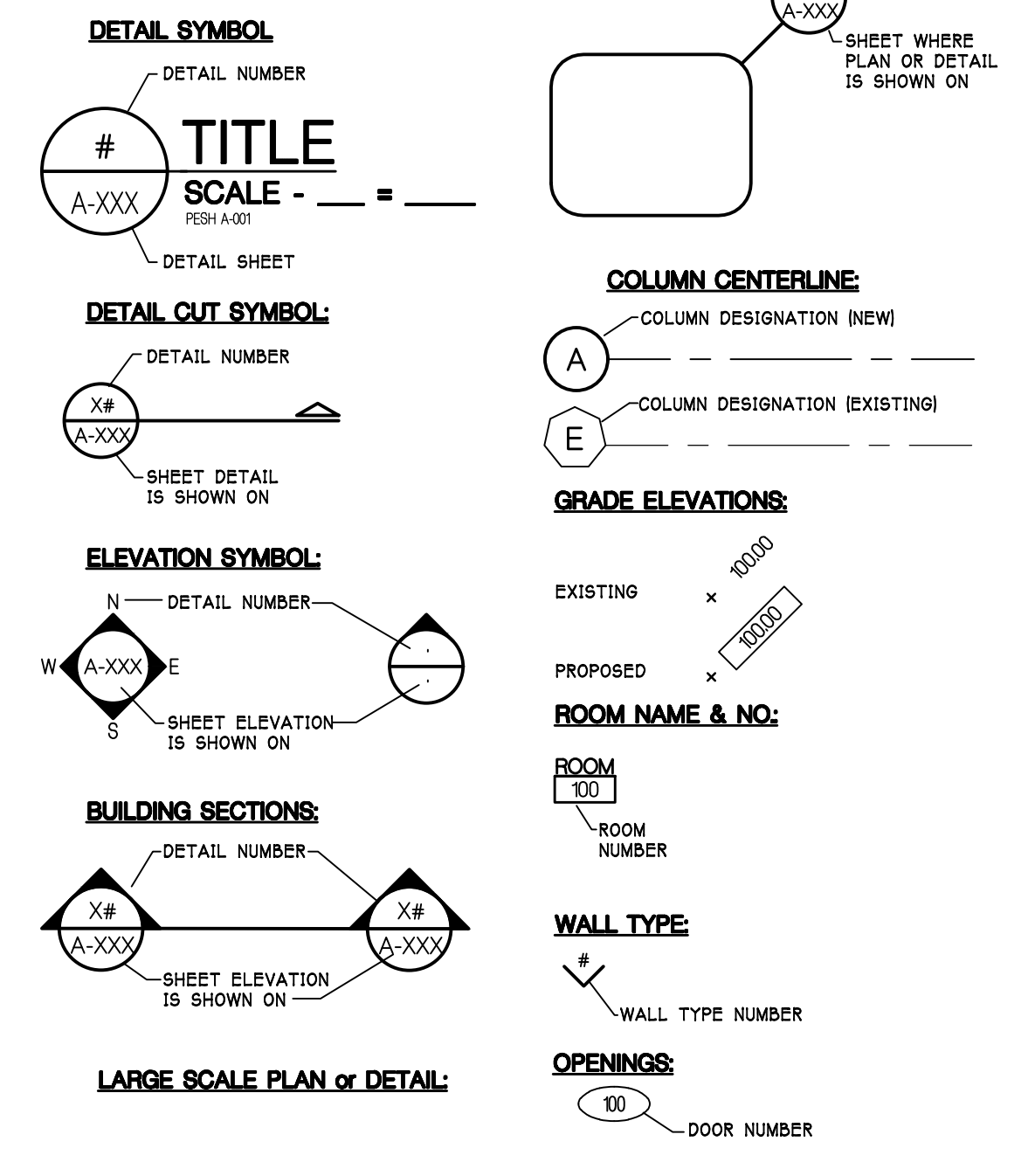




# ARCHITECTURAL ABBREVIATIONS

ABOVE FINISHED FLOOR	A.F.F.	KNOCK-OUT PANEL	K.O.P.
ACCESS DOOR	A.D.	LAMINATE, LAMINATED	LAM.
ACCESS PANEL	A.P.	LEFT HAND REVERSE	L.H.R.
ACOUSTIC, ACOUSTICAL	ACOUS.	LEFT HAND	L.H.
ADDITION	ADD.	LIGHT	L.T.
ADJUSTABLE	ADJ.	LIGHTING	L.T.S.
ALTERNATE	ALT.	LIGHTING PANEL	L.P.
ALUMINUM	AL.	LIGHTWEIGHT	L.L.
ANCHOR	ANCH.	LIVE LOAD	LL
ANCHOR BOLTS	A.B.	LONG LEG HORIZONTAL	LL.H.
ANGLE	∠	LONG LEG VERTICAL	LL.V.
ANODIZED	ANOD.	LOUVER OPENING	L.O.
APPROVED	APPR.	LOW POINT	L.P.
APPROXIMATE	APPROX.	MACHINE	MACH.
ARCHITECT, ARCHITECTURAL	ARCH.	MANHOLE	M.H.
ASPHALT	ASPH.	MARBLE THRESHOLD	M.T.
ASSEMBLY	ASSY.	MARKER BOARD	MAS.
ASSISTANT	ASSIST.	MASONRY	M.O.
AUTOMATIC	AUTO	MASONRY OPENING	MATL.
AUXILIARY	AUX.	MATERIAL	MAX.
BASE FREE	B.F.	MECHANICAL	MECH.
BASE PLATE	B.P.	MEDIUM	ME.D.
BASEMENT	BSMT	METAL or METALLIC	MET.
BEAM	BM	METAL EDGE STRIP	M.E.S.
BEARING	B.S.	MEZZANINE	MEZ.
BENCH MARK	B.M.	MINIMUM	M.N.
BETWEEN	BET.	MISCELLANEOUS	MISC.
BITUMINOUS	BITUM.	MOUNTED	M.T.D.
BLOCK	BLK.	MULLION	MULL.
BLOCKING	BLKG.	NATURAL	NAT.
BOARD	BD.	NOMINAL	NOM.
BOTTOM	BTM.	NORTH	N.
BUILDING	BLDG.	NOT IN CONTRACT	N.I.C.
BUILT-UP ROOFING	B.U.R.	NOT TO SCALE	N.T.S.
CABINET	CAB.	NUMBER	NO. OF #
CABINET UNIT HEATER	C.U.H.	OFF	OFF.
CATCH BASIN	C.B.	ON CENTER	O.C.
CEILING	CLG.	OPENING	OPN.
CENTER LINE	C.L.	OPPOSITE	OPP.
CENTER TO CENTER	C.T.C.	OPPOSITE HAND	O.P.H.
CERAMIC	CER.	OUTSIDE DIAMETER	O.D.
CERAMIC TILE	C.T.	OVERHEAD	O.H.
CHALKBOARD	CHALK BD.	OVERFLOW ROOF CONDUCTOR	O.R.C.
CHANNEL	C	PAINTED	PAINT.
CLOSET	CL.	PAINTED	PAINT.
COLD WATER	C.W.	PAINTED	PAINT.
COLUMN	COL.	PAINTED	PAINT.
COMPACTED	COMP.	PANEL JOINT	P.J.
CONCRETE	CONC.	PAPER TOWEL DISPENSER	P.T.D.
CONCRETE MASONRY UNIT	C.M.U.	PARTITION	PARTN.
CONFERENCE	CONF.	PERFORATED	PERF.
CONNECT, CONNECTION	CONN.	PERIMETER	PERIM.
CONSTRUCTION	CONST.	PLASTER	PLAS.
CONTROL of CONSTRUCTION JOINT	C.J.	PLASTIC LAMINATE	P-LAM.
CONTINUOUS	CONTIN.	PLATE	PL.
CONTRACTOR	CONTR.	PLYWOOD	PLYWOOD
CORRIDOR, CORRUGATED	CORR.	POINT	PT.
DAMP PROOFING	D.P.	POINTS	PTS.
DEAD LOAD	D.L.	POLISH, POLISHED	POL.
DEMOLITION	DEMO.	POLYVINYL CHLORIDE	PVC
DEPARTMENT	DEPT.	POUNDS	LBS
DETAIL	DET.	POUNDS PER SQUARE FOOT	P.S.F.
DIAMETER	DIA.	POUNDS PER SQUARE INCH	P.S.I.
DIFFUSER	DIF.	POWER	PWR.
DIMENSION	DIM.	PREFAB	PREFAB.
DIRECTORY	DIR.	PREFABRICATED	P.F.
DITTO	DTD.	PRESSURE TREATED	P.T.
DOOR	DR.	PROJECT, PROJECTION	PROP.
DOOR OPENING	D.O.	PROPERTY	PROP.
DOUBLE	DBL.	QUARRY TILE	Q.T.
DOWN	DN.	RADIUS	R.
DOWELS	DWLS	REFRIGERATION or REFRIGERATOR	REF.
DRAWING	DWG.	REINFORCE REINFORCING or REINFORCEMENT	REINF.
DRINKING FOUNTAIN	D.F.	REQUIRED	REQD.
EACH	E.A.	RESILIENT BASE	R.B.
EACH FACE	E.F.	REVISED, REVISION	REV.
EACH WAY	E.W.	RIGHT HAND	R.H.
ELECTRIC, ELECTRICAL	ELEC.	RIGHT HAND REVERSE	R.H.R.
ELECTRICAL PANEL	E.P.	RIGHT OF WAY	R.O.W.
ELECTRIC WATER COOLER	EWC.	RISER	R.
ELEVATION (HEIGHT LEVEL)	EL.	ROOF CONDUCTOR	R.C.
ELEVATOR	ELEV.	ROUGH OPENING	R.O.
ELIMINATE	ELIM.	ROUND	RND.
EMERGENCY	EMERG.	RUBBER TILE	RT.
ENAMEL	ENAM.	SANITARY	SAN.
ENCLOSURE	ENCL.	SANITARY NAPKIN DISPOSAL	S.N.D.
ENVIRONMENT	ENVR.	SCHEDULE	SCHD.
EQUAL	EQ.	SECRETARY	SEC.
EQUIPMENT	EQP.	SECTION	SECT.
EXCAVATED	EXC.	SERVICE SINK	S.S.
EXISTING	EXS.	SHEET	SHT.
EXPANSION	EXP.	SIMILAR	SIM.
EXPANSION JOINT	EXP. J.	SINK DISPENSER	SD.
EXTERIOR	EXT.	SOUTH	S.
FABRIC	FAB.	SPEAKER	SPKR.
FEET, FINISHED	F.F.	SPECIFICATIONS	SPC.
FIRE ALARM	F.A.	SQUARE	SQ.
FIRE EXTINGUISHER ON BRACKET	F.E.B.	SQUARE FEET (FOOT)	S.F.
FIRE EXTINGUISHER CABINET	F.E.C.	STAINLESS STEEL	S.S.
FIRE HYDRANT	F.H.	STANDARD	STD.
FIRE HOSE CABINET	F.H.C.	STEEL	STL.
FIRE VALVE CABINET	F.V.C.	STORAGE	STR.
FIREPROOFING	F.P.	STREET	ST.
FIXTURE	FIXT.	STRUCTURAL	STRUCT.
FLAT PANEL DISPLAY	FPD.	SUSPEND, SUSPENSION	SUSP.
FLOOR	FLR.	TACKBOARD	TB.
FLOOR DRAIN	F.D.	TELEPHONE	TEL.
FOOTING	FTG.	TEMPERATURE	TEMP.
FOUNDATION	FOUND.	TEMPERED GLASS	TEMP. GL.
GAUGE	GA.	THICK, THICKNESS	THK.
GALVANIZED	GALV.	THRESHOLD	THRS.
GALVANIZED IRON	G.I.	TOILET	T.L.T.
GENERAL	GEN.	TOILET PAPER DISPENSER	T.P.D.
GENERAL CONTRACTOR	G.C.	TONGUE AND GROOVE	T & G
GLASS	GL.	TOP AND BOTTOM	T.O.B.
GRADE	GR.	TOP OF BLOCKING	T.O.F.
GYPSPUM	GYP.	TOP OF FOOTING	T.O.F.
HARDWARE	HWR.	TOP OF MASONRY	T.O.M.
HANDICAPPED	H.C.	TOP OF STEEL	T.O.S.
HEATING, VENTILATION, AIR CONDITIONING	H.V.A.C.	TREAD	T.
HEIGHT	HGT.	TYPICAL	TYP.
HIGH POINT	H.P.	UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE	U.L.
HIGH PRESSURE LAMINATE	H.P.L.	VENT THRU ROOF	V.T.R.
HOLLOW METAL	H.M.	VERIFY IN FIELD	V.I.F.
HORIZONTAL, HORIZONTALLY	HORIZ.	VERTICAL, VERTICALLY	VERT.
HOSE BIBB	H.B.	VESTIBULE	VEST.
HOT WATER	H.W.	VINYL COMPOSITION TILE	V.C.T.
HOT WATER HEATER	H.W.H.	VINYL TILE	V.T.
HYDRANT	HYD.	VINYL WALL COVERING	V.W.C.
INSULATED FIBERGLASS REINF. PANEL	IFRP	VOLT	V.
INCH or INCHES	IN. or	WATER RESISTANT	W.R.
INSULATION	INSUL.	WATERPROOFING	W.P.
INSIDE DIAMETER	I.D.	WEIGHT	WT.
INSTALL, INSTALLATION	INSTAL.	WELDED WIRE FABRIC	W.W.F.
INSULATE, INSULATION	INSUL.	WINDOW	WDO.
INTERIOR	INT.	INFORMATION	W.W.M.
INVERT	INV.	WIRE MESH	W.M.
INVERT ELEVATION	I.E.	WITH	W/
JOINT	JT.	WITHOUT	W/O
KICK PLATE	K.P.	WOMEN	WOM.
		WOOD	WD.
		YARD	YD.

# SYMBOL LEGEND



# GENERAL NOTES

1. REPLACE ALL CALL STATION ELECTRONICS AT EACH FLOOR.
2. REPLACE ALL CAR OPERATION PANELS IN ALL ELEVATOR CARS.
3. REPLACE ALL HALL LANTERNS AT EACH FLOOR STOP FOR EACH ELEVATOR
4. REPLACE ALL TACTILE SIGNAGE AT JAMBS OF ELEVATOR ENTRANCES AND REPLACE W/ NEW
5. ALL EXISTING PIT LADDERS ARE TO REMAIN. LADDERS TO BE PREPED AND PAINT
6. EXISTING PIT FLOOR TO BE CLEANED OF ALL OIL, OIL ABSORBING MATERIAL AND ANY OTHER FOREIGN MATERIAL NOT PERMITTED TO BE IN ELEVATOR SHAFT.
7. COVER AND PROTECT ALL ADJACENT WORK AREAS PRIOR TO COMMENCEMENT OF WORK.
8. VERIFY ALL DIMENSIONS OR IMPLIED MEASUREMENTS PRIOR TO COMMENCEMENT OF WORK.
9. VERIFY NEW SUMP PIT LOCATIONS WITH FIELD CONDITIONS. ROUTE PIPING TO NOT INTERFERE WITH ELEVATOR EQUIPMENT.
10. ALL PENETRATIONS OF ELEVATOR PIT WALLS TO BE FIRE RATED TO MAINTAIN FIRE RATING OF SHAFT.
11. ALL HAND RAILS TO BE REPLACED WITH SIMILAR TO EXISTING.
12. CONTRACTORS TO MAINTAIN SAFE AND CLEAN WORK AREAS FOLLOWING ALL APPLICABLE CODES.

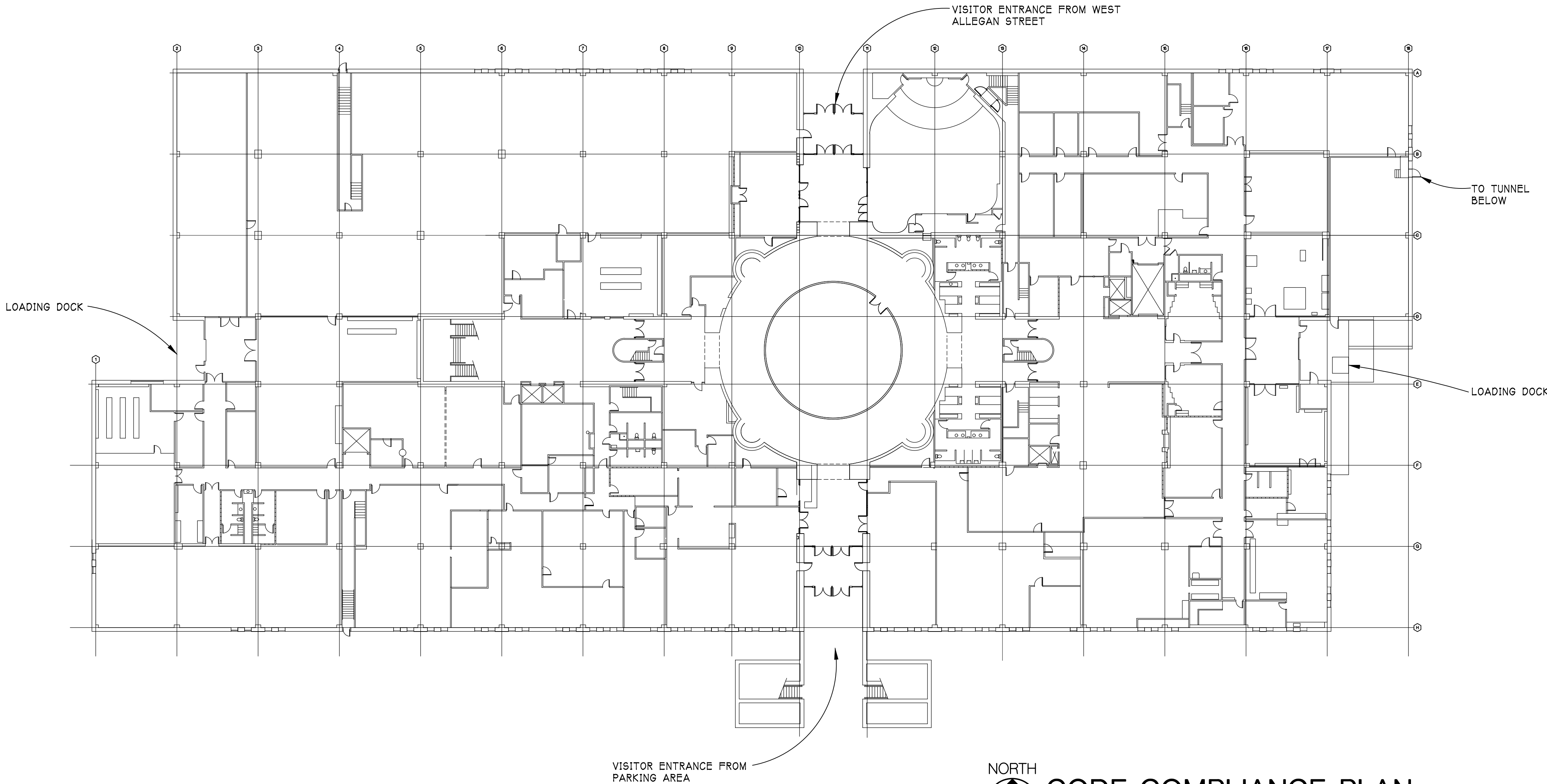
# KEY NOTES

- A SAW CUT AND INSTALL NEW 2'-0"x2'-0"x2'-0" FIBERGLASS BASIN ENCASED IN CONCRETE. PATCH FLOOR AS NEEDED FOR NEW SUMP PIT SANITARY.
- B NEW CARPET TILES - TILES TO MATCH CARPET TILES AT ELEVATOR FIRST FLOOR STOP.
- C REMOVE EXISTING WALL PANELS AND REPLACE WITH NEW - STYLE, COLOR AND MATERIAL TO MATCH EXISTING UNLESS NOTED OTHERWISE.
- D REMOVE EXISTING ELEVATOR EQUIP. AND PIPE
- E INSTALL NEW DIAMOND FLOOR PLATE PER MANUFACTURER'S INSTRUCTIONS
- F PREP AND PAINT BI-PARTING METAL DOOR
- G PREP AND PAINT EXISTING METAL DOOR
- H REMOVE EXISTING AND REPLACE LIGHTS, PANELS AND FANS

**CODE DATA**  
 MICHIGAN REHABILITATION CODE 2015  
 LEVEL 2 ALTERATIONS

**OCCUPANCY**  
 LOW HAZARD STORAGE 8-1  
 NO OCCUPANCY CHANGE

**BUILDING DATA**  
 CONSTRUCTION TYPE II B PULLY  
 SPRINKLED  
 BUILDING HEIGHT  
 NUMBER OF STORIES - 5



NORTH

**CODE COMPLIANCE PLAN**  
 SCALE - NTS  
 PESH-A-001

ISSUED FOR BIDDING 09/16/2021  
 DATE ISSUED  
 JDM  
 DRAWN BY  
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**BERCH BATES**

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**CODE COMPLIANCE SHEET**

SHEET TITLE

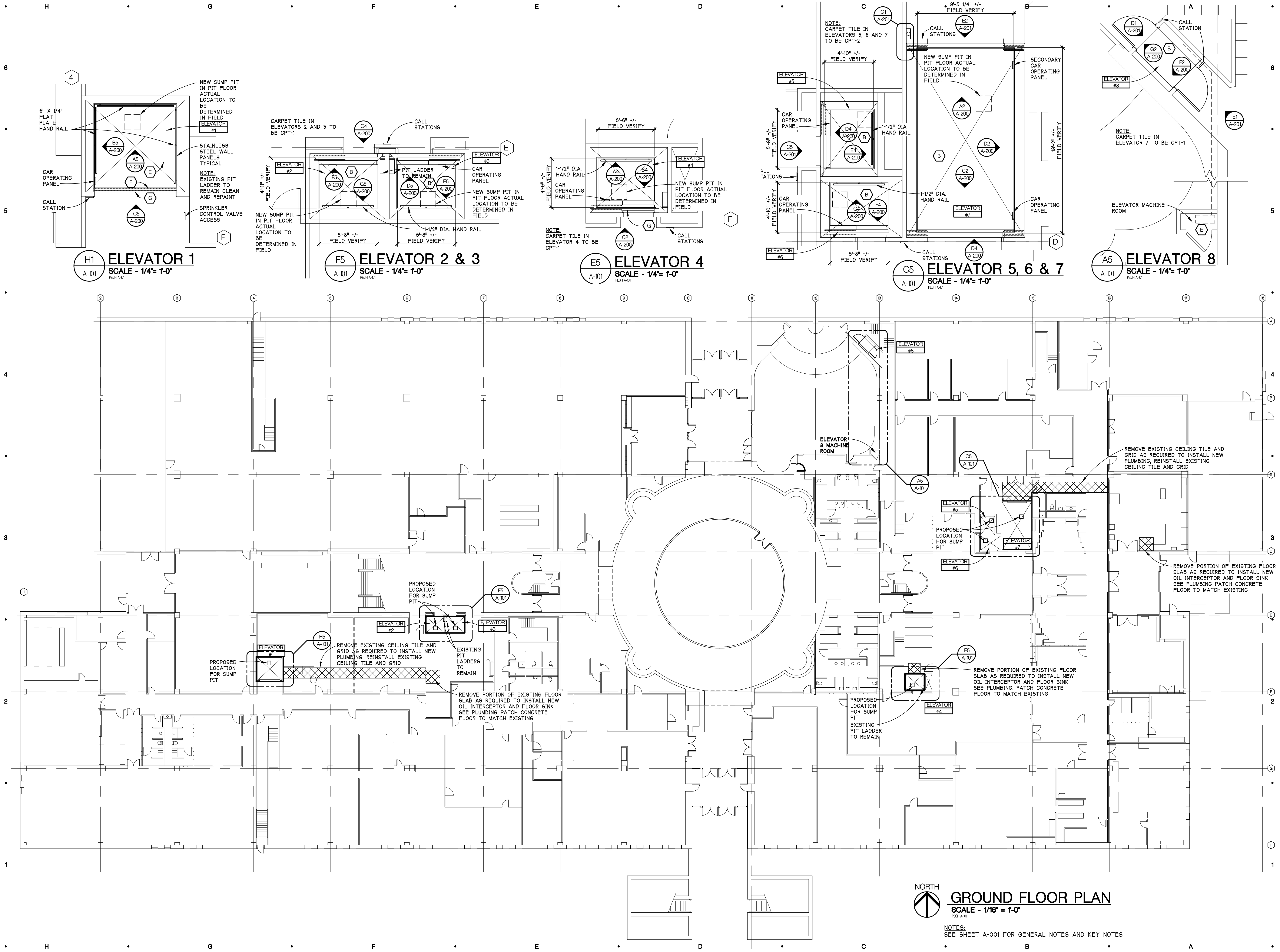
21-302

PROJECT NUMBER

A-001

SHEET NUMBER

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 Layout: A-001  
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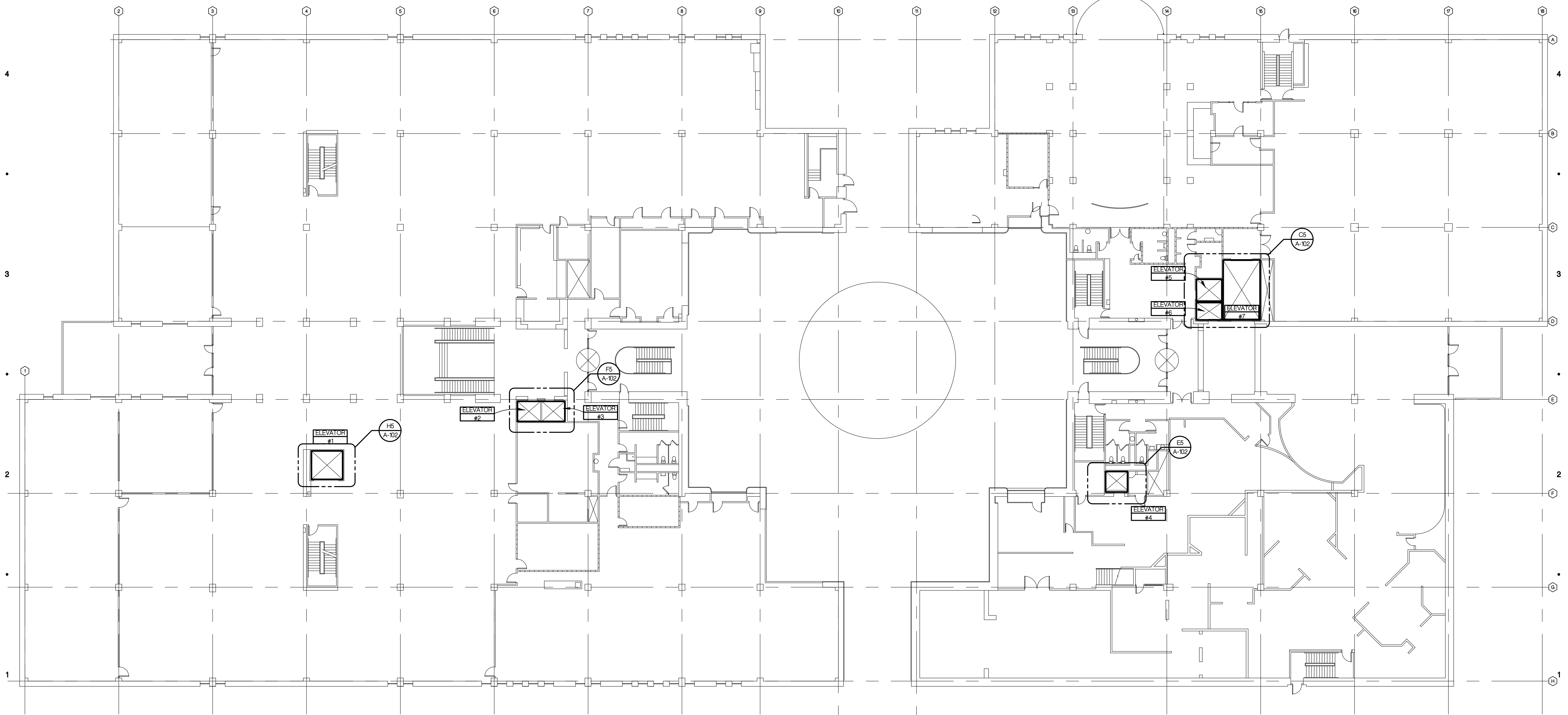
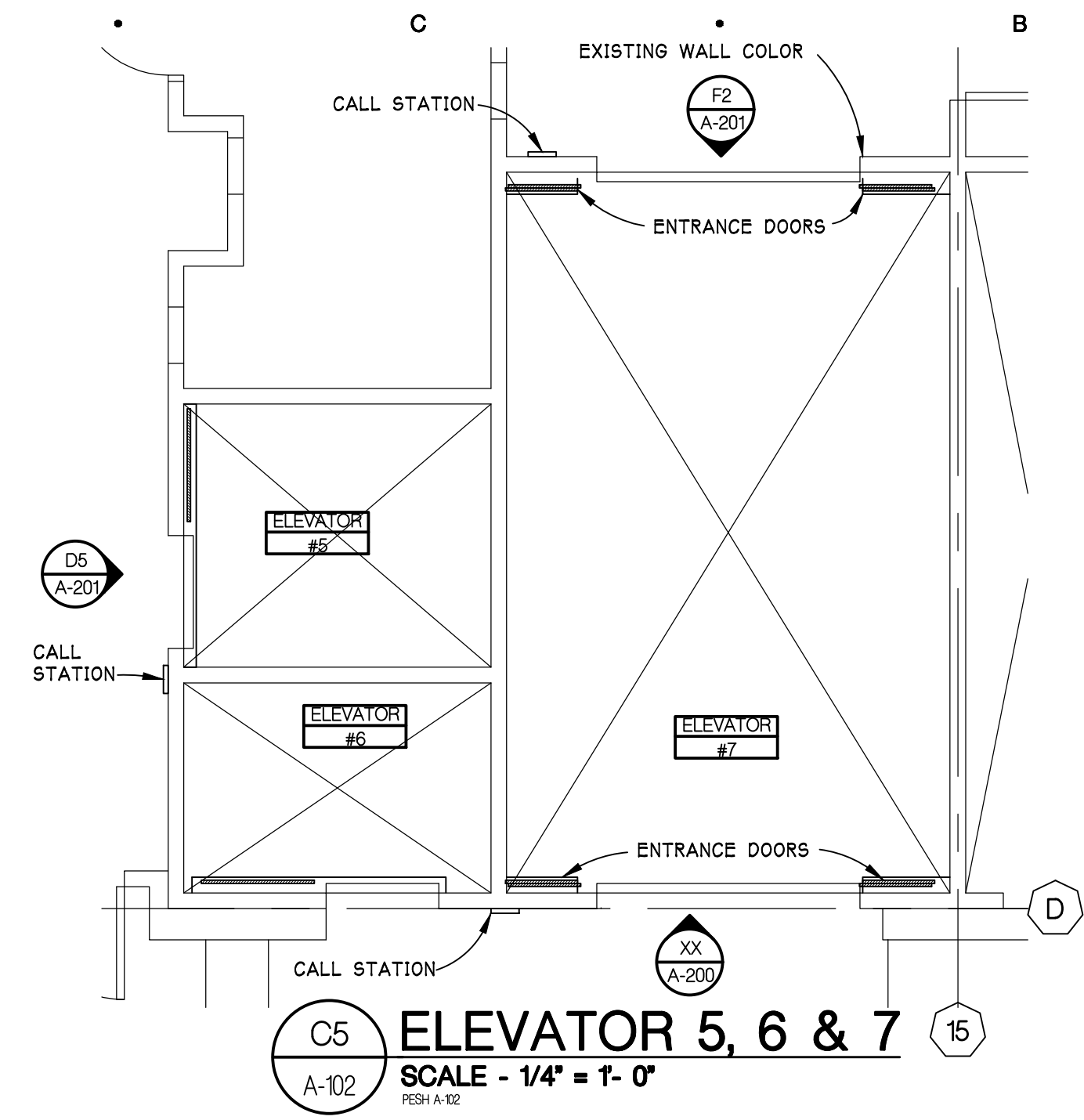
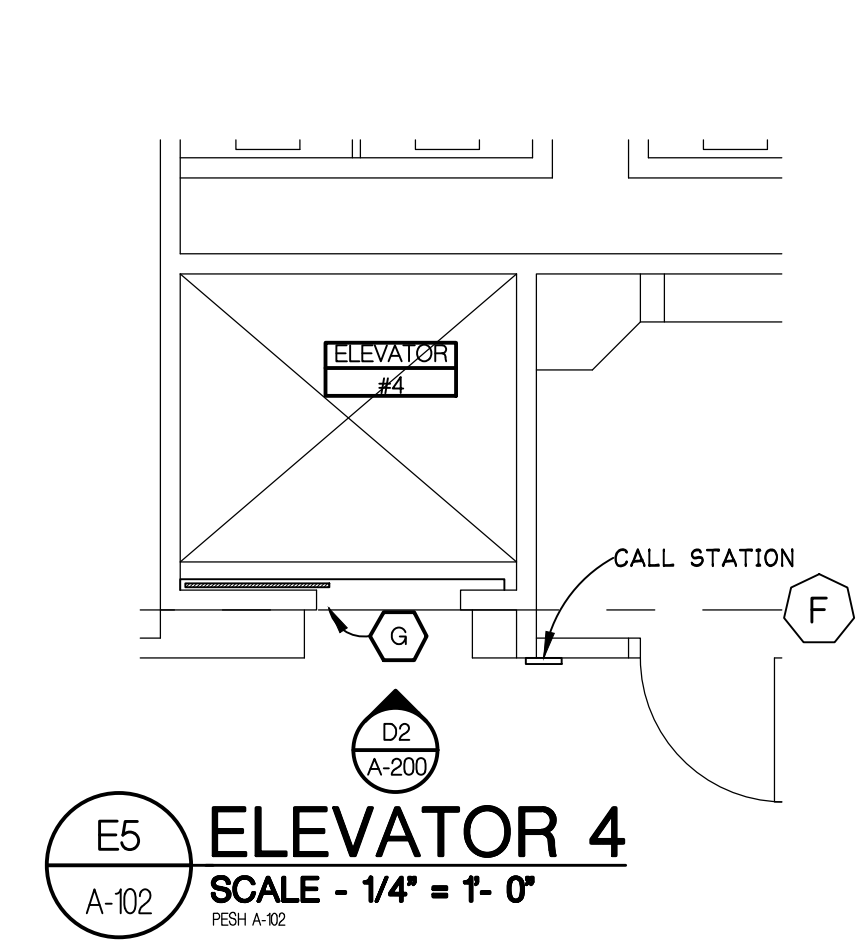
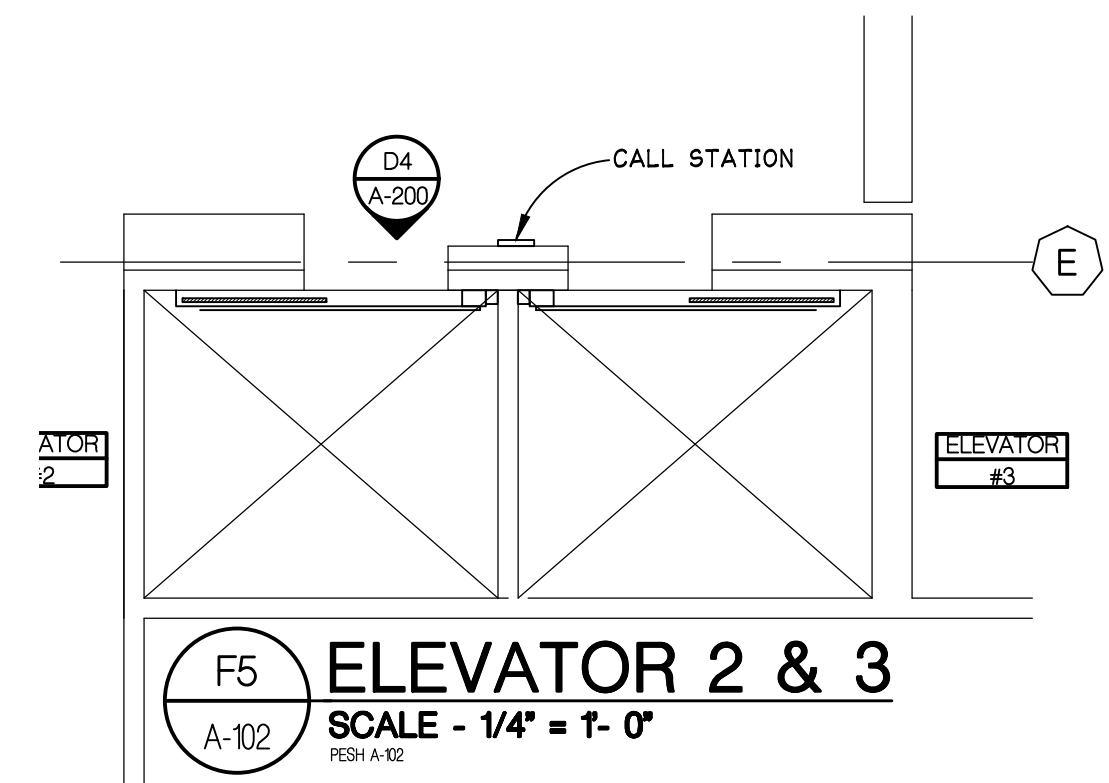
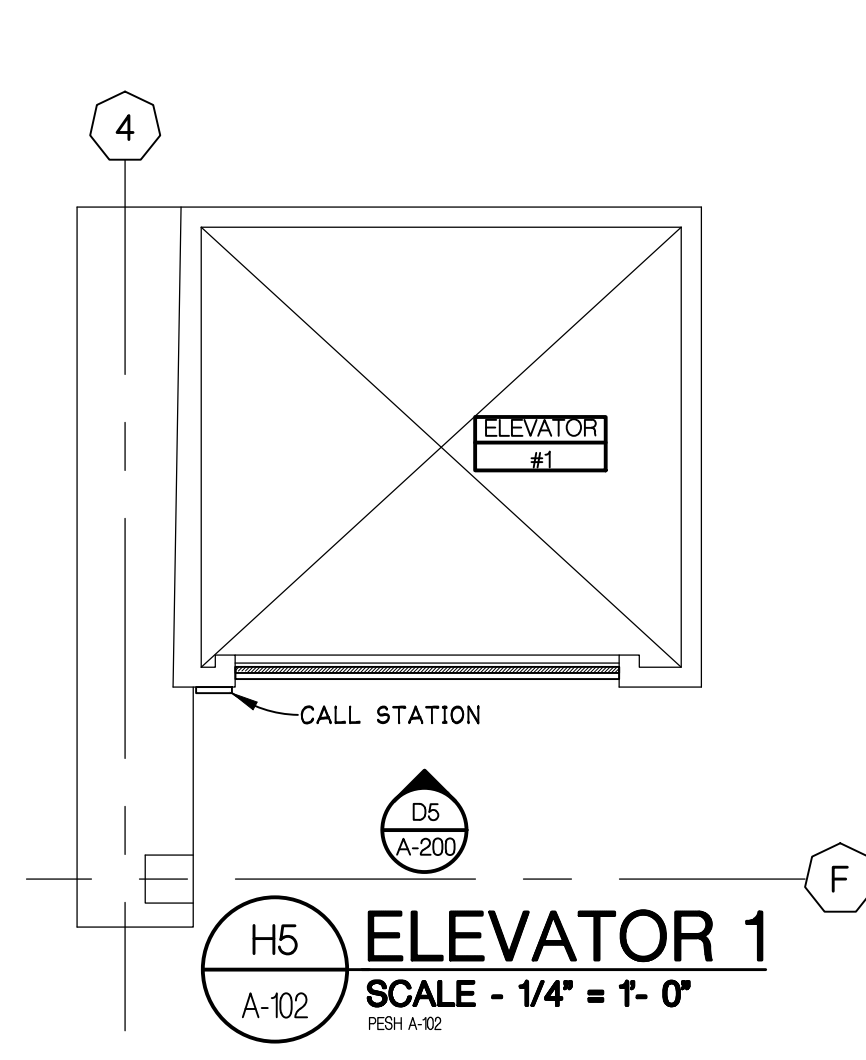
**GROUND FLOOR  
 ELEVATOR  
 PLAN**

