKING METHODS OF INSTALLING AND CONNECTING EQUIPMENT. THE CONTRACTOR SHALL OBTAIN DETAILED INFORMATION FROM THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS, WHICH MAY BE NECESSARY TO FACILITATE WORK AND THE COMPLETION OF THE WHOLE PROJECT.

- 3. REMOVE ONLY ALL RUBBISH AND DEBRIS AND ALL REFUSE FROM WORKMEN'S LUNCH

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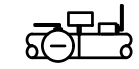



2.30 ADDRESSABLE FIRE ALARM SYSTEM
A. SCOPE
1. PROVIDE ALL FIRE ALARM DEVICES AS SHOWN ON CONTRACT DOCUMENTS. THE SYSTEM SHALL INTERFERE TO OTHER BUILDING SYSTEMS TO OCCUR MONITORING AND CONTROL FUNCTIONS AS DESCRIBED HEREIN.
2. THE SYSTEM SHALL BE REVIEWED AND APPROVED BY THE LOCAL FIRE ALARM INSPECTOR INCLUDING APPROVAL OF PROGRAMMING, FAILURE TO REVIEW PROGRAMMING WITH THE LOCAL AUTHORITY DOES NOT WARRANT PROGRAMMING SHALL BE PROVIDED UNTIL ACCEPTABLE TO THE LOCAL FIRE ALARM INSPECTOR.
3. OCCUPANT NOTIFICATION SHALL CONSIST OF A CODE 3 TEMPORAL EVACUATION SIGNAL AND VISUAL (STROBE) SIGNALING.
4. EACH INITIATING DEVICE SHALL HAVE REAL ANALOG FEATURES AND CAPABILITIES, WHEREBY INDIVIDUAL SENSORS WILL PROVIDE REAL-TIME ENVIRONMENTAL MONITORING, WITH AUTOMATIC AND MANUAL SENSITIVITY ADJUSTMENT AND ALARM VERIFICATION FEATURES. EACH DEVICE SHALL IDENTIFY ITS EXACT LOCATION, TYPE AND CONDITION, AND SHALL OPERATE AS DESCRIBED ELSEWHERE IN THESE SPECIFICATIONS.
5. WORK IN THIS SECTION AS SHOWN OR SPECIFIED SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. PROVIDE AUTOMATIC AND MANUAL CLOSED CIRCUIT, MULTIPLEX FIRE ALARM COMMUNICATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, TO BE WIRING, CONNECTED AND LEFT IN FIRST CLASS OPERATING CONDITION.
7. WIP DRAWINGS, TECHNICAL INSTALLATION SUPPORT, TESTING, AND ADJUSTMENT OF THE SYSTEM SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE SYSTEM SUPPLIER USING NICET-CERTIFIED (LEVEL 2 MINIMUM) FIELD PERSONNEL. FACTORY TRAINED TECHNICIANS SHALL DEMONSTRATE THE SYSTEM TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND MAKE ALL ADDITIONAL ADJUSTMENTS TO THE SYSTEM OPERATION AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
8. PROVIDE EQUIPMENT MANUFACTURED BY SUPPLIER/DEVELOPER OR EQUAL, THIS INCLUDES THE QUALITY AND PERFORMANCE CHARACTERISTICS OF THE EQUIPMENT AND SYSTEM TO BE FURNISHED.
9. EQUIVALENT PRODUCT MANUFACTURED BY FCI, EST OR NOTIFIER MAY BE CONSIDERED AN ACCEPTABLE ALTERNATE.
10. ANY ALTERNATES, EXCEPTIONS, OR SUBSTITUTIONS TO THE SPECIFIED EQUIPMENT AND OPERATION SHALL BE DOCUMENTED IN WRITING PRIOR TO BID. ANY COST SAVINGS SHALL BE DEMONSTRATED, AND A LINE-BY-LINE DESCRIPTION OF DEVIATION FROM THE PROJECT SPECIFICATIONS SHALL BE PRESENTED AT THE TIME OF BID. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL RESULT IN INMEDIATE DISAPPROVAL WITHOUT COMMENT.
11. IF THE CONTRACTOR CHOOSES AN ALTERNATE MANUFACTURER, NO MORE THAN TWO (2) EQUIPMENT SUBMITTALS SHALL BE REVIEWED, IF THE CONTRACTOR SUBMITTALS MORE THAN TWO, THE CONTRACTOR SHALL PROVIDE THE SPECIFIED MANUFACTURER.
12. THE SYSTEM DESIGN AND INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
A. ALL EQUIPMENT SHALL BE UL LISTED FOR ITS INTENDED PURPOSE, INCLUDING UL 864 (UL92, UL924, UL921) AND UL 1971.
B. NFPA STANDARDS 70, 72, 90A, 92A, AND 101.
C. INTERNATIONAL BUILDING CODE - LATEST EDITION.
D. CURRENT STATE BUILDING CODE AND APPLICABLE FIRE SAFETY REGULATIONS.
E. THE AMERICANS WITH DISABILITIES ACT (ADA).
F. ALL LOCAL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
13. SUBMIT SIX (6) COMPLETE SETS OF SHOP DRAWING SUBMITTALS TO INCLUDE:
A. COMPLETE POINT-TO-POINT RISER DIAGRAM SHOWING ALL EQUIPMENT AND WIRING CONNECTIONS AND IDENTIFY ALL DEVICES. DEVICES SHALL BE SHOWN WITH DEVICE ADDRESS AND ANY SETTING AND CANDELA RATING.
B. SCALED DRAWINGS OF EACH SYSTEM PANEL, SHOWING INTERNAL MIDDLE PLACEMENT, FIELD TERMINATIONS AND SPARE CAPACITY ALLOWANCES.
C. A COMPLETE ITEMIZED BILL OF MATERIALS WITH QUANTITIES.
D. ORIGINAL CATALOG DATA SHEETS FOR ALL ITEMS TO ASSURE COMPLIANCE WITH THESE SPECIFICATIONS. THIS EQUIPMENT SHALL BE SUBJECT TO APPROVAL, AND NO EQUIPMENT SHALL BE ORDERED WITHOUT PRIOR APPROVAL.
E. DRAWINGS SHOWING ALL DEVICES AND EQUIPMENT TO BE INSTALLED. FLOOR PLANS SHALL SHOW EACH EQUIPMENT AND DEVICES. DEVICES SHALL BE SHOWN WITH CORRESPONDING CIRCUIT AND DEVICE DESIGNATIONS. FIELD SETTINGS SHALL INCLUDE THE DEVICE ADDRESS, CANDELA RATING AND/OR SPEAKER TAP SETTING. EACH DEVICE SHALL BE SHOWN WITH CORRESPONDING CIRCUIT IDENTIFIER AND DEVICE NUMBER.
F. PROVIDE CALCULATIONS TO SUPPORT THE SIZE OF STANDBY BATTERIES, NOTIFICATION CIRCUITS, AMPLIFIERS AND POWER SUPPLIES SUBMITTED.
G. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH NFPA 72 RECOMMENDED PRACTICES AS FOLLOWS:
1) CALCULATIONS SHALL DEMONSTRATE WIRE SIZE AND ESTIMATED
2) VISUAL NOTIFICATION CIRCUITS SHALL BE BASED UPON 200VC STARTING VOLTAGE AND UTILIZE A NOMINAL 18V CURRENT DRAW RATING FOR EACH APPLIANCE.
3) VISUAL CIRCUITS SHALL BE DESIGNED FOR A MAXIMUM 4 VOLT DROP.
4) SPEAKER CIRCUITS SHALL BE DESIGNED FOR A MAXIMUM 300A LOSS.
H. SUBMITTALS SHALL BE SUBMITTED TO THE LOCAL FIRE INSPECTION AND ALARM DIVISION FOR APPROVAL.
I. PROVIDE A COPY OF THE ORIGINAL EQUIPMENT MANUFACTURER'S WARRANTY STATEMENT.
1) CONFIRMATION THAT THE EQUIPMENT SUPPLIER WILL PROVIDE ON-SITE PROJECT MANAGEMENT AND SUPERVISION DURING SYSTEM INSTALLATION, AND PERFORM SYSTEM TESTING AND INSTRUCTION. LEAD SYSTEM TECHNICIANS ASSIGNED TO THE PROJECT SHALL BE IDENTIFIED, AND DOCUMENTATION OF THEIR QUALIFICATIONS SHALL BE PRESENTED AS REQUESTED.
2. AN OUTLINE OF THE VENDOR'S ACCEPTANCE AND TEST PROCEDURES, INCLUDING A COPY OF THE SUPPLIER'S STANDARD COMMISSIONING REPORT CHECKLIST.
11. CONFORM TO ALL UL AND NFPA STANDARDS FOR TESTING AND PROVIDE A RECORD OF COMPLETION OF THE COMPLETED INSTALLATION. THE RECORD OF COMPLETION SHALL BE COMPLETED BY PROPERLY LICENSED, AND FACTORY-TRAINED REPRESENTATIVES OF A U.L. APPROVED TESTING COMPANY.
12. PROVIDE COPIES OF OPERATING & MAINTENANCE MANUALS WITH THE REQUEST FOR FINAL INSPECTION. O & M MANUALS SHALL INCLUDE THE FOLLOWING:
A. ALL OF THE INFORMATION SUBMITTED TO THE SHOP DRAWINGS.
B. AS-BUILT DOCUMENTATION WHICH INCORPORATES ALL MODIFICATIONS TO THE SYSTEM, WHETHER MADE AS A FIELD CHANGE OR BY A CHANGE ORDER.
C. INCLUDE A COPY OF THE FINAL TEST REPORT, RECORD OF COMPLETION AND TEST/SUPPORT DOCUMENTS AS REQUIRED HEREIN.
B. SEQUENCE OF OPERATION
1. THE OPERATION OF A MANUAL STATION OR ACTIVATION OF ANY AUTOMATIC ALARM INITIATING DEVICE (SYSTEM SMOKE, SYSTEM HEAT DETECTOR, WATERFLOW) SHALL INITIATE A SYSTEM-WIDE RESPONSE AS FOLLOWS:
A. INITIATE THE TRANSMISSION OF THE ALARM TO THE MUNICIPAL FIRE STATION AND APPROVED CENTRAL STATION.
B. MUNICIPAL REPORTING SYSTEM AND DIGITAL ALARM COMMUNICATOR/TRANSMITTER (DAC/T) CONNECTION TO AN APPROVED CENTRAL MONITORING STATION.
C. FLASH A CODE 3 TEMPORAL EVACUATION SIGNAL, OVER ALL AUDIO CIRCUITS.
D. FLASH ALL VISUAL SIGNALS THROUGHOUT THE BUILDING. VISUAL NOTIFICATION SHALL BE SYNCHRONOUS IN ACCORDANCE WITH NFPA 72 GUIDELINES AND UL 1971.
E. FLASH AN ALARM LED AND SOUND AN AUDIBLE SIGNAL AT THE FACP AND REMOTE ANNUNCIATOR. UPON ACKNOWLEDGMENT, THE ALARM LED SHALL LIGHT STEADILY AND THE AUDIBLE SHALL SILENCE. SUBSEQUENT ALARMS SHALL REINITIATE THE SEQUENCE.
F. UPON ALARM INITIATION BY AN ANNUNCIATOR, DETECTOR OR OTHER DESIGNATED RECALL DEVICE, RECALL ALL ELEVATORS THAT SERVE THE FLOOR OF ORIGINATION TO THE MAIN EXPRESS LEVEL.
G. INITIATE THE MAIN EXPRESS LEVEL RETURN THE ELEVATOR TO THE ALTERNATE FLOOR AS DIRECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
F. VISUALLY INDICATE THE ALARM INITIATING DEVICE TYPE AND LOCATION VIA THE LED DISPLAY LOCATED AT THE FACP AND AT ANY REMOTE SYSTEM ANNUNCIATORS.
G. AUTOMATICALLY SHUT DOWN AFFECTED SUPPLY AND RETURN FANS, AND CONTACT HVAC EQUIPMENT TO INITIATE SMOKE CONTROL FUNCTIONS AS REQUIRED.
H. MANIPULATE OVERRIDE CONTROLS TO PREVENT INTERFERENCE WITH INTERFACED MODULES SHALL SERVE TO INTEGRATE THE FIRE ALARM SYSTEM TO THE BUILDING AUTOMATION SYSTEM.
I. OPERATE PRIORITIZED OUTPUTS TO RELEASE ALL MANUALLY HELD SMOKE DOORS AND MANUALLY LOCKED DOORS THROUGHOUT THE BUILDING.
1. ACTIVATE THE EXTERIOR WEATHERPROOF BOXES.
2. SPRINKLER TAMPER SWITCHES OR OTHER DEVICE PROGRAMMED FOR SUPERVISORY REPORTING SHALL AUTOMATICALLY CAUSE THE FOLLOWING TO OCCUR:
A. INITIATE THE TRANSMISSION OF THE EVENT TO THE MUNICIPAL FIRE STATION OR CENTRAL STATION.
B. FLASH A SUPERVISORY LED AND SOUND AN AUDIBLE SIGNAL AT THE FACP AND REMOTE ANNUNCIATOR, AND REINITIATE ANNUNCIATION. THE LED SHALL LIGHT STEADILY AND THE AUDIBLE SHALL SILENCE. SUBSEQUENT EVENTS SHALL REINITIATE THIS SEQUENCE.
C. VISUALLY INDICATE THE INITIATING DEVICE TYPE AND LOCATION VIA THE LED DISPLAY LOCATED AT THE FACP AND AT ANY REMOTE SYSTEM ANNUNCIATOR.
C. GENERAL REQUIREMENTS
1. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND UL AND FM APPROVED FOR FIRE, AUDIO EVACUATION AND SECURITY APPLICATIONS. THE SYSTEM OPERATIONAL CHARACTERISTICS SHALL BE STORED IN NON-VOLATILE EPROM MEMORY, SHALL BE FIELD PROGRAMMABLE AND REPROGRAMMABLE WITH NO FACTORY INVOLVEMENT.

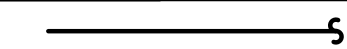



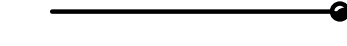

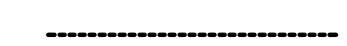


2. THE SYSTEM SHALL SUPPORT ANALOG SENSING TECHNIQUES TO MONITOR INDIVIDUAL DEVICES WHICH ENABLES THE USER TO SET SENSITIVITY PARAMETERS. ALL UNITS SHALL BE SUBJECT TO MULTI-LEVEL ALARM VERIFICATION. THE SYSTEM SHALL BE CAPABLE OF REPORTING THE STATUS AND SECURITY OF EACH DEVICE AND VERIFYING THE INFORMATION TO A PRINTED, THE SYSTEM SHALL AUTOMATICALLY IDENTIFY ANY DETECTOR WHICH DEMONSTRATES DIRTY (MAINTENANCE ALERT), PRIOR TO FALSE ALARMS.
3. THE SYSTEM SHALL BE SUPPORTED BY STANDBY BATTERIES. IN THE EVENT OF A LOSS OF PRIMARY POWER, BATTERIES SHALL SUPPORT 180 HOURS OF FULL SUPERVISORY OPERATION FOLLOWED BY (5) MINUTES OF ALARM.
4. THE SYSTEM SHALL BE CAPABLE OF NINE LEVELS OF ALARM PRIORITIZATION, AND ALLOW CONTRADICTORY SEQUENCES TO INCLUDE IN EXCESS OF 2000 CROSS (BROUEN CONTACT EVENTS).
5. ALL EQUIPMENT SHALL BE NEW AND UNUSED. ALL COMPONENTS AND SYSTEMS SHALL BE DESIGNED FOR UNINTERRUPTED DUTY. ALL EQUIPMENT, MATERIALS AND ACCESSORIES COVERED BY THESE REQUIREMENTS SHALL BE PROVIDED BY A SINGLE MANUFACTURER, OR IF PROVIDED BY DIFFERENT MANUFACTURERS SHALL BE COMPATIBLE BY BOTH MANUFACTURERS.
6. ALL EQUIPMENT MUST HAVE TRANSPARENT PROTECTION DEVICES TO COMPLY WITH UL 864 REQUIREMENTS.
A. ISOLATED LOOP CIRCUIT PROTECTOR (LCP): FURNISH AND INSTALL AN ISOLATED LOOP CIRCUIT PROTECTION DEVICE ON ALL FIRE ALARM CIRCUITS WHICH EXTEND BEYOND THE BUILDING BY EITHER AERIAL, UNDERGROUND OR OTHER METHODS (MOUNTAINS, BRIDGES OR OTHER ABOVE GROUND CONNECTORS).
B. THE LCP SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE POINT AT WHICH THE CIRCUITS LEAVE OR ENTER THE BUILDING. THE GROUNDING CONDUCTOR SHALL BE A NO. 12 AWG WIRE HAVING A MAXIMUM LENGTH OF 28 FEET AND CONNECTED TO A UNIFIED GROUND FOR THE BLDG.
7. CIRCUITING GUIDELINES, EACH INITIATING DEVICE AND INDICATING CIRCUIT SHALL BE ELECTRONICALLY SEPARATED AND INDIVIDUALLY ADDRESSABLE. ALL WIRING SHALL BE AS FOLLOWS:
A. INDIVIDUAL ZONE ADDRESSABLE MODULES SHALL BE USED TO MONITOR ALL WATER FLOW, TAMPER, AND STATUS CONDITIONS FROM ANY RELATED SYSTEMS OR CONVENTIONAL DEVICES.
B. ZONE ADDRESSABLE CIRCUIT MODULES OR RELAYS SHALL PROVIDE AUXILIARY CIRCUIT FUNCTIONS SEPARATE OUTGOING AND RETURN PATHS MUST BE INSTALLED IN ACCORDANCE WITH NFPA 72 (2002 IBC) 6.4.2.2.2.
C. ADDRESSABLE LOOP WIRING (SIGNALLING LINE CIRCUITS) SHALL SUPPORT ALL DEVICES SHOWN AND ALLOW FOR A MINIMUM OF 25% SPARE CAPACITY, AND BE WIRED IN A CLASS A, STYLE 6 FASHION, WITH FAULT ISOLATION AS DESCRIBED ELSEWHERE IN THESE SPECIFICATIONS.
D. AS A MINIMUM, POWER SUPPLIES AND NOTIFICATION APPLIANCE CIRCUITS SHALL OPERATE ALL DEVICES SHOWN PLUS 25% SPARE CAPACITY, AND BE WIRED IN A CLASS A, STYLE 2 FASHION.
D. SYSTEM COMPONENTS
1. FIRE ALARM NETWORK CONTROL PANEL.
A. PROVIDE AND INSTALL SHOWN 4100U SERIES FIRE ALARM CONTROL SYSTEM. THE SYSTEM SHALL CONSIST OF THE REQUIRED FIRE ALARM NETWORK CONTROL PANEL, 16 CHANNEL RELAY BOARD, 16 CHANNEL 1500 ANALOG DETECTORS, EXPANDABLE TO 2500. THE SYSTEM SHALL SUPPORT EXTENDER STRINGS PROVIDING A FEASIBLE WEATHERPROOF STRIBE WITH A MINIMUM 150,000 CANDELA/FOOT OUTPUT WHERE SHOWN.
B. STROBE SHALL BE PROPERLY INSTALLED ON A WEATHERPROOF BACKDROP.
C. PROVIDE A REMOTE COMMAND CENTER LED ANNUNCIATOR (MODEL 4100-1292). EACH LED ANNUNCIATOR SHALL PROVIDE A 160 CHARACTER LED DISPLAY WITH MESSAGE SENSING AND BATTERY-OPERATED COMMON CIRCUIT SWITCHES (ACKNOWLEDGE, ALARM BE SILENCE SYSTEM RESET) AND PROGRAMMABLE CUSTOM CONTROL SWITCHES, AND SHALL SUPPORT CUSTOM MESSAGE ROUTING, ASSIGNMENT AND BURST FUNCTIONS.
F. REMOTE POWER SWITCHES: WHERE THE POWER REQUIREMENTS EXCEED THAT WHICH IS SUPPLIED BY THE FACP, PROVIDE DISTRIBUTED 8 OR 9 AMP POWER SUPPLIES (MODEL 4008 OR 4100) WITH 15 AMP POWER SUPPLIES SHALL BE SUPERSEDED FOR GROUND FAULT, LOSS OF AC POWER AND BATTERY FAILURE. EACH POWER SUPPLY SHALL BE INDIVIDUALLY SUPERSEDED.
G. INTERNET COMMAND/CONTROL: PROVIDE A DEDICATED FIRE PANEL INTERNET INTERFACE (PII) CARD INTERNAL TO THE MAIN FACP. THE PII CARD SHALL BE A SIMPLEX/RS485 SAFETY MODE/ OR APPROVED EQUAL. THE PII SHALL HAVE A 10-MINUTE DELAY TO GENERATE NOTIFICATION OF ANY OR ALL SYSTEM EVENTS VIA INTERNET EMAIL, PAGER, CELL PHONES OR PERSONAL DIGITAL ASSISTANT (PDA) USING SIMPLE MAIL TRANSFER PROTOCOL (SMTP). THROUGH THE PII, AUTHORIZED USERS WILL ALSO BE PROVIDED WITH SECURE ACCESS TO SYSTEM STATUS CONDITIONS, EVENT HISTORY LOGS AND REPORTS VIA INTERNET EXPLORER VERSION 5.0 OR HIGHER, USING TEST/COMMUNICATOR SERVICE 120V.
H. MOTORIZED FIRE/SMOKE DAMPER CONTROL: PROVIDE 120V DAMPER CONTROL WITH REMOTE DAMPER CONTROL. THE DAMPER CONTROL SHALL BE A PROGRAMMABLE CONTROL RELAY OUTPUT (BINARY DIGITAL CONTROL) WITH CORRESPONDING INPUT ADDRESSABLE MODULE FEEDBACK (FBI) FOR EACH DAMPER.
I. DEVICE GUARDS: PROVIDE CLEAR LEXAN (0099 SERIES) COVERS OVER MANUAL WALL MOUNTED DEVICES. EACH SHALL HAVE AN INTEGRAL AUDIBLE DEVICE WHICH SHALL SOUND WHEN LIFTED, AND SHALL BE POWERED FROM A DEDICATED 9 VOLT BATTERY.
J. DOOR HOLDERS: PROVIDE 24VDC OR 120VAC MAGNETIC DOOR HOLDERS AS SHOWN AND REQUIRED. 24VDC DOOR HOLDERS SHALL BE POWERED BY SYSTEM POWER, BUT ARE NOT REQUIRED TO OPERATE UNDER STANDBY BATTERY.
K. KEY REPORTERS: PROVIDE AN APPROVED EQUAL KEY REPORTER WHICH SHOWN AND IN ACCORDANCE WITH LOCAL REQUIREMENTS MANUFACTURED BY EMERGENCY SERVICE SYSTEMS.
E. INSTALLATION
1. INSTALLATION SHALL BE SUPERSEDED AND TESTED BY THE SYSTEM SUPPLIER, THE WORK SHALL BE ACCEPTED BY ALL LOCAL TOWNS AND VARIOUS DEPARTMENTS OF EXPERIENCED ENGINEERS, ALL OF WHOM ARE PROPERLY TRAINED AND QUALIFIED.
F. WIRING
1. ALL WIRING FOR THE SYSTEM SHALL BE IN ACCORDANCE WITH ARTICLES 760, 725, AND 800 OF THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODES.
2. PROVIDE COMPLETE WIRING AND CONDUIT BETWEEN ALL EQUIPMENT. ALL DEVICES SHALL BE MOUNTED UPON AND SPICES MADE IN UL LISTED BOXES, WIRING SPICES AND TRANSFERRING OR CHANGING OF COLORS SHALL NOT BE PERMITTED.
3. ALL JUNCTION BOXES SHALL BE PAINTED RED AND LABELED AS "FIRE ALARM SYSTEM" WITH LOCAL REQUIREMENTS. THE FOLLOWING INFORMATION:
4. FIRE ALARM CIRCUIT SYSTEMS AND EQUIPMENT SHALL BE CONNECTED TO SEPARATE DEDICATED BRANCH CIRCUITS, SUCH AS REQUIRED FOR PROPER SERVICE CIRCUITRY.
5. PROVIDE PROTRAXION CIC 2 HOUR-RATED CABLE (OR APPROVED EQUAL) FOR ALL COMMUNICATION CABLES. THE END OF THE PAIR SHALL BE INTERLOCKED OR SEALED. ZONES UNITS, ENTER THE AREA RATED IN ACCORDANCE WITH NFPA 72.
6. CABLE SHALL BE INSTALLED IN CONDUIT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, WITH OUTGOING AND RETURN LOOPS PHYSICALLY SEPARATED IN ACCORDANCE WITH APPLICABLE CODE.
G. SPARE PARTS
1. THE CONTRACTOR SHALL CARRY IN HIS BID A UNIT PRICE TO FURNISH AND INSTALL ADDITIONAL FIRE ALARM APPLIANCES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION DURING THE FINAL INSPECTORS WALK-THRU. BID SHALL INCLUDE ALL ASSOCIATED WIRING AND PROGRAMMING AS REQUIRED.
2. ANY UNUSED DEVICES SHALL BE TURNED OVER TO THE OWNER ON A CREDIT SHALL BE OWEN AS DIRECTED BY THE OWNER.
3. PROVIDE THE FOLLOWING QUANTITY AND TYPE AS INDICATED:
A. (2) SYSTEM SMOKE DETECTOR (HEADS)
B. (2) LOCAL SMOKE DETECTORS
C. (2) SYSTEM HEAT DETECTORS
D. (1) DUCT SMOKE DETECTOR
E. (1) REMOTE TEST STATIONS
F. (1) REMOTE ALARM INDICATORS
G. (2) AUDIO/VISUAL APPLIANCES
H. (2) VISUAL APPLIANCES
I. (1) PULL STATIONS
J. (2) MONITOR MODULE
K. (2) RELAY IN / CONTROL MODULE
H. FINAL TEST / WARRANTY
1. THE SYSTEM SHALL BE FULLY TESTED BY A UL CERTIFIED TESTING COMPANY, IN ACCORDANCE WITH UL GUIDELINES AND NFPA STANDARDS.
2. A COPY OF THE FINAL TEST REPORT AND RECORD OF COMPLETION SHALL BE SUBMITTED INDICATING PROPER FUNCTIONING OF THE SYSTEM AND CONFORMITY TO THE SYSTEM DESIGN. THE TEST REPORT SHALL BE SIGNED BY A UL CERTIFIED AND FACTORY TRAINED QUALIFIED TECHNICIANS. EACH AND EVERY DEVICE SHALL BE TESTED AND THE TEST REPORT SHALL BE VERIFIED. FINAL TESTING SHALL BE PERFORMED BY THE SAME COMPANY THAT SHALL HOLD AND EXTENDS THE TEST AND INSPECTION CONTRACT.
3. THE MANUFACTURER SHALL GUARANTEE ALL SYSTEM EQUIPMENT FOR A MINIMUM OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE LOCATION OF THE INTERFACED EQUIPMENT OR ELECTRICAL DEVICES FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE SYSTEM.
I. FIRE ALARM SUPPORT CONTRACTS
1. EACH CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID THE COST OF AN ANNUAL TEST AND INSPECTION CONTRACT AS DESCRIBED HEREIN.
2. THE TEST AND INSPECTION CONTRACT SHALL PROVIDE FOR PERIODIC TESTS ACCORDING TO UL, NFPA AND APPLICABLE LOCAL REQUIREMENTS FOR THE DURATION OF THE CONTRACT. THE CONTRACT SHALL INCLUDE TESTING, CLEANING AND CALIBRATION TESTING IN ACCORDANCE WITH NFPA 72 REQUIREMENTS.
3. UPON EXPIRATION OF THE WARRANTY PERIOD AND FINAL TEST AND INSPECTION CONTRACT, THE CONTRACT SHALL BE RENEWABLE BY THE BUILDING OWNER.
4. EACH CONTRACTOR SHALL ALSO INCLUDE AS PART OF THE BID THE COST OF A ONE YEAR CENTRAL STATION AND LOCAL/STATION CENTRAL STATION MONITORING COMPANY, AND SHALL BE RENEWABLE BY THE OWNER UPON HIS EXPIRATION.

H. ISOLATION MODULES: PROVIDE ZONE ADDRESSABLE ISOLATOR MODULES TO PROTECT SIGNALING LINE CIRCUITRY IN THE EVENT OF A WIRING FAULT, TO ENSURE STEADY WIRING CONNECTIONS, PROVIDE A MINIMUM OF ONE ISOLATION MODULE PER FLOOR OR EVACUATION ZONE, OR ONE PER 25 DEVICES, WHERE SHOWN AND REQUIRED.
I. RESIDENTIAL UNIT SMOKE DETECTORS: PROVIDE PHOTOELECTRIC SMOKE DETECTORS (4098-9714) IN RESIDENTIAL UNITS WHERE SHOWN AND REQUIRED. DETECTORS SHALL BE LOCATED IN THE CENTER OF EACH ROOM.
1. RESIDENTIAL UNIT SMOKE DETECTORS: PROVIDE PHOTOELECTRIC SMOKE DETECTORS (4098-9714) IN RESIDENTIAL UNITS WHERE SHOWN AND REQUIRED. DETECTORS SHALL BE LOCATED IN THE CENTER OF EACH ROOM OR OTHERWISE PLACED IN COMPLIANCE WITH NFPA 72 GUIDELINES. EACH ROOM SHALL BE PROVIDED WITH SURFACE MOUNT BACKDROPS AS NEEDED AND ALTERNATE OUTDOOR-RATED APPLIANCES WHERE AMBIENT CONDITIONS DICTATE. SPECIFIC AUDIBLE AND VISUAL CHARACTERISTICS SHALL BE AS FOLLOWS:
3. PRIMARY NOTIFICATION APPLIANCES: PROVIDE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES WHERE SHOWN AND REQUIRED. FLUSH-MOUNTED CONVENTIONAL DEVICES SHALL BE PROVIDED WITH SURFACE MOUNT OR STANDALONE VISUAL APPLIANCES WHERE OTHERWISE REQUIRED. THE CONTRACTOR SHALL PROVIDE SURFACE MOUNT BACKDROPS AS NEEDED AND ALTERNATE OUTDOOR-RATED APPLIANCES WHERE AMBIENT CONDITIONS DICTATE. SPECIFIC AUDIBLE AND VISUAL CHARACTERISTICS SHALL BE AS FOLLOWS:
A. VISUAL SIGNALS: FURNISH AND INSTALL SYNCHRONIZED XENON STROBES IN COMPLIANCE WITH NFPA 72 AND UL 1971. STROBES SHALL HAVE AN EFFECTIVE INTENSITY RATING OF 15 CANDELA IN CORRIDORS AND OTHER AREAS UP TO 20' X 20', 75 CANDELA IN AREAS UP TO 40' X 40' AND 110 CANDELA IN AREAS UP TO 60' X 60' IN SLEEPING AREAS.
B. AUDIBLE SIGNALS: PROVIDE AUDIBLE TEMPORAL CODE 3 HORNS WHICH PRODUCE A MINIMUM SOUND OUTPUT OF 70DBA, OR 100dB ABOVE AMBIENT, WHOEVER IS GREATER, Ø 10 FT. (MINIMUM OPERATING VOLTAGE 200 FREQUENCY 520 HZ MIN HORN SHALL BE PROVIDED IN THE BEDROOM/SLEEPING AREA.
4. SYSTEM ACCESSORIES
A. MAIN PANEL CONNECTION: PROVIDE A LOCAL ENERGY METERING INSTALLED, TESTED, AND COMMISSIONED FOR MONITORING REPORTING AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
B. SPRINKLER SYSTEM CONNECTION: THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE FOLLOWING TO ENSURE THAT THE REQUIRED INSTALLATION AND WIRING OF ALL WATERFLOW AND TAMPER SWITCHES IS ACCOMPLISHED IN A MANNER THAT SHALL RESULT IN A COMPLETE, OPERABLE AND TESTED SPRINKLER SYSTEM. EACH DEVICE SHALL BE MONITORED AS A SEPARATE AND DISTINCT POINT.
1) WATERFLOW TAMPER SHALL ACTIVATE THE ALARM SEQUENCE.
2) TAMPER SWITCHES SHALL INITIATE AN ALARM CONDITION.
3) TERMINAL CABLES: PROVIDE FIRE ALARM TERMINAL CABLES, WHERE NECESSARY, IN CONFORMANCE WITH LOCAL REQUIREMENTS. A REASONABLE HINGED COVER WITH KEY LOCK AND RED FINISH ARE NEEDED TO HOUSE ANALOG ADDRESSABLE MODULES AND FACILITATE FIELD WIRING JOINTS.
C. REMOTE ALARM INDICATORS: PROVIDE REMOTE LED INDICATORS FOR SENSORS LOCATED IN REMOTE AREAS. EACH SHALL BE IDENTIFIED BY LABEL ON EACH INDICATOR IDENTIFYING THE DEVICE TYPE AND ACTUAL LOCATION.
D. EXTENDER STRINGS: PROVIDE A FEASIBLE WEATHERPROOF STRIBE WITH A MINIMUM 150,000 CANDELA/FOOT OUTPUT WHERE SHOWN.
E. PROVIDE A REMOTE COMMAND CENTER LED ANNUNCIATOR (MODEL 4100-1292). EACH LED ANNUNCIATOR SHALL PROVIDE A 160 CHARACTER LED DISPLAY WITH MESSAGE SENSING AND BATTERY-OPERATED COMMON CIRCUIT SWITCHES (ACKNOWLEDGE, ALARM BE SILENCE SYSTEM RESET) AND PROGRAMMABLE CUSTOM CONTROL SWITCHES, AND SHALL SUPPORT CUSTOM MESSAGE ROUTING, ASSIGNMENT AND BURST FUNCTIONS.
F. REMOTE POWER SWITCHES: WHERE THE POWER REQUIREMENTS EXCEED THAT WHICH IS SUPPLIED BY THE FACP, PROVIDE DISTRIBUTED 8 OR 9 AMP POWER SUPPLIES (MODEL 4008 OR 4100) WITH 15 AMP POWER SUPPLIES SHALL BE SUPERSEDED FOR GROUND FAULT, LOSS OF AC POWER AND BATTERY FAILURE. EACH POWER SUPPLY SHALL BE INDIVIDUALLY SUPERSEDED.
G. INTERNET COMMAND/CONTROL: PROVIDE A DEDICATED FIRE PANEL INTERNET INTERFACE (PII) CARD INTERNAL TO THE MAIN FACP. THE PII CARD SHALL BE A SIMPLEX/RS485 SAFETY MODE/ OR APPROVED EQUAL. THE PII SHALL HAVE A 10-MINUTE DELAY TO GENERATE NOTIFICATION OF ANY OR ALL SYSTEM EVENTS VIA INTERNET EMAIL, PAGER, CELL PHONES OR PERSONAL DIGITAL ASSISTANT (PDA) USING SIMPLE MAIL TRANSFER PROTOCOL (SMTP). THROUGH THE PII, AUTHORIZED USERS WILL ALSO BE PROVIDED WITH SECURE ACCESS TO SYSTEM STATUS CONDITIONS, EVENT HISTORY LOGS AND REPORTS VIA INTERNET EXPLORER VERSION 5.0 OR HIGHER, USING TEST/COMMUNICATOR SERVICE 120V.
H. MOTORIZED FIRE/SMOKE DAMPER CONTROL: PROVIDE 120V DAMPER CONTROL WITH REMOTE DAMPER CONTROL. THE DAMPER CONTROL SHALL BE A PROGRAMMABLE CONTROL RELAY OUTPUT (BINARY DIGITAL CONTROL) WITH CORRESPONDING INPUT ADDRESSABLE MODULE FEEDBACK (FBI) FOR EACH DAMPER.
I. DEVICE GUARDS: PROVIDE CLEAR LEXAN (0099 SERIES) COVERS OVER MANUAL WALL MOUNTED DEVICES. EACH SHALL HAVE AN INTEGRAL AUDIBLE DEVICE WHICH SHALL SOUND WHEN LIFTED, AND SHALL BE POWERED FROM A DEDICATED 9 VOLT BATTERY.
J. DOOR HOLDERS: PROVIDE 24VDC OR 120VAC MAGNETIC DOOR HOLDERS AS SHOWN AND REQUIRED. 24VDC DOOR HOLDERS SHALL BE POWERED BY SYSTEM POWER, BUT ARE NOT REQUIRED TO OPERATE UNDER STANDBY BATTERY.
K. KEY REPORTERS: PROVIDE AN APPROVED EQUAL KEY REPORTER WHICH SHOWN AND IN ACCORDANCE WITH LOCAL REQUIREMENTS MANUFACTURED BY EMERGENCY SERVICE SYSTEMS.
E. INSTALLATION
1. INSTALLATION SHALL BE SUPERSEDED AND TESTED BY THE SYSTEM SUPPLIER, THE WORK SHALL BE ACCEPTED BY ALL LOCAL TOWNS AND VARIOUS DEPARTMENTS OF EXPERIENCED ENGINEERS, ALL OF WHOM ARE PROPERLY TRAINED AND QUALIFIED.
F. WIRING
1. ALL WIRING FOR THE SYSTEM SHALL BE IN ACCORDANCE WITH ARTICLES 760, 725, AND 800 OF THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODES.
2. PROVIDE COMPLETE WIRING AND CONDUIT BETWEEN ALL EQUIPMENT. ALL DEVICES SHALL BE MOUNTED UPON AND SPICES MADE IN UL LISTED BOXES, WIRING SPICES AND TRANSFERRING OR CHANGING OF COLORS SHALL NOT BE PERMITTED.
3. ALL JUNCTION BOXES SHALL BE PAINTED RED AND LABELED AS "FIRE ALARM SYSTEM" WITH LOCAL REQUIREMENTS. THE FOLLOWING INFORMATION:
4. FIRE ALARM CIRCUIT SYSTEMS AND EQUIPMENT SHALL BE CONNECTED TO SEPARATE DEDICATED BRANCH CIRCUITS, SUCH AS REQUIRED FOR PROPER SERVICE CIRCUITRY.
5. PROVIDE PROTRAXION CIC 2 HOUR-RATED CABLE (OR APPROVED EQUAL) FOR ALL COMMUNICATION CABLES. THE END OF THE PAIR SHALL BE INTERLOCKED OR SEALED. ZONES UNITS, ENTER THE AREA RATED IN ACCORDANCE WITH NFPA 72.
6. CABLE SHALL BE INSTALLED IN CONDUIT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, WITH OUTGOING AND RETURN LOOPS PHYSICALLY SEPARATED IN ACCORDANCE WITH APPLICABLE CODE.
G. SPARE PARTS
1. THE CONTRACTOR SHALL CARRY IN HIS BID A UNIT PRICE TO FURNISH AND INSTALL ADDITIONAL FIRE ALARM APPLIANCES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION DURING THE FINAL INSPECTORS WALK-THRU. BID SHALL INCLUDE ALL ASSOCIATED WIRING AND PROGRAMMING AS REQUIRED.
2. ANY UNUSED DEVICES SHALL BE TURNED OVER TO THE OWNER ON A CREDIT SHALL BE OWEN AS DIRECTED BY THE OWNER.
3. PROVIDE THE FOLLOWING QUANTITY AND TYPE AS INDICATED:
A. (2) SYSTEM SMOKE DETECTOR (HEADS)
B. (2) LOCAL SMOKE DETECTORS
C. (2) SYSTEM HEAT DETECTORS
D. (1) DUCT SMOKE DETECTOR
E. (1) REMOTE TEST STATIONS
F. (1) REMOTE ALARM INDICATORS
G. (2) AUDIO/VISUAL APPLIANCES
H. (2) VISUAL APPLIANCES
I. (1) PULL STATIONS
J. (2) MONITOR MODULE
K. (2) RELAY IN / CONTROL MODULE
H. FINAL TEST / WARRANTY
1. THE SYSTEM SHALL BE FULLY TESTED BY A UL CERTIFIED TESTING COMPANY, IN ACCORDANCE WITH UL GUIDELINES AND NFPA STANDARDS.
2. A COPY OF THE FINAL TEST REPORT AND RECORD OF COMPLETION SHALL BE SUBMITTED INDICATING PROPER FUNCTIONING OF THE SYSTEM AND CONFORMITY TO THE SYSTEM DESIGN. THE TEST REPORT SHALL BE SIGNED BY A UL CERTIFIED AND FACTORY TRAINED QUALIFIED TECHNICIANS. EACH AND EVERY DEVICE SHALL BE TESTED AND THE TEST REPORT SHALL BE VERIFIED. FINAL TESTING SHALL BE PERFORMED BY THE SAME COMPANY THAT SHALL HOLD AND EXTENDS THE TEST AND INSPECTION CONTRACT.
3. THE MANUFACTURER SHALL GUARANTEE ALL SYSTEM EQUIPMENT FOR A MINIMUM OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE LOCATION OF THE INTERFACED EQUIPMENT OR ELECTRICAL DEVICES FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE SYSTEM.
I. FIRE ALARM SUPPORT CONTRACTS
1. EACH CONTRACTOR SHALL INCLUDE AS PART OF THEIR BID THE COST OF AN ANNUAL TEST AND INSPECTION CONTRACT AS DESCRIBED HEREIN.
2. THE TEST AND INSPECTION CONTRACT SHALL PROVIDE FOR PERIODIC TESTS ACCORDING TO UL, NFPA AND APPLICABLE LOCAL REQUIREMENTS FOR THE DURATION OF THE CONTRACT. THE CONTRACT SHALL INCLUDE TESTING, CLEANING AND CALIBRATION TESTING IN ACCORDANCE WITH NFPA 72 REQUIREMENTS.
3. UPON EXPIRATION OF THE WARRANTY PERIOD AND FINAL TEST AND INSPECTION CONTRACT, THE CONTRACT SHALL BE RENEWABLE BY THE BUILDING OWNER.
4. EACH CONTRACTOR SHALL ALSO INCLUDE AS PART OF THE BID THE COST OF A ONE YEAR CENTRAL STATION AND LOCAL/STATION CENTRAL STATION MONITORING COMPANY, AND SHALL BE RENEWABLE BY THE OWNER UPON HIS EXPIRATION.