SHEET TITLE

**21-302**  
 PROJECT NUMBER

**A-101**  
 SHEET NUMBER

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 Date: Sep 14, 2021, 1:28pm  
 Layout: A-101  
 Plotted by: jmontmore



NOTES:  
 SEE SHEET A-001 FOR GENERAL NOTES AND KEY NOTES

NORTH  
  
**SECOND FLOOR PLAN**  
 SCALE - 1/16" = 1'-0"  
 PESH A-102

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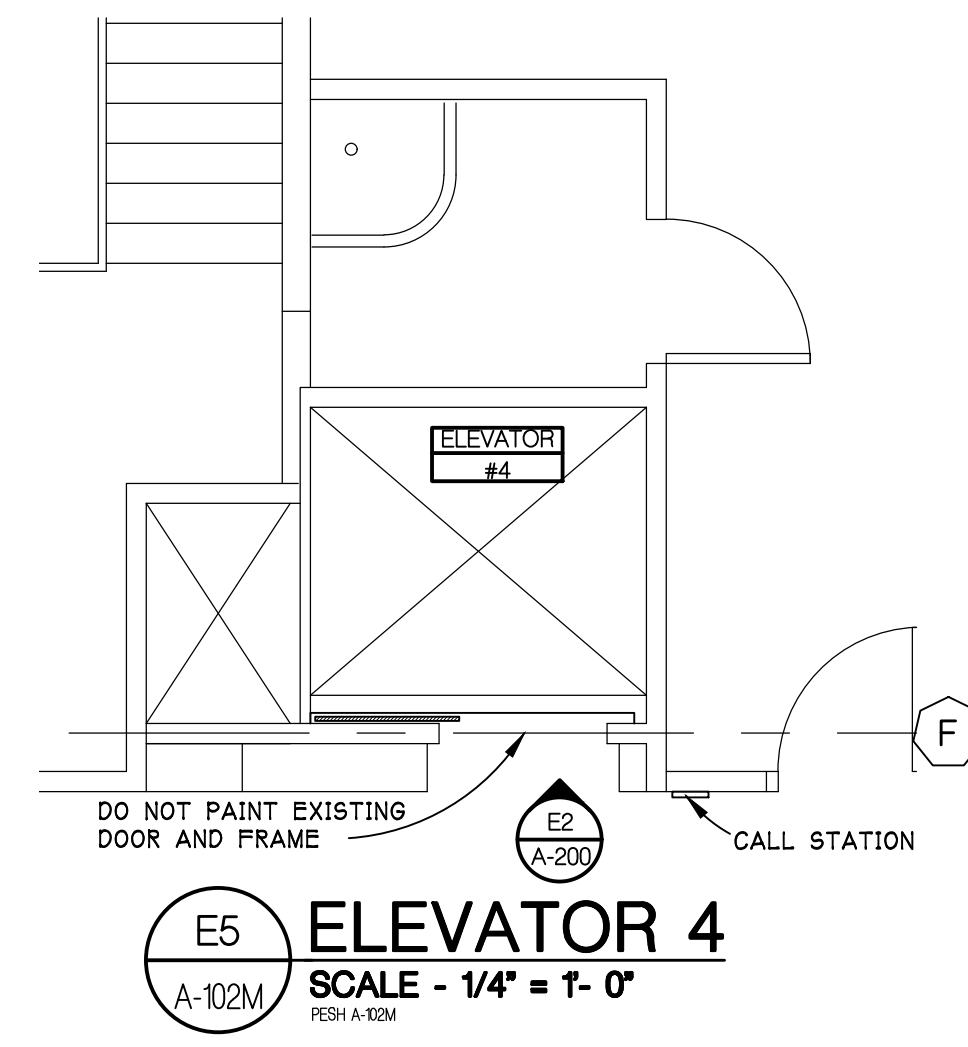
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**SECOND FLOOR  
 ELEVATOR  
 PLANS**

SHEET TITLE  
**21-302**  
 PROJECT NUMBER

**A-102**  
 SHEET NUMBER

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 Date: Sep 14, 2021, 1:28pm  
 Layout: A-102  
 Plotted by: jmontmore



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**SECOND FLOOR  
 MEZZANINE  
 ELEVATOR  
 PLAN**

SHEET TITLE

**21-302**  
 PROJECT NUMBER

**A-102M**  
 SHEET NUMBER

NOTES:  
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NORTH  
  
**SECOND FLOOR  
 MEZZANINE PLAN**  
 SCALE - 1/16" = 1'-0"  
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 Layout: A-102M  
 Plotted by: jmorimore

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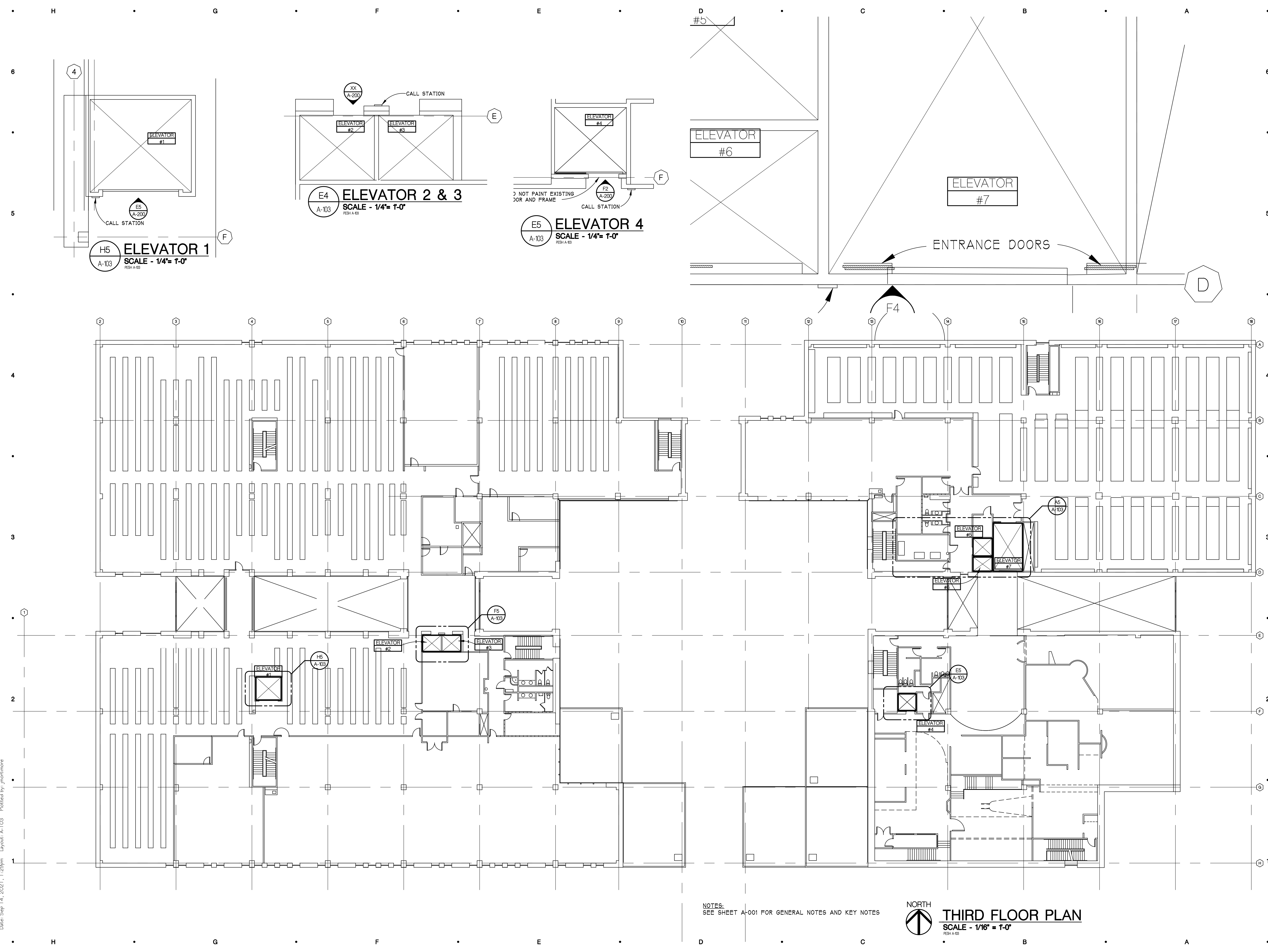
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**THIRD FLOOR  
 ELEVATOR  
 PLANS**

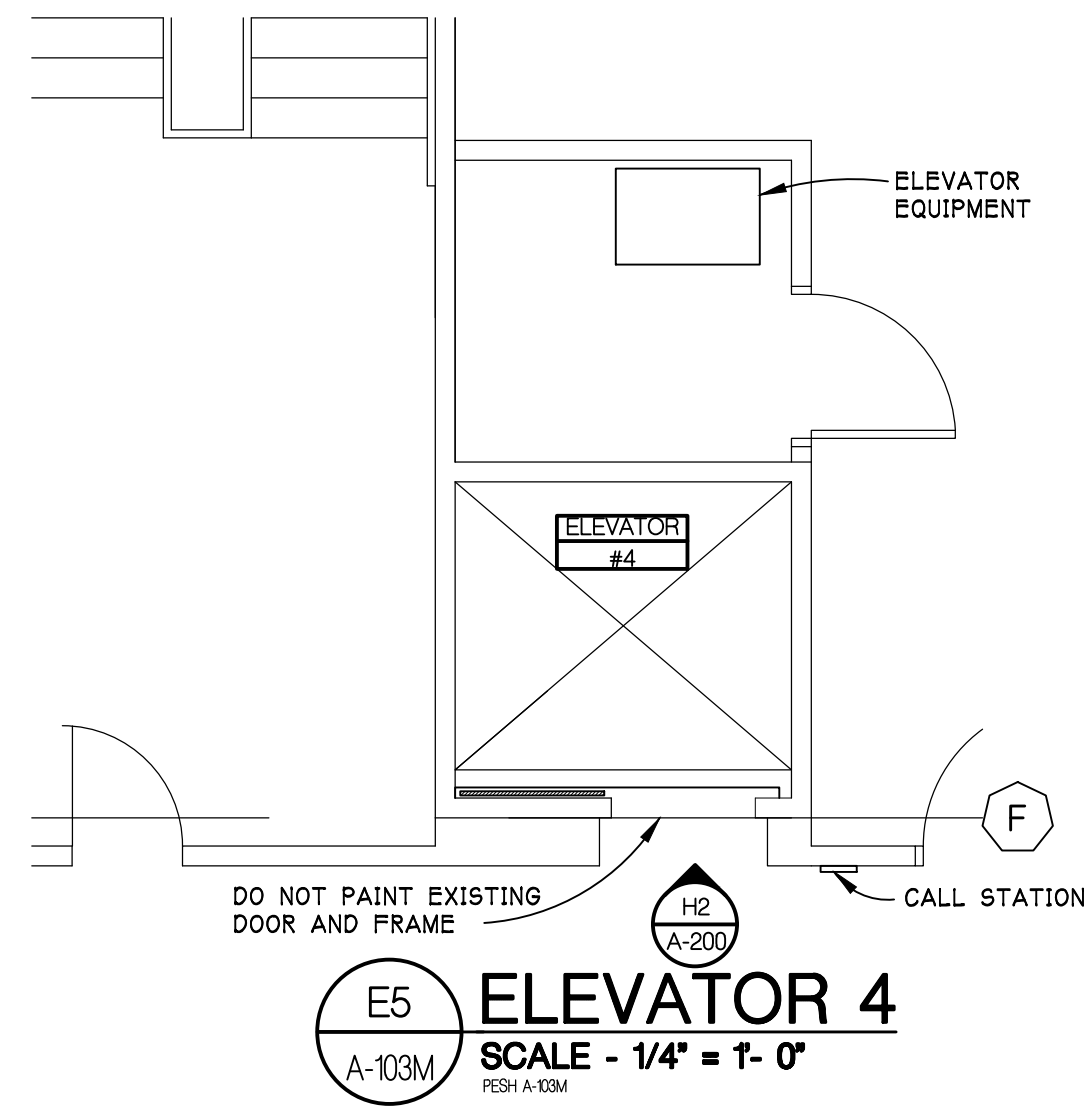
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 PROJECT NUMBER

A-103  
 SHEET NUMBER



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 Layout: A-103  
 Plotted by: jmontmore



**E5**  
 A-103M  
**ELEVATOR 4**  
 SCALE - 1/4" = 1'-0"  
RESH A 103M



NOTES:  
 SEE SHEET A-001 FOR GENERAL NOTES AND KEY NOTES

**NORTH**  
**THIRD FLOOR MEZZANINE PLAN**  
 SCALE - 1/16" = 1'-0"  
RESH A 103M

Drawn: P:\2021\13\13020\DWG\CD\A-103M.dwg  
 Date: Sep 14, 2021, 1:28pm  
 Layout: A-103M  
 Plotted by: jmorimore

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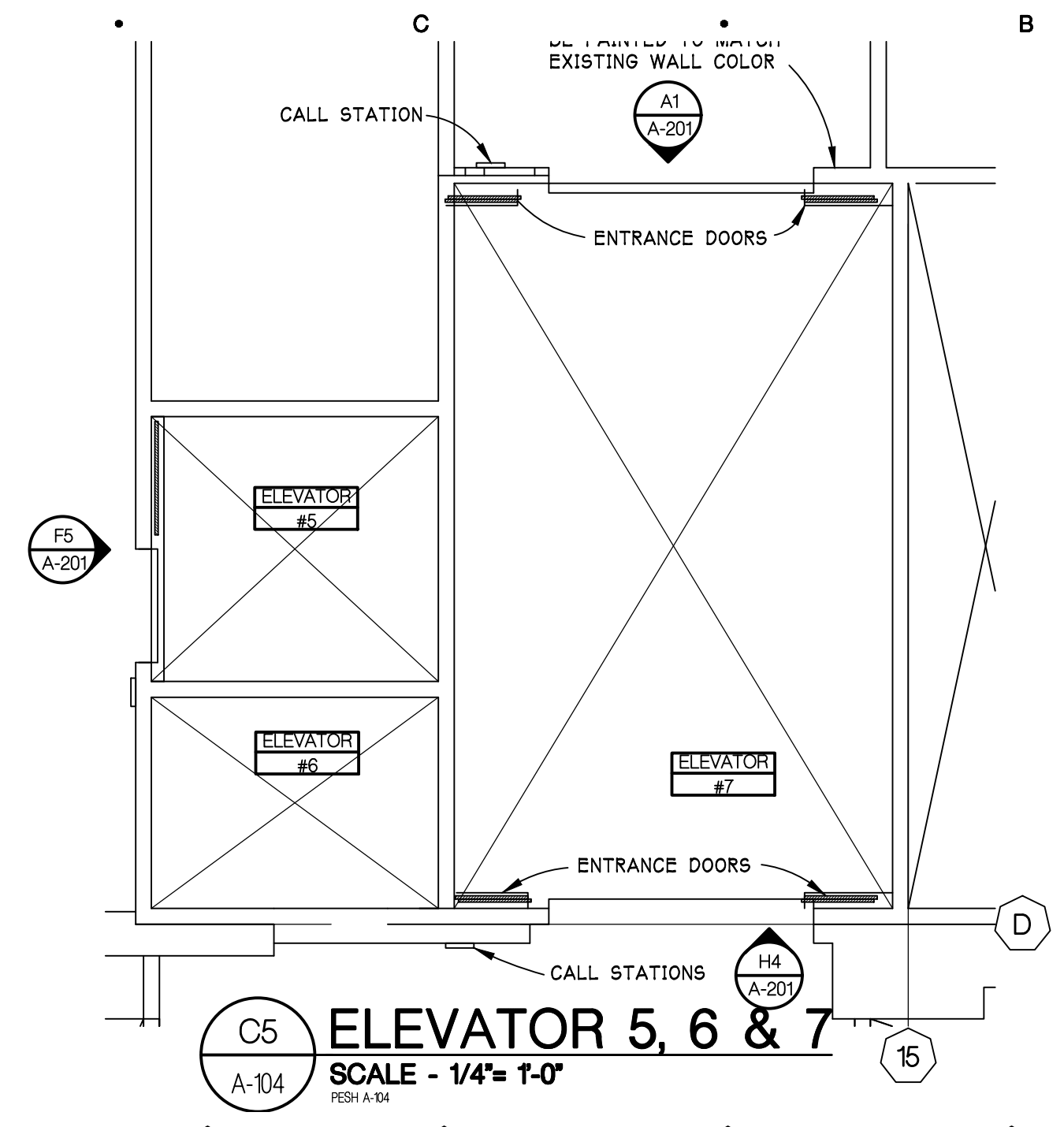
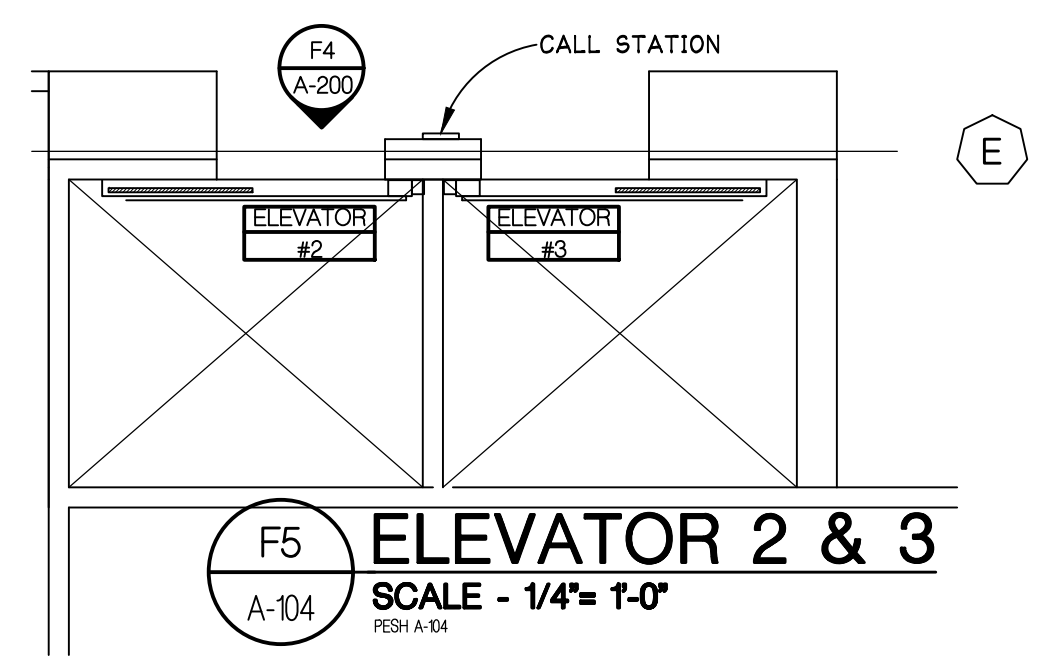
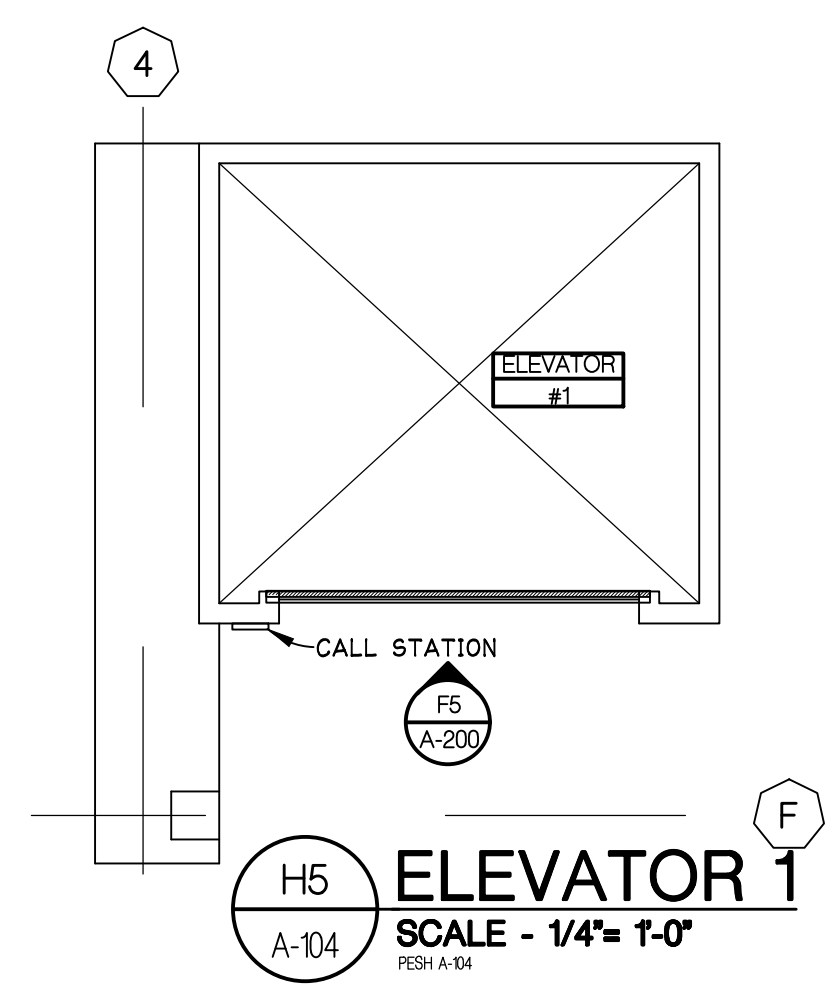
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**THIRD FLOOR MEZZANINE ELEVATOR PLAN**

SHEET TITLE

**21-302**  
 PROJECT NUMBER

**A-103M**  
 SHEET NUMBER



NOTES:  
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NORTH  
**FOURTH FLOOR PLAN**  
 SCALE - 1/16" = 1'-0"  
 REVISION A-104

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**FOURTH FLOOR  
 ELEVATOR  
 PLANS**

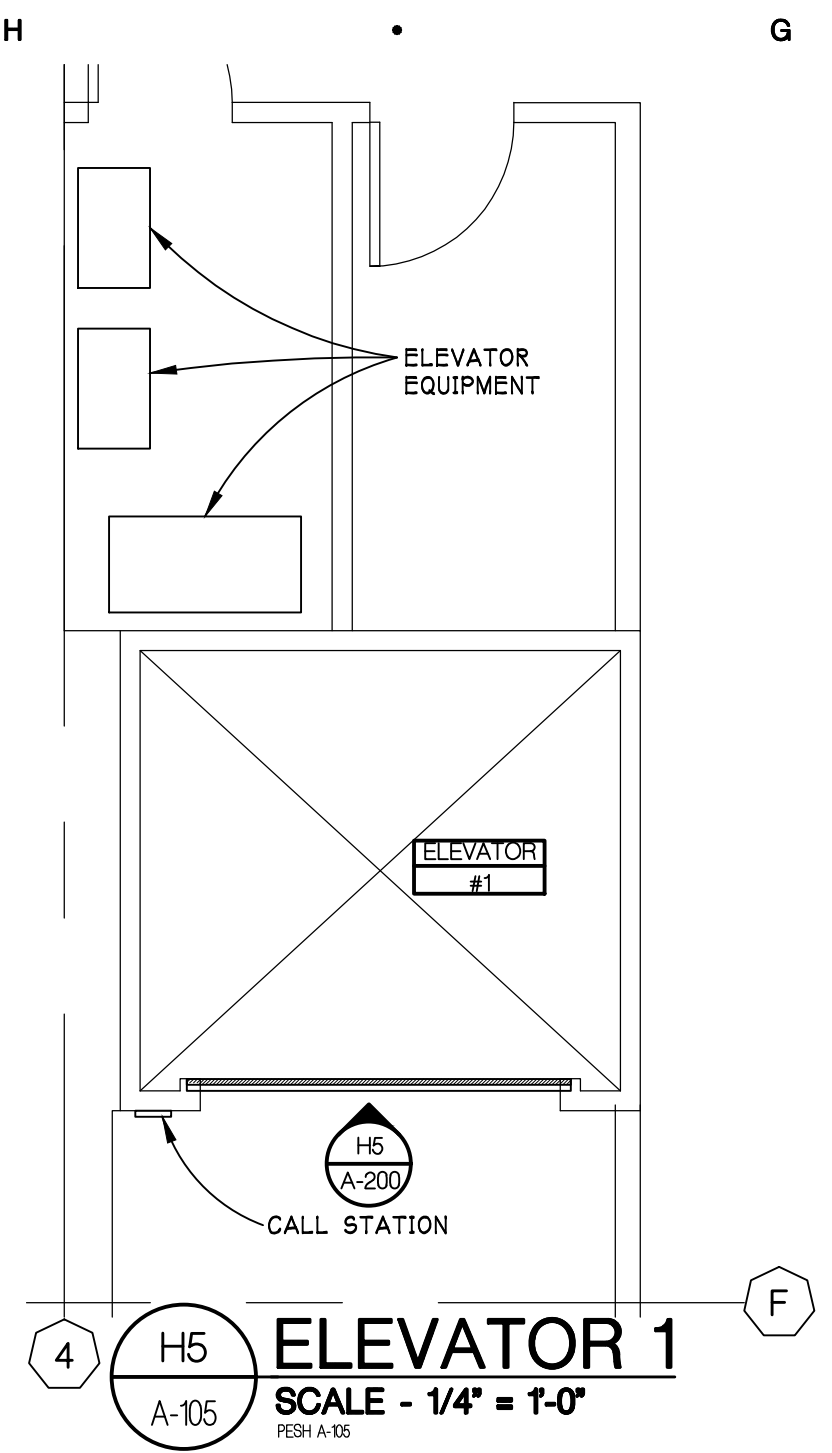
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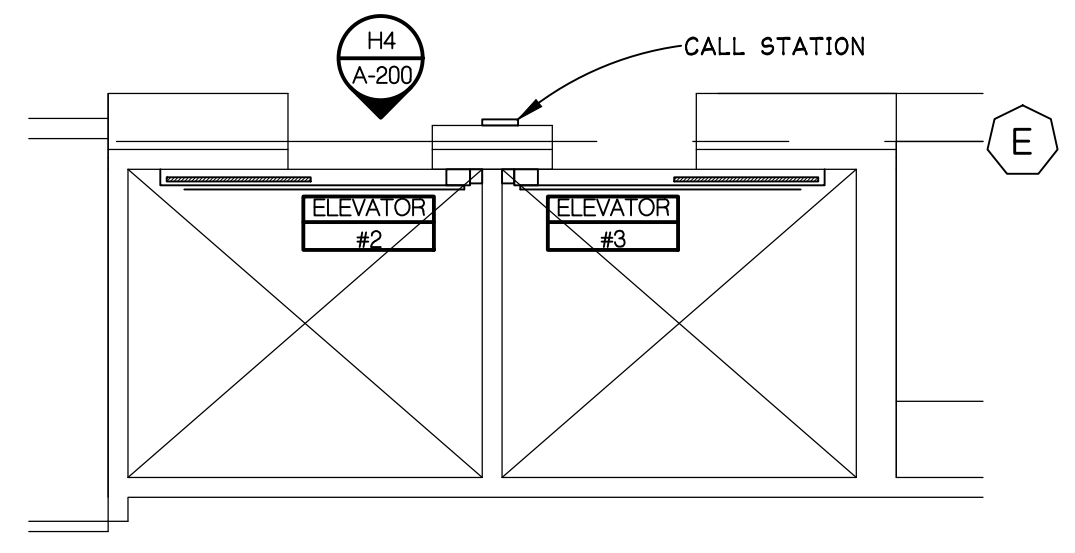
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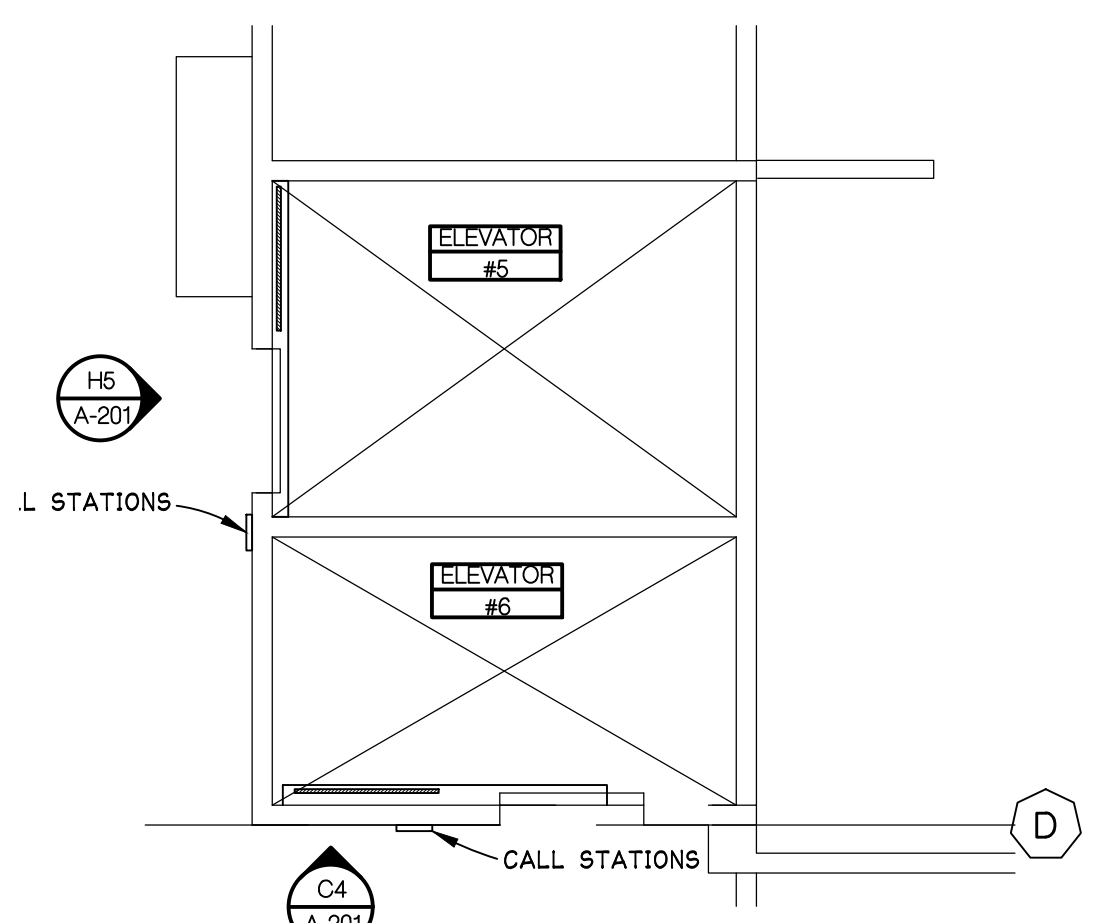