J. TRAINING
1. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR A PERIOD OF 4 HOURS, DURING NORMAL BUSINESS HOURS, TO INSTRUCT THE OWNER'S DESIGNATED PERSONNEL AND FIRE DEPARTMENT RESPONSE TEAMS ON THE OPERATION OF THE SYSTEM.
PART 3 - EXECUTION
3.1 SPECIAL COORDINATION INSTRUCTIONS
A. COORDINATION WITH THE WORK OF OTHER TRADES IS REFERRED TO WITHIN VARIOUS PARTS OF THIS SECTION OF THE SPECIFICATIONS. THE FOLLOWING SPECIAL INSTRUCTIONS SHALL ALSO BE CAREFULLY NOTED:
1. LOCATIONS AND MOUNTING HEIGHT OF ALL WALL OUTLETS AND LIGHTING FIXTURES SHALL BE AS SPECIFIED ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS.
2. ALL FEEDER, BRANCH CIRCUIT OR AUXILIARY SYSTEM WIRING PASSING THROUGH WALL, CEILING AND/OR FLOOR SHALL BE IN PANEL, BRACKETS SHALL BE PROPERLY GROUPED, BOUND AND TIED TOGETHER IN A NEAT AND ORDERLY MANNER IN KEEPING WITH THE BEST STANDARDS OF THE TRADE, WITH PLASTIC CABLE TIES.
3. ALL DUPLEX CONDUITANCE AND POWER RECEPTABLES SHALL BE MOUNTED VERTICALLY WITH THE GROUNDING POINT TO THE BOTTOM AS THE OUTLET IS VIEWED FROM THE FRONT.
4. ALL MISCELLANEOUS HARDWARE AND SUPPORT ACCESSORIES, INCLUDING SUPPORT RIGS, HANGERS, NUTS, BOLTS, SCREWS AND OTHER SUCH ITEMS SHALL BE OF A GALVANIZED OR CADMIUM PLATED FINISH, OR OF OTHER APPROVED RUST-INHIBITING COATINGS. IN HAZARDOUS LOCATIONS NEAR THE OCEAN ALL MARINE AREA HARDWARE SHALL BE PVC COATED STAINLESS STEEL TO PREVENT CORROSION. CARE SHOULD BE TAKEN THAT FIXTURES SHALL NOT BE INSTALLED ON BOTH SIDES OF EXISTING OR NEW BUILDING EXPANSION JOINTS.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP TO PROVIDE FOR ADEQUATE PROTECTION OF ALL ELECTRICAL EQUIPMENT DURING THE COURSE OF CONSTRUCTION OF THE PROJECT.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL APPROVED DETAILS FOR INSULATION AT TERMINAL CONNECTION POINTS FOR ALL ELECTRICAL CONDUCTING MATERIALS, SUCH AS TRANSFORMER TERMINALS, TERMINAL STUDS, AND AT ANY OTHER SPECIAL LOCATIONS AS DIRECTED BY THE ENGINEER AND CONFIRMED BY THE OWNER.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE OF RATED AND WEATHERPROOF RATED EQUIPMENT IN DAMP OR WET LOCATIONS.
8. COORDINATION WITH LOCAL UTILITY COMPANIES WITH THE LOCAL UTILITY COMPANIES AND THE LOCAL FIRE DEPARTMENT IS REQUIRED. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND FILE ALL REQUIRED APPLICATIONS AND KEEP ALL UTILITY COMPANY REQUIREMENTS.
3.2 COOPERATION AND WORK PROGRESS
A. THE ELECTRICAL WORK SHALL BE CARRIED ON UNDER THE USUAL CONSTRUCTION CONDITIONS, IN CONFORMANCE WITH ALL OTHER TRADES. THE ELECTRICAL CONTRACTOR SHALL COOPERATE WITH THE ENGINEER AND ALL CONTRACTORS AND EQUIPMENT SUPPLIERS WORKING ON THE SITE COORDINATE THE WORK AND PROCEED IN A MANNER SO AS NOT TO DELAY THE PROGRESS OF THE PROJECT.
B. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE EXACT MOUNTING ARRANGEMENT AND LOCATION OF EQUIPMENT BASES ON THE DRAWINGS TO ALLOW FOR PROPER SPACE REQUIREMENTS FOR EQUIPMENT ACCESS, OPERATION AND MAINTENANCE.
C. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT TO THE PROJECT PRIOR TO THE TIME OF INSTALLATION OF EQUIPMENT.
3.3 INSTALLATION OF WIRING & CONDUIT
A. IN GENERAL, ALL CONDUITS SHALL BE RUN CONCEALED UNLESS OTHERWISE INDICATED TO BE RUN EXPOSED.
B. EXPOSED CONDUITS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO THE WALLS OF THE BUILDING AND ALL BENDS SHALL BE MADE WITH STANDARD CONDUIT ELBS OR CONDUITS BENT TO NOT LESS THAN THE SAME RADIUS. HORIZONTAL RUNS OF EXPOSED CONDUIT SHALL BE SUPPORTED BY PIPE STRIPS OR BY OTHER APPROVED MEANS. WHERE POSSIBLE AND SHALL BE SUPPORTED BY PIPE STRIPS OR BY OTHER APPROVED MEANS. THE MINIMUM CLEARANCE FROM EXPOSED CONDUIT IN FINISHED AREAS OF THE BUILDING SHALL BE CHECKED WITH THE ENGINEERS FOR LAYOUT BEFORE EXPOSITION. CONDUITS WILL BE PERMITTED IN PUBLIC AREAS, AND WHEN COMPLETED, IS TO PRESENT THE MOST OBTRUSIVE APPEARANCE POSSIBLE.
C. EXPOSED CONDUITS SHALL NOT BE PERMITTED IN PUBLIC AREAS.
D. IN NO PLACE SHALL A CONDUIT BE RUN WITHIN 3" OF HOT WATER PIPES OR APPLIANCES, EXCEPT WHERE CROSSING IS UNAVOIDABLE AND IN THAT CASE, THE CONDUIT SHALL BE KEPT AT LEAST 1" FROM CONTACT OR FIRE CROSSING.
E. CONDUITS SHALL BE SUPPORTED ON APPROVED GALVANIZED WALL BRACKETS, CEILING TRAYS, AND BATTERY TRAYS. CONDUITS SHALL BE SUPPORTED ON APPROVED HOLLOW MASONRY UNITS OR EXPANSION BOLTS IN CONCRETE OR BRICK.
F. IN GENERAL, NO SPLICES OR JOINTS WILL BE PERMITTED IN EITHER FEEDER OR BRANCHES EXCEPT AT OUTLETS OR ACCESSIBLE JUNCTION BOXES. NO SPLICES SHALL BE MADE IN FEEDER OR FIRE ALARM SYSTEMS.
F. ALL SPLICES IN WIRE #8 AND SMALLER SHALL BE STANDARD PITMAN, MADE MECHANICALLY TIGHT AND INSULATED WITH PROPER INSULATION. FEEDER AND BRANCH WIRE SPLICES UNITS AS MANUFACTURED BY: MINNESOTA MINING COMPANY (SCOTCH BLOCK) OR WIRE NUTS SHALL BE USED. EQUIPMENT SHALL BE WIRING THROUGH THE CONDUIT.
G. WIRE #8 AND LARGER SHALL BE CONNECTED TO PANELS AND APPLIANCES BY MEANS OF APPROVED LUGS OR CONDUITORS. CONNECTORS SHALL BE SOLDER LESS TYPE, COMPATIBLE TO THE PHASE CONNECTIONS, SUCH WORK SHALL BE DONE AT THE ELECTRICAL CONTRACTOR'S EXPENSE BY THE GENERAL CONTRACTOR.
3.4 INSTALLATION OF UNDERGROUND CONDUITS
A. THE SIZE AND NUMBER OF CONDUITS SHALL BE AS INDICATED ON THE DRAWINGS.
B. THE ENTIRE LENGTH OF DUCT BANK SHALL BE IDENTIFIED AND GRADED BEFORE ANY CONDUITS ARE LAD.
C. THE DUCT BANK SHALL BE SET ON UNDISTURBED TOP.
D. THE CONDUIT SHALL BE INSTALLED SO THAT THE TOP IS A MINIMUM OF 36 INCHES BELOW FINISHED GRADE.
E. CHANGES IN DIRECTION SHALL BE MADE BY LONG SWEEP BENDS. MINIMUM RADIUS SHALL BE 25 FEET EXCEPT THAT THE END OF A RUN WITHIN 15 FEET OF TERMINATION, MANUFACTURED BENDS MAY BE USED HAVING A MINIMUM RADIUS OF 36 INCHES.
F. CONDUIT BANK BASE AND INTERMEDIATE SPICES SHALL BE INSTALLED A MAXIMUM 5' FEET ON CENTERS. SPICES SHALL NOT BE PLACED ONE ABOVE THE OTHER BUT SHALL BE STAGGERED A MINIMUM OF 6 INCHES.
G. ALL CONDUIT JOINTS SHALL BE MADE WATERPROOF BY MEANS OF A SEALING COMPOUND INSTALLED TO THE EQUIPMENT. JOINTS IN CONDUIT SHALL BE STAGGERED.
H. MINIMUM SPACE BETWEEN JOINTS IN ADJACENT CONDUITS SHALL BE 6 INCHES.
H. WHEN THE REQUIRED NUMBER OF CONDUITS HAVE BEEN INSTALLED, SECURELY THE ASSEMBLY TOGETHER AT DISTANCES NOT EXCEEDING 7 FEET. THE SHALL CONSIST OF THREE TURNS OF NO. 18 IRON WIRE.
I. WHERE CONDUIT IS ENDED, THE DUCT ENVELOPE SHALL BE OF MONOLITHIC CONSTRUCTION.
1. POURING OF CONCRETE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF CONSTRUCTION. THE END OF THE POUR SHALL BE INTERLOCKED OR SEALED. IF THE INSTALLATION IS HALTED, THE ENDS OF THE CONDUIT SHALL BE PLOUGED.
2. CONCRETE SHALL NOT BE POURED UNTIL THE CONDUIT INSTALLATION HAS BEEN INSPECTED AND APPROVED.
3. INSTALL APPROXIMATELY 12" BELOW THE TOP OF THE TRENCH ABOVE EACH CONDUIT OR DURET BUNDLED CABLE A 6-INCH WIDE PLASTIC OR FIBER TAPE SHALL BE YELLOW IN COLOR WITH BLACK LETTERS READING "BURIED ELECTRICALS."
3.5 ELECTRICAL INSTALLATION FOR ELEVATORS
A. ELECTRICAL CONTRACTOR SHALL PROVIDE ELEVATORS AND ESCALATORS WITH ELECTRICAL POWER AND AUXILIARY SERVICES GENERALLY AS DESCRIBED AND AS MANDATED BY THE ELEVATOR CONTRACT SHOP DRAWINGS AND SPECIFICATIONS. PRIOR TO INSTALLATION, ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ELEVATOR CONTRACTOR.
B. FEEDER BREAKERS FOR ALL ELEVATORS SHALL BE SHUNT TRIP, UNLESS INSTALLED IN MASSACHUSETTS. PROVIDE WIRING AND INTERFACED WITH FIRE ALARM AND SPRINKLER SYSTEM TO SHUNT TRIP ELEVATOR FEEDER BREAKER AS REQUIRED BY CODE. WHERE SHUNT TRIP IS NOT USED, PROVIDE JUNCTION BOX IN ELEVATOR MACHINE ROOM MARKED TELEVISOR SHUNT TRIP FOR FUTURE USES AND DISABLE SHUNT TRIP BREAKER.
C. PROVIDE POWER DISCONNECT FOR EACH ELEVATOR WITH IDENTIFYING NAMEPLATE. PROVIDE COMPARTMENT TWO NO ADJUTANT CONTACTS AND FUSES SIZED FOR ELEVATOR SHOP DRAWINGS LOCATE ON LATCH SIDE OF ELEVATOR DOOR OR AS DIRECTED BY THE ELEVATOR CONTRACTOR.
D. PROVIDE THE FOLLOWING AUXILIARY SERVICES TO THE ELEVATOR PIT, ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM FOR EACH ELEVATOR. LOCATE AND IDENTIFY FROM SHOP DRAWINGS AND IDENTIFY FROM SHOP DRAWINGS OR DRAWING CONTRACTOR.
1. CAB LIGHTING: PROVIDE LOCKABLE DISCONNECT AND SINGLE CIRCUIT.
2. CAB TELEPHONE: JUNCTION BOX WITH 11 CONDUIT TO LOCAL TELEPHONE BACKBOARD.
3. CAB SECURITY: JUNCTION BOX WITH 11 CONDUIT TO LOCAL TELEPHONE BACKBOARD.
4. CAB FIRE ALARM: COMBINING OF JUNCTION BOX WITH WIRING FOR AUDIO/VISUAL ALARM FIREMAN'S PHONE. PROVIDE DEVICES AS REQUIRED.
5. ALL CIRCUITS FOR ELEVATORS SHALL BE CONNECTED TO EMERGENCY SERVICE AND INSTALLED IN MANUAL INSULATED CABLE 1-HOUR FIRE RATED ENCLOSURE, IF EMERGENCY SERVICE IS AVAILABLE.
6. CONTROL AND SIGNAL SYSTEMS: PROVIDE SEPARATE 120V/208V, 1-PHASE, 30 AMPERE CIRCUIT TO LOCKABLE DISCONNECT FOR MULTIPLE/ELEVATOR BANK-SHUNT CONTROLLER.
7. PROVIDE FIRE ALARM JUNCTION BOX AND WIRING FOR FIRE ALARM ELEVATOR RECALL AND GENERAL ALARM ELEVATOR RECALL SHALL BE PROVIDED FROM SHOP DETECTORS PROVIDED IN ELEVATOR LOBBIES, MACHINE ROOM, AND TOP OF ELEVATOR SHAFT.
8. ELEVATOR 20 AMPERE DEDICATED INT RECEPTACLE AT EACH ELEVATOR
9. ELEVATOR PIT SHALL BE PROVIDED WITH VAPOR-TIGHT LIGHTING FITTURE WITH POLYCARBONATE LENS SWITCHED FROM ENTRANCE OF ELEVATOR PIT. PROVIDE 20 AMPERE DISCONNECT OF RECEPTACLE IN EACH ELEVATOR PIT. DO NOT USE LIGHT FIXTURE ON 0% CIRCUIT, WHERE PROVIDED, CONNECT SUMMER PUMP IN ELEVATOR PIT DEDICATED CIRCUIT.
10. INTERCOM SYSTEM: PROVIDE 120V, 20 AMPERE CIRCUIT.

2. THE SYSTEM SHALL SUPPORT ANALOG SENSING TECHNIQUES TO MONITOR INDIVIDUAL DEVICES WHICH ENABLES THE USER TO SET SENSITIVITY PARAMETERS. ALL UNITS SHALL BE SUBJECT TO MULTI-LEVEL ALARM VERIFICATION. THE SYSTEM SHALL BE CAPABLE OF REPORTING THE STATUS AND SECURITY OF EACH DEVICE AND VERIFYING THE INFORMATION TO A PRINTED, THE SYSTEM SHALL AUTOMATICALLY IDENTIFY ANY DETECTOR WHICH DEMONSTRATES DIRTY (MAINTENANCE ALERT), PRIOR TO FALSE ALARMS.
3. THE SYSTEM SHALL BE SUPPORTED BY STANDBY BATTERIES. IN THE EVENT OF A LOSS OF PRIMARY POWER, BATTERIES SHALL SUPPORT 180 HOURS OF FULL SUPERVISORY OPERATION FOLLOWED BY (5) MINUTES OF ALARM.
4. THE SYSTEM SHALL BE CAPABLE OF NINE LEVELS OF ALARM PRIORITIZATION, AND ALLOW CONTRADICTORY SEQUENCES TO INCLUDE IN EXCESS OF 2000 CROSS (BROUEN CONTACT EVENTS).
5. ALL EQUIPMENT SHALL BE NEW AND UNUSED. ALL COMPONENTS AND SYSTEMS SHALL BE DESIGNED FOR UNINTERRUPTED DUTY. ALL EQUIPMENT, MATERIALS AND ACCESSORIES COVERED BY THESE REQUIREMENTS SHALL BE PROVIDED BY A SINGLE MANUFACTURER, OR IF PROVIDED BY DIFFERENT MANUFACTURERS SHALL BE COMPATIBLE BY BOTH MANUFACTURERS.
6. ALL EQUIPMENT MUST HAVE TRANSPARENT PROTECTION DEVICES TO COMPLY WITH UL 864 REQUIREMENTS.
A. ISOLATED LOOP CIRCUIT PROTECTOR (LCP): FURNISH AND INSTALL AN ISOLATED LOOP CIRCUIT PROTECTION DEVICE ON ALL FIRE ALARM CIRCUITS WHICH EXTEND BEYOND THE BUILDING BY EITHER AERIAL, UNDERGROUND OR OTHER METHODS (MOUNTAINS, BRIDGES OR OTHER ABOVE GROUND CONNECTORS).
B. THE LCP SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE POINT AT WHICH THE CIRCUITS LEAVE OR ENTER THE BUILDING. THE GROUNDING CONDUCTOR SHALL BE A NO. 12 AWG WIRE HAVING A MAXIMUM LENGTH OF 28 FEET AND CONNECTED TO A UNIFIED GROUND FOR THE BLDG.
7. CIRCUITING GUIDELINES, EACH INITIATING DEVICE AND INDICATING CIRCUIT SHALL BE ELECTRONICALLY SEPARATED AND INDIVIDUALLY ADDRESSABLE. ALL WIRING SHALL BE AS FOLLOWS:
A. INDIVIDUAL ZONE ADDRESSABLE MODULES SHALL BE USED TO MONITOR ALL WATER FLOW, TAMPER, AND STATUS CONDITIONS FROM ANY RELATED SYSTEMS OR CONVENTIONAL DEVICES.
B. ZONE ADDRESSABLE CIRCUIT MODULES OR RELAYS SHALL PROVIDE AUXILIARY CIRCUIT FUNCTIONS SEPARATE OUTGOING AND RETURN PATHS MUST BE INSTALLED IN ACCORDANCE WITH NFPA 72 (2002 IBC) 6.4.2.2.2.
C. ADDRESSABLE LOOP WIRING (SIGNALLING LINE CIRCUITS) SHALL SUPPORT ALL DEVICES SHOWN AND ALLOW FOR A MINIMUM OF 25% SPARE CAPACITY, AND BE WIRED IN A CLASS A, STYLE 6 FASHION, WITH FAULT ISOLATION AS DESCRIBED ELSEWHERE IN THESE SPECIFICATIONS.
D. AS A MINIMUM, POWER SUPPLIES AND NOTIFICATION APPLIANCE CIRCUITS SHALL OPERATE ALL DEVICES SHOWN PLUS 25% SPARE CAPACITY, AND BE WIRED IN A CLASS A, STYLE 2 FASHION.
D. SYSTEM COMPONENTS
1. FIRE ALARM NETWORK CONTROL PANEL.
A. PROVIDE AND INSTALL SHOWN 4100U SERIES FIRE ALARM CONTROL SYSTEM. THE SYSTEM SHALL CONSIST OF THE REQUIRED FIRE ALARM NETWORK CONTROL PANEL, 16 CHANNEL RELAY BOARD, 16 CHANNEL 1500 ANALOG DETECTORS, EXPANDABLE TO 2500. THE SYSTEM SHALL SUPPORT EXT

VALVES & GAUGES		
SYMBOL	ABBREVIATION	DESCRIPTION
	FCVA	FLOOR CONTROL VALVE ASSEMBLY
	SOV	SHUT-OFF VALVE W/ TAMPER SWITCH
	FDV	FIRE DEPARTMENT VALVE
	FS	FLOW SWITCH

PIPES		
SYMBOL	ABBREVIATION	DESCRIPTION
		CONTINUATION MARK
		TEE LOOKING DOWN
		CAP OR END OF PIPE
		ELBOW UP OR RISER
		ELBOW DOWN OR DROP
	DR	SPRINKLER DRAIN
	SP	SUPPLY PIPING
	STP	STANDPIPE
		EXISTING TO BE REMOVED (PIPING)

FIRE PROTECTION SPECIFICATION

1. GENERAL
 - A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK IN CONTRACT. THE CONTRACTOR SHALL PROVIDE ALL COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEM FULLY COMPLETE AND OPERATIONAL.
 - B. CHECK CONTRACT DRAWINGS AS WELL AS SHOP DRAWINGS OF ALL SUBCONTRACTORS TO VERIFY AND COORDINATE SPACES IN WHICH WORK OF THIS SECTION WILL BE INSTALLED.
2. SCOPE
 - A. PERFORM WORK AND PROVIDE MATERIAL AND EQUIPMENT AS SHOWN ON DRAWINGS AND AS SPECIFIED IN THIS SECTION OF THE SPECIFICATION
 - B. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO:
 1. RECONFIGURE THE EXISTING STANDPIPE SYSTEM AS NECESSARY TO ACCOMMODATE THE NEW ARCHITECTURAL WALLS AS INDICATED.
 2. SUBMIT WORKING PLANS/COORDINATION DRAWINGS IN ACCORDANCE WITH NFPA NO. 14, 2013.
 3. PERFORM ALL TESTS AND SUBMIT CONTRACTORS MATERIAL AND TEST CERTIFICATES IN ACCORDANCE WITH NFPA 13, 2013.
 4. PERFORM SHUT-DOWNS WITH A FIRE WATCH AS NECESSARY TO PERFORM WORK AND COORDINATE AN APPROVED IMPAIRMENT PLAN WITH THE AUTHORITY HAVING JURISDICTION.
 5. FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
3. SITE VISIT
 - A. BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. INDICATE IN BID ANY AREAS WHERE SPRINKLERS ARE REQUIRED BUT NOT SPECIFIED OR SHOWN IN THE BID DOCUMENTS. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVER.
4. CODES, STANDARDS, AUTHORITIES AND PERMITS
 - A. PERFORM WORK REQUIRED BY RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENT, AND OTHER AUTHORITIES WHOM HAVE LEGAL JURISDICTION.
 - B. MATERIALS AND EQUIPMENT SHALL BE MANUFACTURED, INSTALLED AND TESTED AS SPECIFIED:
 1. LOCAL AND STATE BUILDING AND FIRE DEPARTMENT CODES.
 2. NFPA STANDARDS ADOPTED IN RHODE ISLAND.
 3. INSURANCE UNDERWRITER REQUIREMENTS.
 4. AUTHORITY HAVING JURISDICTION: CITY OF PAWTUCKET, RI.
5. GUARANTEE
 - A. GUARANTEE WORK OF THIS SECTION IN WRITING FOR ONE YEAR FOLLOWING THE DATE OF SUBSTANTIAL COMPLETION.
6. SUBMITTALS
 - A. PROVIDE PRODUCT DATA PREPARED BY MANUFACTURERS, SUPPLIERS AND VENDORS COMPRISING:
 7. PIPE AND FITTINGS
 - A. PIPE SHALL MEET APPLICABLE ANSI OR ASTM STANDARDS AND SHALL HAVE MANUFACTURERS NAME AND STANDARD MARKED ON EACH LENGTH. JOINTS SHALL MEET APPLICABLE ANSI OR ASTM STANDARDS. WHERE ANSI OR ASTM STANDARD DOES NOT EXIST, JOINTS AND FITTINGS SHALL BEAR UL LISTING SYMBOL.
 - B. MATERIALS
 1. PIPE MATERIAL: WELDED AND SEAMLESS STEEL PIPE, SCHEDULE 10, ASTM A53.
 2. PIPE MATERIAL: MALLEABLE IRON, CLASS 150, ANSI B16.3.
 3. JOINT: GROOVED.
 8. HANGERS, ANCHORS, CLAMPS, AND INSERTS
 - A. HANGERS SHALL MEET NFPA STANDARDS.
 9. SPECIAL RESPONSIBILITIES
 - I. NOTIFY OWNER OF LOCATION AND EXTEND OF EXISTING PIPING AND EQUIPMENT THAT INTERFERES WITH NEW CONSTRUCTION. IN COORDINATION WITH AND WITH APPROVAL OF OWNER, RELOCATE PIPING AND EQUIPMENT TO PERMIT NEW WORK TO BE PROVIDED AS REQUIRED BY CONTRACT DOCUMENTS. REMOVE NON-FUNCTIONING AND ABANDONED PIPING AND EQUIPMENT AS DIRECTED BY OWNER. DISPOSE OF OR STORE MATERIALS AS DIRECTED BY OWNER.
 - J. USE OF PREMISES: RESTRICT USE OF PREMISES AS DIRECTED BY BUILDING MANAGER.
 10. CONTINUITY OF SERVICES
 - A. COORDINATE ALL INTERRUPTIONS WITH BUILDING MANAGER AND/OR OWNER.
 - B. NOTIFY THE "AUTHORITY HAVING JURISDICTION" WHEN SHUTDOWNS OF EXISTING SYSTEMS ARE NECESSARY AND COORDINATE AN APPROVED IMPAIRMENT PLAN.
 12. TESTS
 - A. TEST SPRINKLER SYSTEM AS REQUIRED BY NFPA 13 AND AUTHORITY HAVING JURISDICTION.
 - B. NOTIFY OWNER AND AUTHORITIES HAVING JURISDICTION WHEN TEST ARE TO BE MADE.
 - C. TEST SPRINKLER SYSTEM PIPING AND MAKE WATERTIGHT BEFORE PAINTING AND BEFORE CONCEALMENT. TESTS SHALL BE WITNESSED BY INSURANCE UNDERWRITER'S REPRESENTATIVE, THE MUNICIPAL INSPECTOR, AND A REPRESENTATIVE OF THE OWNER.
 - D. SPRINKLER SYSTEM SHALL BE TESTED BY HYDROSTATIC TEST AT SYSTEM PRESSURE IN ACCORDANCE WITH NFPA REQUIREMENTS.
 - E. IF INSPECTION OR TEST SHOW DEFECTS, SUCH DEFECTIVE WORK OR MATERIAL, SHALL BE REPLACED AND INSPECTION AND TESTS SHALL BE REPEATED UNTIL WORK IS ACCEPTED. REPAIRS TO PIPING SHALL BE MADE WITH NEW MATERIAL.

**FIRE CODE UPGRADE TO THE
 LYMAN B. GOFF MIDDLE SCHOOL**
974 Newport Ave, Pawtucket, RI 02861



317 Iron Horse Way,
 Suite 202
 Providence, RI 02908

401.861.1600
 brewsterthornton.com

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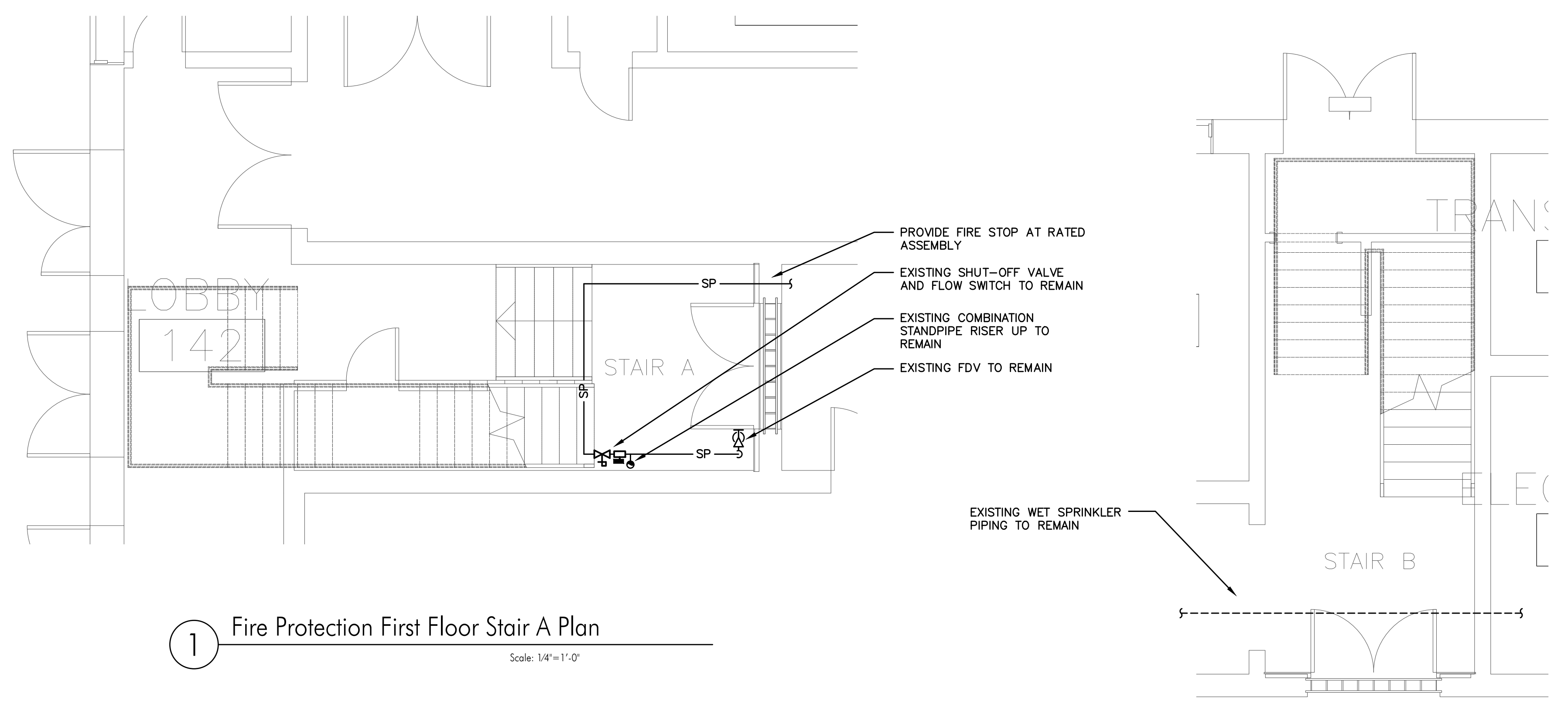
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SHEET TITLE
**FIRE
 PROTECTION
 LEGEND AND
 GENERAL
 NOTES**

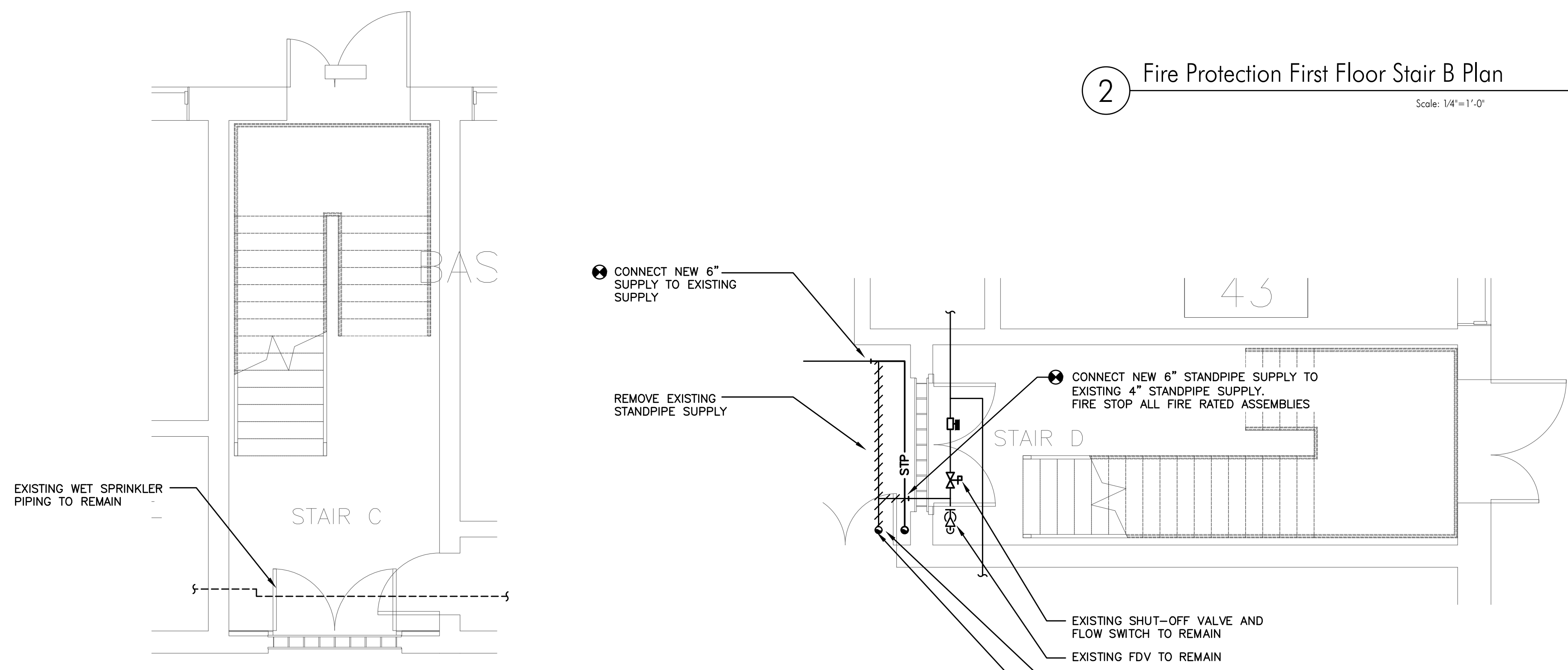
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1 Fire Protection First Floor Stair A Plan
Scale: 1/4"=1'-0"