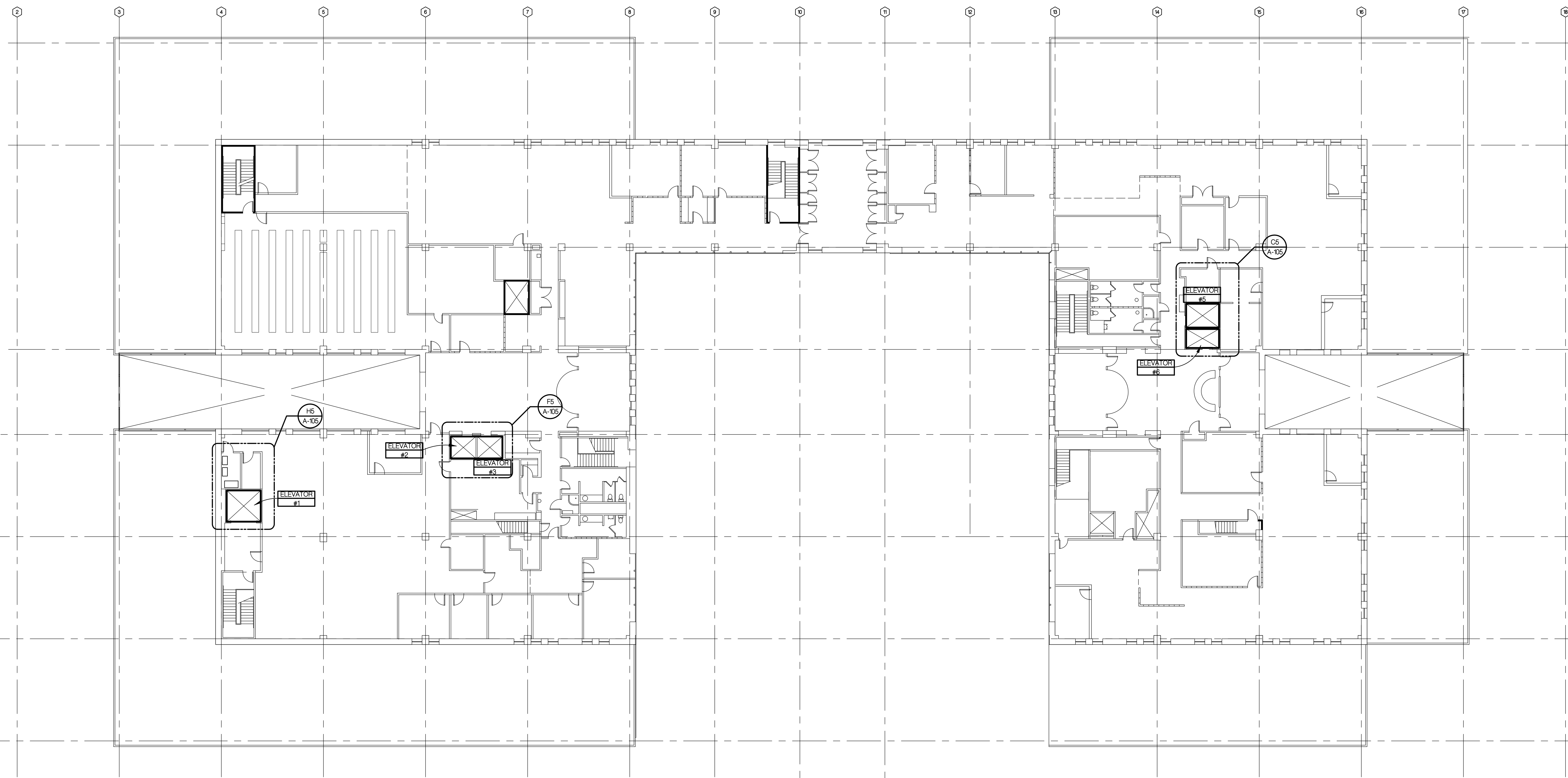
**H5**  
 A-105  
**ELEVATOR 1**  
 SCALE - 1/4" = 1'-0"  
 RSH A-105



**F5**  
 A-105  
**ELEVATOR 2 & 3**  
 SCALE - 1/4" = 1'-0"  
 RSH A-105



**C5**  
 A-105  
**ELEVATOR 5 & 6**  
 SCALE - 1/4" = 1'-0"  
 RSH A-105



NOTES:  
 SEE SHEET A-001 FOR GENERAL NOTES AND KEY NOTES

**FIFTH FLOOR PLAN**  
 SCALE - 1/16" = 1'-0"  
 RSH A-105

ISSUED FOR BIDDING 09/16/2021  
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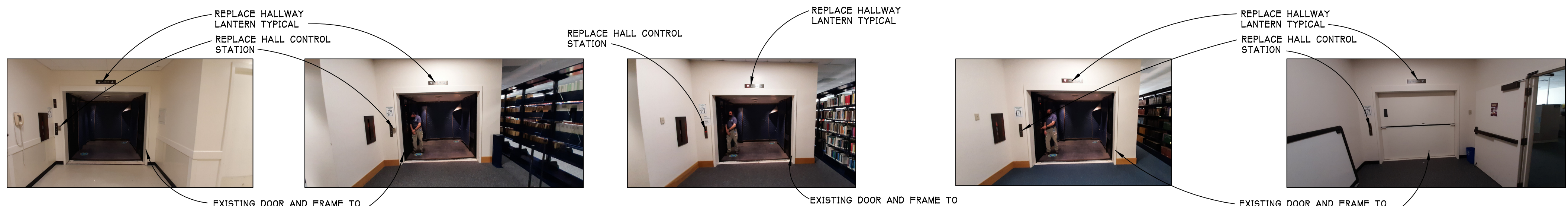
**FIFTH FLOOR  
 ELEVATOR  
 PLANS**

SHEET TITLE

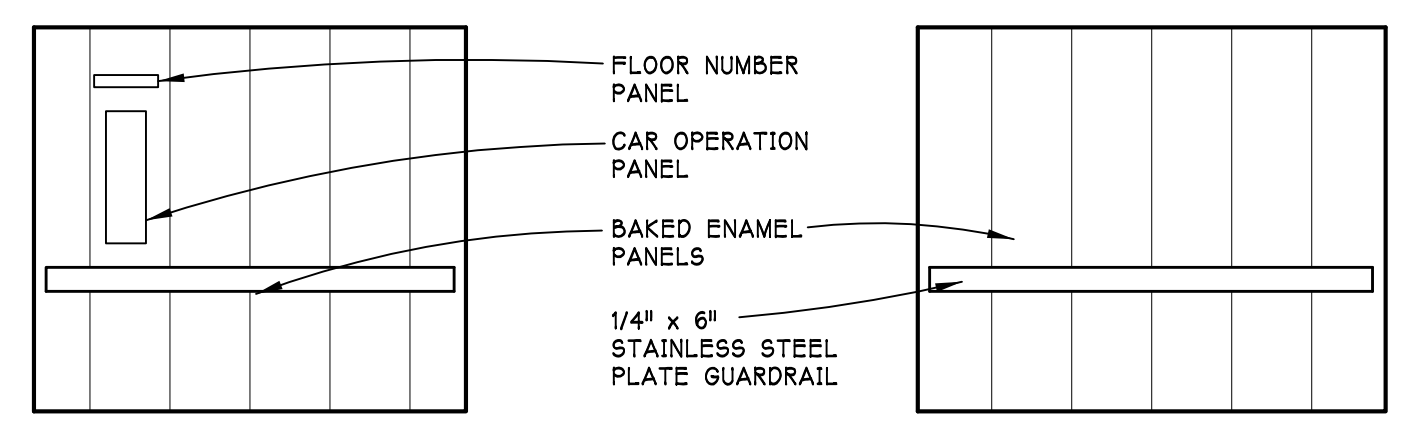
**21-302**  
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**A-105**  
 SHEET NUMBER

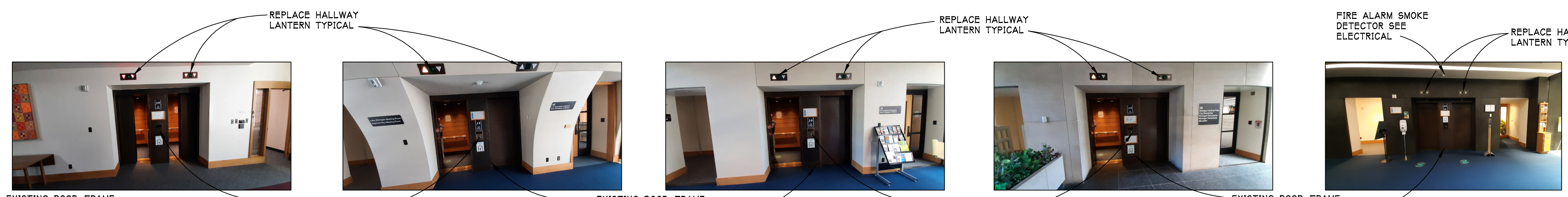
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 Plotted by: jmontmore



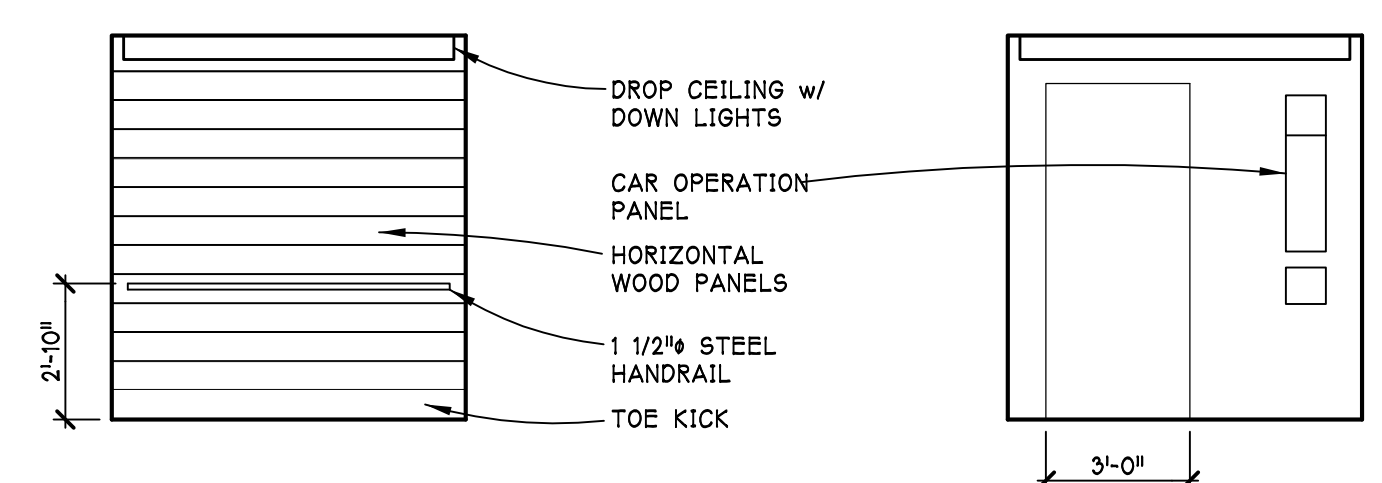
**ELEV. 1 FIFTH FLOOR LANDING EL.** (H5) SCALE - 1/4" = 1'-0"  
**ELEV. 1 FOURTH FLOOR LANDING EL.** (F5) SCALE - 1/4" = 1'-0"  
**ELEV. 1 THIRD FLOOR LANDING EL.** (E5) SCALE - 1/4" = 1'-0"  
**ELEV. 1 SECOND FLOOR LANDING EL.** (D5) SCALE - 1/4" = 1'-0"  
**ELEV. 1 GROUND FLOOR LANDING EL.** (C5) SCALE - 1/4" = 1'-0"



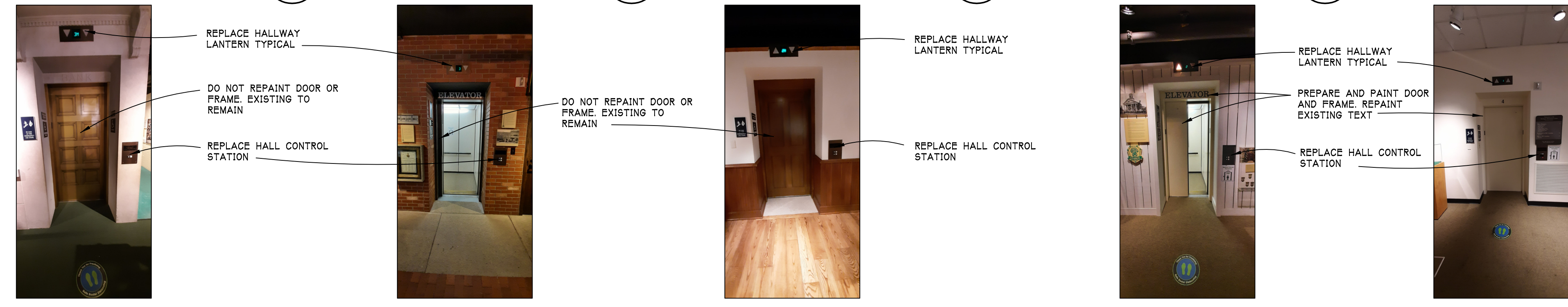
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**ELEVATOR 1 CAB ELEVATION** (A5) SCALE - 1/4" = 1'-0"



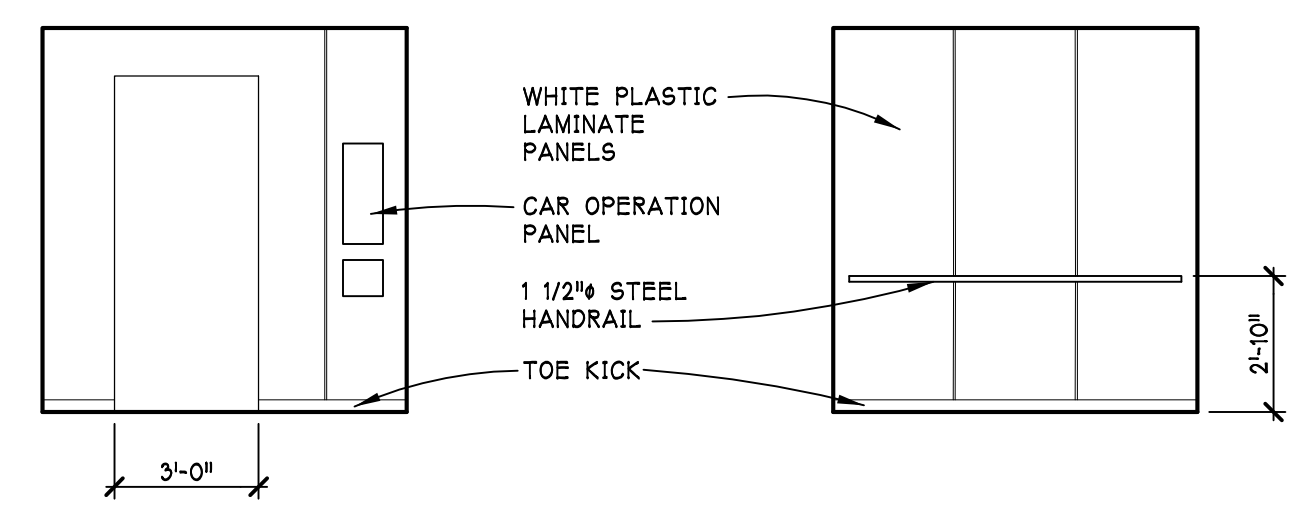
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**ELEV. 2 & 3 FOURTH FLOOR LANDING EL.** (F4) SCALE - 1/4" = 1'-0"  
**ELEV. 2 & 3 THIRD FLOOR LANDING EL.** (E4) SCALE - 1/4" = 1'-0"  
**ELEV. 2 & 3 SECOND FLOOR LANDING EL.** (D4) SCALE - 1/4" = 1'-0"  
**ELEV. 2 & 3 GROUND FLOOR LANDING EL.** (C4) SCALE - 1/4" = 1'-0"



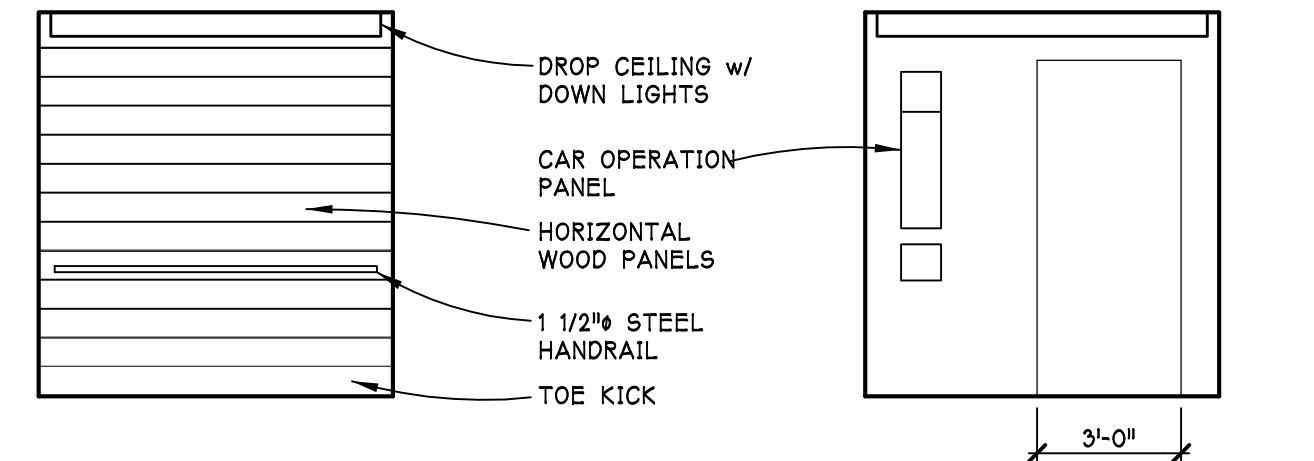
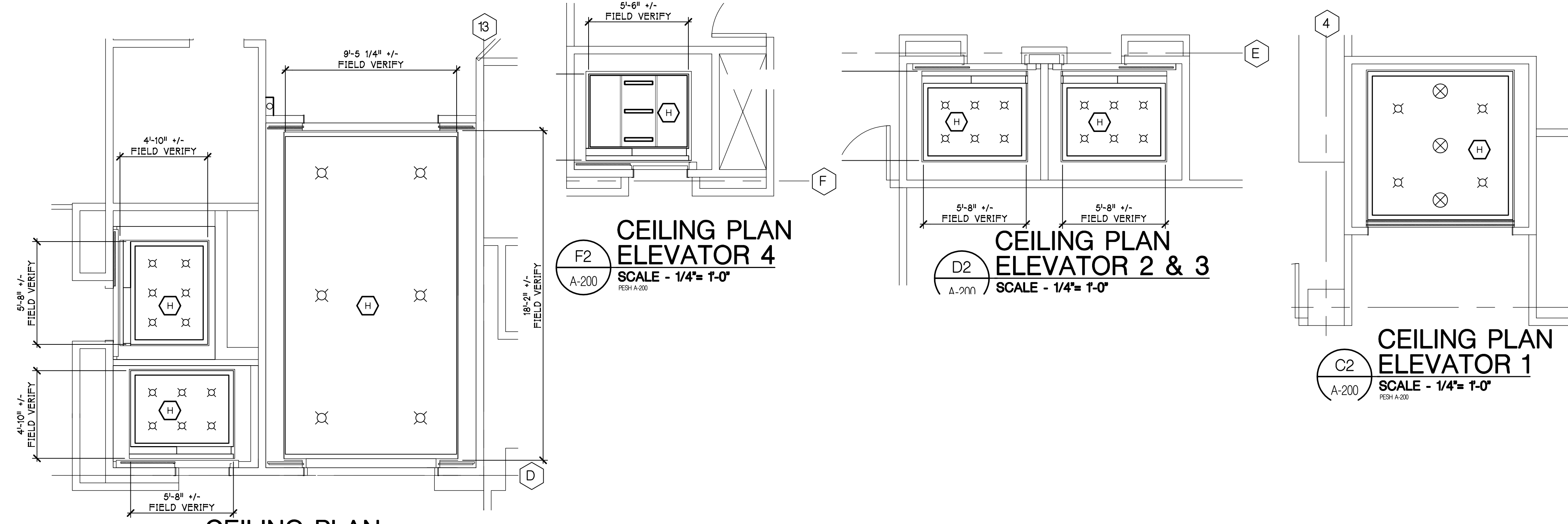
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**ELEVATOR 2 CAB ELEVATION** (A4) SCALE - 1/4" = 1'-0"



**ELEV. 4 THIRD FLOOR MEZZANINE LANDING EL.** (H3) SCALE - 1/4" = 1'-0"  
**ELEV. 4 THIRD FLOOR LANDING EL.** (F3) SCALE - 1/4" = 1'-0"  
**ELEV. 4 SECOND FLOOR MEZZANINE LANDING EL.** (E3) SCALE - 1/4" = 1'-0"  
**ELEV. 4 SECOND FLOOR LANDING EL.** (D3) SCALE - 1/4" = 1'-0"  
**ELEV. 4 GROUND FLOOR LANDING EL.** (C3) SCALE - 1/4" = 1'-0"



**ELEVATOR 4 CAB ELEVATION** (B3) SCALE - 1/4" = 1'-0"  
**ELEVATOR 4 CAB ELEVATION** (A3) SCALE - 1/4" = 1'-0"



**ELEVATOR 3 CAB ELEVATION** (B2) SCALE - 1/4" = 1'-0"  
**ELEVATOR 3 CAB ELEVATION** (A2) SCALE - 1/4" = 1'-0"

Drawing: P:\2021\21-302\DWG\CD\Arch\F5H1 A-200.dwg  
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 CONSULTANTS

CEILING PLANS, ELEVATOR CABS, AND LANDING ELEVATIONS  
 SHEET TITLE

21-302  
 PROJECT NUMBER

A-200  
 SHEET NUMBER

**ELEV. 5 FIFTH FLOOR LANDING EL.** (H5) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 5 FOURTH FLOOR LANDING EL.** (F5) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 5 THIRD FLOOR LANDING EL.** (E5) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 5 SECOND FLOOR LANDING EL.** (D5) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 5 GROUND FLOOR LANDING EL.** (C5) SCALE - 1/4" = 1'-0" (A-201)

**ELEVATOR 5 CAB ELEVATION** (B5) SCALE - 1/4" = 1'-0" (A-201)

**ELEVATOR 5 CAB ELEVATION** (A5) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 6 & 7 FOURTH FLOOR LANDING EL.** (H4) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 6 & 7 THIRD FLOOR LANDING EL.** (F4) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 6 & 7 SECOND FLOOR LANDING EL.** (E4) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 6 & 7 GROUND FLOOR LANDING EL.** (D4) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 6 FIFTH FLOOR LANDING EL.** (C4) SCALE - 1/4" = 1'-0" (A-201)

**ELEVATOR 6 CAB ELEVATION** (B4) SCALE - 1/4" = 1'-0" (A-200)

**ELEVATOR 6 CAB ELEVATION** (A4) SCALE - 1/4" = 1'-0" (A-200)

**ELEV. 7 THIRD FLOOR LANDING EL.** (H2) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 7 SECOND FLOOR LANDING EL.** (F2) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 7 GROUND FLOOR LANDING EL.** (E2) SCALE - 1/4" = 1'-0" (A-201)

**ELEVATOR 7 CAB ELEVATION** (D2) SCALE - 1/4" = 1'-0" (A-200)

**ELEVATOR 7 CAB ELEVATION** (C2) SCALE - 1/4" = 1'-0" (A-200)

**ELEVATOR 7 CAB ELEVATION** (A2) SCALE - 1/4" = 1'-0" (A-200)

**ELEV. 8 SECOND FLOOR LANDING EL.** (E1) SCALE - 1/4" = 1'-0" (A-201)

**ELEV. 8 GROUND FLOOR LANDING EL.** (D1) SCALE - 1/4" = 1'-0" (A-201)

**ELEVATOR 8 CAB ELEVATION** (C1) SCALE - 1/4" = 1'-0" (A-200)

**ELEVATOR 8 CAB ELEVATION** (B1) SCALE - 1/4" = 1'-0" (A-200)

**ELEV. 7 FOURTH FLOOR LANDING EL.** (A1) SCALE - 1/4" = 1'-0" (A-201)

**PLAN DETAIL** (G1) SCALE - 3/4" = 1'-0" (A-201)

**Notes:**  
 - REPLACE HALLWAY LANTERN TYPICAL  
 - EXISTING SIGNAGE TO REMAIN  
 - REPLACE HALL CONTROL STATION  
 - EXISTING DOOR, FRAME AND BRONZE PANEL TO REMAIN  
 - EXISTING DOOR, FRAME AND METAL PANEL TO PREPARED AND PAINTED TO MATCH WALL COLOR  
 - FIRE ALARM SMOKE DETECTOR SEE ELECTRICAL  
 - DROP CEILING w/ DOWN LIGHTS  
 - CAR OPERATION PANEL  
 - HORIZONTAL WOOD PANELS  
 - 1 1/2" STEEL HANDRAIL  
 - TOE KICK  
 - ANTIQUE BRONZE METAL PANEL  
 - METAL WALL PANEL PAINTED WHITE  
 - ALUMINUM HANDRAIL  
 - PLASTIC LAMINATE WALL PANEL  
 - CORE DRILL EXISTING ELEVATOR PIT WALL AS REQUIRED TO INSTALL PIPE SLEEVE THROUGH WALL BELOW ELEVATOR DOOR EQUIPMENT  
 - REMOVE EXISTING HOLLOW METAL DOOR, FRAME AND HARDWARE AND REPLACE WITH NEW, SEE SPECIFICATIONS  
 - REMOVE AND PROVIDE NEW FLOOR DESIGNATION TACTILE PLATES TYPICAL ALL ELEVATORS AT ALL FLOORS  
 - EXISTING DOOR, FRAME TO BE PREPARED AND PAINTED TO MATCH WALL COLOR  
 - SMOKE DETECTOR SEE ELECTRICAL TYPICAL  
 - NOTE: WOOD PANES TO BE STAINED WHITE OAK TO MATCH EXISTING WOOD TRIM IN BUILDING  
 - NOTE: WOOD PANES TO BE STAINED WHITE OAK TO MATCH EXISTING WOOD TRIM IN BUILDING

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 Date: Sep 15, 2021, 8:07am  
 Layout: A-201  
 Plotted by: jmontmore

### ELECTRICAL SYMBOLS LEGEND

<b>OUTLETS</b>	<b>FIXTURES</b>	<b>SERVICE and EQUIPMENT</b>
⊕ SINGLE RECEPTACLE (120 VOLT)	⊕ LIGHT FIXTURE	⊕ TRANSIENT VOLTAGE SURGE SUPPRESSION
⊕ DUPLEX RECEPTACLE	⊕ STRIP FIXTURE	⊕ VARIABLE FREQUENCY DRIVE
⊕ EMERGENCY RECEPTACLE	⊕ EMERGENCY LIGHT FIXTURE	⊕ TRANSFORMER
⊕ DOUBLE DUPLEX RECEPTACLE	⊕ IN-GRADE LIGHT FIXTURE	⊕ DISCONNECT SWITCH (fuse size shown)
⊕ FLUSH FLOOR BOX	⊕ SPOTLIGHT (number of heads shown)	⊕ MAGNETIC STARTER (BY x/C U.O.N.)
⊕ SURFACE FLOOR BOX	⊕ EXIT SIGN (face & direction as shown)	⊕ COMB. STARTER (BY x/C U.O.N.)
⊕ SPECIAL EQUIPMENT RECEPTACLE	⊕ WALL MOUNT LIGHT FIXTURE	⊕ PANELBOARD, SURFACE MOUNTED
⊕ TELEPHONE OUTLET	⊕ CEILING LIGHT FIXTURE	⊕ PANELBOARD, FLUSH MOUNTED
⊕ DATA OUTLET	⊕ TRACK & FIXTURE	⊕ WEATHERHEAD
⊕ TELEPHONE / DATA OUTLET	⊕ STREET TYPE POLE FIXTURE	⊕ UTILITY METER, AS REQUIRED
⊕ POWER POLE	⊕ POLE MOUNTED LIGHT FIXTURE	⊕ CURRENT TRANSFORMERS
⊕ JUNCTION BOX	⊕ EXTERIOR WALL MOUNT LIGHT FIXTURE	⊕ GENERATOR, KW SHOWN
⊕ WALL JUNCTION BOX	⊕ WALLPACK LIGHT FIXTURE	⊕ TELEPHONE TERMINAL BOARD
⊕ PULL (JUNCTION) BOX	⊕ SPECIAL PURPOSE LIGHT FIXTURE	⊕ GROUND CONNECTION PER N.E.C.
⊕ UNDERFLOOR JUNCTION BOX	⊕ HIGH BAY LIGHT FIXTURE	⊕ WIREWAY
⊕ CEILING MOUNTED WIFI	⊕ EMERGENCY EGRESS LIGHT FIXTURE (number of heads shown)	⊕ TRANSFER SWITCH
	⊕ DOCK LIGHT FIXTURE	⊕ ENCLOSED CIRCUIT BREAKER
		⊕ CAPACITOR
<b>SWITCHES</b>	<b>CIRCUITRY and RACEWAYS</b>	<b>CONTROL</b>
⊕ SINGLE-POLE SWITCH	— CONDUIT INSTALLED (by E.C.)	⊕ THERMOSTAT
⊕ THREE-WAY SWITCH	— CONDUIT INSTALLED (by others)	⊕ HUMIDISTAT
⊕ FOUR-WAY SWITCH	— CONDUIT STUB UP	⊕ PHOTOCELL (voltage as required)
⊕ SWITCH WITH PILOT LIGHT	— CONDUIT STUB DOWN	⊕ TIME CLOCK (24 hour U.O.N.)
⊕ THERMAL OVERLOAD SWITCH	— HOME RUN (with circuit numbers)	⊕ PUSHBUTTON STATION (number of buttons indicated)
⊕ MANUAL MOTOR SWITCH	— END OF CONDUIT RUN	⊕ CONTROL TRANSFORMER
⊕ KEY SWITCH	— END OF CONDUIT RUN, CAP AND STAKE	⊕ LIGHTING CONTACTOR
⊕ TIME SWITCH	— "CONDUIT RUN CONTINUES" INDICATION	⊕ IRRIGATION CONTROLLER (120 volt xxVA connection by x/C)
⊕ DIMMER SWITCH	— FLEXIBLE PIGTAILS/CONNECTIONS	⊕ WALL MOUNT DUAL TECHNOLOGY SENSOR
<b>MECHANICAL</b>	— WM — WIREMOLD AS SPECIFIED	⊕ SENSOR SWITCH WV-PDT-16 SERIES
⊕ SINGLE PHASE MOTOR	— PM — PLUGMOLD AS SPECIFIED	⊕ OCCUPANCY SENSOR / PHOTOCELL
⊕ THREE PHASE MOTOR	— BD — BUS DUCT	⊕ SENSOR SWITCH CMR-PC-ADC SERIES
⊕ RESISTANCE HEATER, KW SHOWN	— UFD — UNDERFLOOR DUCT	⊕ ULTRASONIC SENSOR - 360° - 2 CIRCUIT
⊕ PIPE TRACE HEATER		⊕ SENSOR SWITCH CMR-PDT-10-2P
⊕ ELECTRIC UNIT HEATER	<b>SOUND and SIGNAL</b>	⊕ ULTRASONIC SENSOR - 360° - 1000 SQ FT
⊕ ELECTRIC WATER HEATER	⊕ SPEAKER	⊕ SENSOR SWITCH CMR-PDT-10
	⊕ WALL MOUNTED SPEAKER	⊕ ULTRASONIC SENSOR - 360° - 500 SQ FT
	⊕ WALL MOUNTED SPEAKER / CLOCK COMBO	⊕ SENSOR SWITCH CMR-PDT SERIES
	⊕ SINGLE FACE CLOCK	⊕ SWITCH STYLE OCCUPANCY SENSOR
	⊕ DUAL FACE CLOCK	⊕ SENSOR SWITCH WSD-PDT SERIES
	⊕ VIDEO INPUT	
	⊕ AUDIO / VIDEO INPUT	<b>POWER PACK</b>
	⊕ BELL	⊕ SENSOR SWITCH MP20 SERIES
	⊕ VOLUME CONTROL	
	⊕ BUZZER	⊕ DIGITAL TIME SWITCH
	⊕ CHIME	⊕ WATT STOPPER TS-400
	⊕ TELEVISION OUTLET	<b>FIRE ALARM</b>
	⊕ MICROPHONE OUTLET	⊕ SMOKE DETECTOR
	⊕ INTERCOM OUTLET	⊕ HEAT DETECTOR
	⊕ CAMERA	⊕ DUCT SMOKE DETECTOR
	⊕ DOOR CONTACT	⊕ DUCT SMOKE DETECTOR
	⊕ MOTION DETECTOR	⊕ HORN
	⊕ BEAM DETECTOR	⊕ HORN & LIGHT
	⊕ KEY PAD	⊕ SPEAKER
	⊕ SECURITY SYSTEM CONTROL PANEL	⊕ SPEAKER & LIGHT
	⊕ CCTV CONTROL PANEL	⊕ PULL STATION
	⊕ CARD READER	⊕ FIRE ALARM CONTROL PANEL
	⊕ STUDENT STATION	⊕ ANNUNCIATOR PANEL
	⊕ ADMINISTRATION STATION	⊕ END OF LINE DEVICE
	⊕ TEACHER STATION	⊕ REMOTE INDICATING LIGHT, WALL MTD.
	⊕ GLASS BREAK	⊕ REMOTE INDICATING LIGHT, CLG. MTD.
		⊕ MAGNETIC DOOR HOLDER
		⊕ FIREFIGHTER COMMUNICATION JACK
		⊕ FLOW SWITCH (furnished by FP/C)
		⊕ TAMPER SWITCH (furnished by FP/C)
		⊕ VISUAL ONLY UNIT
		⊕ FIRE CONTROL POWER SUPPLY
		⊕ MONITOR MODULE
		⊕ CONTROL MODULE
		⊕ CARBON MONOXIDE DETECTOR

### GENERAL ELECTRICAL NOTES

- ALL WALL AND FLOOR PENETRATIONS ARE TO BE SEALED TO MAINTAIN ORIGINAL RATING.
- ALL CONDUITS TO BE FIELD ROUTED ALONG EXISTING PIPING AND STRUCTURAL STEEL.
- THE DIVISION 26 CONTRACTORS SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
- REMOVE ALL EXISTING OBSOLETE EXPOSED CONDUIT, WIRE AND UNUSED EQUIPMENT WHERE WORK IS BEING DONE EXCEPT ITEMS NOTED OTHERWISE.
- WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SURFACES SHALL BE PATCHED TO MATCH ADJACENT.
- EXISTING WORK WHICH IS PRESENTLY CONCEALED AND WHICH WILL REMAIN CONCEALED AND DOES NOT INTERFERE WITH ANY NEW WORK OF ANY TRADE NEED NOT BE REMOVED. HOWEVER, ALL CONDUIT SHALL BE CAPPED BELOW FINISH SURFACE AND THEN PATCHED TO MATCH, OR AS NOTED.
- EXISTING OPENINGS, WHICH ARE TO BE REUSED, SHALL BE MODIFIED OR ENLARGED TO SUIT THE NEW SYSTEMS AS REQUIRED. PROVIDE ALL REQUIRED CUTTING AND PATCHING.
- IF ASBESTOS IS PRESENT, IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPARATE CONTRACT BY THE OWNER.
- THE DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING THE EXISTING WALLS TO MATCH THE ADJACENT SURFACES BEHIND ALL SURFACE MOUNTED EQUIPMENT.
- CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES AND LOADS PRIOR TO INSTALLING SERVICE TO EQUIPMENT.
- DRAWINGS ARE BASED ON EXISTING RECORD DOCUMENT AND CASUAL FIELD OBSERVATION. REPORT ANY DISCREPANCIES TO ENGINEER FOR CLARIFICATION.