2 Fire Protection First Floor Stair B Plan
Scale: 1/4"=1'-0"



3 Fire Protection First Floor Stair C Plan
Scale: 1/4"=1'-0"

4 Fire Protection First Floor Stair D Plan
Scale: 1/4"=1'-0"



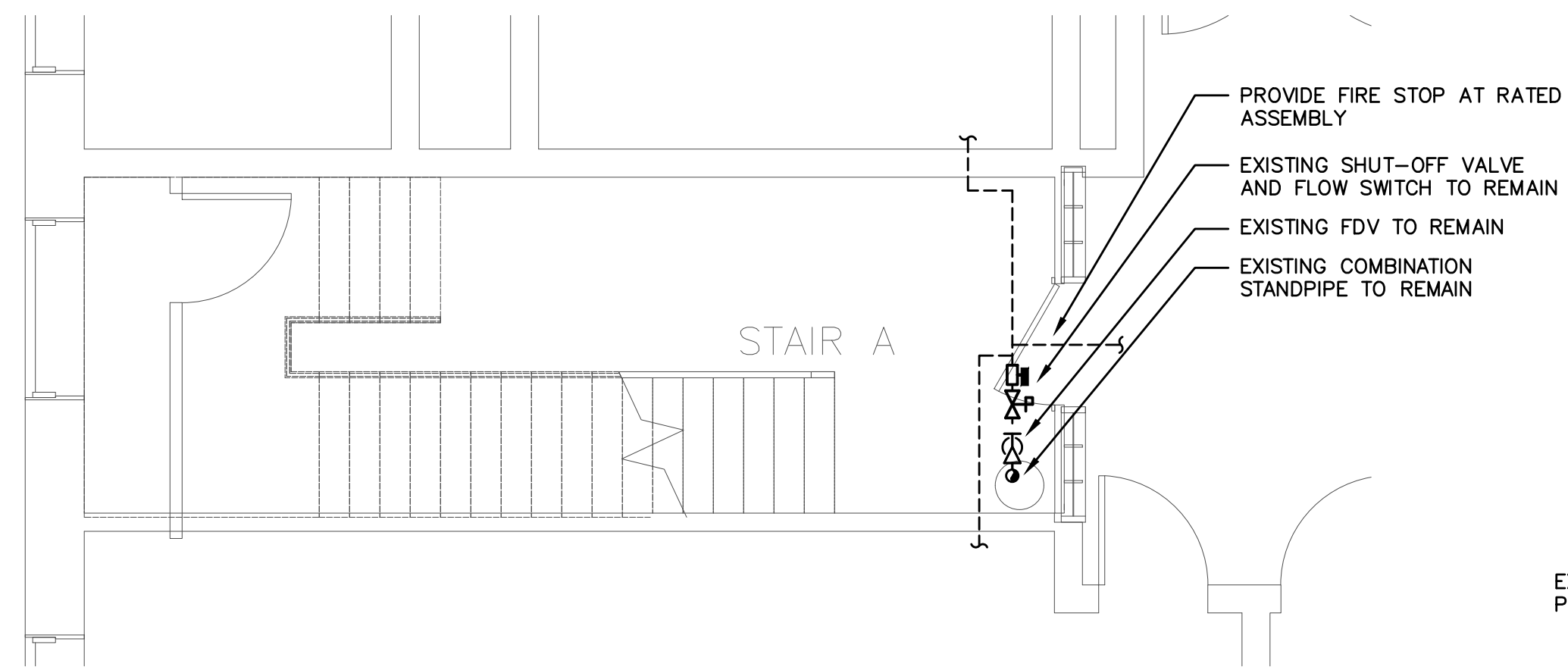
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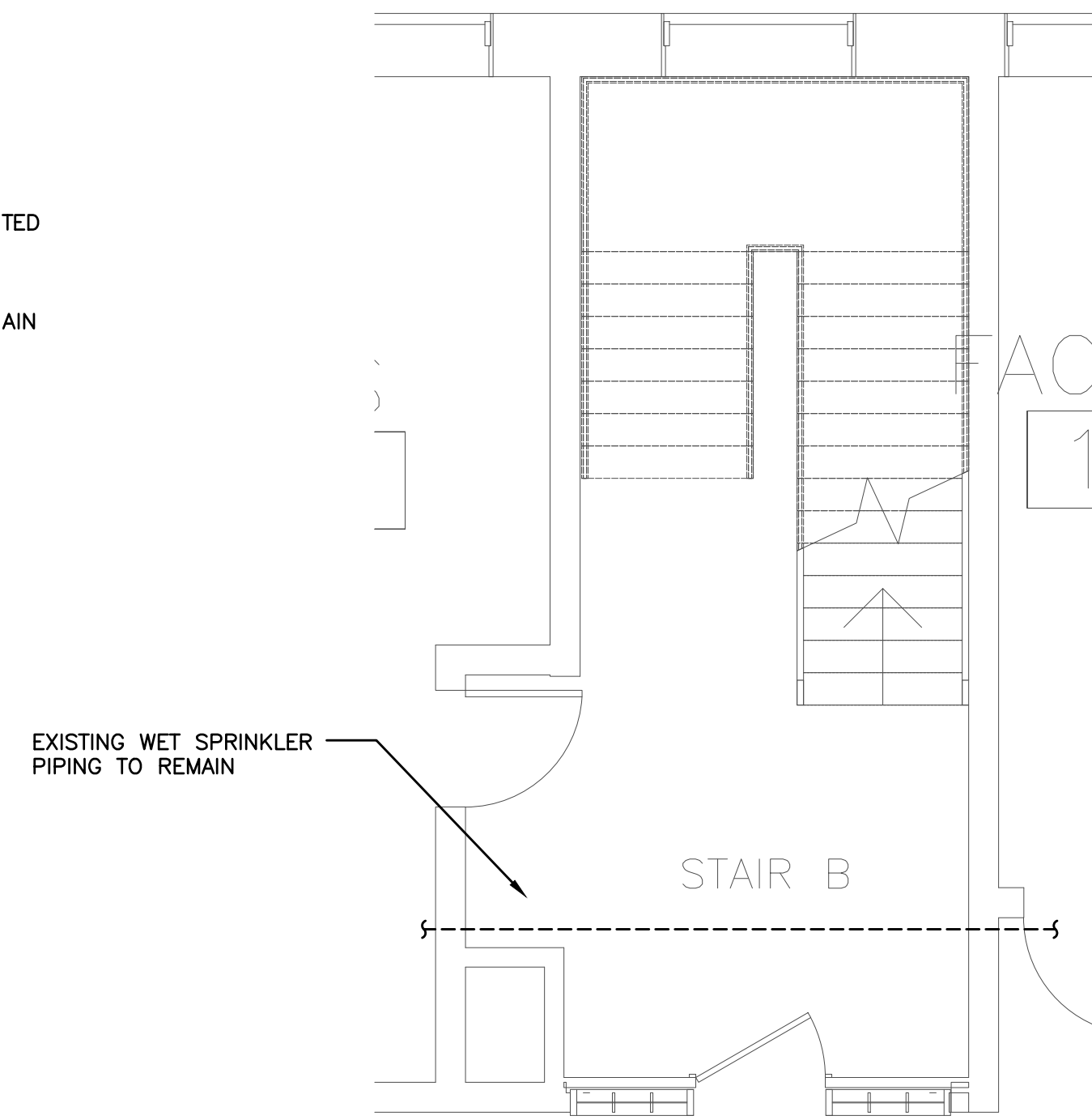
SHEET TITLE
**FIRE
 PROTECTION
 FIRST FLOOR
 PARTIAL
 PLANS**

SHEET
FP1.1

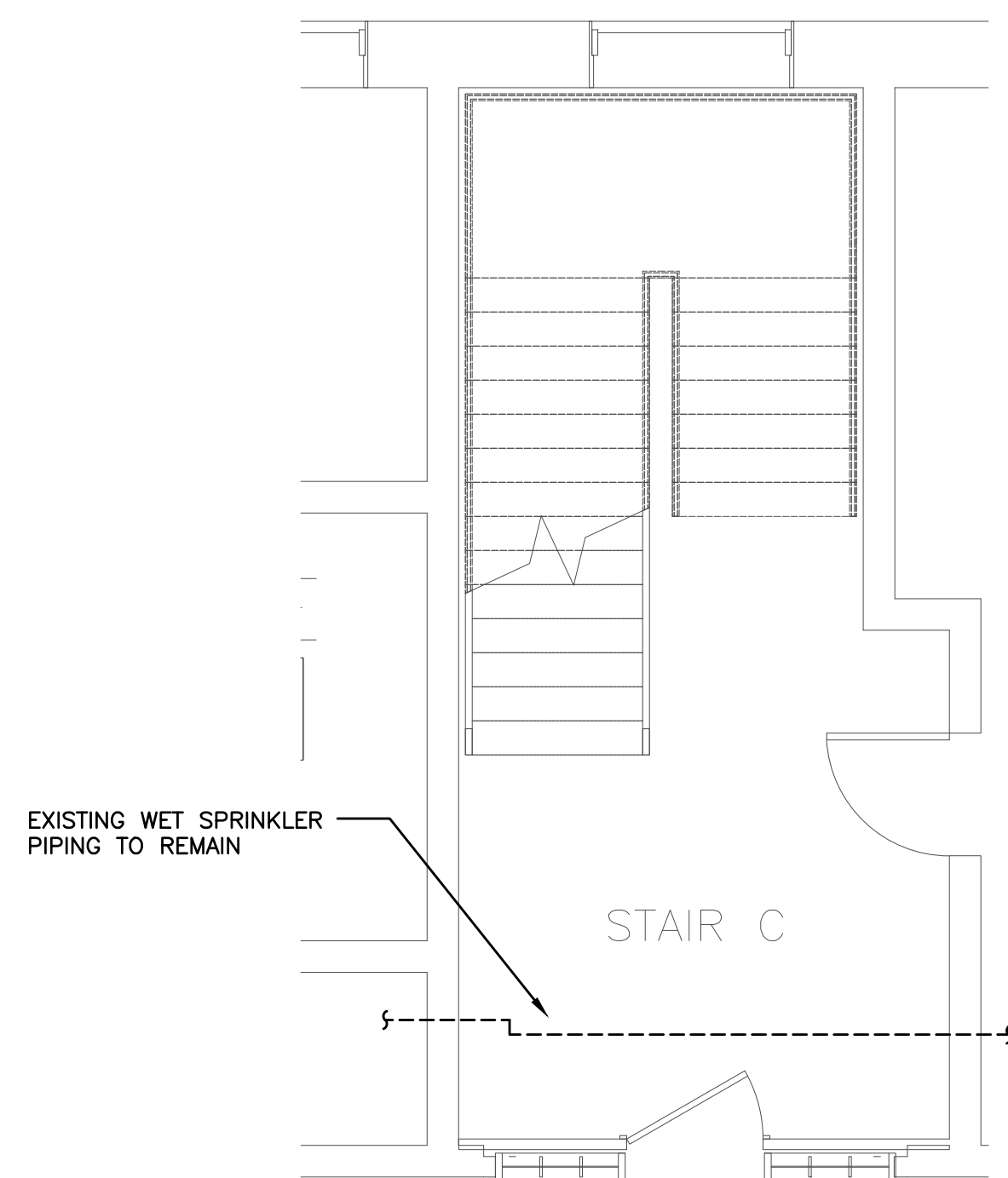




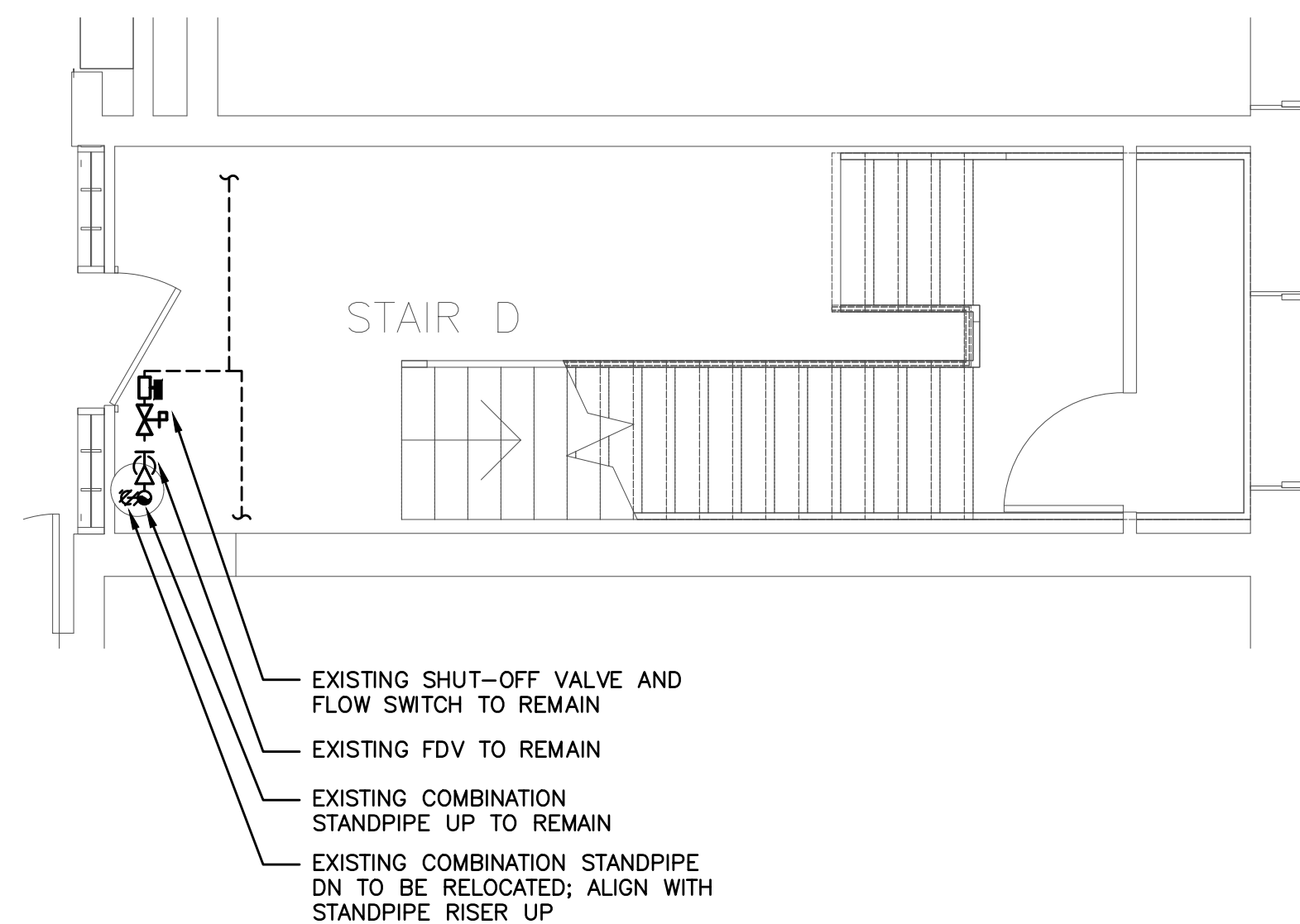
1 Fire Protection Second Floor Stair A Plan
Scale: 1/4"=1'-0"



2 Fire Protection Second Floor Stair B Plan
Scale: 1/4"=1'-0"



3 Fire Protection Second Floor Stair C Plan
Scale: 1/4"=1'-0"



4 Fire Protection Second Floor Stair D Plan
Scale: 1/4"=1'-0"

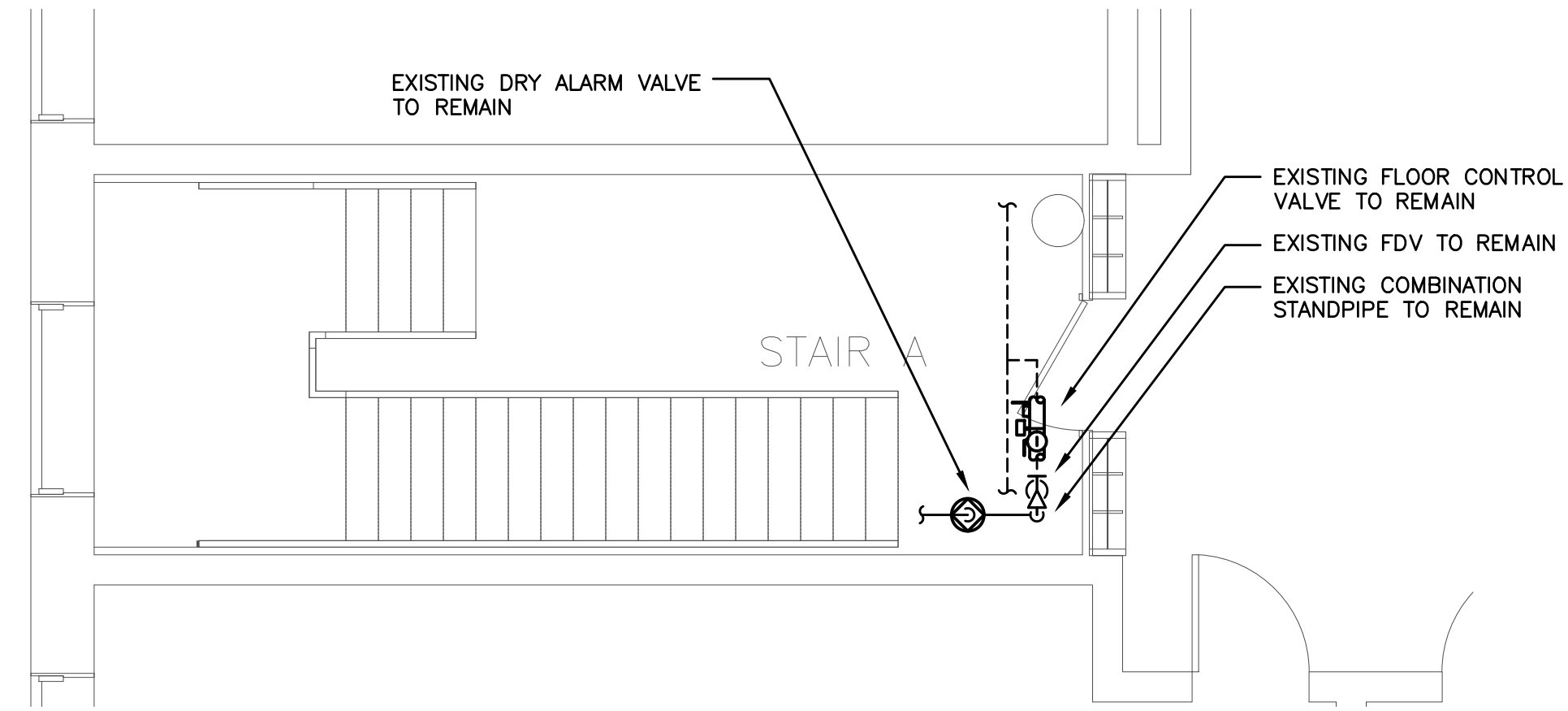
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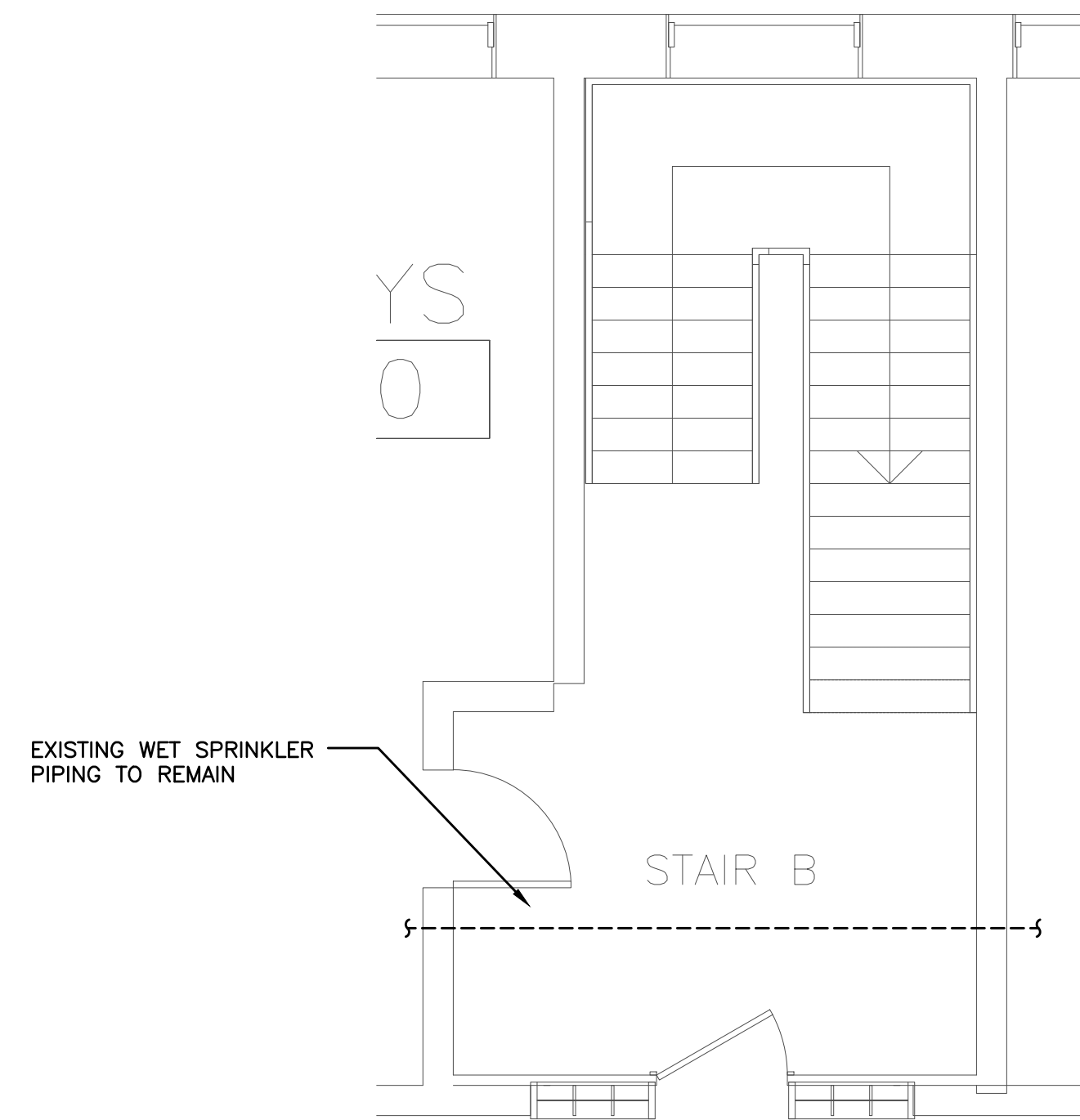
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SHEET TITLE
**FIRE
PROTECTION
SECOND
FLOOR PARTIAL
PLANS**