### ABBREVIATIONS LEGEND

A	AMPS	GC	GENERAL CONTRACTOR	P	POLE
AC	ABOVE COUNTER	GFI	GROUND FAULT INTERRUPTER	P-	PUMP
ACU-	AIR CONDITIONING UNIT	GND	GROUND	PB	PULL BOX
AFF	ABOVE FINISHED FLOOR	H-	HUMIDIFIER	PNL	PANEL
AHJ	AUTHORITY HAVING JURISDICTION	HID	HIGH INTENSITY DISCHARGE	PRV-	POWER ROOF VENTILATOR
AHJ-	AIR HANDLING UNIT	HOA	HAND-OFF-AUTO SELECTOR SWITCH	PVC	POLY VINYL CHLORIDE
AIC	AMPS INTERRUPTING CAPACITY	HP	HORSEPOWER	PWR	POWER
AS	ABOVE SHELF	HR	HOUR	RECEPT	RECEPTACLE
ATS	AUTOMATIC TRANSFER SWITCH	HVAC	HEATING/VENTILATING/AIR CONDITIONING	RGC	RIGID GALVANIZED STEEL CONDUIT
B-	BOILER	IG	ISOLATED GROUND	RTU-	ROOF TOP UNIT
BC	BELOW COUNTER	IMC	INTERMEDIATE METAL CONDUIT	SF-	SUPPLY FAN
BLDG	BUILDING	JB	JUNCTION BOX	SPEC	SPECIFICATIONS
CHL-	CHILLER	LC	LIGHT CONTROL	SW	SWITCH
CND (C)	CONDUIT	LT	LIGHT	SWBD	SWITCHBOARD
CKT	CIRCUIT	LTG	LIGHTING	TCC	TEMPERATURE CONTROL CONTRACTOR
CKT BKR	CIRCUIT BREAKER	LTG FLEX	LIQUID TIGHT FLEXIBLE METAL CONDUIT	TR	TAMPER PROOF RECEPTACLE
CT-	COOLING TOWER	MAX	MAXIMUM	TS	TAMPER PROOF SWITCH
CU-	CONDENSING UNIT	MC	MECHANICAL CONTRACTOR	TYP	TYPICAL
CUH-	CABINET UNIT HEATER	MCC	MOTOR CONTROL CENTER	UF	UNDER FLOOR
DFU-	DUCT FURNACE	MIN	MINIMUM	UH-	UNIT HEATER
DISC	DISCONNECT	MLO	MAIN LUG ONLY	UL	UNDERWRITERS' LABORATORIES, INC.
DWG	DRAWING	MT	MOUNT	UNO	UNLESS NOTED OTHERWISE
DWH-	DOMESTIC WATER HEATER	MTD	MADE-UP AIR UNIT	V	VOLTS
EBB-	ELECTRIC BASEBOARD	MTG	MOUNTING	VL	VERIFY LOCATION WITH OWNER
EC	ELECTRICAL CONTRACTOR	MUAU-	MAKE-UP AIR UNIT	W	WATTS
EF-	EXHAUST FAN	NC	NORMALLY CLOSED	WI	WITH
EM	EMERGENCY	NIC	NOT IN CONTRACT	W/O	WITHOUT
EMT	ELECTRICAL METALLIC TUBING	NL	NIGHT LIGHT	WP	WEATHER PROOF
EWC	ELECTRIC WATER COOLER	NO	NORMALLY OPEN	XFMR	TRANSFORMER
EXIST (E)	EXISTING	NTS	NOT TO SCALE		
FLA	FULL LOAD AMPS				
FLEX	FLEXIBLE CONDUIT				
FLR	FLOOR				
FLUOR	FLUORESCENT				
FSES	FOOD SERVICE EQUIP. SUPPLIER				
F/S	FIRE/SMOKE				
FU-	FURNACE				

### LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION AND COMMENTS	BALLAST INFO	FIXTURE MOUNTING HEIGHT	LAMPS
LA	PHOENIX OR EQUAL	VA-W-17LED-CW-FGC	LED ELEVATOR PIT LIGHT.	0-10V	USE EXISTING HEIGHT	1336 LUMENS 17W, 5000K LED

### FIRE ALARM NOTES

- ALL POWER CABLE SHALL BE IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE SPECIFIED.
- EXISTING FIRE ALARM SYSTEM IS HONEYWELL XLS1000.
- FIRE ALARM CABLE CAN BE INSTALLED FREE AIR ABOVE CEILINGS.
- PROVIDE RACEWAY WHERE SURFACE MOUNT DEVICES ARE REQUIRED. CONDUIT SHALL BE 3/4" MINIMUM.
- ALL CABLE SHALL BE INSTALLED PER FIRE ALARM MANUFACTURER'S SPECIFICATIONS.
- FIRE ALARM REMOTE POWER SUPPLY SHALL BE MONITORED.
- PROVIDE SMOKE DETECTOR ABOVE ALL FIRE ALARM PANELS AND REMOTE POWER SUPPLIES.
- REFER TO DRAWINGS FOR DEVICE QUANTITIES AND LOCATIONS. BRING TO THE ENGINEER'S ATTENTION DISCREPANCIES PRIOR TO BIDDING PROJECT.
- UPON ALARM OF SMOKE DETECTORS, FIRE ALARM SYSTEM TO RELEASE DOOR HOLDERS.
- POWER SUPPLIES IN BOTH FACP AND FCPS SHALL HAVE 25% SPARE CAPACITY.
- TRUE PEER TO PEER NETWORK FOR FIRE ALARM SYSTEM.
- FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL CANDELA RATINGS OF VISUAL UNITS TO COMPLY WITH NFPA 72. STROBE CANDELA SETTINGS SHALL BE SET DURING INSTALLATION OF THE DEVICE.
- REPLACE ALL EXISTING DUCT DETECTORS AS SHOWN ON PRINTS. ANY DUCT DETECTORS THAT ARE DISCOVERED AND NOT SHOWN SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- PROVIDE REMOTE TEST STATIONS FOR EACH DUCT DETECTOR.
- INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 760.
- 120V AC POWER FOR FIRE ALARM SYSTEM ENCLOSURES SHALL NOT SHARE CONDUIT RACEWAY WITH FIRE ALARM SYSTEM CIRCUITS.
- FIRE ALARM SYSTEM DEVICES SHALL BE MOUNTED TO ELECTRICAL BOXES AS REQUIRED AND REFLECTED ON DEVICE INSTALLATION SHEET.
- STROBE CANDELA SETTINGS SHALL BE SET DURING INSTALLATION OF THE DEVICE.
- AREA SMOKE DETECTORS SHALL NOT BE PLACED WITHIN 36-INCHES OF AIR DISTRIBUTION DIFFUSERS OR RETURN GRILLS.

### FIRE ALARM SEQUENCE OF WORK

- SUBMIT SHOP DRAWINGS, WIRING DIAGRAMS, BATTERY CALCULATION TO ENGINEER ON LIGHTING AND FIRE ALARM SYSTEM.
- SUBMIT FIRE ALARM SHOP DRAWINGS TO FIRE MARSHAL AFTER ENGINEER APPROVAL. INSTALL NEW LIGHTING PER DRAWINGS.
- PROVIDE AND INSTALL FIRE ALARM SYSTEM PER APPROVED FIRE MARSHAL SUBMITTAL. TAG NEW DEVICES "OUT OF SERVICE" UNTIL NEW SYSTEM HAS BEEN APPROVED BY THE FIRE MARSHAL.
- PROVIDE FIRE WATCH WHEN SWITCHING THE TAMPERS AND FLOW SWITCHES TO NEW SYSTEMS.
- NEW FIRE ALARM SYSTEM SHALL BE CERTIFIED BY NICET LEVEL 3 FIRE ALARM SUPPLIER.
- ENGINEER WILL PROVIDE PUNCH LIST ON LIGHTING AND FIRE ALARM SYSTEM.
- OBTAIN FIRE MARSHAL APPROVAL FOR NEW FIRE ALARM SYSTEM. OBTAIN ELECTRICAL INSPECTION APPROVAL ON LIGHTING AND POWER FOR PROJECT.
- TRAIN OWNER ON NEW SYSTEM.
- SUBMIT ALL O & E MANUALS AND AS-BUILTS TO ENGINEER FOR APPROVAL.
- ONCE THE NEW SYSTEM HAS BEEN APPROVED, DEMO EXISTING FIRE ALARM SYSTEM. REMOVE ALL EXPOSED WIREMOLD, CONDUIT, AND WIRE. PATCH AND PAINT AS REQUIRED. REMOVE TAGS ON NEW FIRE ALARM DEVICES. TURN OVER O & E MANUALS AND AS-BUILTS TO OWNER.



*Joseph F. Sovis, Jr.*

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ELECTRICAL  
SYMBOLS, ABBREV,  
NOTES, SCHEDULES

SHEET TITLE

21-302

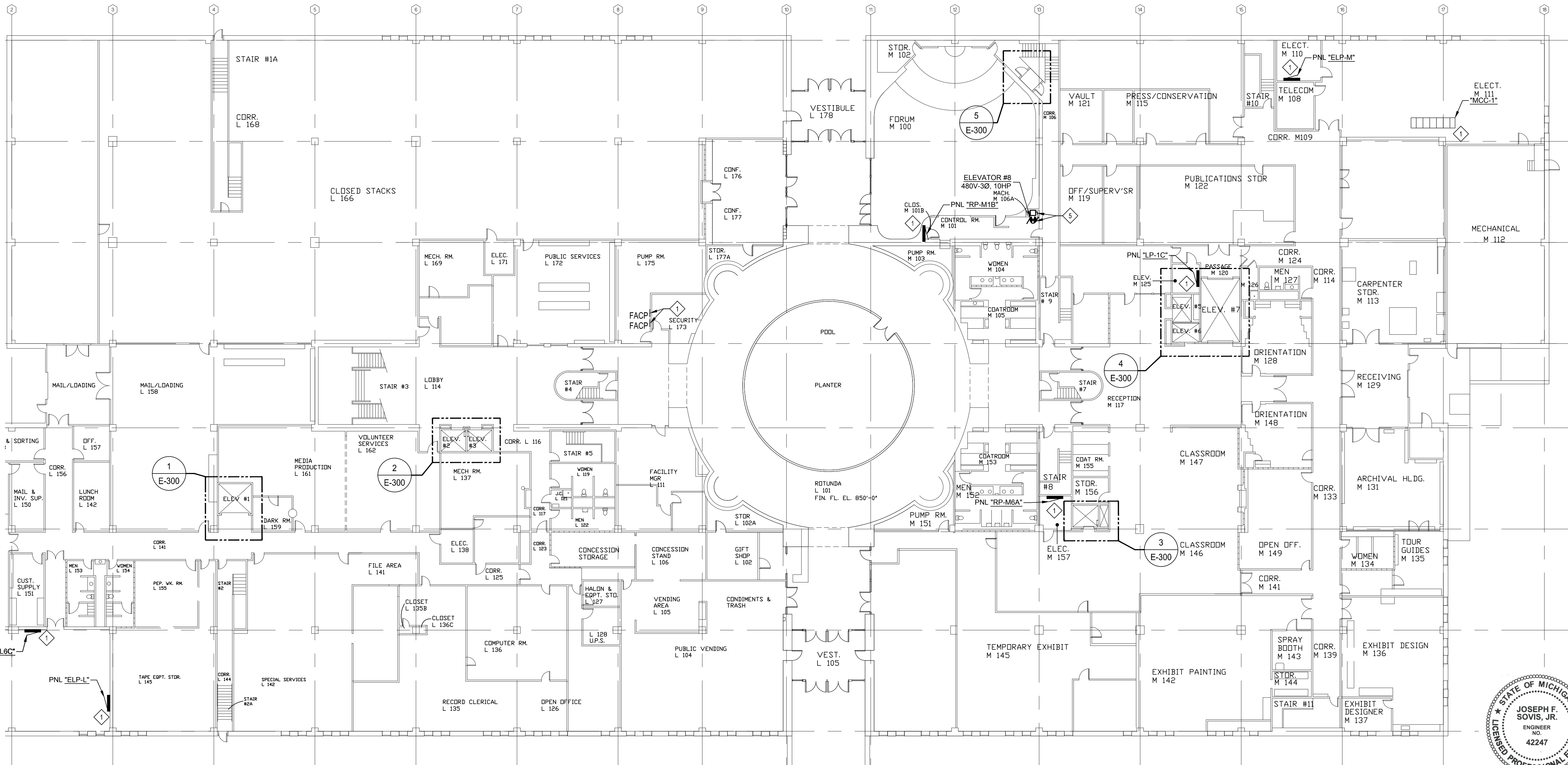
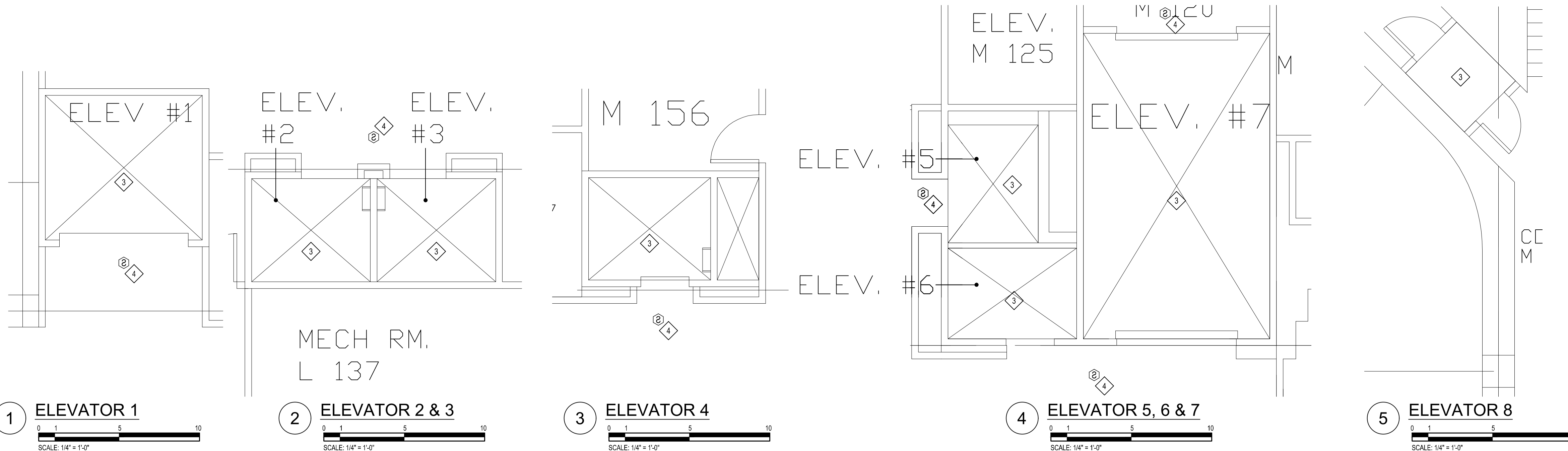
PROJECT NUMBER

E-100

SHEET NUMBER

**DEMOLITION NOTES**

- 1 EXISTING EQUIPMENT TO REMAIN.
- 2 DISCONNECT & REMOVE EXISTING EQUIPMENT. ASSOCIATED CONDUIT & WIRE TO REMAIN FOR NEW EQUIPMENT.
- 3 DISCONNECT & REMOVE EXISTING PIT LIGHT. ASSOCIATED CONDUIT & WIRE TO REMAIN FOR NEW LIGHT.
- 4 EXISTING DEVICE TO REMAIN UNTIL NEW INSTALLATION IS COMPLETE. UPON COMPLETION, DISCONNECT & REMOVE EXISTING DEVICE.
- 5 DISCONNECT & REMOVE EXISTING EQUIPMENT. EXTEND ASSOCIATED CONDUIT & WIRE TO NEW LOCATION FOR NEW EQUIPMENT.



**ELECTRICAL - FIRST FLOOR - DEMOLITION**  
 SCALE: 1/16" = 1'-0"

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 LICENSED PROFESSIONAL ENGINEER

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**ELECTRICAL FIRST FLOOR DEMOLITION**

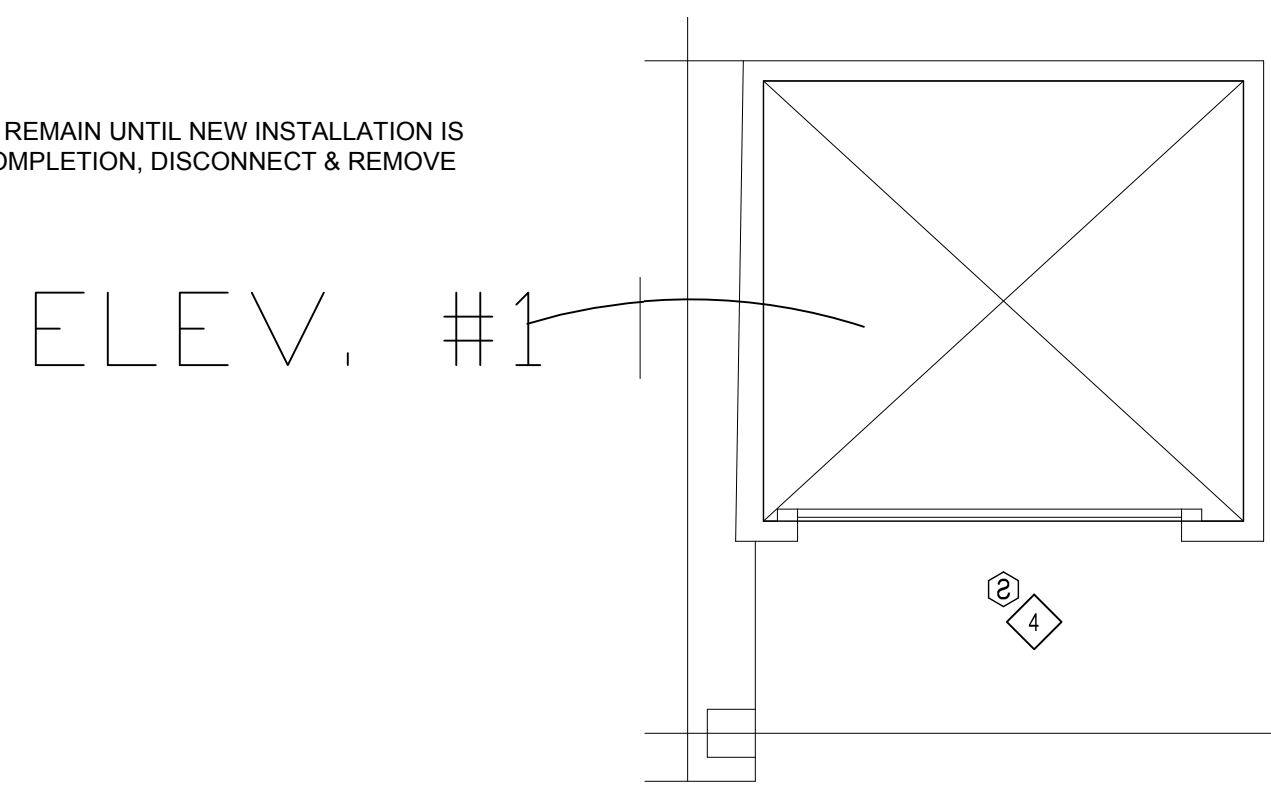
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21-302  
 PROJECT NUMBER

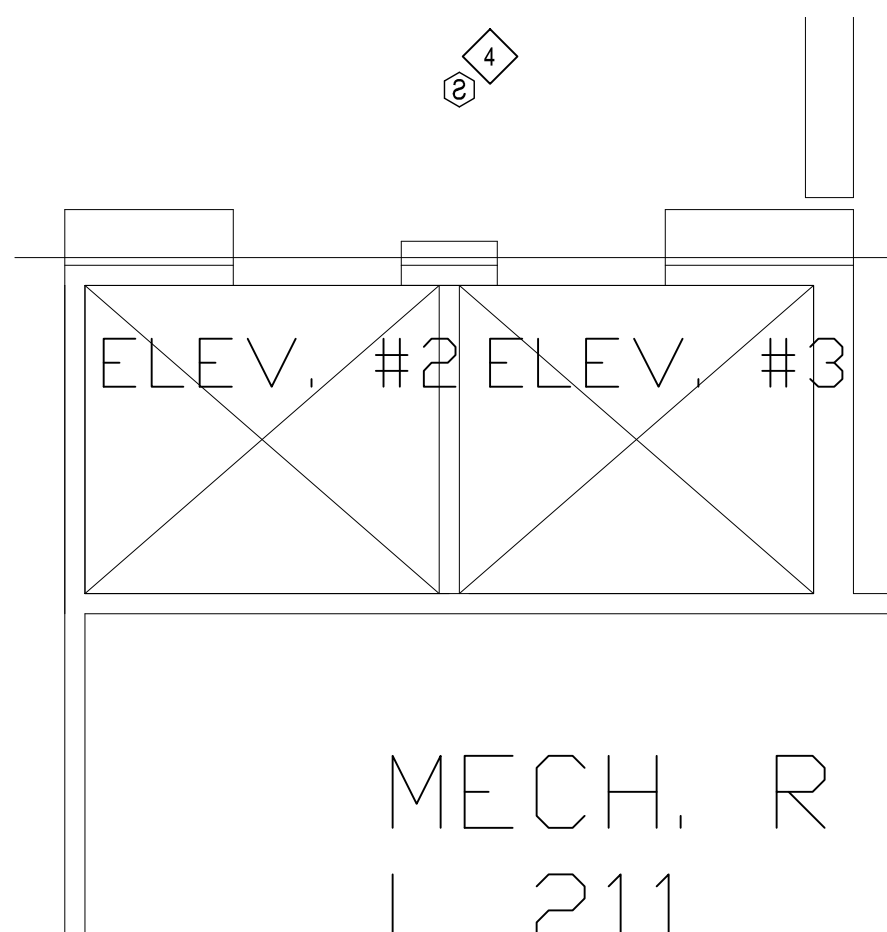
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 SHEET NUMBER

**DEMOLITION NOTES**

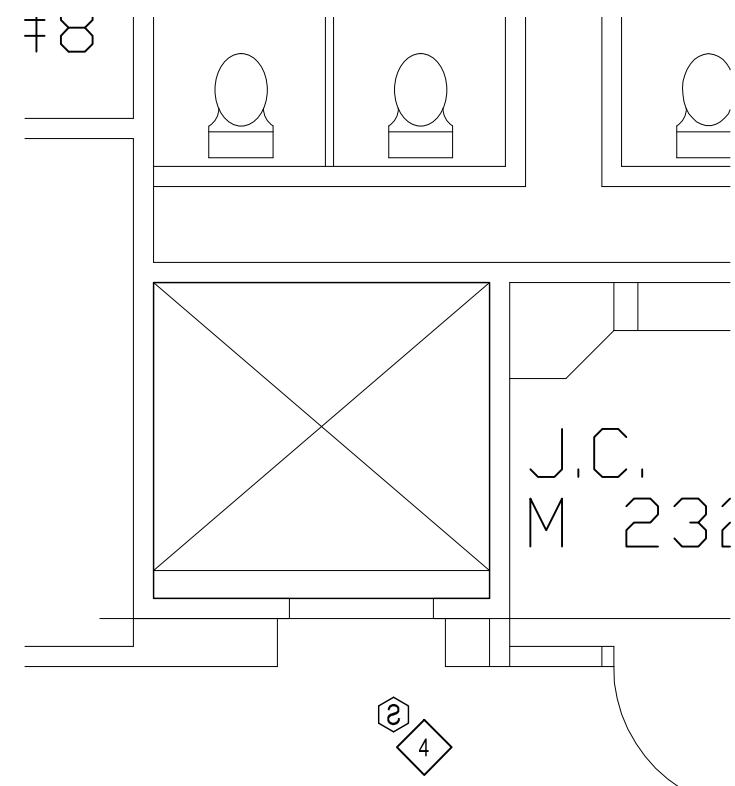
- ① NOT USED.
- ② NOT USED.
- ③ NOT USED.
- ④ EXISTING DEVICE TO REMAIN UNTIL NEW INSTALLATION IS COMPLETE. UPON COMPLETION, DISCONNECT & REMOVE EXISTING DEVICE.
- ⑤ NOT USED.



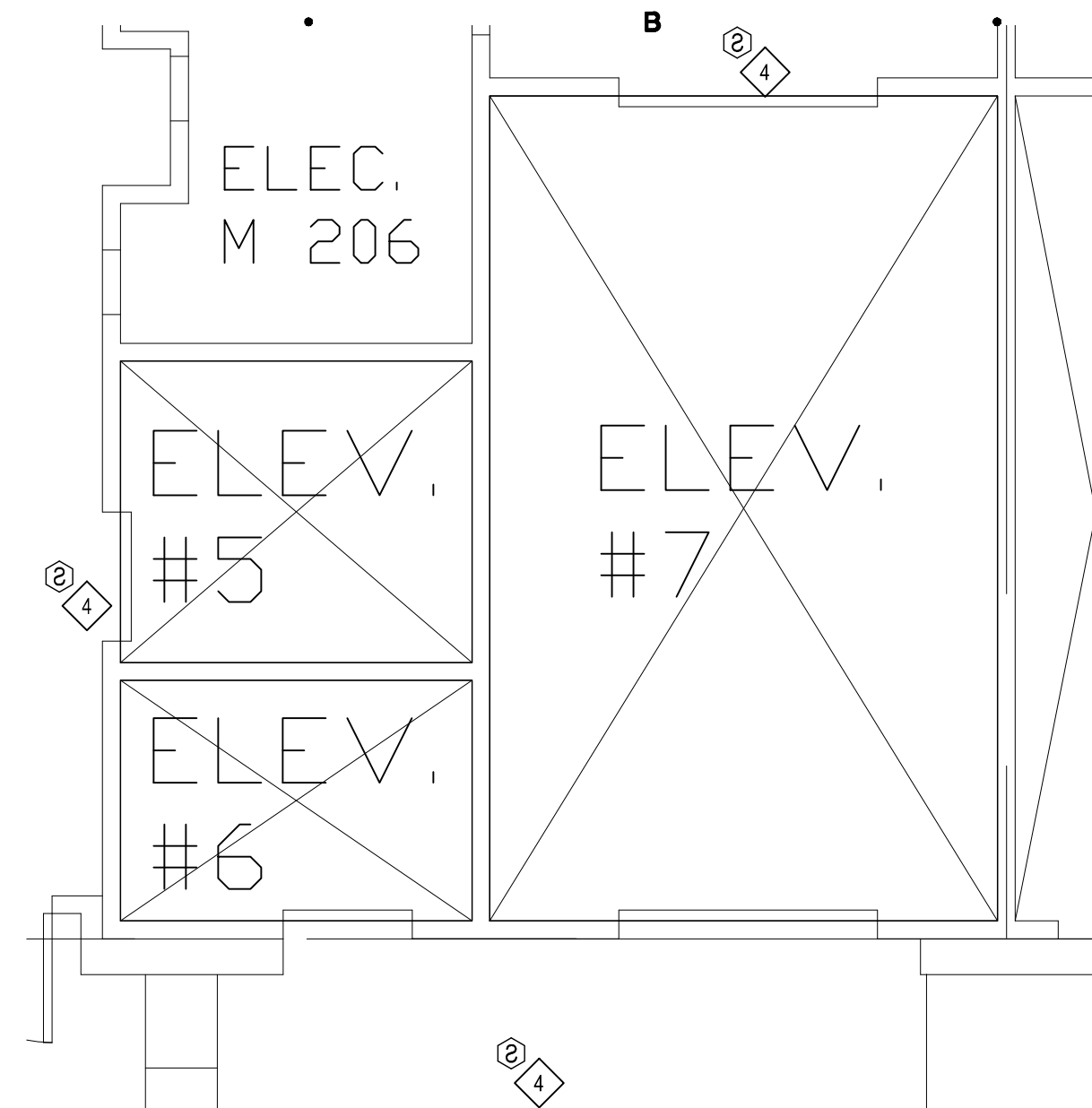
⑥ ELEVATOR 1  
 SCALE: 1/4" = 1'-0"



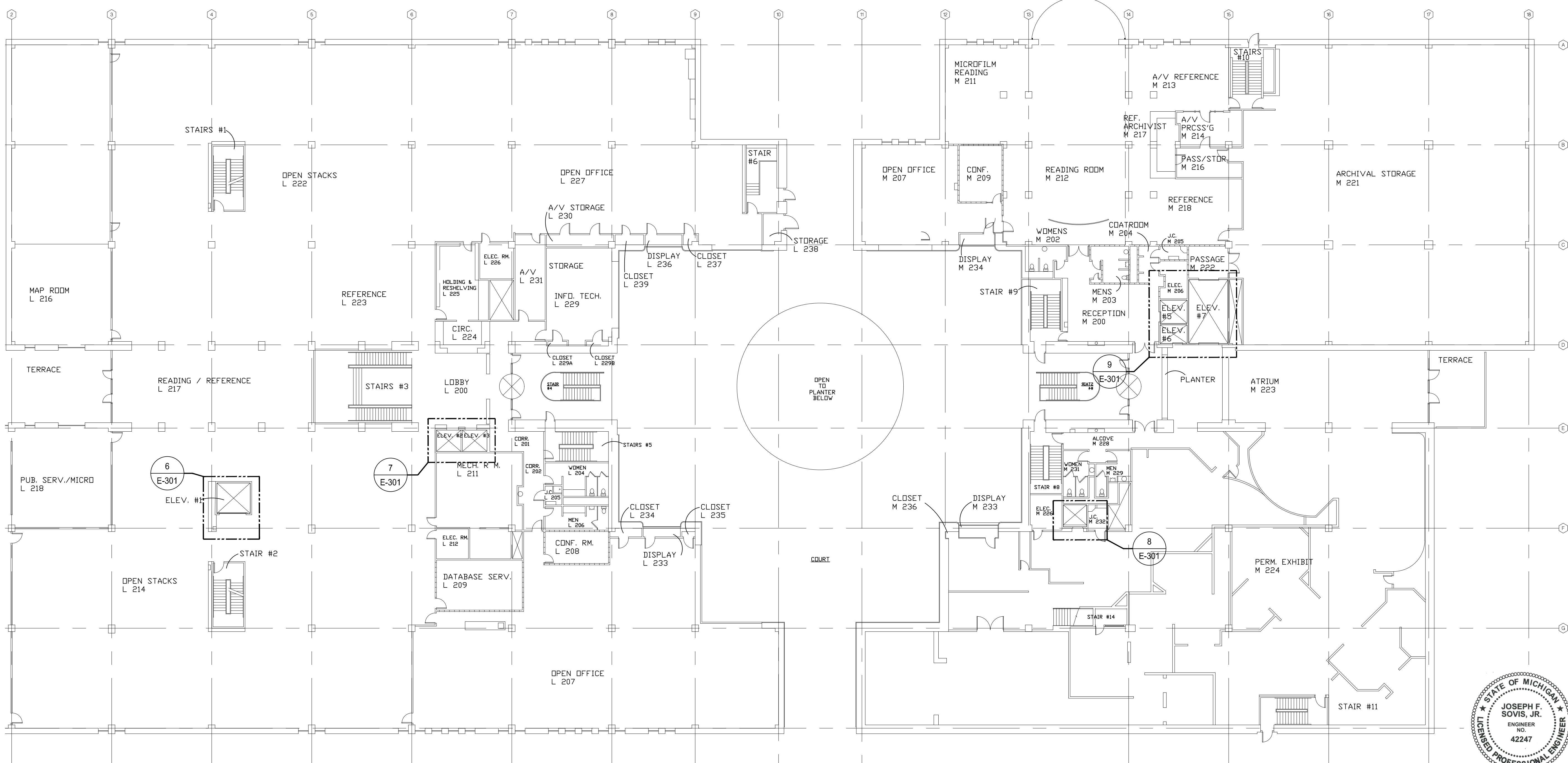
⑦ ELEVATOR 2 & 3  
 SCALE: 1/4" = 1'-0"



⑧ ELEVATOR 4  
 SCALE: 1/4" = 1'-0"



⑨ ELEVATOR 5, 6 & 7  
 SCALE: 1/4" = 1'-0"



ELECTRICAL - SECOND FLOOR - DEMOLITION  
 SCALE: 1/16" = 1'-0"

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ELECTRICAL  
 SECOND FLOOR  
 DEMOLITION

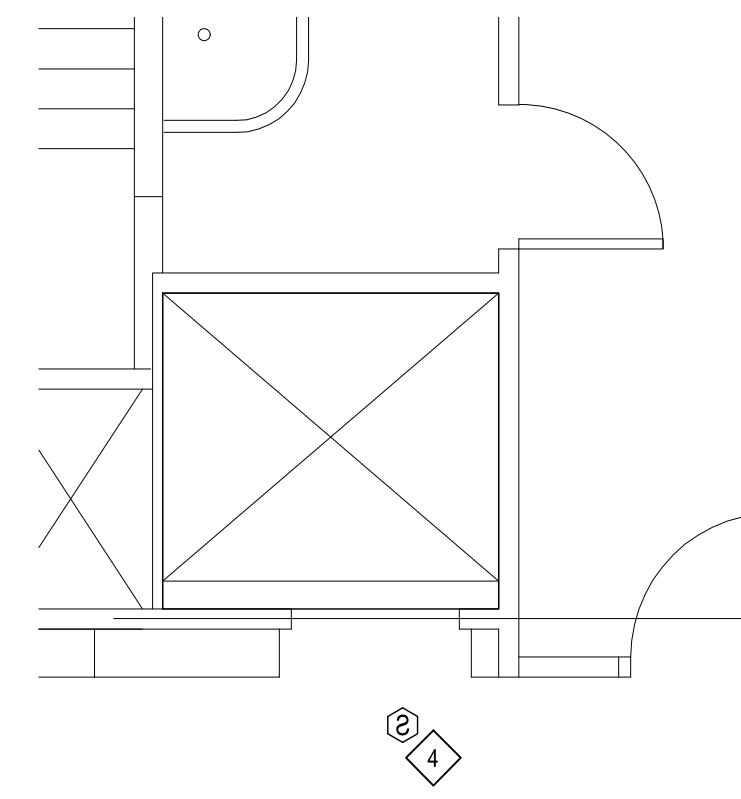
SHEET TITLE

21-302  
 PROJECT NUMBER

E-301  
 SHEET NUMBER

**DEMOLITION NOTES**

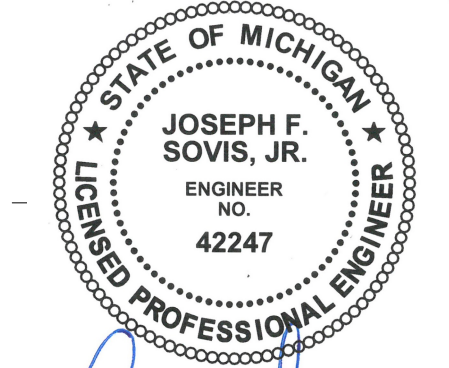
- 1 NOT USED.
- 2 NOT USED.
- 3 NOT USED.
- 4 EXISTING DEVICE TO REMAIN UNTIL NEW INSTALLATION IS COMPLETE. UPON COMPLETION, DISCONNECT & REMOVE EXISTING DEVICE.
- 5 NOT USED.



**10 ELEVATOR 4**  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL - SECOND FLOOR MEZZANINE - DEMOLITION**  
 SCALE: 1/16" = 1'-0"



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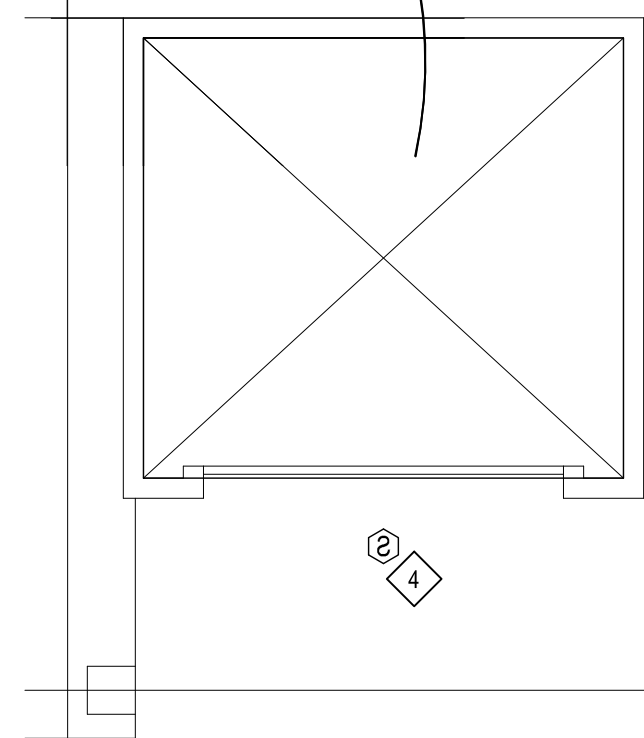
**ELECTRICAL SECOND FLOOR MEZZ - DEMO**

SHEET TITLE  
 21-302  
 PROJECT NUMBER  
 E-302  
 SHEET NUMBER

**DEMOLITION NOTES**

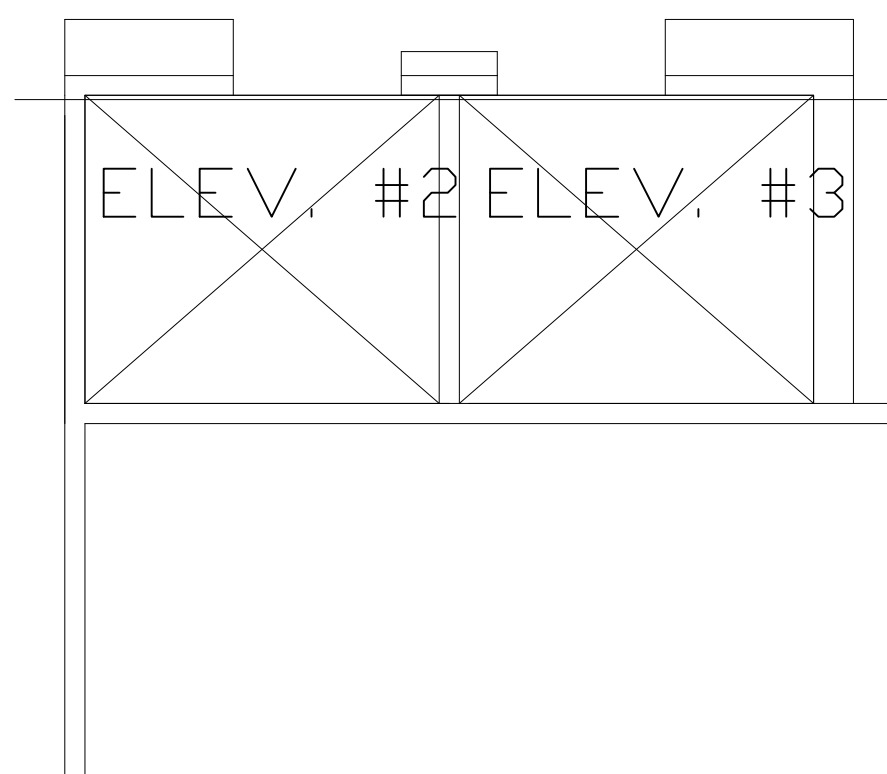
- ① NOT USED.
- ② NOT USED.
- ③ NOT USED.
- ④ EXISTING DEVICE TO REMAIN UNTIL NEW INSTALLATION IS COMPLETE. UPON COMPLETION, DISCONNECT & REMOVE EXISTING DEVICE.
- ⑤ NOT USED.

ELEV. #1



11 ELEVATOR 1  
 SCALE: 1/4" = 1'-0"

ELEV. #2 ELEV. #3



12 ELEVATOR 2 & 3  
 SCALE: 1/4" = 1'-0"

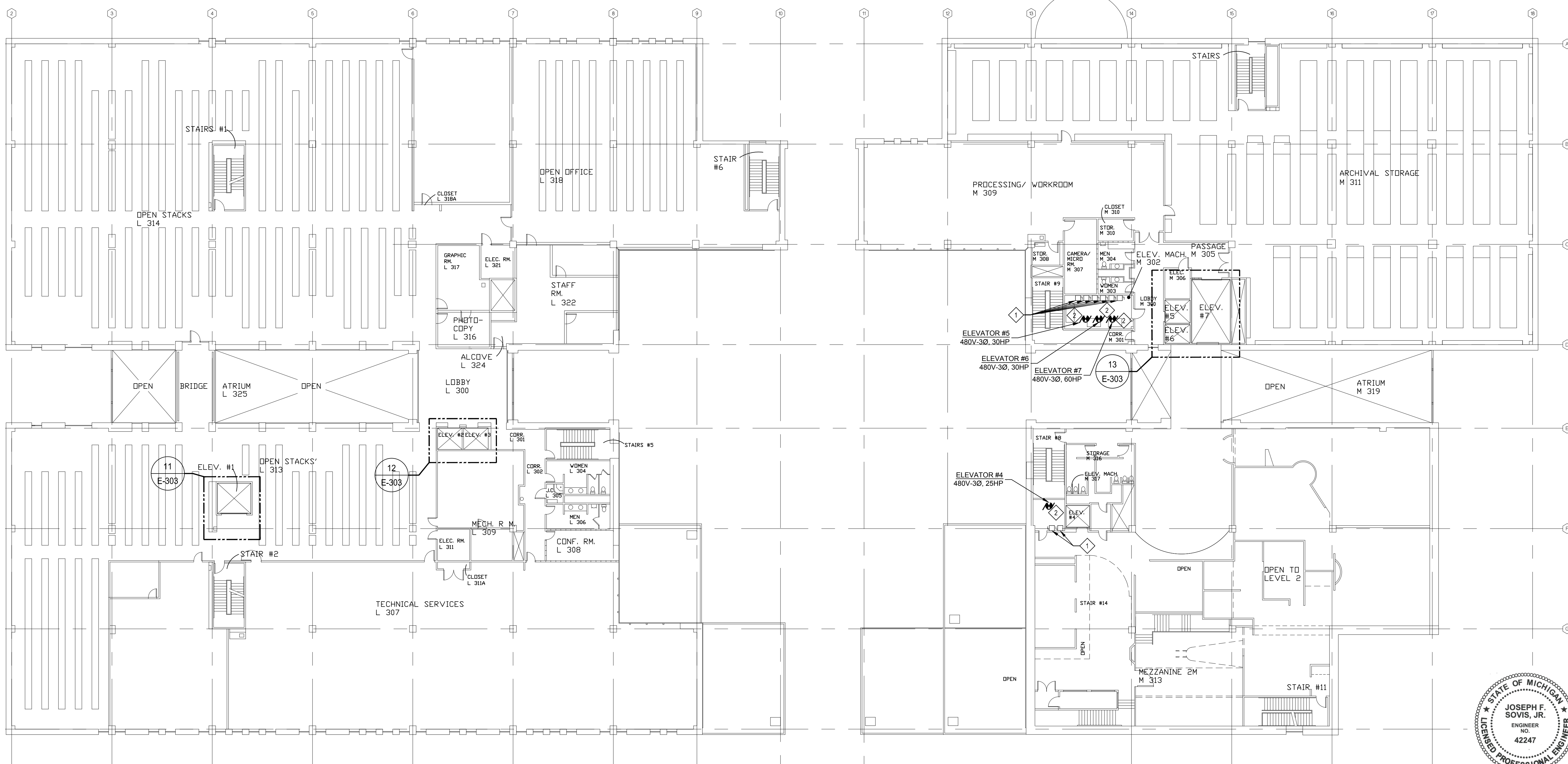
ELEC. M 306

ELEV. #5

ELEV. #7

ELEV. #6

13 ELEVATOR 5, 6 & 7  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL - THIRD FLOOR - DEMOLITION**  
 SCALE: 1/16" = 1'-0"

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**ELECTRICAL THIRD FLOOR DEMOLITION**

SHEET TITLE

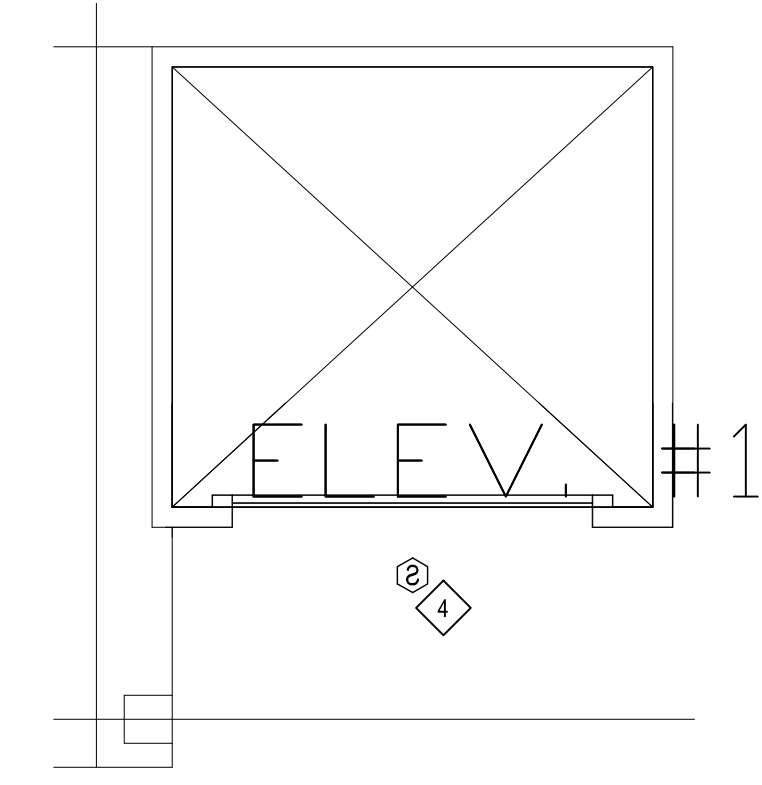
21-302  
 PROJECT NUMBER

E-303  
 SHEET NUMBER

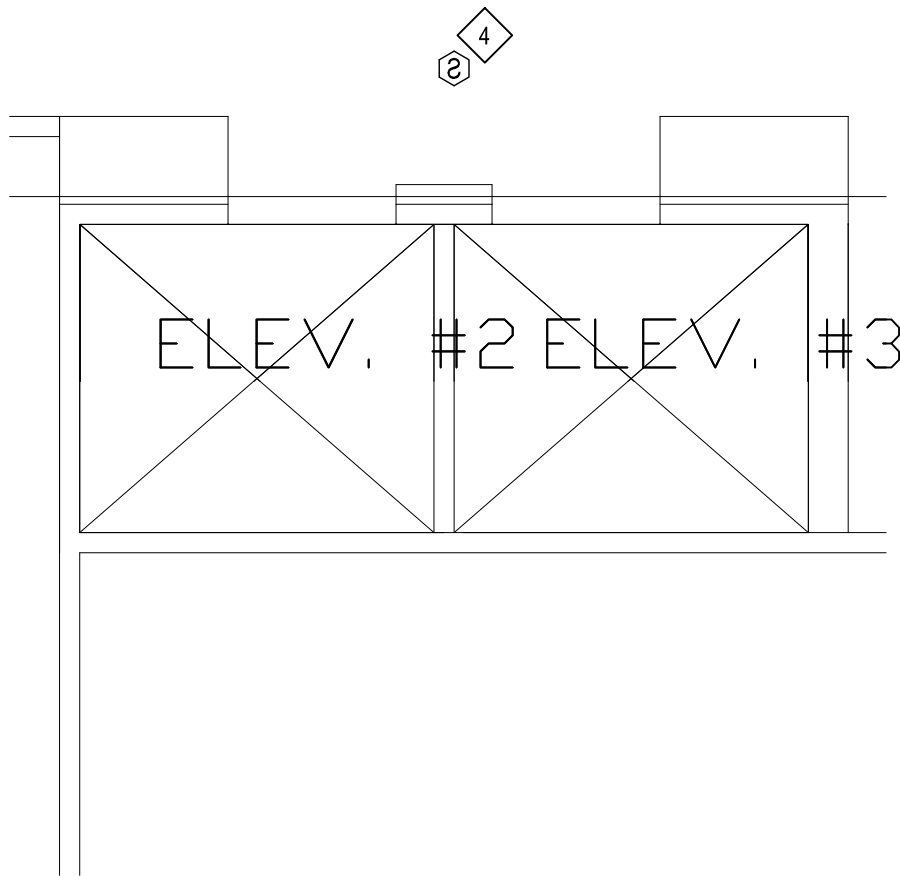


**DEMOLITION NOTES**

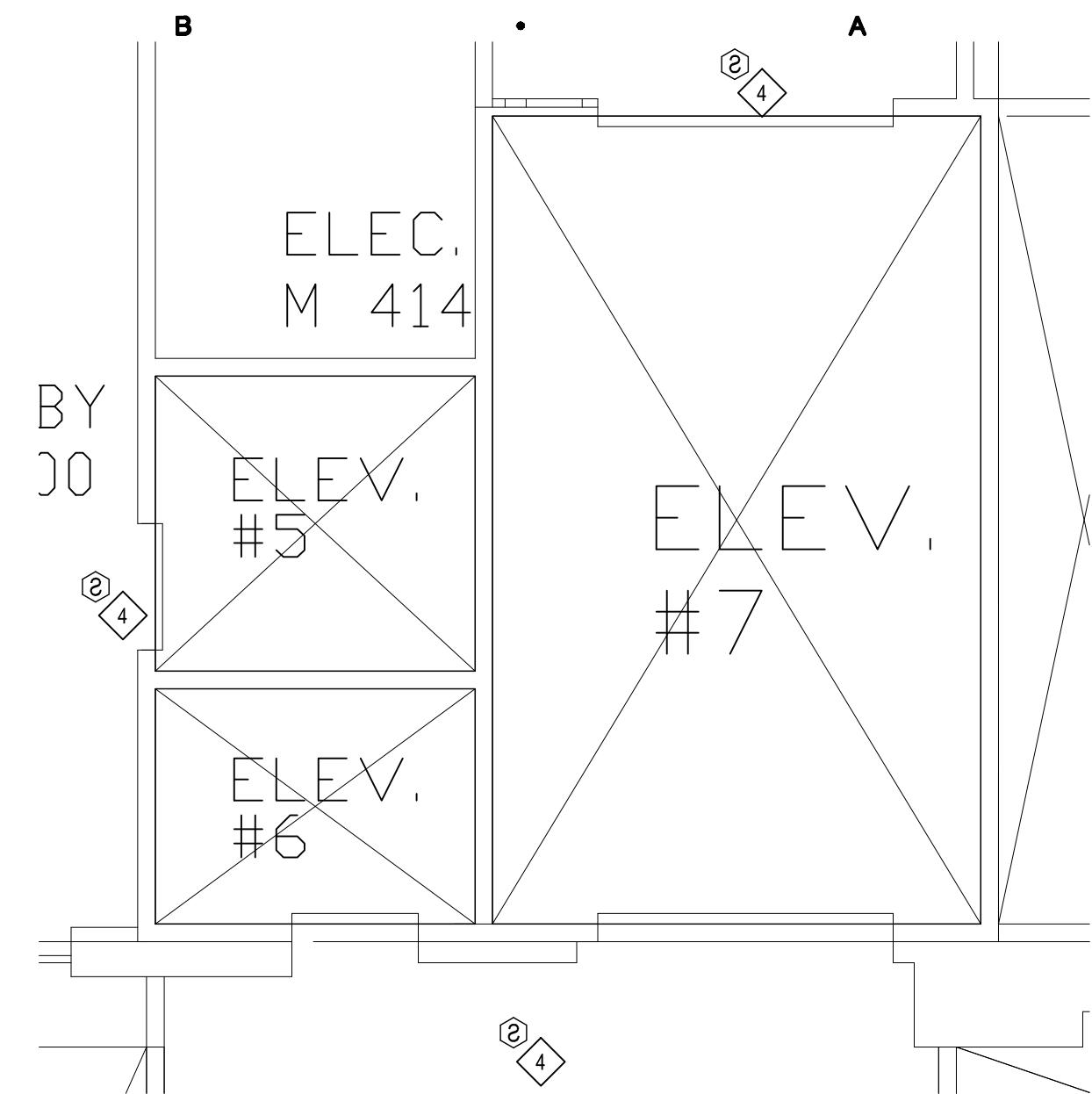
- 1 NOT USED.
- 2 NOT USED.
- 3 NOT USED.
- 4 EXISTING DEVICE TO REMAIN UNTIL NEW INSTALLATION IS COMPLETE. UPON COMPLETION, DISCONNECT & REMOVE EXISTING DEVICE.
- 5 NOT USED.



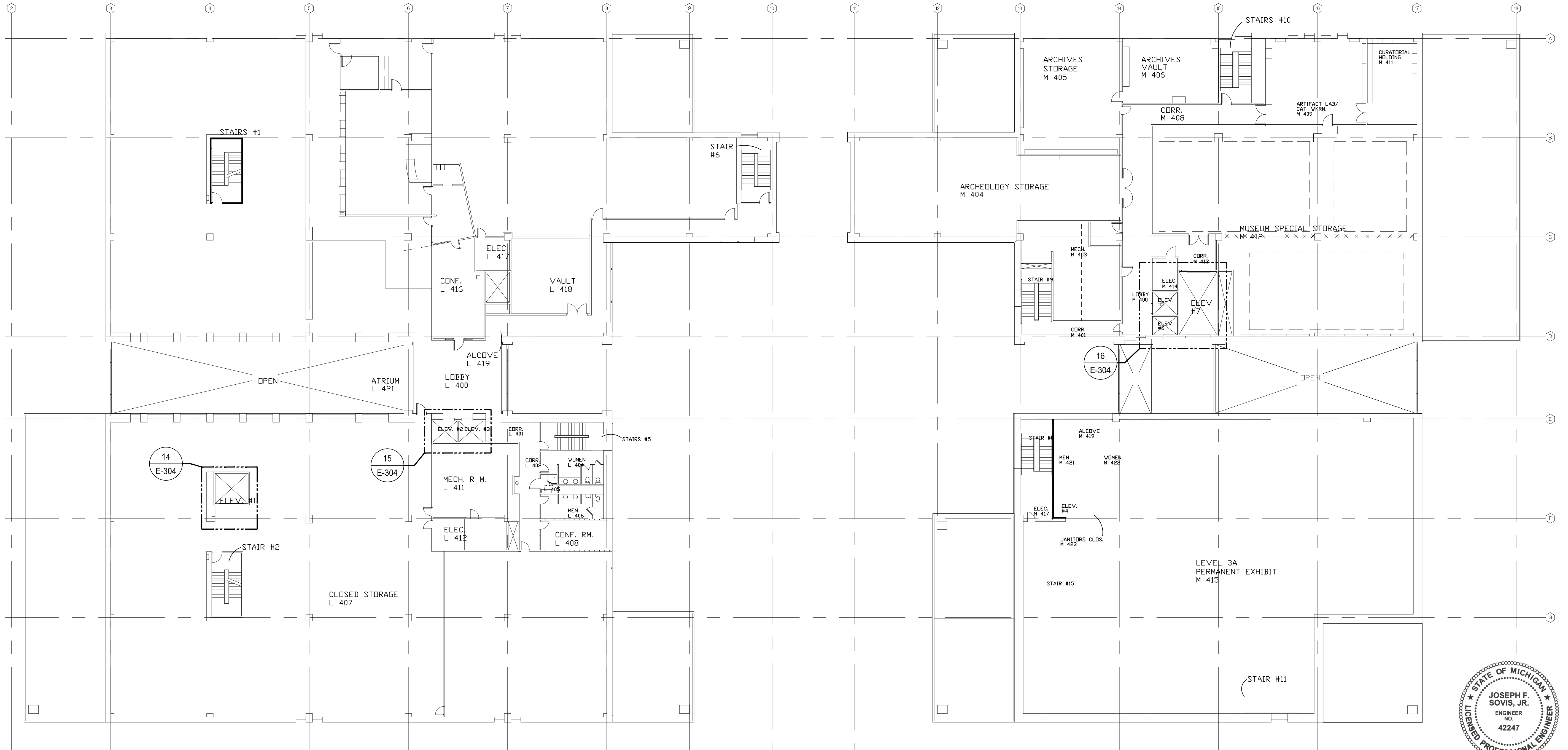
14 ELEVATOR 1  
SCALE: 1/4" = 1'-0"



15 ELEVATOR 2 & 3  
SCALE: 1/4" = 1'-0"



16 ELEVATOR 5, 6 & 7  
SCALE: 1/4" = 1'-0"



ELECTRICAL - FOURTH FLOOR - DEMOLITION  
SCALE: 1/16" = 1'-0"

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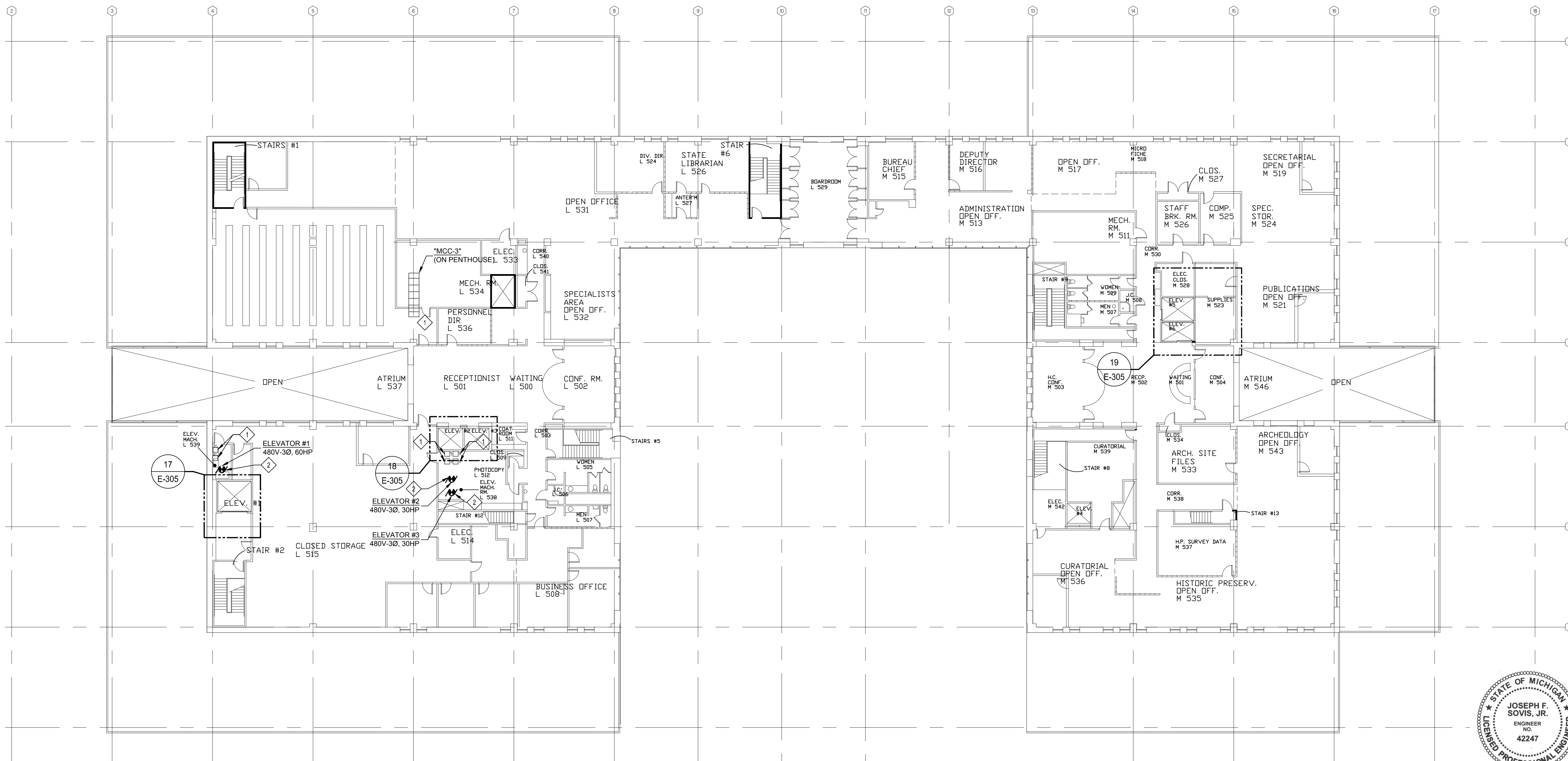
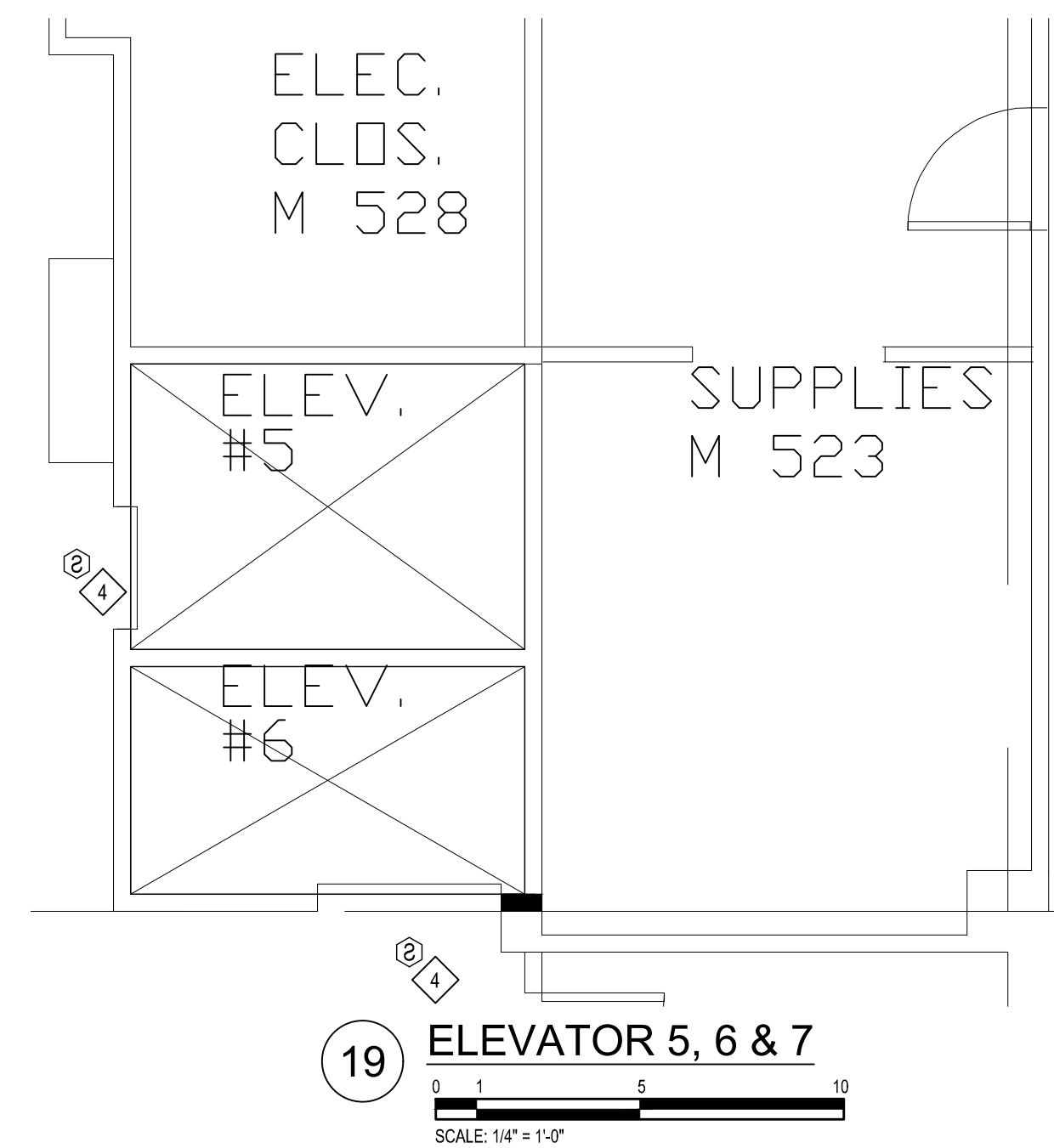
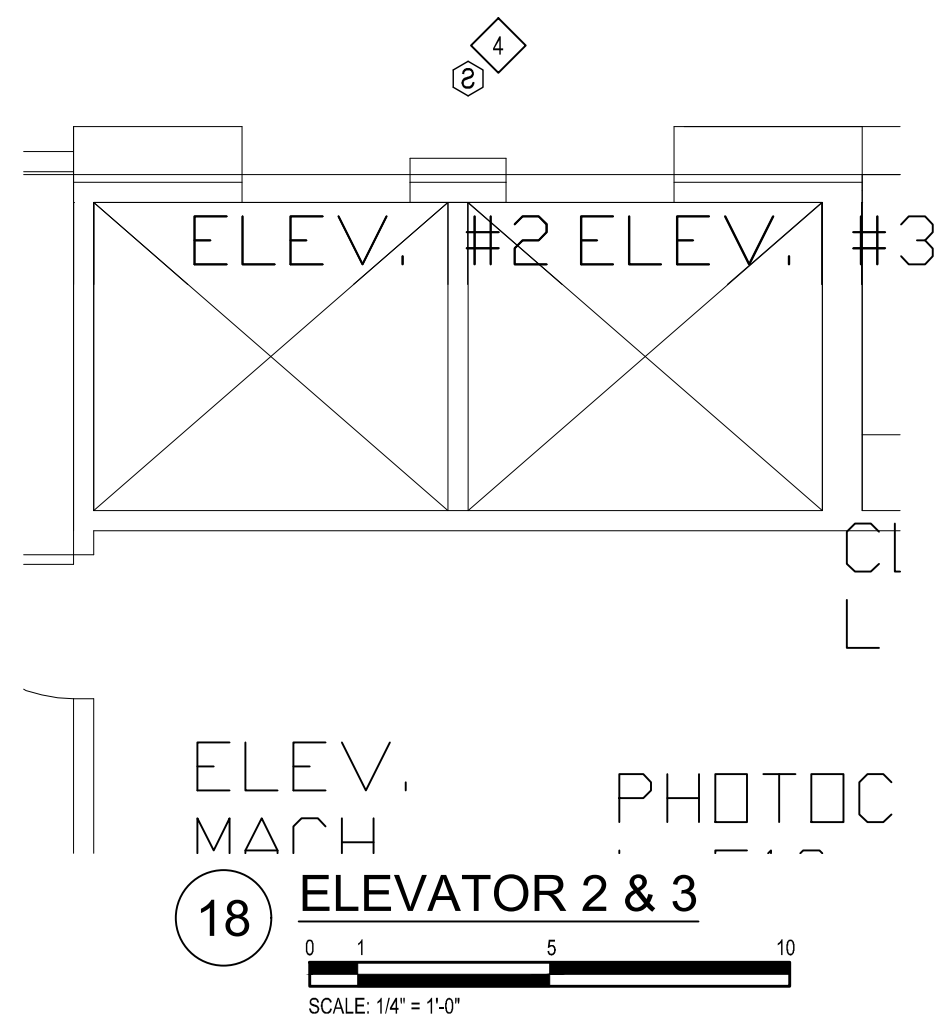
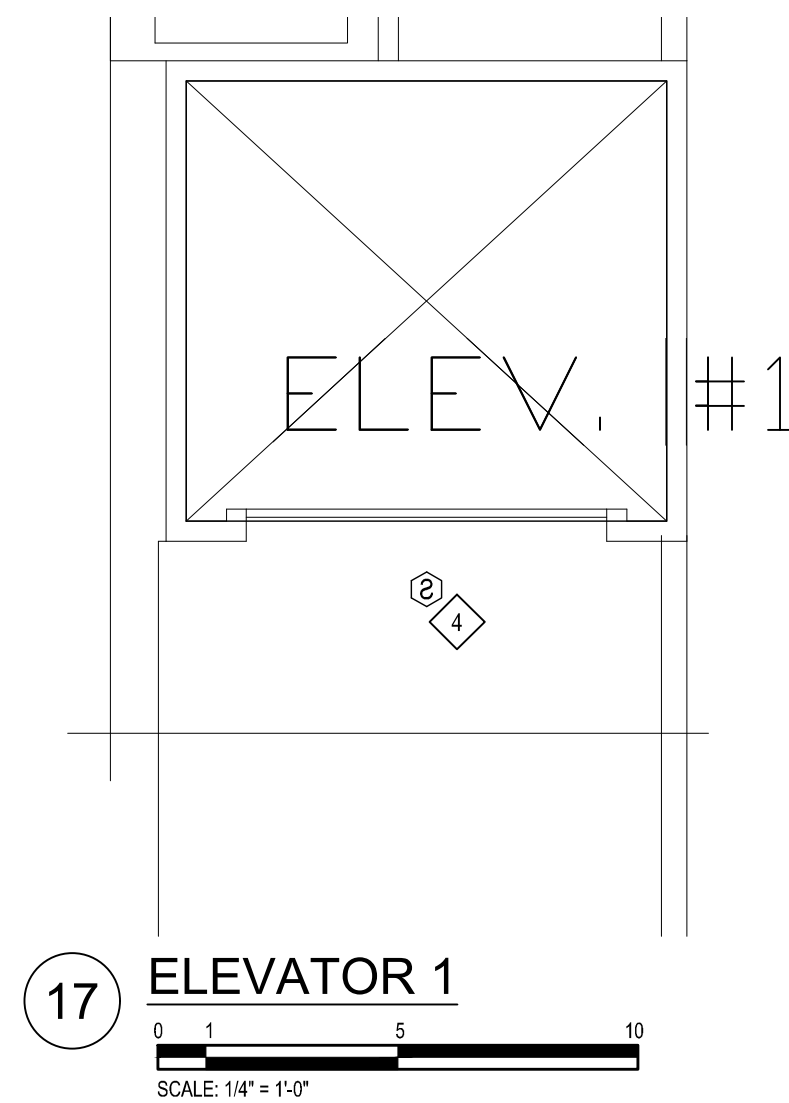
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Rapid MI 49507  
CONSULTANTS