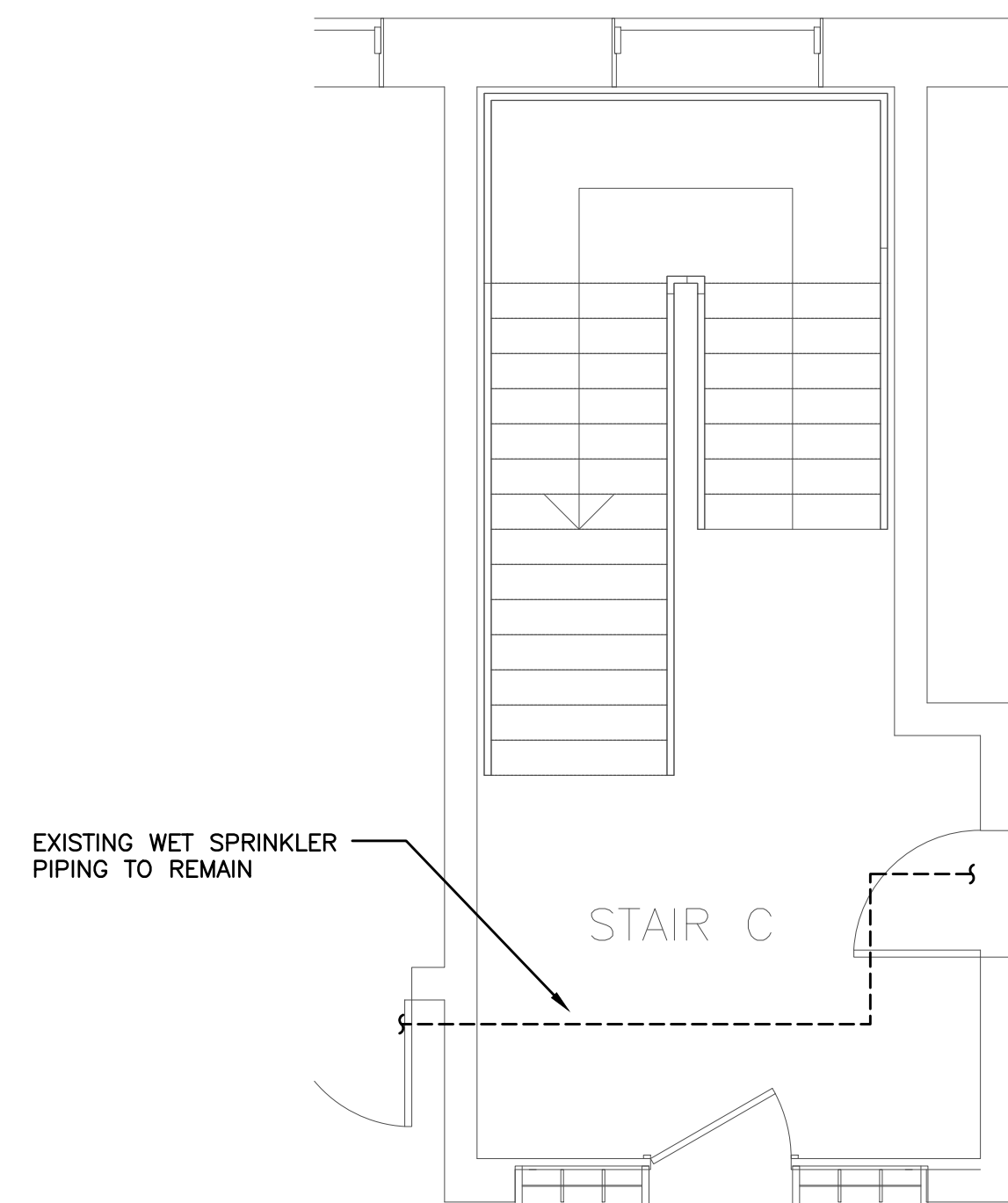
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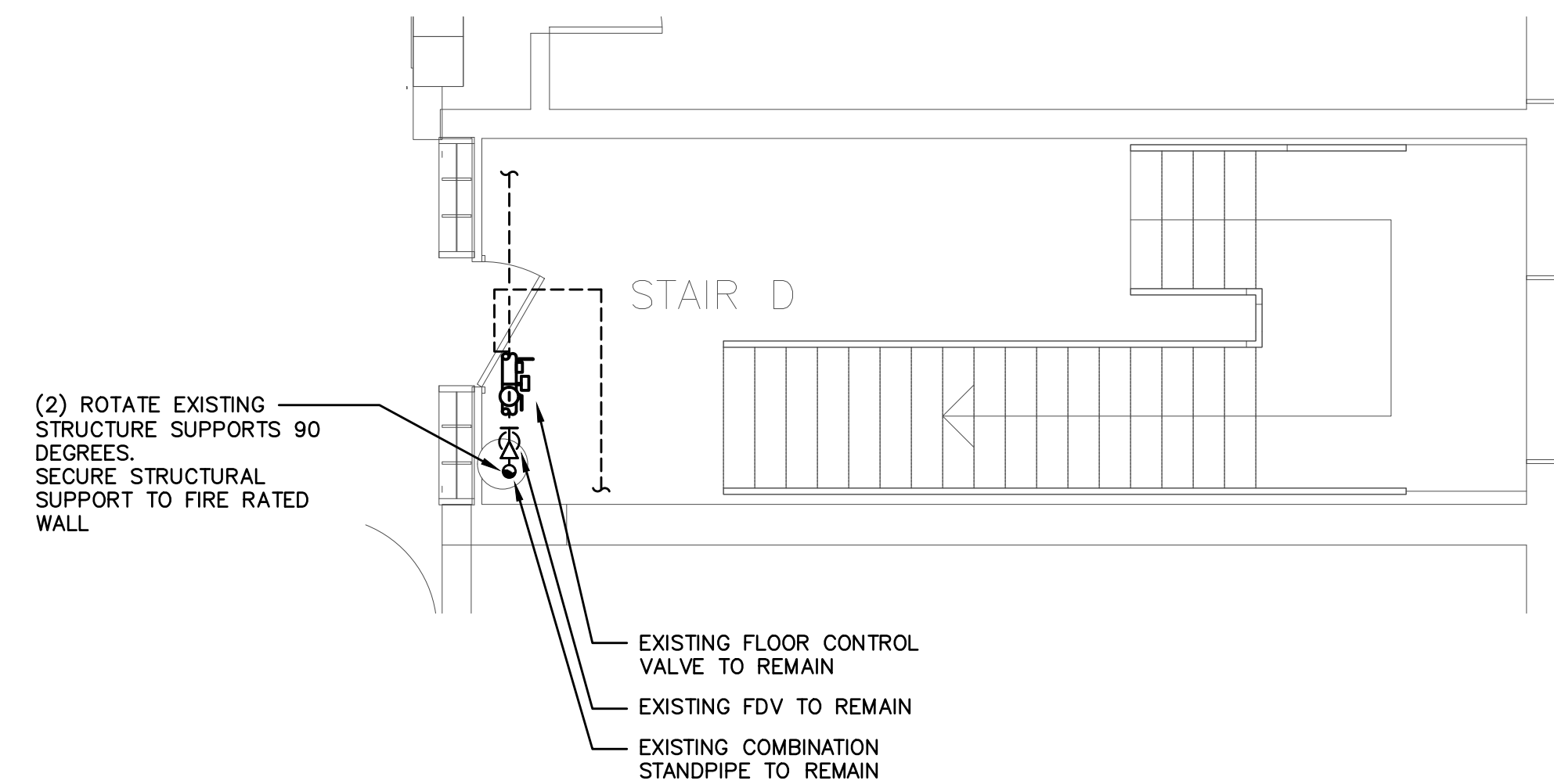
1 Fire Protection Third Floor Stair A Plan
Scale: 1/4"=1'-0"



2 Fire Protection Third Floor Stair B Plan
Scale: 1/4"=1'-0"



3 Fire Protection Third Floor Stair C Plan
Scale: 1/4"=1'-0"



4 Fire Protection Third Floor Stair D Plan
Scale: 1/4"=1'-0"

JOB NO. 24114	DATE 11.25.24
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NO.	REVISION DESCRIPTION	DATE

SHEET TITLE
**FIRE
PROTECTION
THIRD FLOOR
PARTIAL PLANS**

SHEET
FP1.3

HVAC GENERAL NOTES:

- THE FOLLOWING NOTES ARE GENERAL IN NATURE. IF A CONFLICT OCCURS BETWEEN THESE NOTES AND THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.
- EXAMINE ALL DRAWINGS AND THE SPECIFICATION FOR THE WORK REQUIREMENTS OF THIS SECTION. REFER TO THE SCOPE OF WORK SUMMARY IN SPECIFICATIONS.
- HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATIONS OF ALL COMPONENTS SHALL BE DETERMINED IN THE FIELD AND BY ACTUAL BUILDING CONDITIONS. EQUIPMENT OR DUCTS INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. THERMOSTAT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT BEFORE THE INSTALLATION.
- ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF ALL NATIONAL, STATE, COUNTY MUNICIPAL AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER CONSTRUCTION WORK OF THE PROJECT. ALL REQUIRED PERMITS SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK.
- INSTALLATION PROCEDURES, METHODS, AND CONDITIONS SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- THE HVAC CONTRACTOR SHALL GUARANTEE WORK IN WRITING FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE AGAINST DEFECTS IN MATERIALS, WORKMANSHIP AND INSTALLATION. THE HVAC CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER AND PROVIDE EQUIPMENT WARRANTIES TO THE OWNER IN FULL FORCE.
- PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, THE PRODUCT DATA SHALL BE SUBMITTED FOR REVIEW. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. SUBSTITUTED EQUIPMENT OR OPTIONAL EQUIPMENT WHERE PERMITTED AND APPROVED, MUST CONFORM TO SPACE REQUIREMENTS. ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE HEATING, VENTILATING AND AIR CONDITIONING TRADE IS REQUIRED TO SUPPLY ALL NECESSARY SUPERVISION AND COORDINATION INFORMATION TO ANY OTHER TRADES WHO ARE TO SUPPLY WORK TO ACCOMMODATE THE HEATING, VENTILATING AND AIR CONDITIONING INSTALLATIONS. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW TIMELY AND EFFICIENT COMPLETION OF THE PROJECT.
- CUTTING, CORING, DRILLING AND PATCHING OF HOLES AND OPENINGS IN ALL THE STRUCTURAL WALLS FOR THE WORK OF SUB-TRADES SHALL BE PERFORMED BY THE PARTICULAR SUBCONTRACTOR WHEN THE LARGEST DIMENSION OF THE OPENING IS 4 INCHES OR LESS. IF THE LARGEST DIMENSION OF THE OPENING EXCEEDS 4 INCHES, THE GENERAL CONTRACTOR SHALL PERFORM THE CUTTING AND PATCHING FOR THE WORK OF THE SUBCONTRACTOR. ALL SUCH WORK SHALL BE COORDINATED WITH THE G.C.
- ALL WORK SHALL BE INSTALLED SO THAT PARTS REQUIRING PERIODIC INSPECTION, OPERATION, MAINTENANCE AND REPAIR ARE READILY ACCESSIBLE. MINOR DEVIATION FROM THE DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF SUBSTANTIAL MAGNITUDE SHALL NOT BE MADE PRIOR TO WRITTEN APPROVAL FROM THE ENGINEER/ARCHITECT.
- THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL REVIEW EQUIPMENT INSTALLATION MANUAL TO UNDERSTAND THE EQUIPMENT SERVICE SPACE REQUIRED BEFORE WORK IS COMMENCED. THIS CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS IN CEILINGS, WALLS, FLOORS ETC WITH GC. THE PANELS SHALL BE FURNISHED BY HVAC CONTRACTOR AND INSTALLED BY GC.
- THIS TRADE SHALL COORDINATE DUCT AND EQUIPMENT INSTALLATION WITH EXISTING EQUIPMENT, DUCTS, AND PIPING. THIS TRADE SHALL COORDINATE ALL CONFLICTS WITH OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION AT NO EXTRA COST TO THE OWNER.

HVAC Ductwork Symbols & Abbreviations	
SYMBOL	DESCRIPTION
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HEX	HEAT EXCHANGER
HP	HEAT PUMP/HORSE POWER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MAU	MAKE-UP AIR UNIT
NO	NORMALLY OPEN (FAIL POSITION)
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE (INCHES OF WATER)
SR	SUPPLY REGISTER
RTU	ROOFTOP UNIT
TG	TRANSFER GRILLE
TYP	TYPICAL
WB	WET-BULB TEMPERATURE °F
WMS	WIRE MESH SCREEN
RD	RADIATION DAMPER
TYP.	TYPICAL
SS	STAINLESS STEEL

HVAC Ductwork Symbols & Abbreviations	
SYMBOL	DESCRIPTION
	NEW PIPING, DUCTWORK, EQUIPMENT, ETC. (LINE WEIGHT)
	LINED DUCTWORK
	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. (LINE WEIGHT)
	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. (TO BE REMOVED)
	CONNECT NEW TO EXISTING
ETR	EXISTING TO REMAIN

HVAC Piping Symbols	
SYMBOL	DESCRIPTION
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	CONDENSATE DRAIN
	DIRECTION OF DOWNWARD PITCH 1/8"/FOOT
	DIRECTION OF FLOW
	ELBOW TURNED DOWN
	ELBOW TURNED UP

* NOT ALL SYMBOLS MAY BE USED

**FIRE CODE UPGRADE TO THE
 LYMAN B. GOFF MIDDLE SCHOOL**
 97A Newport Ave, Pawtucket, RI 02861



317 Iron Horse Way,
Suite 202
Providence, RI 02908

401.861.1600
brewsterthornton.com

JOB NO. 24114	DATE 11.25.24
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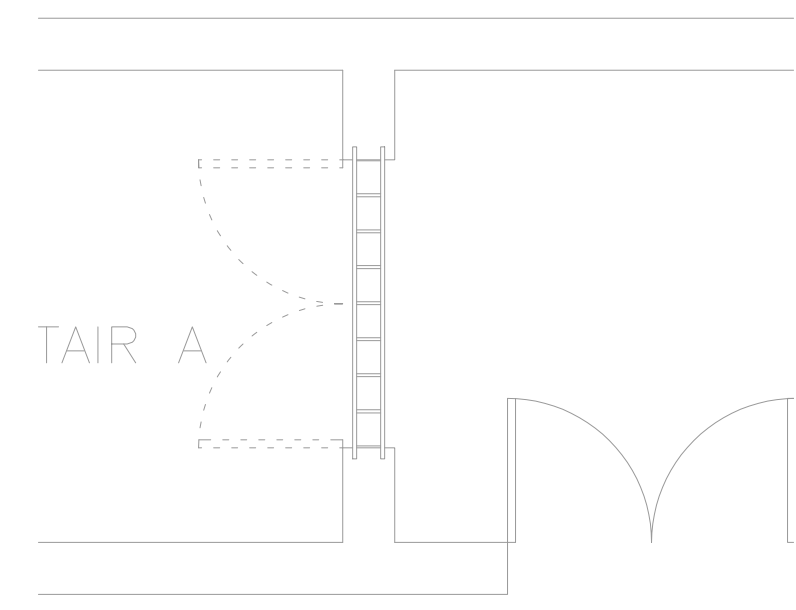
ISSUE: RIDE REVIEW

NO.	REVISION DESCRIPTION	DATE

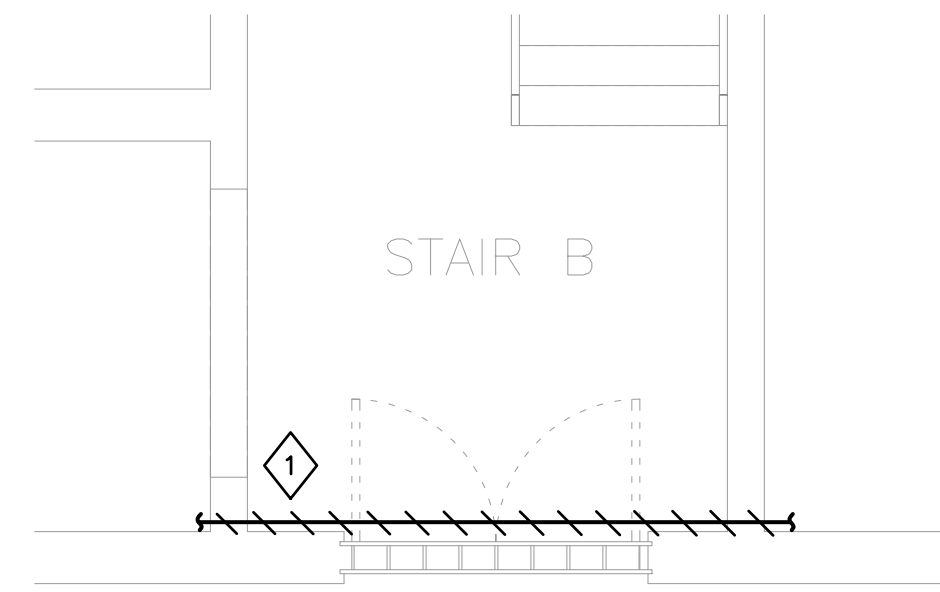
SHEET TITLE
**MECHANICAL
 SYMBOL
 LEGEND AND
 NOTES**