ELECTRICAL FOURTH FLOOR DEMOLITION

SHEET TITLE  
21-302  
PROJECT NUMBER  
E-304  
SHEET NUMBER

**DEMOLITION NOTES**

- ① EXISTING EQUIPMENT TO REMAIN.
- ② NOT USED.
- ③ NOT USED.
- ④ EXISTING DEVICE TO REMAIN UNTIL NEW INSTALLATION IS COMPLETE. UPON COMPLETION, DISCONNECT & REMOVE EXISTING DEVICE.
- ⑤ NOT USED.



**ELECTRICAL - FIFTH FLOOR - DEMOLITION**  
 SCALE: 1/16" = 1'-0"

STATE OF MICHIGAN  
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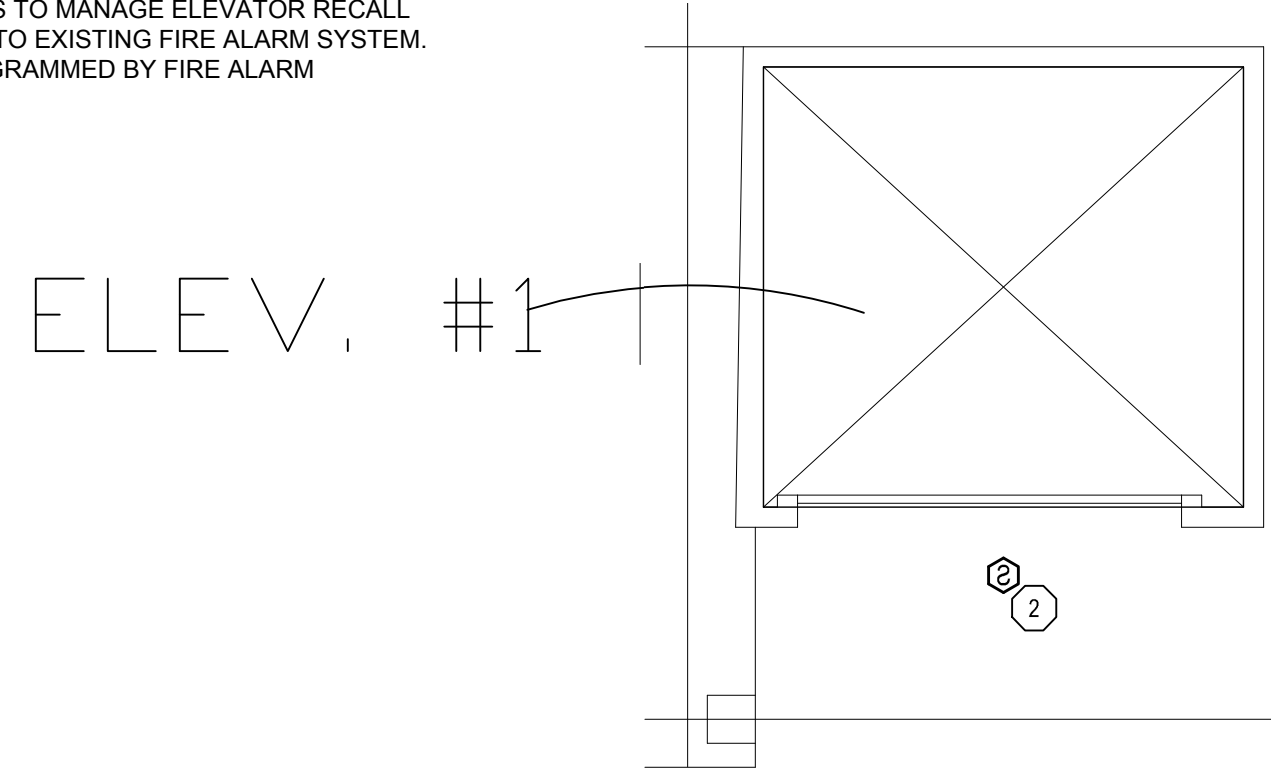
**ELECTRICAL FIFTH FLOOR DEMOLITION**

SHEET TITLE  
 21-302  
 PROJECT NUMBER  
 E-305  
 SHEET NUMBER

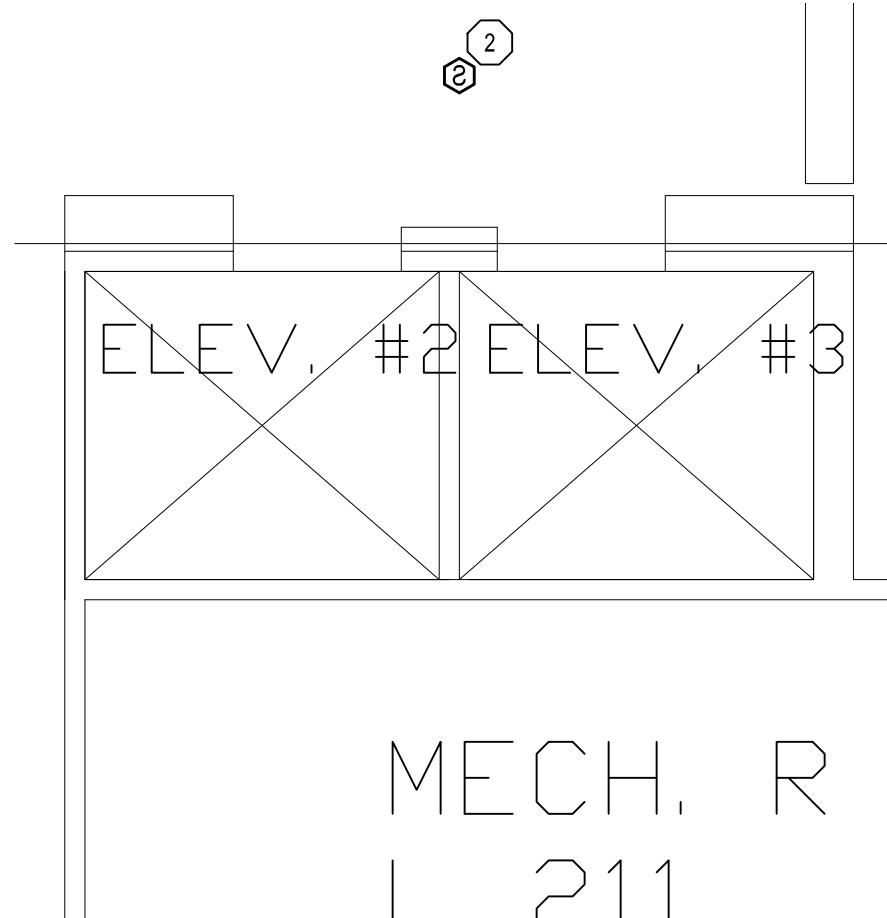


**ELECTRICAL KEY NOTES**

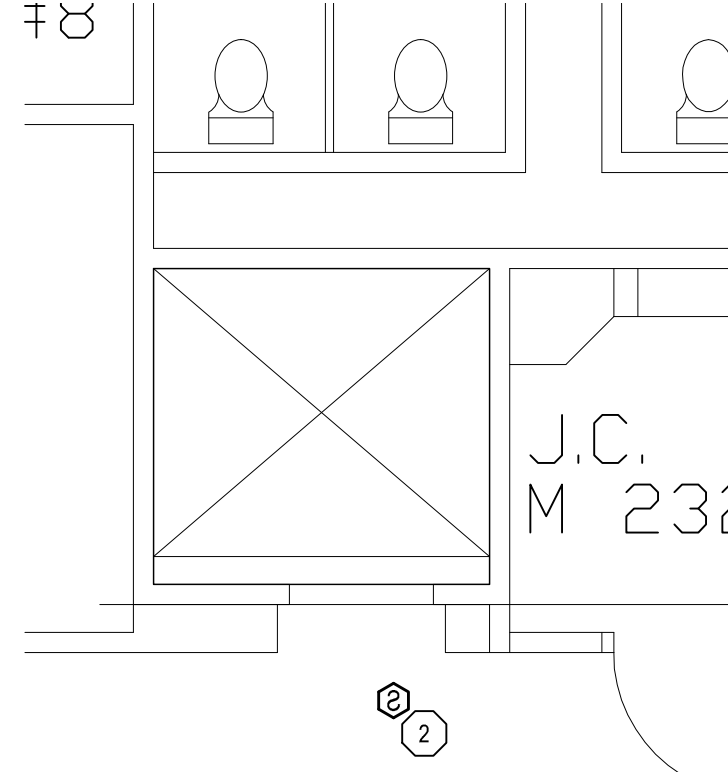
- ① NOT USED.
- ② NEW SMOKE DETECTOR SUPPLIED BY OWNER. CONTRACTOR SHALL INCLUDE RELAYS TO MANAGE ELEVATOR RECALL SYSTEM. TIE DEVICE INTO EXISTING FIRE ALARM SYSTEM. DEVICE SHALL BE PROGRAMMED BY FIRE ALARM MANUFACTURER.



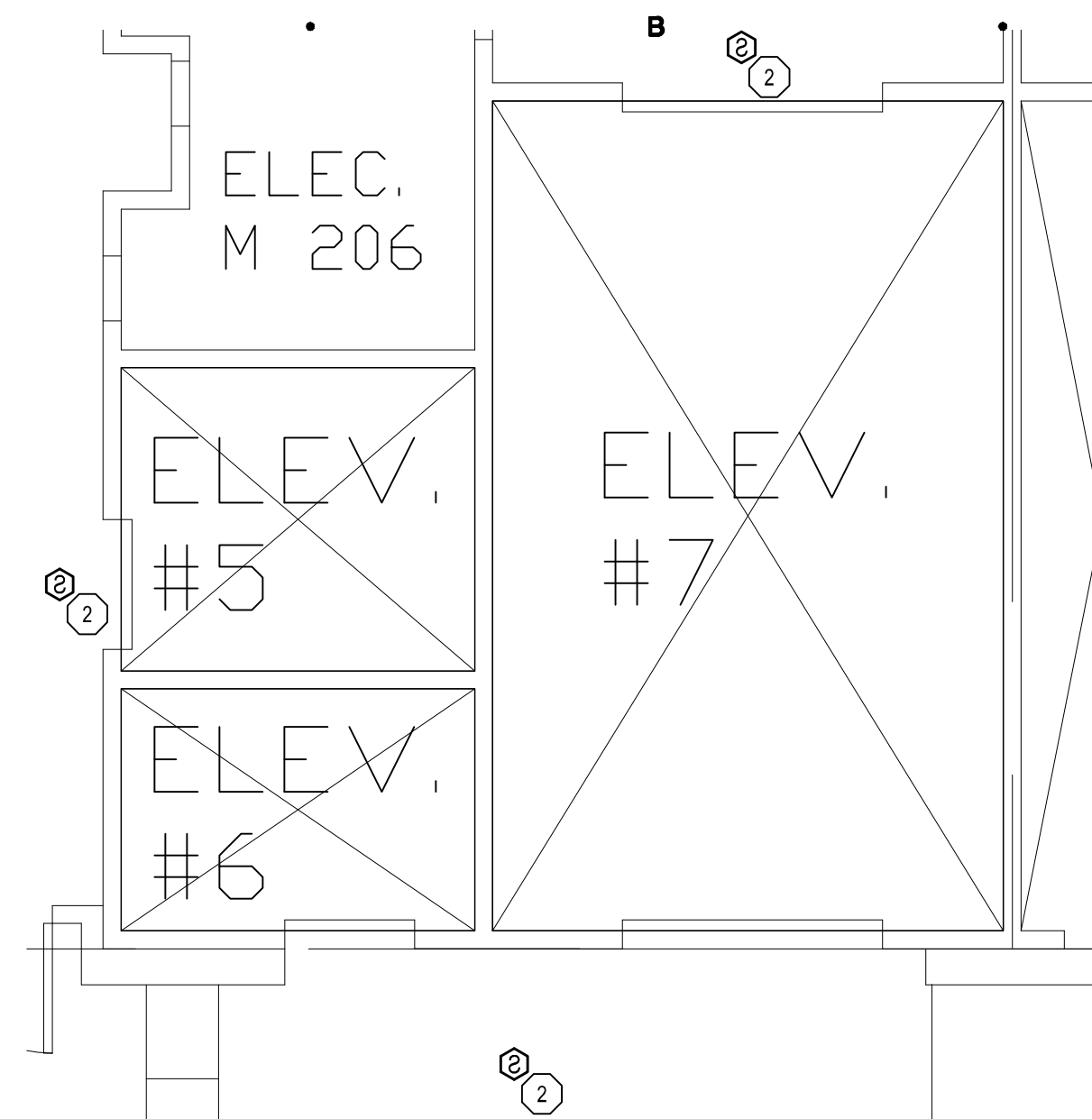
②5 ELEVATOR 1  
 SCALE: 1/4" = 1'-0"



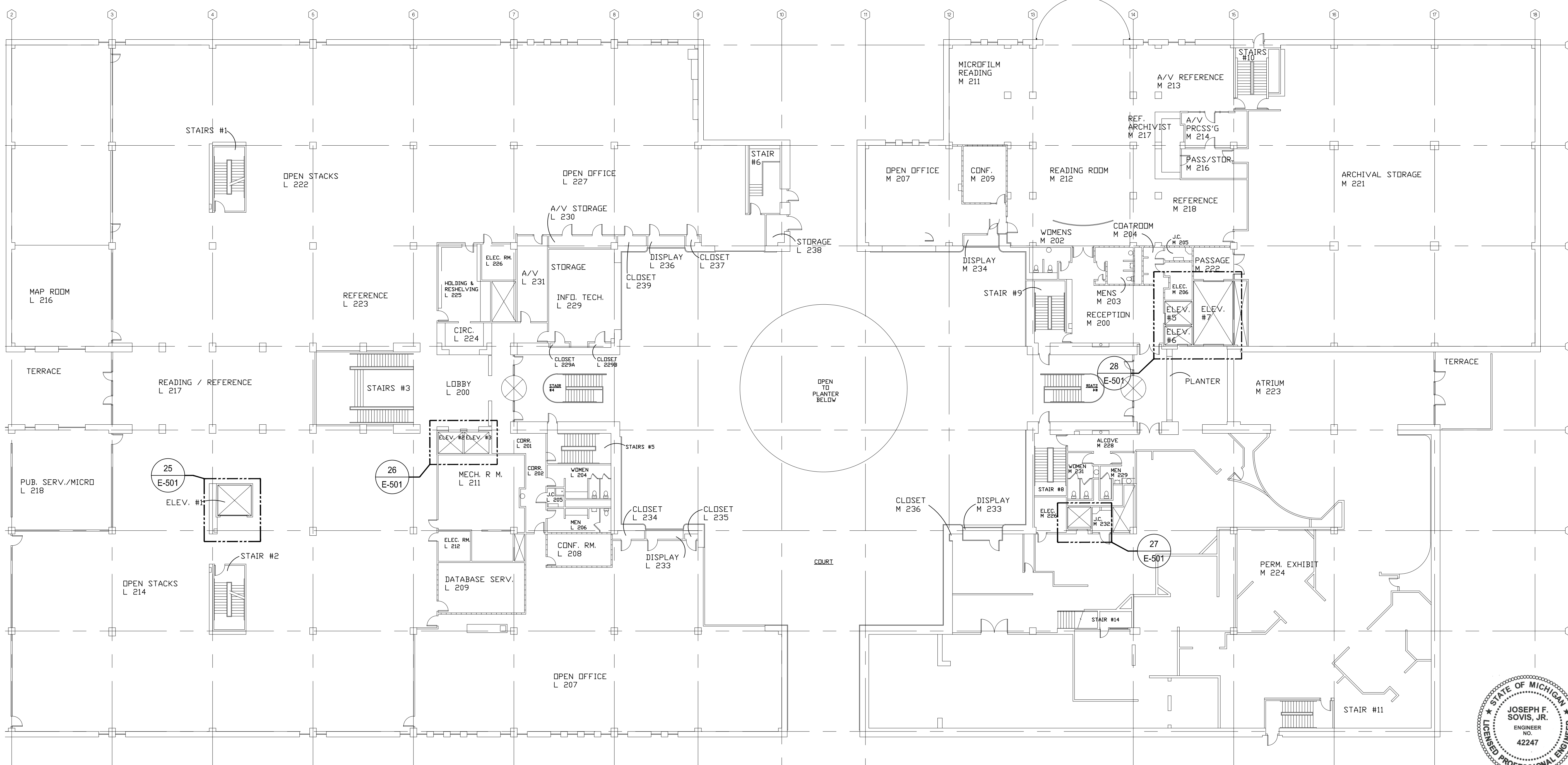
②6 ELEVATOR 2 & 3  
 SCALE: 1/4" = 1'-0"



②7 ELEVATOR 4  
 SCALE: 1/4" = 1'-0"



②8 ELEVATOR 5, 6 & 7  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL - SECOND FLOOR - POWER**  
 SCALE: 1/16" = 1'-0"

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**ELECTRICAL SECOND FLOOR POWER**

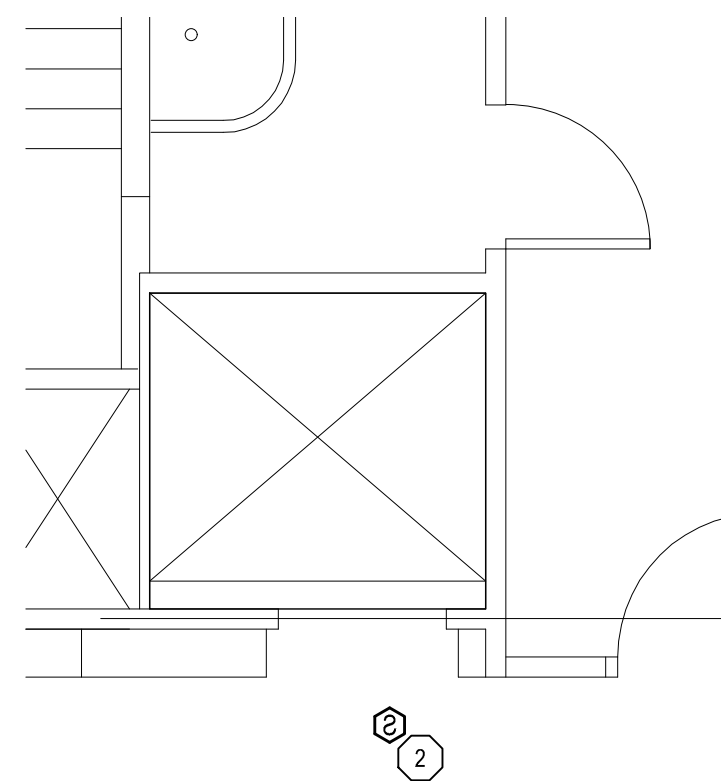
SHEET TITLE

21-302  
 PROJECT NUMBER

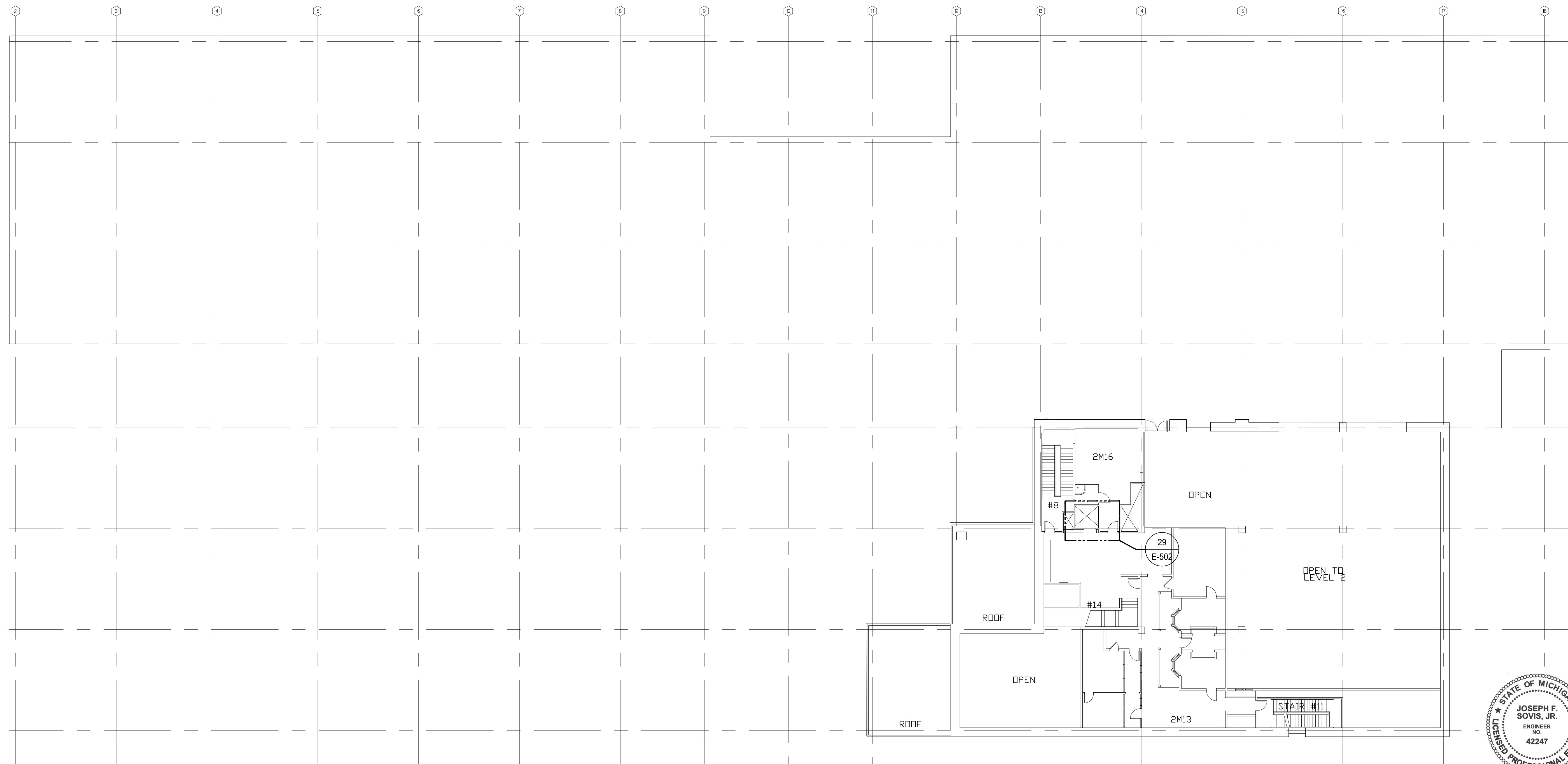
E-501  
 SHEET NUMBER

**ELECTRICAL KEY NOTES**

- ① NOT USED.
- ② NEW SMOKE DETECTOR SUPPLIED BY OWNER. CONTRACTOR SHALL INCLUDE RELAYS TO MANAGE ELEVATOR RECALL SYSTEM. TIE DEVICE INTO EXISTING FIRE ALARM SYSTEM. DEVICE SHALL BE PROGRAMMED BY FIRE ALARM MANUFACTURER.



29 ELEVATOR 4  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL - SECOND FLOOR MEZZANINE - POWER**  
 SCALE: 1/16" = 1'-0"

STATE OF MICHIGAN  
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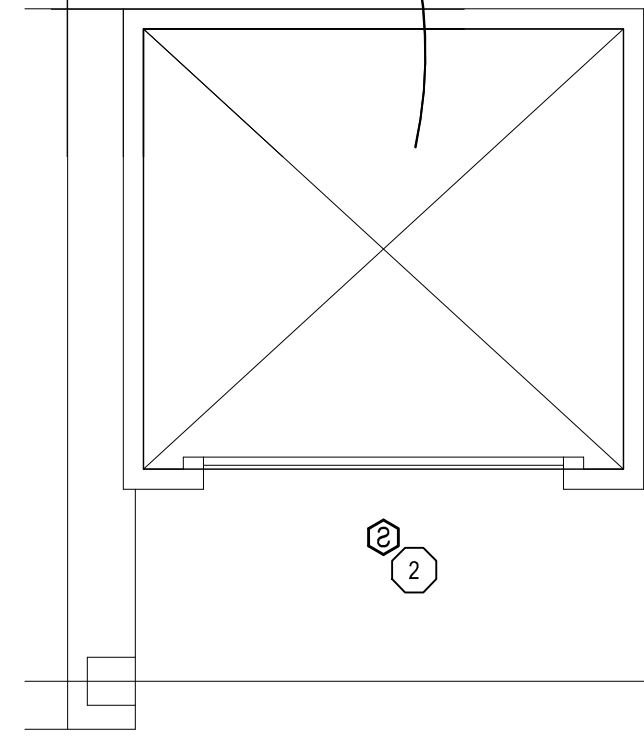
**ELECTRICAL  
 SECOND FLOOR  
 MEZZ - POWER**

SHEET TITLE  
 21-302  
 PROJECT NUMBER  
**E-502**  
 SHEET NUMBER

**ELECTRICAL KEY NOTES**

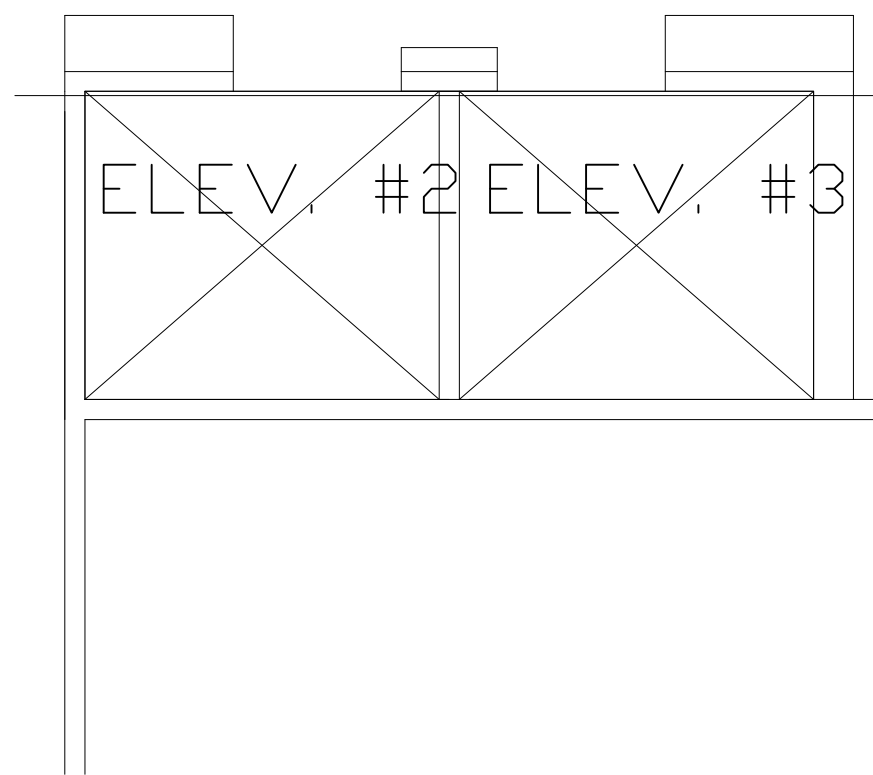
- ① NOT USED.
- ② NEW SMOKE DETECTOR SUPPLIED BY OWNER. CONTRACTOR SHALL INCLUDE RELAYS TO MANAGE ELEVATOR RECALL SYSTEM. THE DEVICE INTO EXISTING FIRE ALARM SYSTEM. DEVICE SHALL BE PROGRAMMED BY FIRE ALARM MANUFACTURER.

ELEV. #1



30 ELEVATOR 1  
 SCALE: 1/4" = 1'-0"

ELEV. #2 ELEV. #3



31 ELEVATOR 2 & 3  
 SCALE: 1/4" = 1'-0"

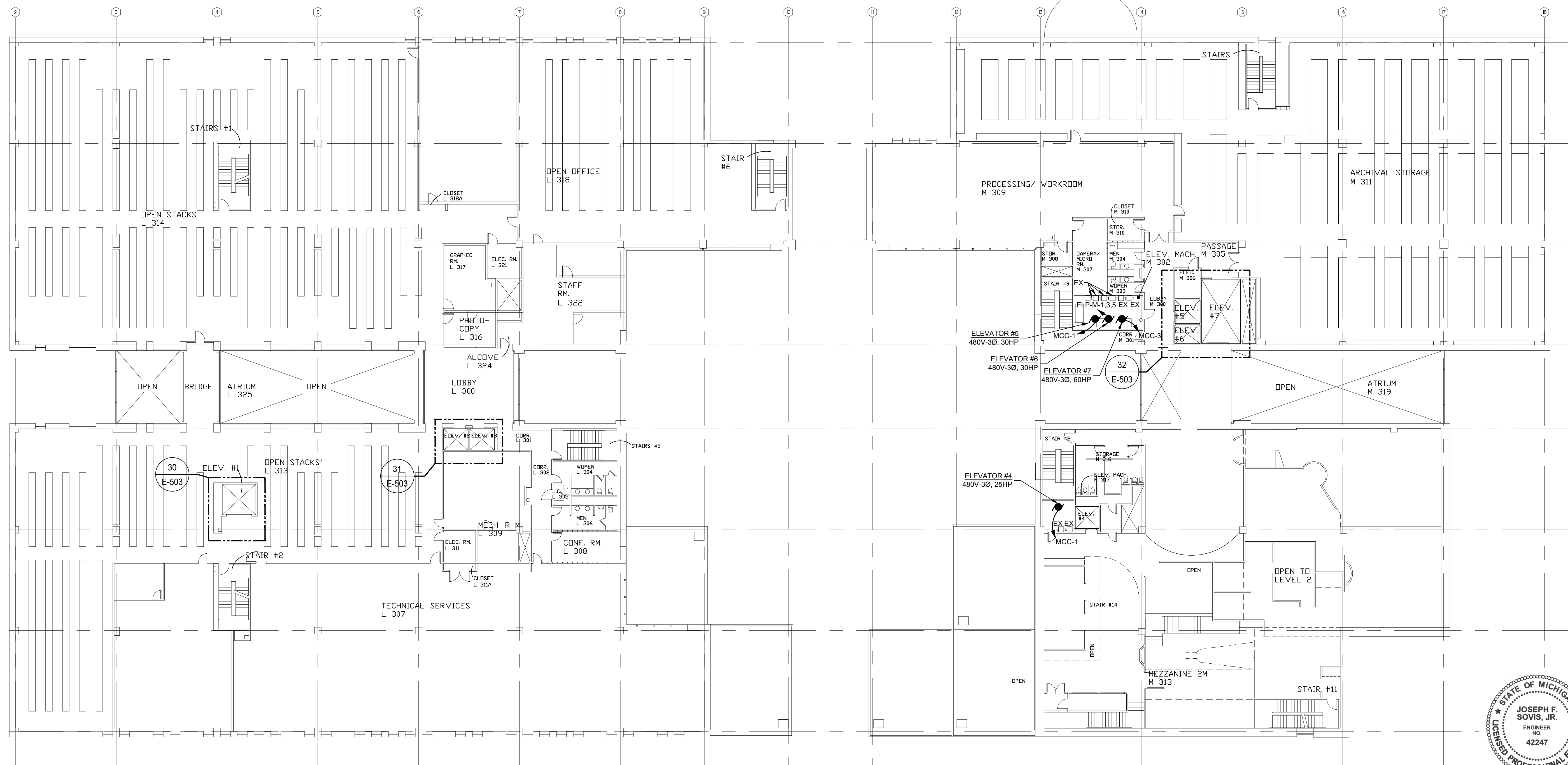
ELEC. M 306

ELEV. #5

ELEV. #7

ELEV. #6

32 ELEVATOR 5, 6 & 7  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL - THIRD FLOOR - POWER**  
 SCALE: 1/16" = 1'-0"

STATE OF MICHIGAN  
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 LICENSED PROFESSIONAL ENGINEER

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**ELECTRICAL  
 THIRD FLOOR  
 POWER**

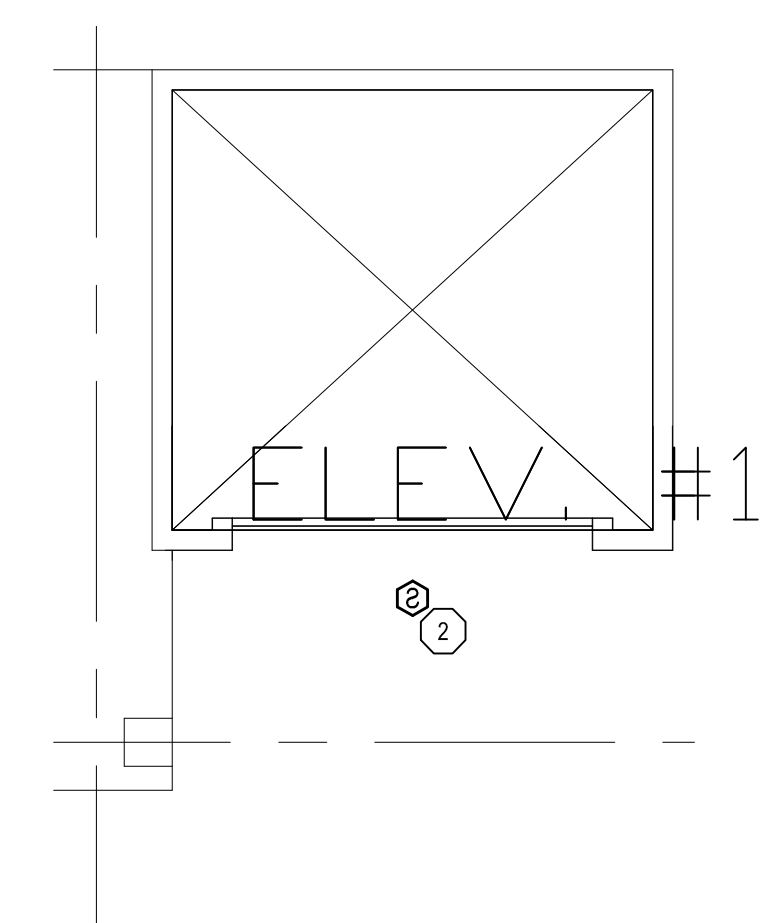
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21-302  
 PROJECT NUMBER

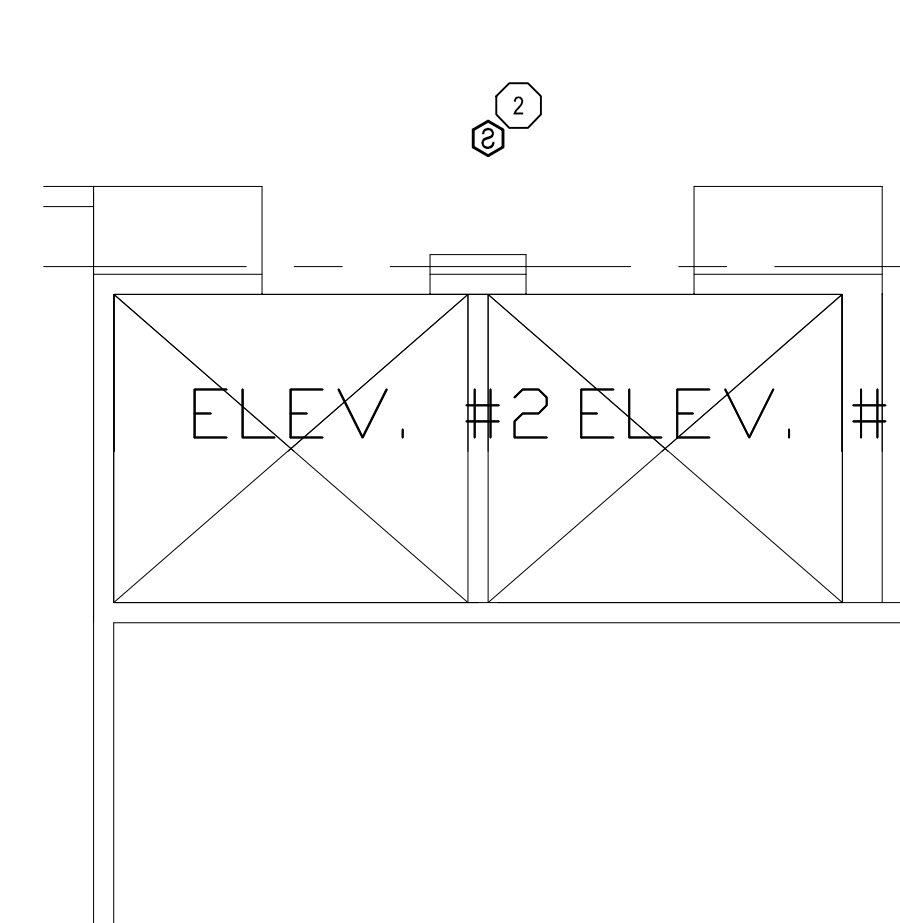
E-503  
 SHEET NUMBER

**ELECTRICAL KEY NOTES**

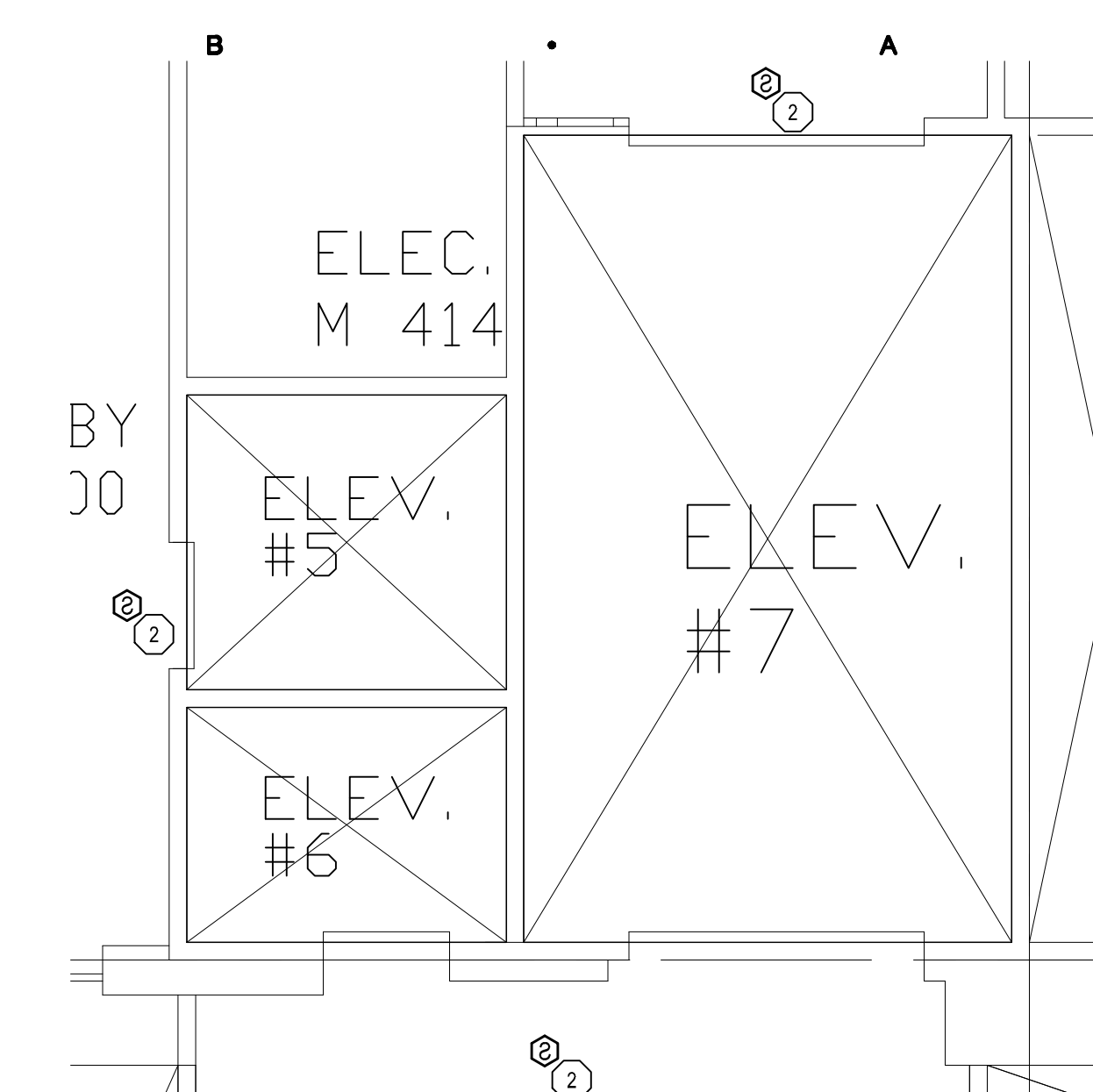
- ① NOT USED.
- ② NEW SMOKE DETECTOR SUPPLIED BY OWNER. CONTRACTOR SHALL INCLUDE RELAYS TO MANAGE ELEVATOR RECALL SYSTEM. TIE DEVICE INTO EXISTING FIRE ALARM SYSTEM. DEVICE SHALL BE PROGRAMMED BY FIRE ALARM MANUFACTURER.



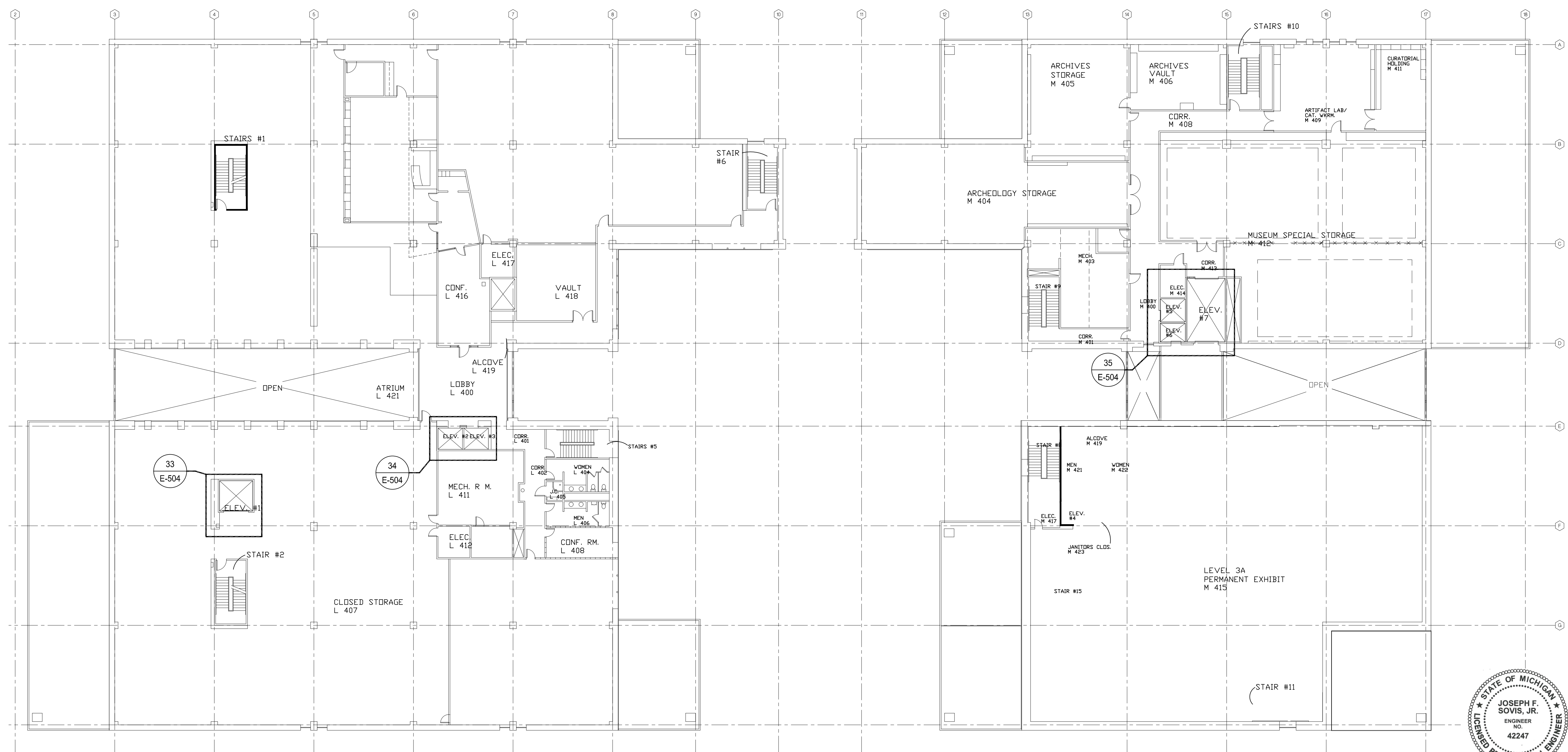
33 ELEVATOR 1  
 SCALE: 1/4" = 1'-0"



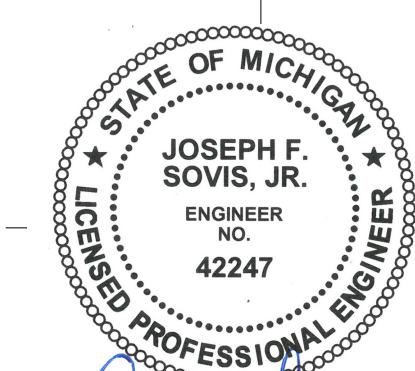
34 ELEVATOR 2 & 3  
 SCALE: 1/4" = 1'-0"



35 ELEVATOR 5, 6 & 7  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL - FOURTH FLOOR - POWER**  
 SCALE: 1/16" = 1'-0"



*Joseph F. Sovis, Jr.*

ISSUED FOR BIDDING 09/16/2021  
 DATE ISSUED  
 BTT  
 DRAWN BY  
 JSF  
 CHECKED BY

**HOBBS + BLACK ARCHITECTS**  
 117 E. Allegan Street  
 Lansing, MI 48933  
 P: 517.464.4670  
 www.hobbs-black.com

File No: 171/20106.TYC



LIBRARY OF MICHIGAN AND HISTORICAL CENTER, UPGRADE ELEVATOR CONTROLS  
 702 WEST KALAMAZOO St.  
 LANSING, MI 48915  
 PROJECT

**MATRIX** CONSULTING ENGINEERS, INC.  
 1601 E César E. Chávez Ave  
 Lansing, MI 48906

**LERCH BATES**  
 950 Boston Street SE Grand  
 Rapids MI 49507  
 CONSULTANTS

**ELECTRICAL FOURTH FLOOR POWER**

SHEET TITLE

21-302  
 PROJECT NUMBER

E-504  
 SHEET NUMBER





### EXISTING PANEL "RP-L6C"

VOLTS: 208 / 120 PHASE: 3 WIRE: 4 AMPS: 225 MAIN: MLO

BRKR	DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BRKR
		VA	NO	A	B	C	NO	VA		
20 1	EXIST ELEC RM 146 RECEP		1	0			2		EXIST UH ROOM 146	20 1
20 1	EXIST JACE PANEL		3		0		4		EXIST EX FAN RM 146 #3	20 1
20 1	EXIST TAPE EQUIP RECEPT		5			0	6		EXIST EX FAN RM 146 #13	20 1
20 1	EXIST RECEP RM 145, 155		7	0			8		SPARE	30 3
20 1	EXIST RECEPT RM 145,155,STR		9		0		10		-	-
20 2	EXIST WHITEFISH RECEPT		11			0	12		-	-
-	-		13	0			14		EXIST FLOOR RECEP RM 135	20 1
20 1	SPARE		15		0		16		EXIST L218 FLOOR RECEPT	20 1
20 1	EXIST TRANE 24 POWER		17			0	18		SPARE	20 1
20 1	EXIST CUH, UH, MICROWAVE		19	0			20		EXIST L218 FLOOR RECEPT	20 1
20 1	EXIST RECEP RM 158, 165		21		0		22		EXIST COPIER MACHINE	20 2
20 1	EXIST RECEPT RM 141,145,158		23			0	24		-	-
20 1	EXIST RECEPT RM 148,149,157		25	0			26		EXIST FLOOR RECEP RM 145	20 1
20 1	EXIST RECEPT RM 149,150,COR		27		0		28		EXIST FLOOR RECEP RM 145	20 1
20 1	EXIST RECEPT RM 147,150,COR		29			0	30		EXIST RESTROOM RECEPT	20 1
20 1	EXIST RECEP RM 159, 161		31	0			32		EXIST FLOOR RECEP RM 158	20 1
20 1	SPARE		33		0		34		EXIST FLOOR RECEP RM 158	20 1
20 2	EXIST WHITEFISH RECEPT		35			0	36		EXIST FLOOR RECEP RM 158	20 1
-	-		37	0			38		EXIST FLOOR RECEP RM 158	20 1
20 1	EXIST EX FAN RM 148 #14		39		0		40		EXIST FLOOR RECEP RM 158	20 1
20 1	EXIST EX FAN RM 148 #15		41			0	42		EXIST RECEPT RM 146	20 1
		CONNECTED		0	0	0	TOTAL CONNECTED LOAD		0	VOLT-AMPS
		TOTAL CONNECTED		0					0.00 AMPS	

### REVISED PANEL "RP-L6C"

VOLTS: 208 / 120 PHASE: 3 WIRE: 4 AMPS: 225 MAIN: MLO

BRKR	DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BRKR
		VA	NO	A	B	C	NO	VA		
20 1	EXIST ELEC RM 146 RECEP		1	0			2		EXIST UH ROOM 146	20 1
20 1	EXIST JACE PANEL		3		0		4		EXIST EX FAN RM 146 #3	20 1
20 1	EXIST TAPE EQUIP RECEPT		5			0	6		EXIST EX FAN RM 146 #13	20 1
20 1	EXIST RECEP RM 145, 155		7	0			8		SPARE	30 3
20 1	EXIST RECEPT RM 145,155,STR		9		0		10		-	-
20 2	EXIST WHITEFISH RECEPT		11			0	12		-	-
-	-		13	0			14		EXIST FLOOR RECEP RM 135	20 1
20 1	SP-2	1656	15		1656		16		EXIST L218 FLOOR RECEPT	20 1
20 1	EXIST TRANE 24 POWER		17			1656	18	1656	SP-1	20 1
20 1	EXIST CUH, UH, MICROWAVE		19	0			20		EXIST L218 FLOOR RECEPT	20 1
20 1	EXIST RECEP RM 158, 165		21		0		22		EXIST COPIER MACHINE	20 2
20 1	EXIST RECEPT RM 141,145,158		23			0	24		-	-
20 1	EXIST RECEPT RM 148,149,157		25	0			26		EXIST FLOOR RECEP RM 145	20 1
20 1	EXIST RECEPT RM 149,150,COR		27		0		28		EXIST FLOOR RECEP RM 145	20 1
20 1	EXIST RECEPT RM 147,150,COR		29			0	30		EXIST RESTROOM RECEPT	20 1
20 1	EXIST RECEP RM 159, 161		31	0			32		EXIST FLOOR RECEP RM 158	20 1
20 1	SP-3	1656	33		1656		34		EXIST FLOOR RECEP RM 158	20 1
20 2	EXIST WHITEFISH RECEPT		35			0	36		EXIST FLOOR RECEP RM 158	20 1
-	-		37	0			38		EXIST FLOOR RECEP RM 158	20 1
20 1	EXIST EX FAN RM 148 #14		39		0		40		EXIST FLOOR RECEP RM 158	20 1
20 1	EXIST EX FAN RM 148 #15		41			0	42		EXIST RECEPT RM 146	20 1
		CONNECTED		0	3312	1656	TOTAL ADDITIONAL LOAD		4968	VOLT-AMPS
		TOTAL CONNECTED		4968					13.79 AMPS	

### EXISTING PANEL "RP-M1B"

VOLTS: 208 / 120 PHASE: 3 WIRE: 4 AMPS: 110 MAIN: MCB

BRKR	DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BRKR
		VA	NO	A	B	C	NO	VA		
20 1	EXIST WIREMOLD DUPLEX		1	0			2		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		3		0		4		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		5			0	6		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		7	0			8		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		9		0		10		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		11			0	12		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		13	0			14		EXIST WOMENS HAND DRYER	20 2
20 1	SPARE		15		0		16		-	-
20 1	SPARE		17			0	18		SPARE	20 1
20 1	EXIST SKYPE DESK		19	0			20		EXIST STAGE RECEPT	20 1
20 1	EXIST AUDITORIUM RECEPT		21		0		22		EXIST LIGHTS,DIMMER,SHAFT	20 1
20 1	EXIST AUDITORIUM RECEPT		23			0	24		SPARE	20 1
20 1	EXIST BOOTH RECEPT		25	0			26		EXIST LIGHTS,AUD,BACKWALL	20 1
20 1	EXIST VIDEO PROJECTOR BOX		27		0		28		EXIST BOOTH TRACK LIGHTS	20 1
20 1	SPARE		29			0	30		EXIST BOOTH TRACK LIGHTS	20 1
20 1	EXIST LEFT TV		31	0			32		EXIST STEP LIGHTS-TOE LIGHTS	20 1
20 1	EXIST MAIN HALL RECEPT		33		0		34		EXIST BOOTH TRACK LIGHTS	20 1
20 1	EXIST ROTUNDA RECEPT		35			0	36		EXIST BOOTH TRACK LIGHTS	20 1
20 1	EXIST ROTUNDA RECEPT		37	0			38		EXIST STAGE FLOOR BOX	20 1
20 1	SPARE		39		0		40		EXIST STAGE FLOOR BOX	20 1
20 1	EXIST GFI RECEPT		41			0	42		EXIST STAGE FLOOR BOX	20 1
		CONNECTED		0	0	0	TOTAL CONNECTED LOAD		0	VOLT-AMPS
		TOTAL CONNECTED		0					0.00 AMPS	

### REVISED PANEL "RP-M1B"

VOLTS: 208 / 120 PHASE: 3 WIRE: 4 AMPS: 110 MAIN: MCB

BRKR	DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BRKR
		VA	NO	A	B	C	NO	VA		
20 1	EXIST WIREMOLD DUPLEX		1	0			2		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		3		0		4		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		5			0	6		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		7	0			8		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		9		0		10		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		11			0	12		EXIST WIREMOLD DUPLEX	20 1
20 1	EXIST WIREMOLD DUPLEX		13	0			14		EXIST WOMENS HAND DRYER	20 2
20 1	SP-5	1656	15		1656		16		-	-
20 1	SP-6	1656	17			3312	18	1656	SP-7	20 1
20 1	EXIST SKYPE DESK		19	0			20		EXIST STAGE RECEPT	20 1
20 1	EXIST AUDITORIUM RECEPT		21		0		22		EXIST LIGHTS,DIMMER,SHAFT	20 1
20 1	EXIST AUDITORIUM RECEPT		23			0	24		SPARE	20 1
20 1	EXIST BOOTH RECEPT		25	0			26		EXIST LIGHTS,AUD,BACKWALL	20 1
20 1	EXIST VIDEO PROJECTOR BOX		27		0		28		EXIST BOOTH TRACK LIGHTS	20 1
20 1	SPARE		29			0	30		EXIST BOOTH TRACK LIGHTS	20 1
20 1	EXIST LEFT TV		31	0			32		EXIST STEP LIGHTS-TOE LIGHTS	20 1
20 1	EXIST MAIN HALL RECEPT		33		0		34		EXIST BOOTH TRACK LIGHTS	20 1
20 1	EXIST ROTUNDA RECEPT		35			0	36		EXIST BOOTH TRACK LIGHTS	20 1
20 1	EXIST ROTUNDA RECEPT		37	0			38		EXIST STAGE FLOOR BOX	20 1
20 1	SPARE		39		0		40		EXIST STAGE FLOOR BOX	20 1
20 1	EXIST GFI RECEPT		41			0	42		EXIST STAGE FLOOR BOX	20 1
		CONNECTED		0	1656	3312	TOTAL ADDITIONAL LOAD		4968	VOLT-AMPS
		TOTAL CONNECTED		4968					13.79 AMPS	

### EXISTING PANEL "RP-M6A"

VOLTS: 208 / 120 PHASE: 3 WIRE: 4 AMPS: 225 MAIN: MLO

BRKR	DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BRKR
		VA	NO	A	B	C	NO	VA		
20 1	EXIST RECEPT STOR, OFFICE		1	0			2		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST RECEPT STOR RM 142		3		0		4		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST RECEPT STOR RM 144		5			0	6		EXIST RECEPT LARGE ED WEST	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		7	0			8		EXIST RECEPT CLASS 117-146	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		9		0		10		EXIST RECEPT CLASS 117-146	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		11			0	12		EXIST RECEPT FLOOR BOX 117	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		13	0			14		EXIST LOAD	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		15		0		16		EXIST RECEPT ELEC RM & PIT	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		17			0	18		EXIST PIT LIGHTS ELEVATOR #4	20 1
20 1	EXIST RECEPT ORIENTATION		19	0			20		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST RECEPT OFFICE 149		21		0		22		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST HONEYWELL DDC		23			0	24		EXIST RECEPT LARGE ED LIGHTS	20 1
20 1	EXIST CLASSROOM 146,147 LTS		25	0			26		EXIST COAT ROOM & REC LTS	20 1
20 1	EXIST SPRAY BOOTH LIGHTS		27		0		28		EXIST TRANE E24	20 1
20 1	EXIST SPRAY BOOTH RECEP		29			0	30		EXIST TRACK LIGHTS RM 136	20 1
20 1	EXIST CARD ACCESS PANEL		31	0			32		EXIST TRACK LIGHTS RM 136	20 1
20 1	EXIST DW CHILLER STOR 158		33		0		34		EXIST CLASSROOM LOAD	20 1
20 1	EXIST CUH RECEIVING 129		35			0	36		EXIST TRACK LIGHTS RM 136	20 1
20 1	SPARE		37	0			38		EXIST TRACK LIGHTS RM 136	20 1
20 1	SPARE		39		0		40		EXIST TRACK LIGHTS RM 136	20 1
20 1	EXIST FF#4 142		41			0	42		EXIST TRACK LIGHTS RM 136	20 1
		CONNECTED		0	0	0	TOTAL CONNECTED LOAD		0	VOLT-AMPS
		TOTAL CONNECTED		0					0.00 AMPS	

### REVISED PANEL "RP-M6A"

VOLTS: 208 / 120 PHASE: 3 WIRE: 4 AMPS: 225 MAIN: MLO

BRKR	DESCRIPTION	CIRCUIT		PHASE LOADS			CIRCUIT		DESCRIPTION	BRKR
		VA	NO	A	B	C	NO	VA		
20 1	EXIST RECEPT STOR, OFFICE		1	0			2		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST RECEPT STOR RM 142		3		0		4		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST RECEPT STOR RM 144		5			0	6		EXIST RECEPT LARGE ED WEST	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		7	0			8		EXIST RECEPT CLASS 117-146	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		9		0		10		EXIST RECEPT CLASS 117-146	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		11			0	12		EXIST RECEPT FLOOR BOX 117	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		13	0			14		EXIST LOAD	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		15		0		16		EXIST RECEPT ELEC RM & PIT	20 1
20 1	EXIST RECEPT EXHIBIT RM 136		17			0	18		EXIST PIT LIGHTS ELEVATOR #4	20 1
20 1	EXIST RECEPT ORIENTATION		19	0			20		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST RECEPT OFFICE 149		21		0		22		EXIST RECEPT ORIENTATION	20 1
20 1	EXIST HONEYWELL DDC		23			0	24		EXIST RECEPT LARGE ED LIGHTS	20 1
20 1	EXIST CLASSROOM 146,147 LTS		25	0			26		EXIST COAT ROOM & REC LTS	20 1
20 1	EXIST SPRAY BOOTH LIGHTS		27		0		28		EXIST TRANE E24	20 1
20 1	EXIST SPRAY BOOTH RECEP		29							

**PLUMBING ABBREVIATIONS**

AD	AREA DRAIN	NTS	NOT TO SCALE
ASR	AUTOMATIC SPRINKLER RISER	ORD	OVERFLOW ROOF DRAIN
BFS	BELOW FLOOR SLAB	OXY	OXYGEN
BWV	BACK WATER VALVE	P	PUMP
CB	CATCH BASIN	PD	PRESSURE DROP
CI	CAST IRON	PVC	POLY-VINYL-CHLORIDE
CO	CLEAN OUT	RC	RAIN CONDUCTOR
CV	CONTROL VALVE	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	RI	ROUGH-IN
DIA	DIAMETER	REQ'D	REQUIRED
DN	DOWN	SAN	SANITARY
DWH	DOMESTIC WATER HEATER	SHWR	SHOWER
E.T.C.	ELECTRICAL TRADES CONTRACTOR	SK	SINK
EWC	ELECTRIC WATER COOLER	SP	STAND PIPE
EXIST	EXISTING	SQ. FT.	SQUARE FEET
FD	FLOOR DRAIN	SS	SERVICE SINK
FC	FINAL CONNECTIONS	ST	STORM
FDC	FIRE DEPT. CONNECTION	S&W	STOP & WASTE
FF	FINISH FLOOR	STR	STRAINER
FHV	FIRE HOSE VALVE	SV	STACKED VENT
FT	FEET	TYP.	TYPICAL
GAL	GALLON	UR	URINAL
GD	GARBAGE DISPOSAL	VB	VACUUM BREAKER
GI	GREASE INTERCEPTOR	VS	VENT STACK
GPH	GALLONS PER HOUR	V.F.D	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
HB	HOSE BIB	W	WASTE
HD	HEAD (FT)	WB	WET BULB
HP	HORSE POWER	WC	WATER CLOSET
ID	INSIDE DIAMETER	WH	WALL HYDRANT
I.E.	INVERT ELEVATION	WS	WASTE STACK
LAV	LAVATORY	W&V	WASTE AND VENT
LT	LAUNDRY TRAY	X-CW	EXIST. CW PIPING
MA	MEDICAL AIR	ITEM	ITEM
MAX	MAXIMUM	EXISTING	EXISTING
MGC	MEDICAL GAS CONSOLE		
MH	MAN HOLE		
MIN	MINIMUM		
MS	MOP SINK		
M.T.C.	MECHANICAL TRADES CONTRACTOR		

**GENERAL PLUMBING NOTES**

- ALL PLUMBING WORK SHALL CONFORM TO MICHIGAN PLUMBING CODE, LATEST APPLICABLE EDITION.
- INSTALL ALL EQUIPMENT, MATERIALS, AND ACCESSORIES PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- ALL PIPE SIZES SHOWN ARE SERVICE SIZE. SIZE SLEEVES FOR 1" CLEAR SPACE BETWEEN PIPE AND SLEEVE FOR INSTALLATION OF MECHANICAL SEAL.
- CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
- CONTRACTOR SHALL DEMOLISH & REMOVE EXISTING PIPING, FITTINGS, & EQUIPMENT AS REQUIRED FOR NEW INSTALLATIONS. VALVE & CAP PIPING TO REMAIN.
- FIELD VERIFY LOCATIONS OF EXISTING PIPING THAT MAY CONFLICT WITH NEW CONSTRUCTION AND RELOCATE AS NEEDED.
- NOTIFY OWNER OF ANY PIPING DEMOLITION THAT MAY AFFECT NORMAL OPERATION OF OTHER AREAS.
- MECHANICAL SEALS REQUIRED FOR BELOW GRADE WALL PENETRATIONS.
- ALL FLOOR DRAINS TO BE EQUIPPED WITH TRAP PRIMERS OR TRAP SEAL DEVICES, UNLESS OTHERWISE NOTED.
- 1% SLOPE FOR ALL SANITARY & RAIN CONDUCTOR PIPING.
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATION, ELEVATIONS, AND DETAILS OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND SUBCONTRACTORS AS REQUIRED BY LAW.
- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CODES AND REGULATIONS ENFORCED BY LOCAL BUILDING OFFICIALS.
- IF THERE IS CONFLICTING INFORMATION IN THE PLANS OR SPECIFICATIONS THE MORE STRINGENT AND GREATER COST ITEM SHALL BE USED.
- DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND SUGGESTED ROUTES. IT IS NOT INTENTION OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE. AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

OIL INTERCEPTOR SCHEDULE										
TAG	MODEL	LOCATION	OIL HOLDING CAPACITY (LBS)	GPM	INLET/OUTLET	DIMENSIONS			COMMENTS	
						WIDTH	DEPTH	HEIGHT		
OI-1	5401	MECH RM 137	215	150	4"	58	36	38	1,2	
OI-2	5400	STORAGE RM 156	82	50	3"	34	24	34	1,2	
OI-3	5401	CARPENTER STORAGE	215	150	4"	58	36	38	1,2	