SHEET
M0.0

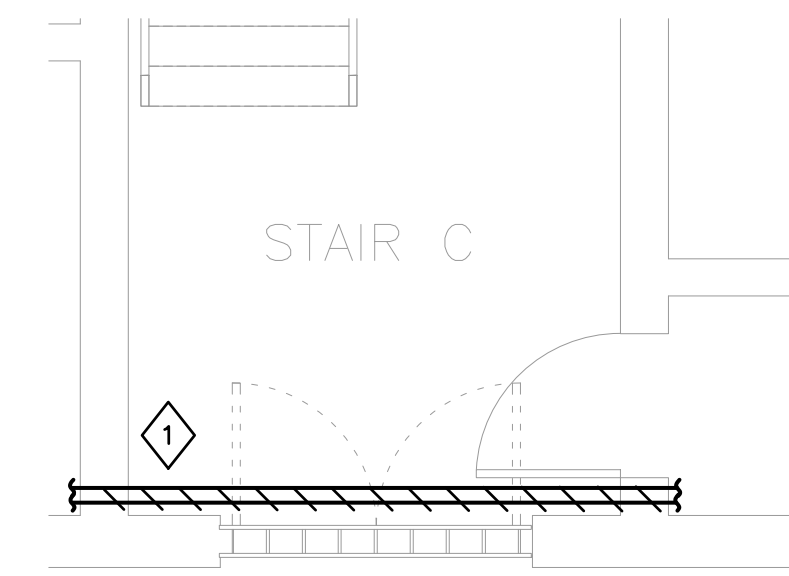




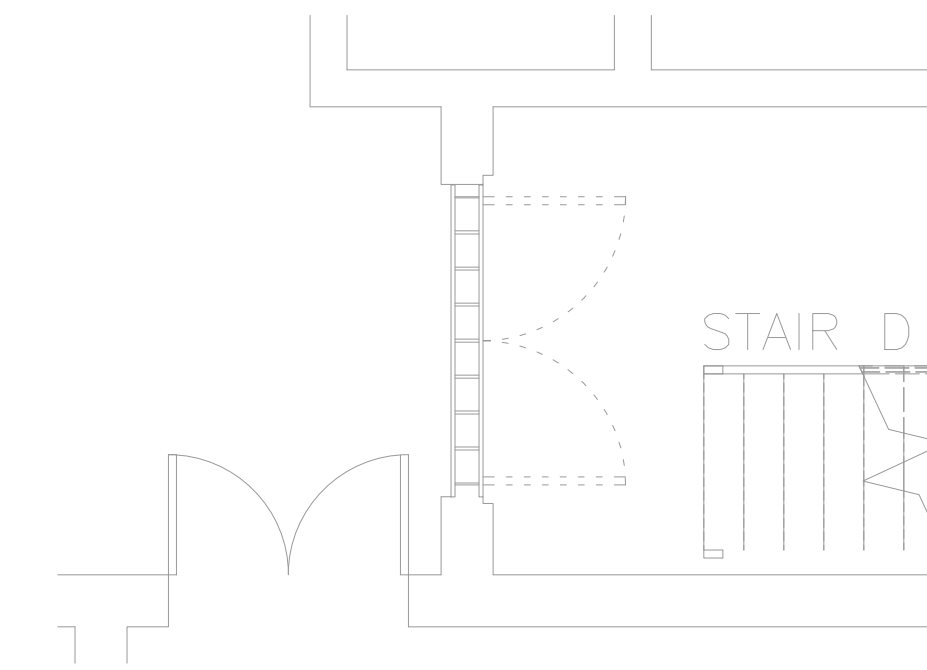
1 1st Fl Existing Stair A
Scale: 1/4"=1'-0"



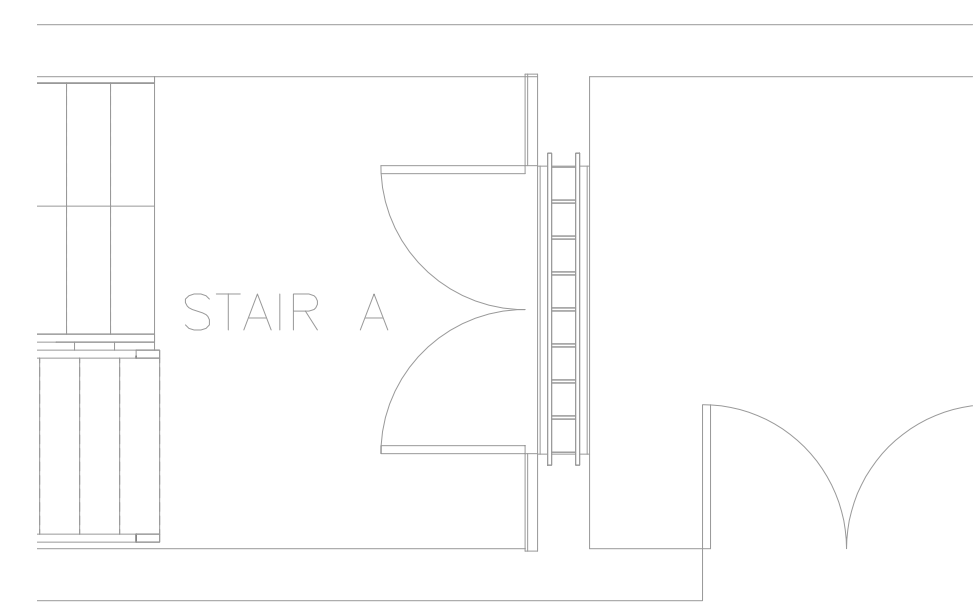
2 1st Fl Existing Stair B
Scale: 1/4"=1'-0"



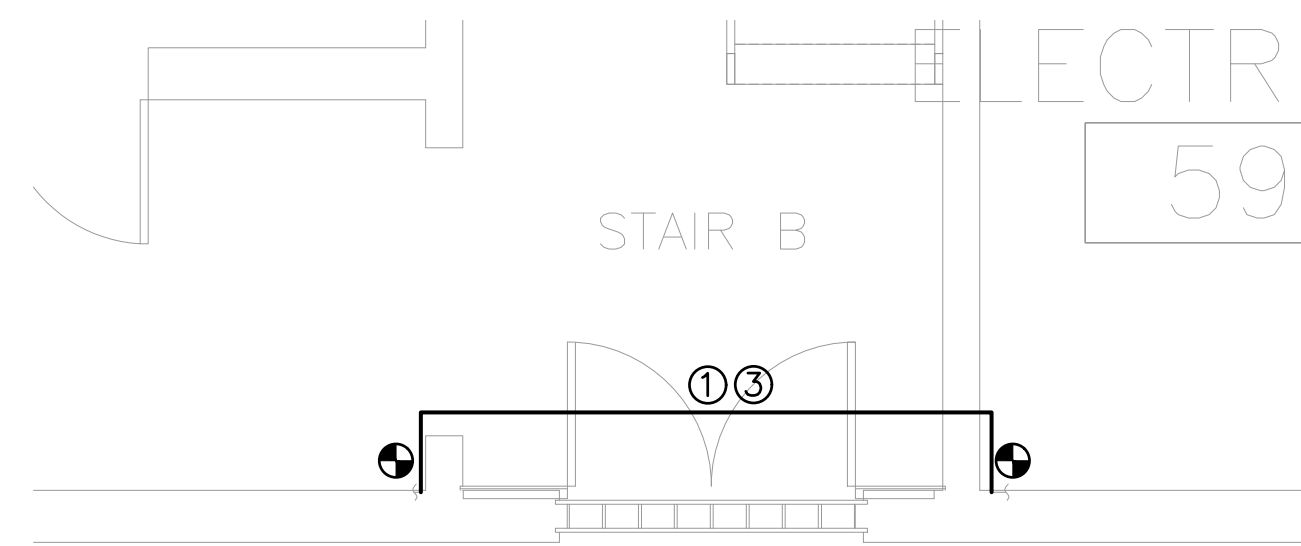
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Scale: 1/4"=1'-0"



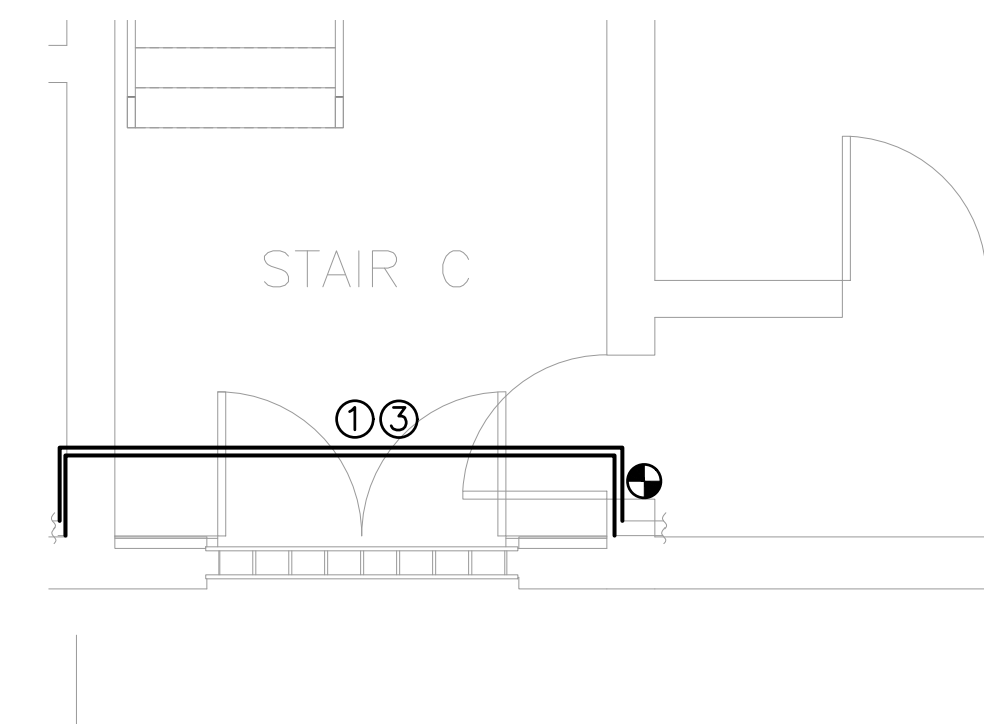
4 1st Fl Existing Stair D
Scale: 1/4"=1'-0"



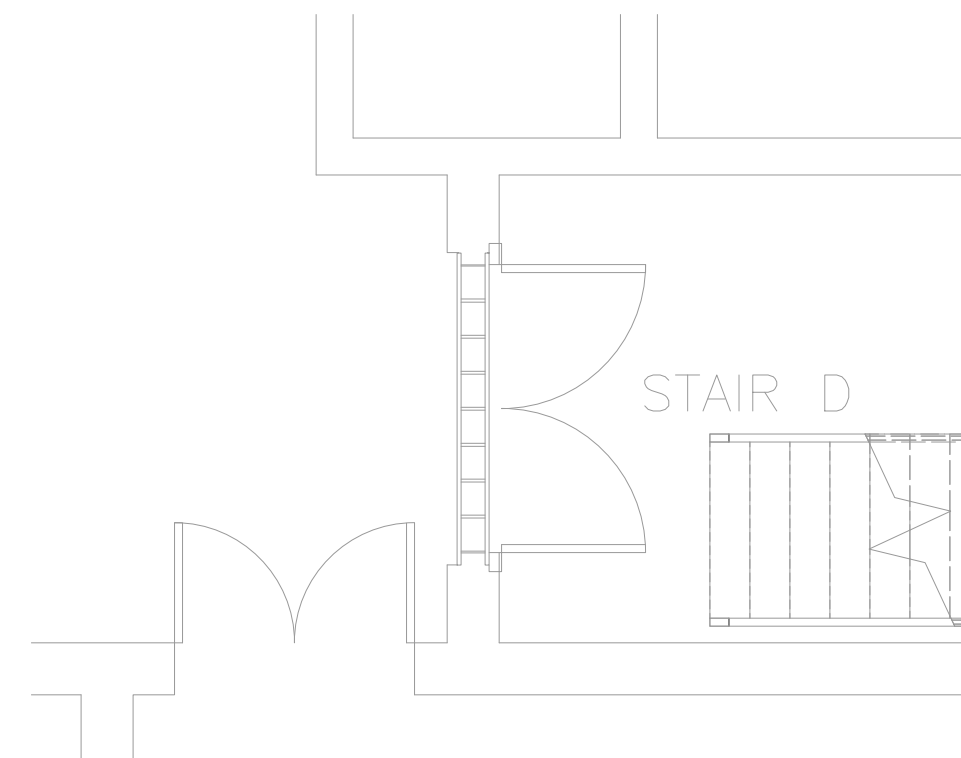
5 1st Fl Proposed Stair A
Scale: 1/4"=1'-0"



6 1st Fl Proposed Stair B
Scale: 1/4"=1'-0"



7 1st Fl Proposed Stair C
Scale: 1/4"=1'-0"



8 1st Fl Proposed Stair D
Scale: 1/4"=1'-0"

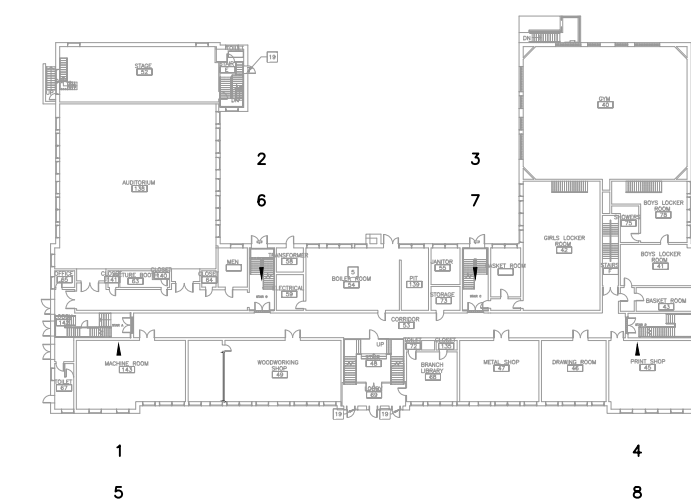
MECHANICAL DEMO NOTES

DEMOLITION NOTES:

- ① REMOVE AND DISPOSE EXISTING HEATING PIPE LOCATED INSIDE THE DOOR REPLACEMENT SCOPE OF WORK. SEE NEW WORK PLAN FOR DETAILS.
- ② REMOVE AND DISPOSE EXISTING HEATING PIPE WITH VALVE LOCATED INSIDE THE DOOR REPLACEMENT SCOPE OF WORK. SEE NEW WORK PLAN FOR DETAILS.

MECHANICAL NEW NOTES

- ① PROVIDE NEW HEATING PIPE IN THE SAME SIZE AS THE REMOVED PIPE. THE NEW PIPE SHALL BE LOCATED OUTSIDE THE DOOR REPLACEMENT SCOPE OF WORK. RECONNECT TO EXISTING PIPING SYSTEM AS REQUIRED.
- ② PROVIDE NEW HEATING PIPE IN THE SAME SIZE AS THE REMOVED PIPE. PROVIDE SHUT OFF VALVE. THE NEW PIPE & VALVE SHALL BE LOCATED OUTSIDE THE DOOR REPLACEMENT SCOPE OF WORK. RECONNECT TO EXISTING PIPING SYSTEM AS REQUIRED.
- ③ PROVIDE FIRE STOPPING TO ANY EXISTING TO REMAIN OR NEW PIPING PENETRATING THE NEW DOOR ASSEMBLY.



A 1st Fl Key Plan
Scale: None

WB&A
Wozny/Barbar & Associates, Inc.
1076 Washington Street
Hanover, MA 02339
Tel: (781) 826-4144
Fax: (781) 924-5792
www.wbaengineers.com

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THORNTON
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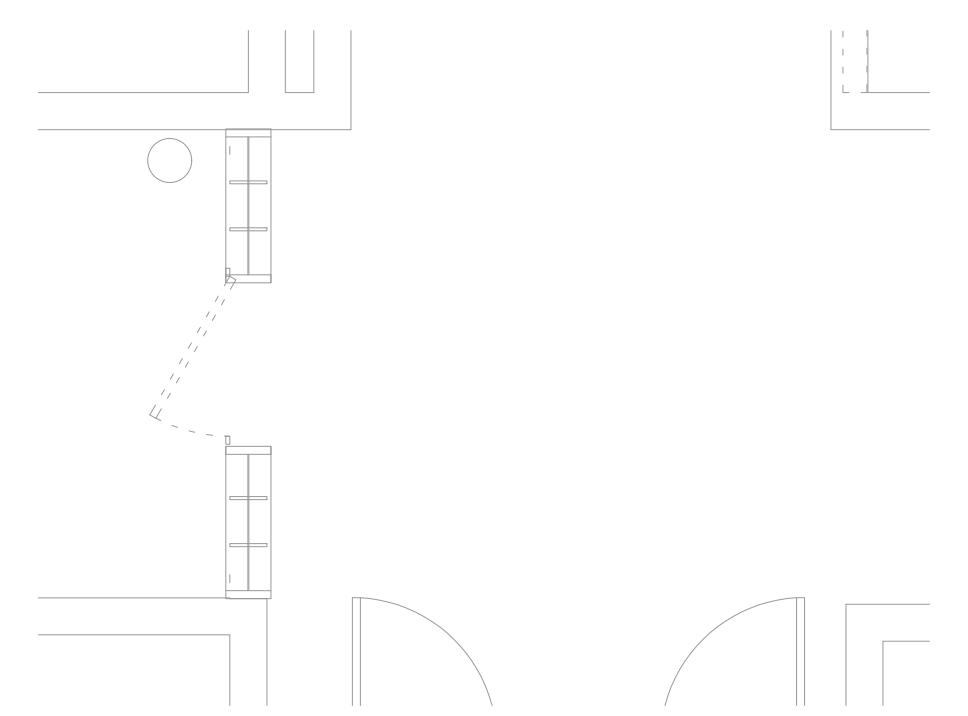
JOB NO.	DATE	
24114	11.25.24	
ISSUE: RIDE REVIEW		
NO.	REVISION DESCRIPTION	DATE

SHEET TITLE
**MECHANICAL
LEVEL 1
PLANS**

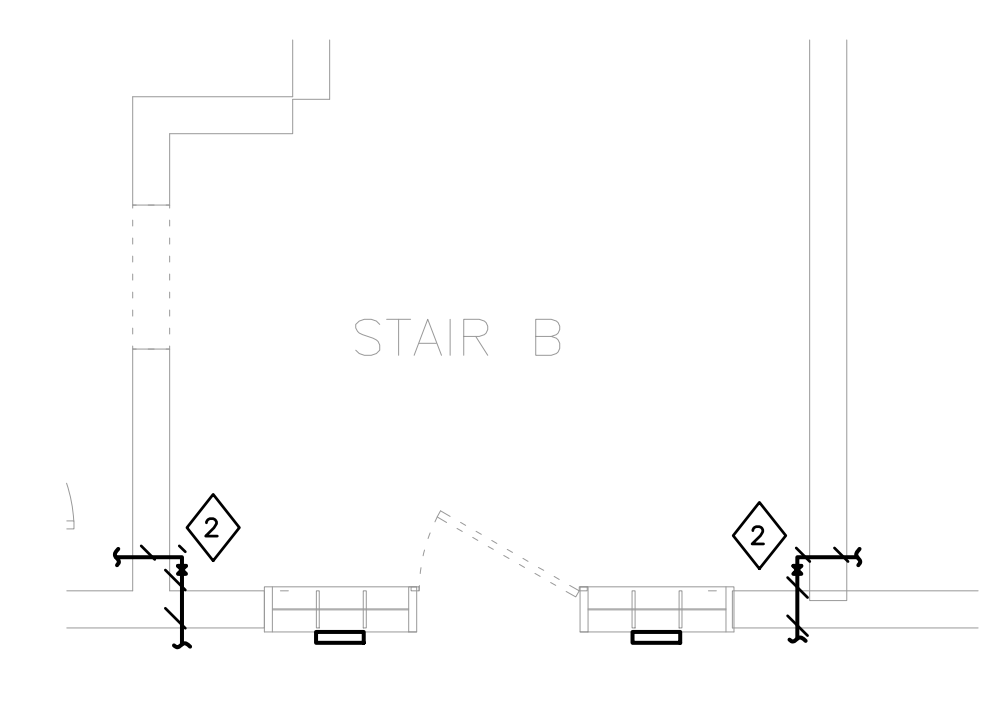
SHEET
M1.0

JOB NO. 24114	DATE 11.25.24	
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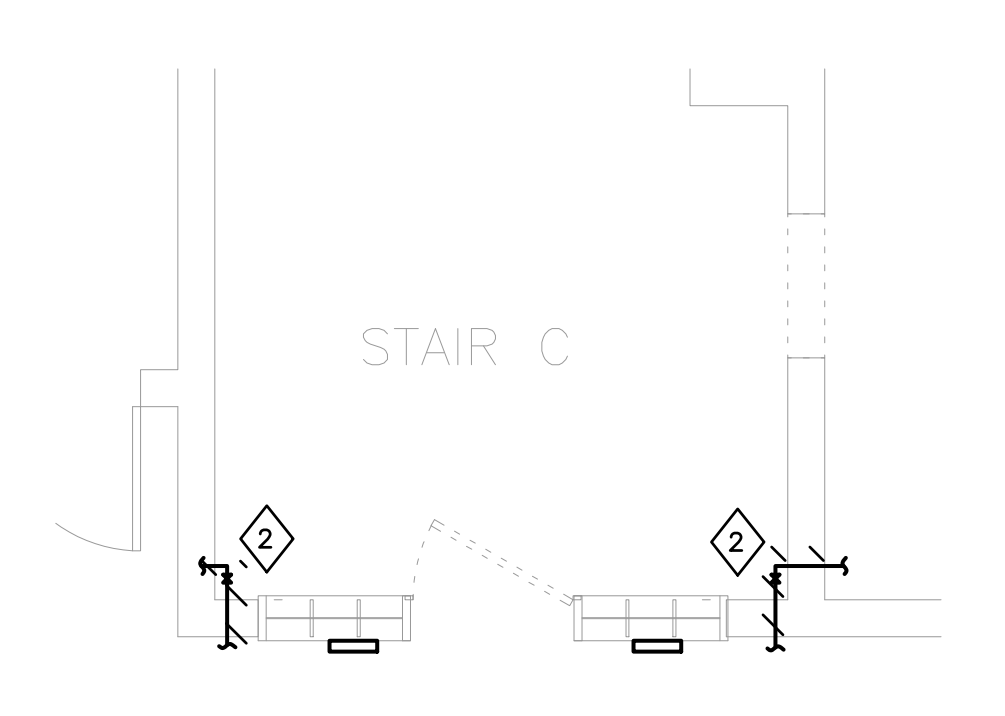
SHEET TITLE
**MECHANICAL
 LEVEL 3
 PLANS**
 SHEET
M3.0



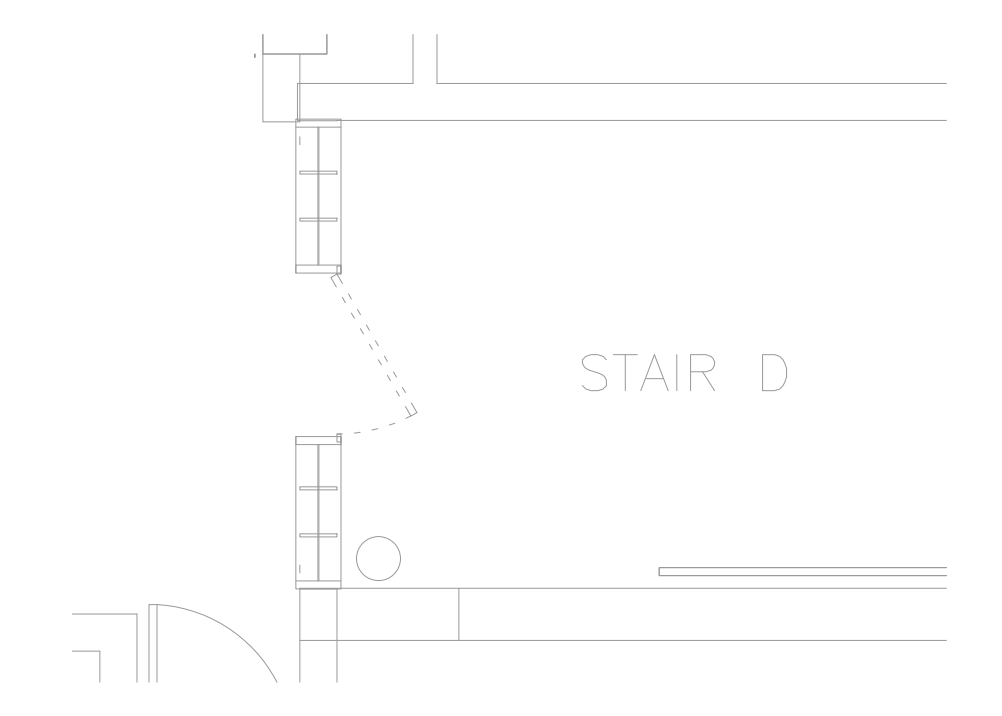
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 Scale: 1/4"=1'-0"



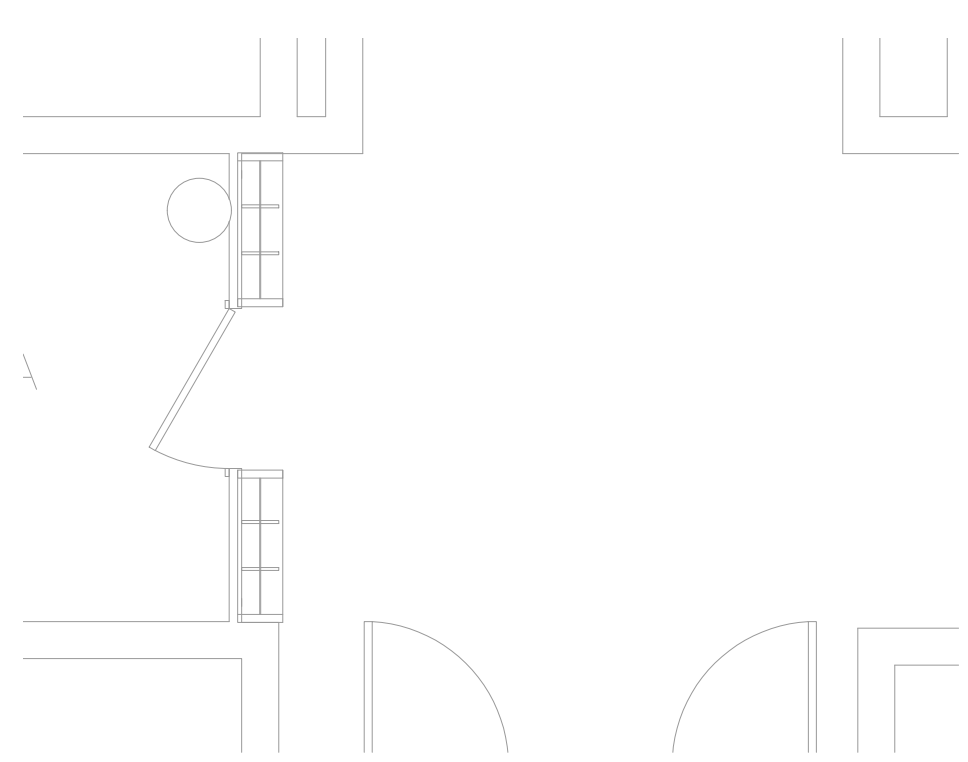
2 3rd Fl Existing Stair B
 Scale: 1/4"=1'-0"



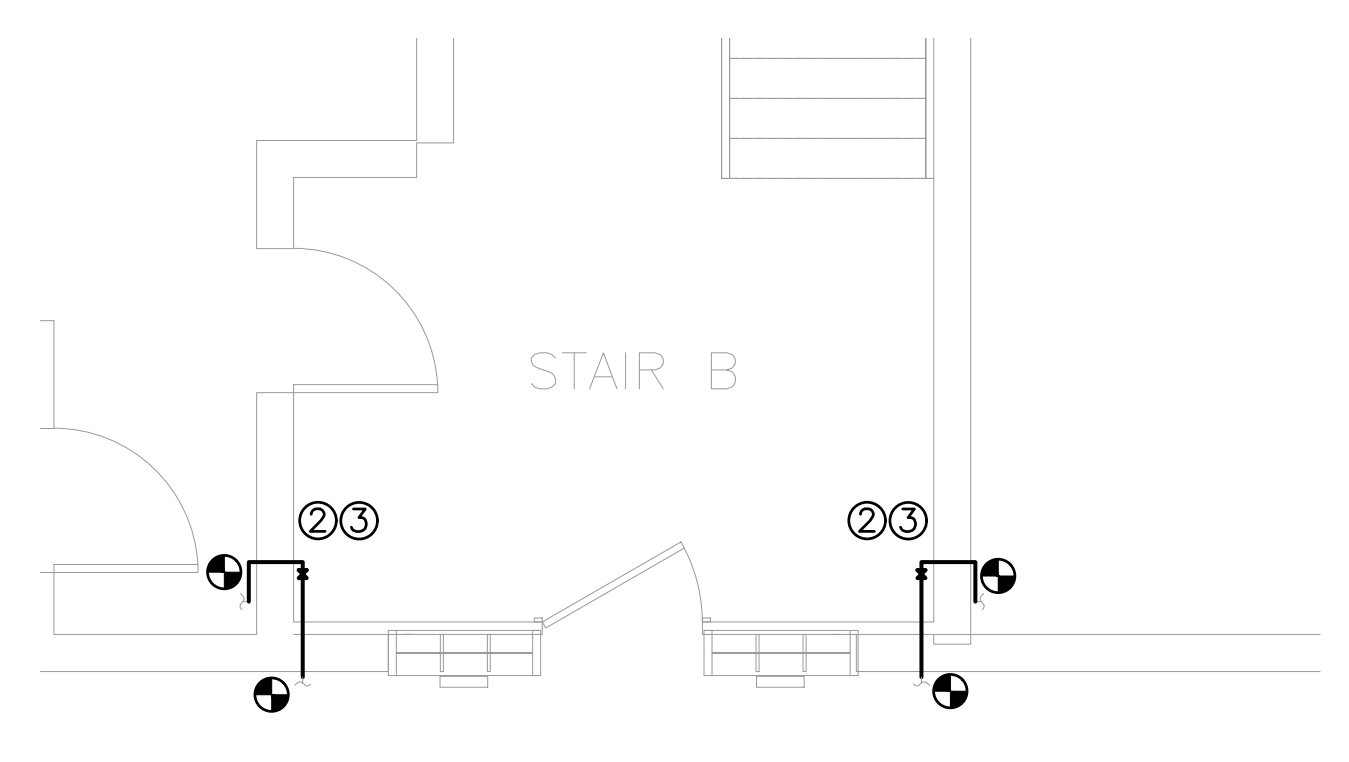
3 3rd Fl Existing Stair C
 Scale: 1/4"=1'-0"



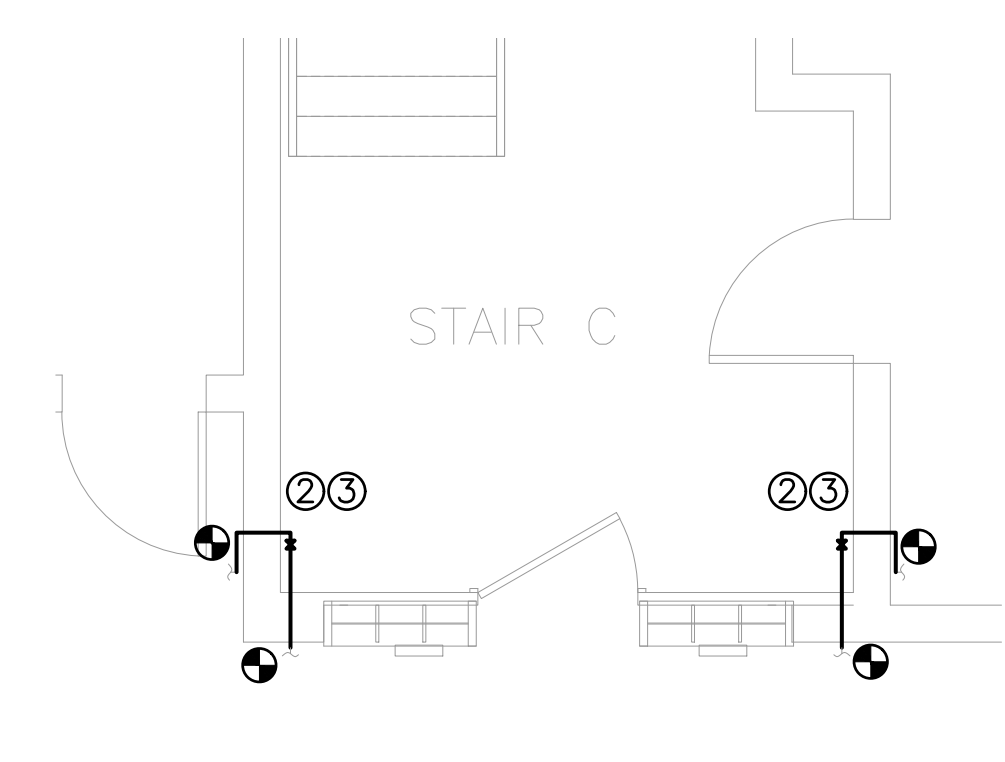
4 3rd Fl Existing Stair D
 Scale: 1/4"=1'-0"



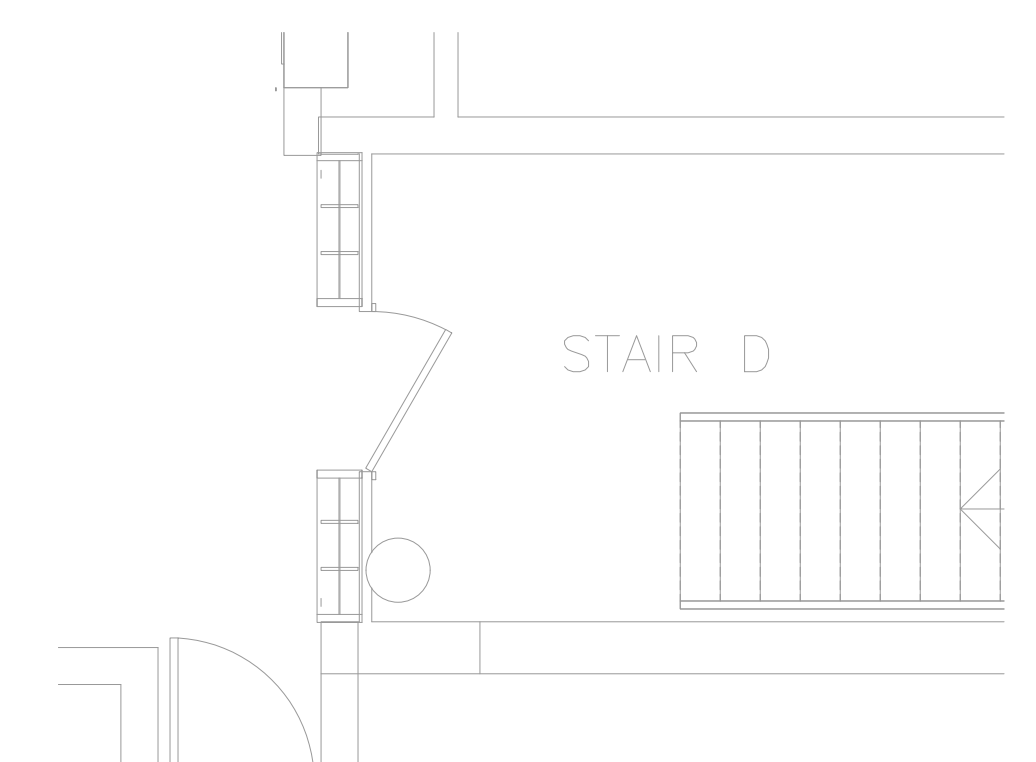
5 3rd Fl Proposed Stair A
 Scale: 1/4"=1'-0"



6 3rd Fl Proposed Stair B
 Scale: 1/4"=1'-0"



7 3rd Fl Proposed Stair C
 Scale: 1/4"=1'-0"



8 3rd Fl Proposed Stair D
 Scale: 1/4"=1'-0"

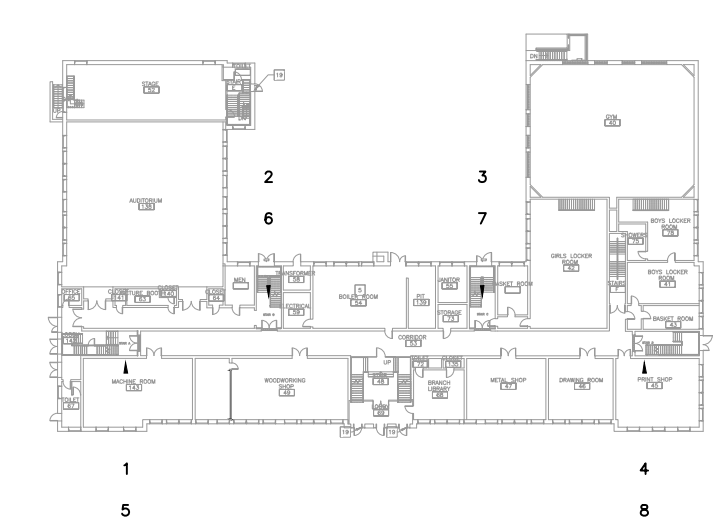
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A 3rd Fl Key Plan
 Scale: None

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