**NOTES:**  
 1. BASED ON WADE  
 2. PROVIDE EXTENSIONS AS REQUIRED FOR OIL INTERCEPTOR COVER TO BE FLUSH WITH FLOOR

SUMP PUMP SCHEDULE														
TAG	MODEL	TYPE	GPM	FT. HEAD	DISCHARGE		BASIN			ELECTRICAL			COMMENTS	
					PIPE	SOLID	TYPE	DIA	DEPTH	HP	VOLTS	PHASE		RPM
SP-1	1413	SIMPLEX	50	25	2"	0.5"	PCC	24"	2'	1	120	1	1750	1,2,3
SP-2	1413	SIMPLEX	50	25	2"	0.5"	PCC	24"	2'	1	120	1	1750	1,2,3
SP-3	1413	SIMPLEX	50	25	2"	0.5"	PCC	24"	2'	1	120	1	1750	1,2,3
SP-4	1422	SIMPLEX	50	20	1.5"	0.5"	PCC	24"	2'	3/4	120	1	1750	1,2,3
SP-5	1413	SIMPLEX	50	25	2"	0.5"	PCC	24"	2'	1	120	1	1750	1,2,3
SP-6	1413	SIMPLEX	50	25	2"	0.5"	PCC	24"	2'	1	120	1	1750	1,2,3
SP-7	1413	SIMPLEX	50	25	1.5"	0.5"	PCC	24"	2'	1	120	1	1750	1,2,3

**NOTES:**  
 1. BASED ON WEIL  
 2. PROVIDE CONTROL PANEL W/ INTERNAL DISCONNECT & STARTER  
 3. PROVIDE LEVEL CONTROL SYSTEM WITH HIGH LEVEL ALARM STROBE LIGHT

**ABBREVIATIONS:**  
 PCC = PRE-CAST CONCRETE

PLUMBING FIXTURE SCHEDULE								
TAG	FIXTURE	ROUGH-IN CONNECTION SIZE				FAUCET TYPE	FIXTURE SIZE	ACCESSORIES AND COMMENTS
		CW	HW	SAN	VENT			
FS-1	FLOOR SINK	-	-	-	-	-	12 x 12 TOP	SEE PLAN FOR SANITARY SIZE, 3/4" TOP GRATE

**PLUMBING SYMBOLS LEGEND**

**PLUMBING PIPING**

— CW —	COLD WATER
- - CW - - - - -	COLD WATER BELOW FINISH SLAB
— HW —	HOT WATER
- - HW - - - - -	HOT WATER BELOW FINISH SLAB
— HWR —	HOT WATER RETURN
- - HWR - - - - -	HOT WATER RETURN BELOW FINISH SLAB
— SW —	SOFTENED WATER
- - SW - - - - -	SOFTENED WATER BELOW FINISH SLAB
— SWR —	SOFTENED WATER RETURN
- - SWR - - - - -	SOFTENED WATER RETURN BELOW FINISH SLAB
— TW —	TEMPERED WATER
— TW —	TEMPERED WATER BELOW FINISH SLAB
— TWR —	TEMPERED WATER RETURN
- - TWR - - - - -	TEMPERED WATER RETURN BELOW FINISH SLAB
— DI —	DEIONIZED WATER
- - DI - - - - -	DEIONIZED WATER BELOW FINISH SLAB
— RO —	REVERSE OSMOSIS WATER
- - RO - - - - -	REVERSE OSMOSIS WATER RETURN BELOW FINISH SLAB
— FP —	FIRE PROTECTION
— G —	GAS (NATURAL)
— LP —	GAS (LIQUID PETROLEUM)
— ARV —	ACID RESISTANT
— ARW —	VENT ACID RESISTANT WASTE
— ARW —	ACID RESISTANT WASTE BELOW FINISH SLAB
— RC —	RAIN CONDUCTOR
— ST —	STORM BELOW FINISH SLAB
— ORC —	OVERFLOW RAIN CONDUCTOR
— ORC —	OVERFLOW RAIN CONDUCTOR BELOW FINISH SLAB
— SAN —	SANITARY WASTE
— SAN —	SANITARY WASTE BELOW FINISH SLAB
— V —	VENT PIPING
- - V - - - - -	VENT PIPING BELOW FINISH SLAB
— CA —	COMPRESSED AIR
— O2 —	OXYGEN
— NO —	NITROUS OXIDE
— N2 —	NITROGEN
— MA —	MEDICAL AIR
— VAC —	VACUUM
— — — — —	DEMOLITION

**PLUMBING EQUIPMENT**

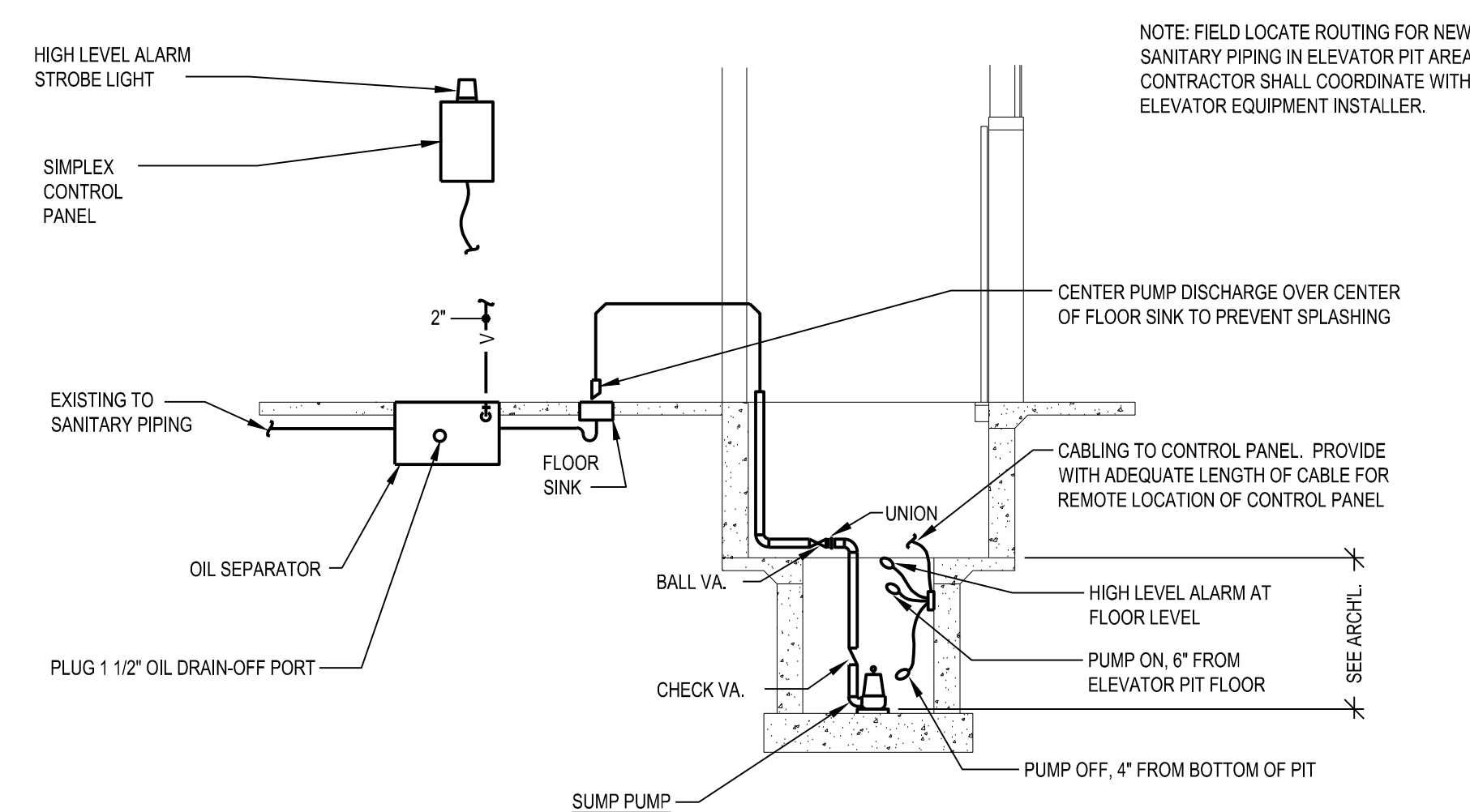
→	FLOW DIRECTION
↘	PIPING DROP
↗	PIPING RISE
⊕	FLOOR CLEANOUT
⊕	INLINE PIPING DROP
⊕	INLINE PIPING RISE
⊕	PIPING TEE
⊕	PIPING ELBOW
⊕	PLUMBING TRAP
⊕	THERMOMETER
⊕	CONNECTION
⊕	PUMP
⊕	UNION
⊕	PIPE ANCHOR
⊕	PIPE GUIDE
⊕	FLOOR DRAIN & FLOOR SINK
⊕	BACK FLOW PREVENTER
⊕	FLANGE END CONNECTION
⊕	WALL HYDRANT & HOSE BIBB
⊕	REGULAR & OVERFLOW ROOF DRAIN
⊕	PIPE CAP
⊕	PIPE BREAK
⊕	WATER METER
⊕	GAS METER
⊕	PRESSURE GAUGE
⊕	FIRE HYDRANT
⊕	SPRINKLER HEAD (PENDANT)
⊕	SPRINKLER HEAD (UPRIGHT)
⊕	SPRINKLER HEAD (SIDEWALL)
⊕	FIRE DEPARTMENT CONNECTION
⊕	PIPING FLEXIBLE CONNECTOR
⊕	SIGHT GLASS
⊕	PIPE EXPANSION
⊕	COMPENSATOR FLOW SENSOR DEVICE
⊕	FLOW METER
⊕	FLOW SWITCH
⊕	PRESSURE SWITCH
⊕	SUPERVISORY SWITCH INVERTED
⊕	BUCKET TRAP
⊕	FLOAT & THERMOSTATIC TRAP

**PLUMBING VALVES**

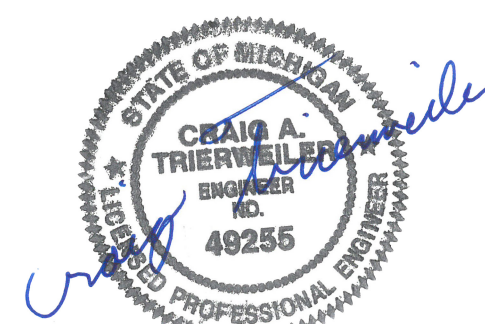
⊕	GATE VALVE
⊕	GAS COCK
⊕	CHECK VALVE
⊕	BALANCE COCK
⊕	CIRCUIT SETTER
⊕	TWO-WAY CONTROL VALVE
⊕	THREE-WAY CONTROL VALVE
⊕	GLOBE VALVE
⊕	BALL VALVE
⊕	OS&Y VALVE
⊕	SOLENOID VALVE
⊕	EXPANSION VALVE WITH THERMOSTATIC BULB
⊕	PLUG VALVE
⊕	BUTTERFLY VALVE
⊕	RELIEF VALVE
⊕	HOSE & DRAIN END VALVE
⊕	PRESSURE RELIEF VALVE
⊕	PRESSURE REDUCING VALVE
⊕	TRIPLE DUTY VALVE
⊕	GAS PRESSURE REGULATOR
⊕	STRAINER (BLOW-OFF)

**MISCELLANEOUS NOTES**

⊕	POINT OF CONNECTION BETWEEN NEW AND EXISTING
⊕	POINT OF EXISTING TO REMAIN AND EXISTING TO BE REMOVED
⊕	INDICATES PLAN NOTE
⊕	INDICATES DEMOLITION NOTE
⊕	DETAIL BUBBLE
⊕	DETAIL NUMBER
⊕	PAGE LOCATION INDICATES
⊕	DIRECTION OF DETAIL SECTION



**1 ELEVATOR PUMPING SYSTEM DETAIL**  
 SCALE: NTS



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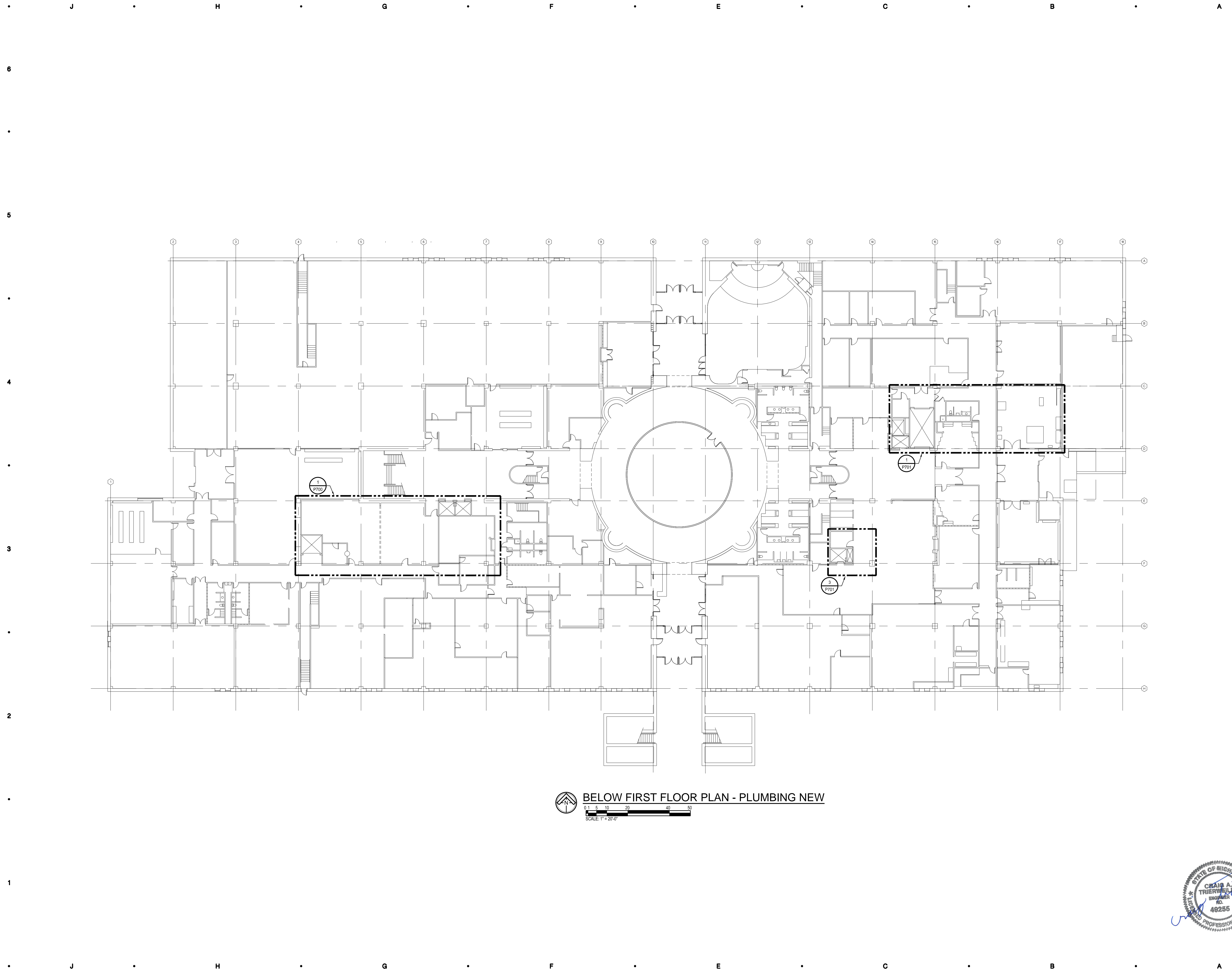
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**DTMB**  
 Technology, Management & Budget


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 1601 E César E. Chávez Ave  
 Lansing, MI 48906

**LERCH BATES**  
 950 Boston Street SE Grand  
 Rapids MI 49507  
 CONSULTANTS

**PLUMBING SYMBOLS NOTES, AND ABBREV.**



 **BELOW FIRST FLOOR PLAN - PLUMBING NEW**  
0 10 20 30 40 50  
SCALE: 1" = 20'-0"

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**BELOW FIRST  
FLOOR PLAN -  
PLUMBING NEW**

SHEET TITLE

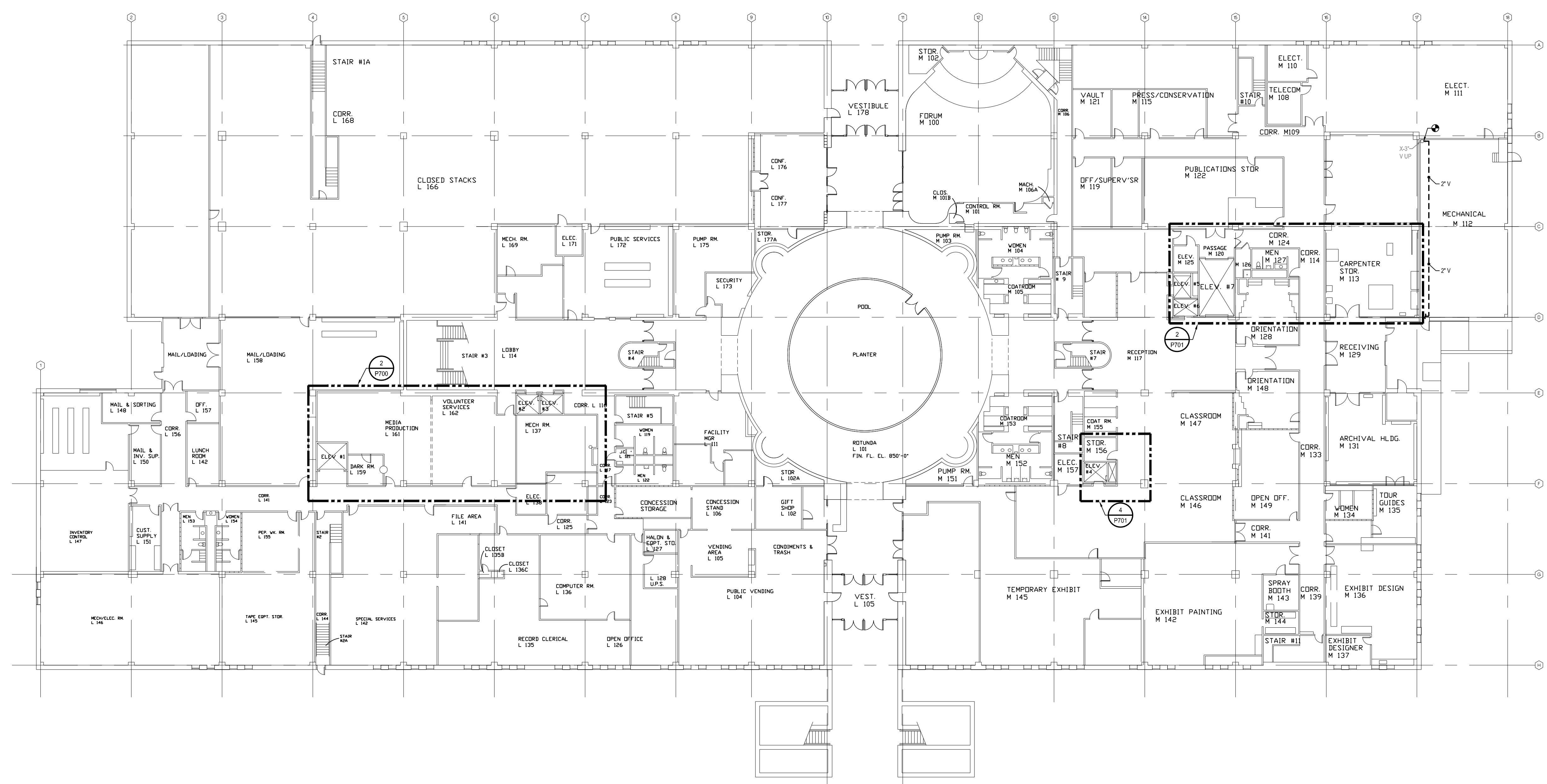
**21-302**

PROJECT NUMBER

**P-400**

SHEET NUMBER





**FIRST FLOOR PLAN - PLUMBING NEW**  
 0 1 5 10 20 40 50  
 SCALE: 1" = 20'-0"

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FIRST FLOOR  
 PLAN -  
 PLUMBING NEW

SHEET TITLE

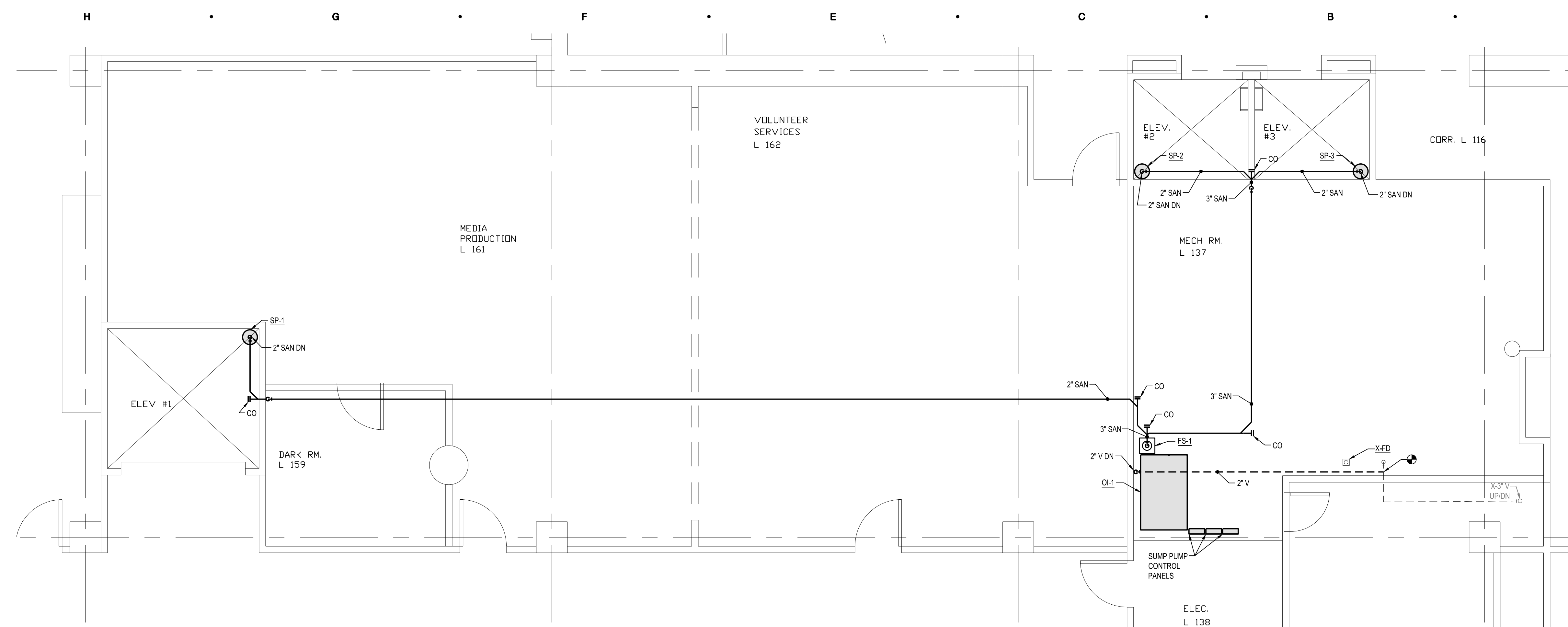
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PROJECT NUMBER

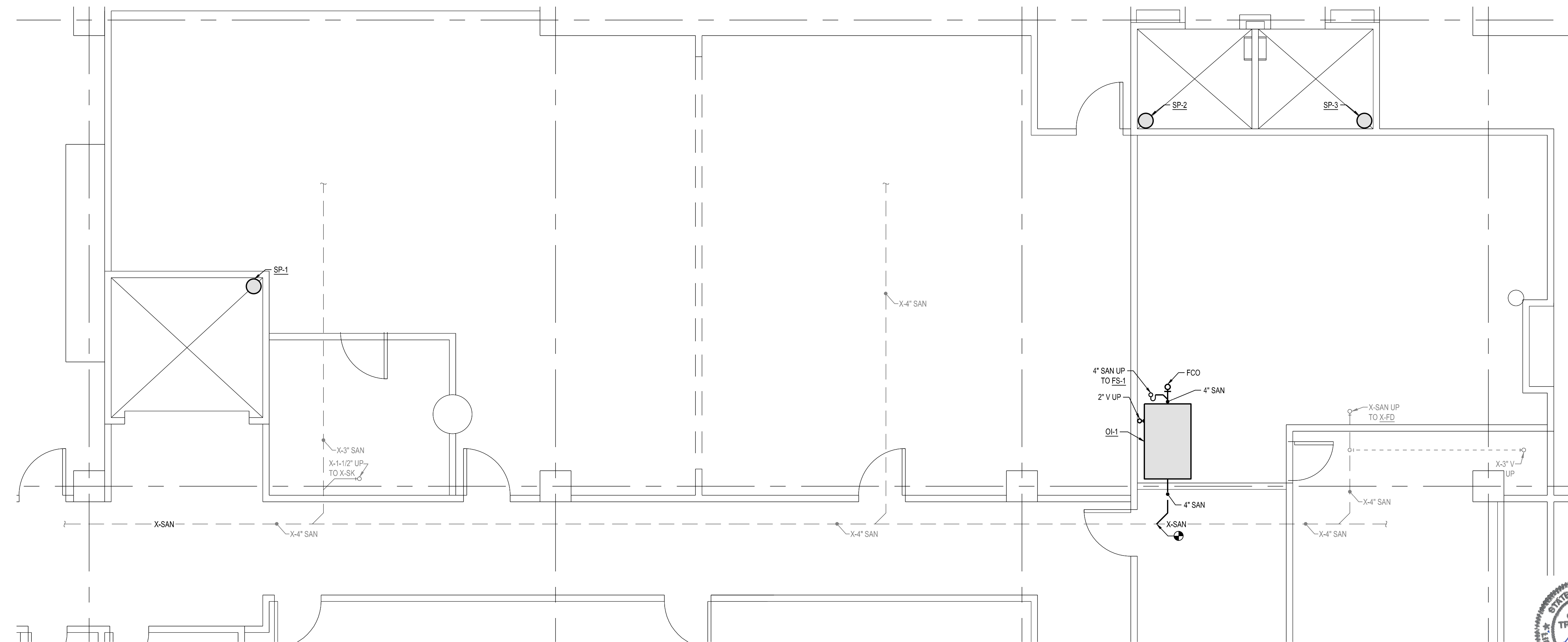
P-401

SHEET NUMBER





2 PARTIAL ENLARGED FIRST FLOOR PLAN  
 (ELEVATOR 1,2,3) - PLUMBING NEW  
 SCALE: 1/4" = 1'-0"



1 PARTIAL ENLARGED BELOW FIRST FLOOR PLAN  
 (ELEVATOR 1,2,3) - PLUMBING NEW  
 SCALE: 1/4" = 1'-0"



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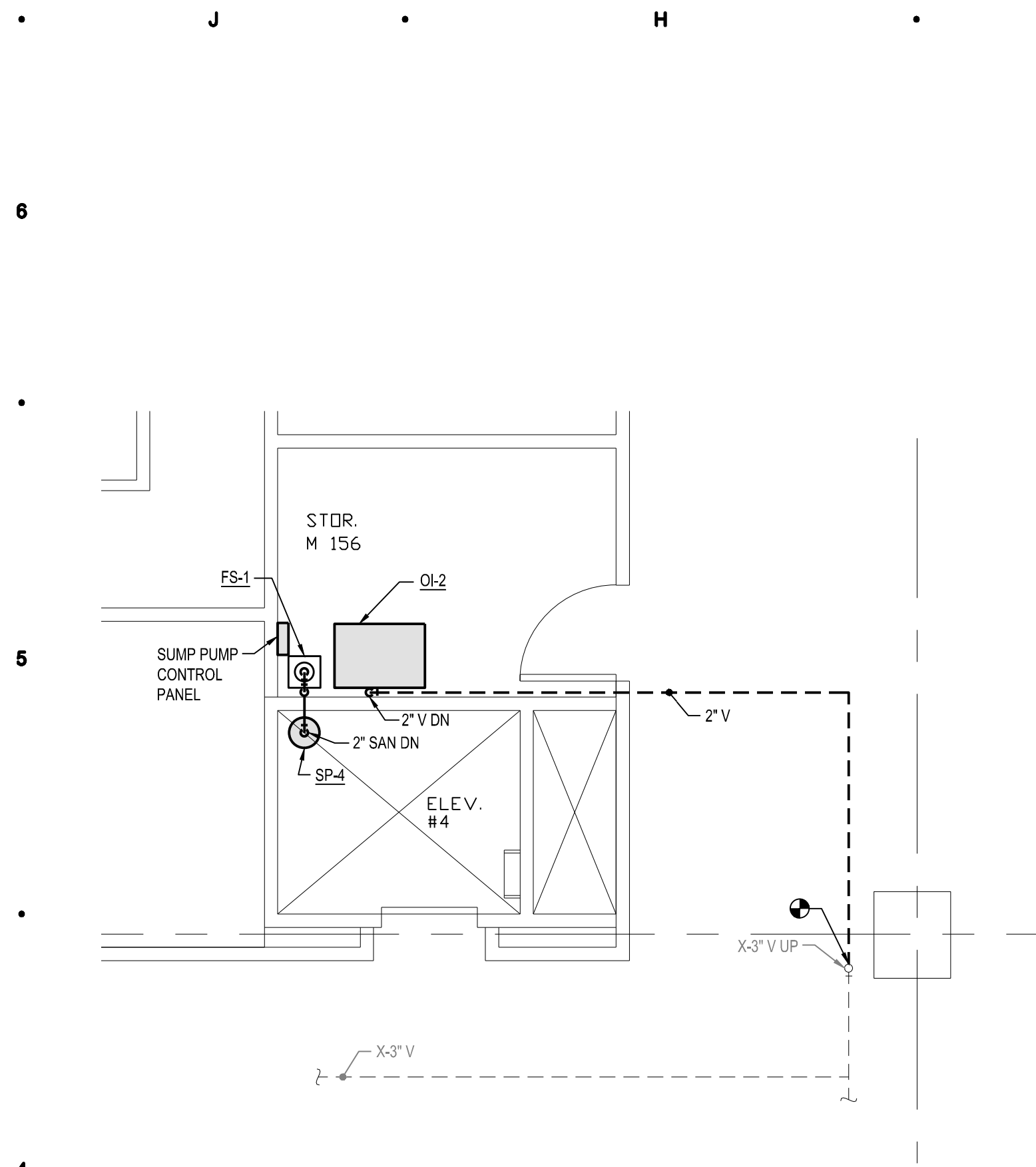
**LERCH BATES**  
 950 Boston Street SE Grand  
 Rapids MI 49507  
 CONSULTANTS

PARTIAL ENLARGED  
 BELOW AND FIRST  
 FLOOR PLAN -  
 PLUMBING NEW

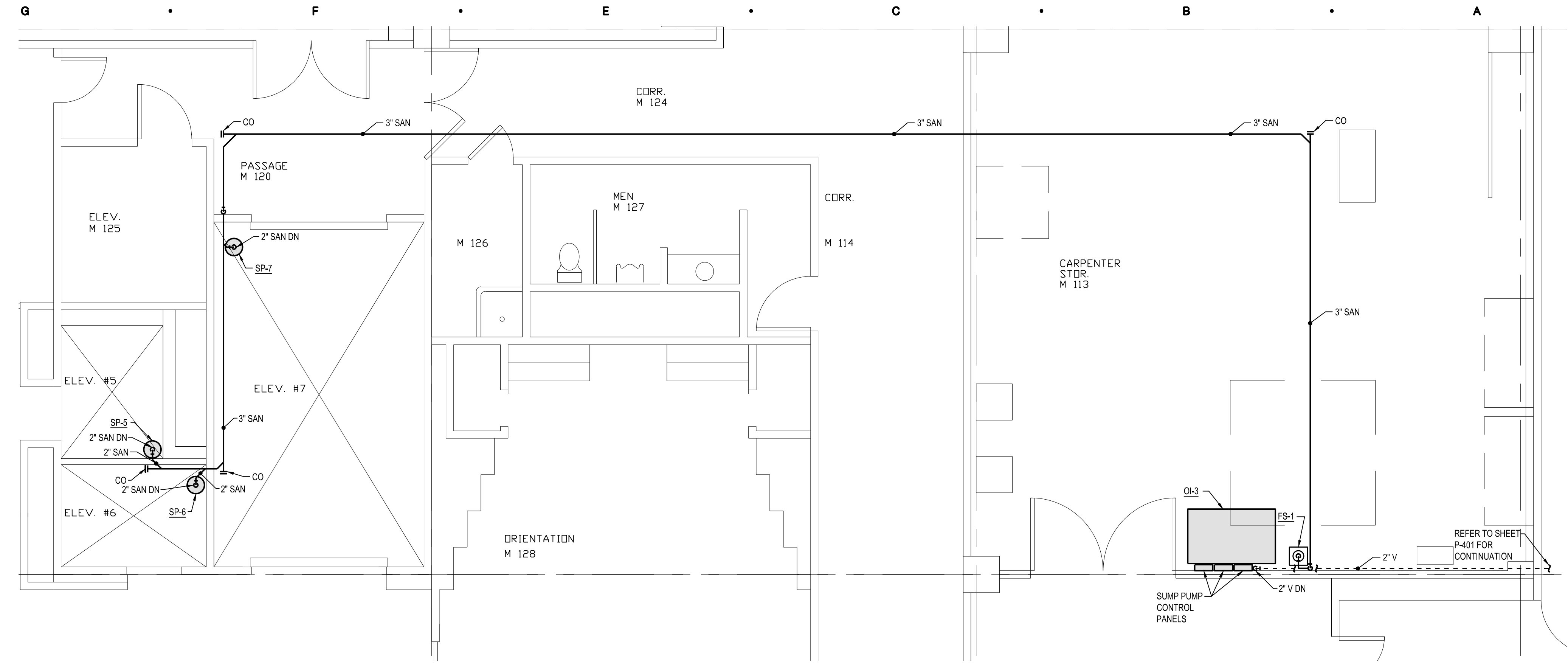
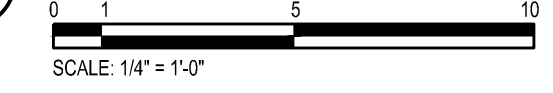
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 PROJECT NUMBER

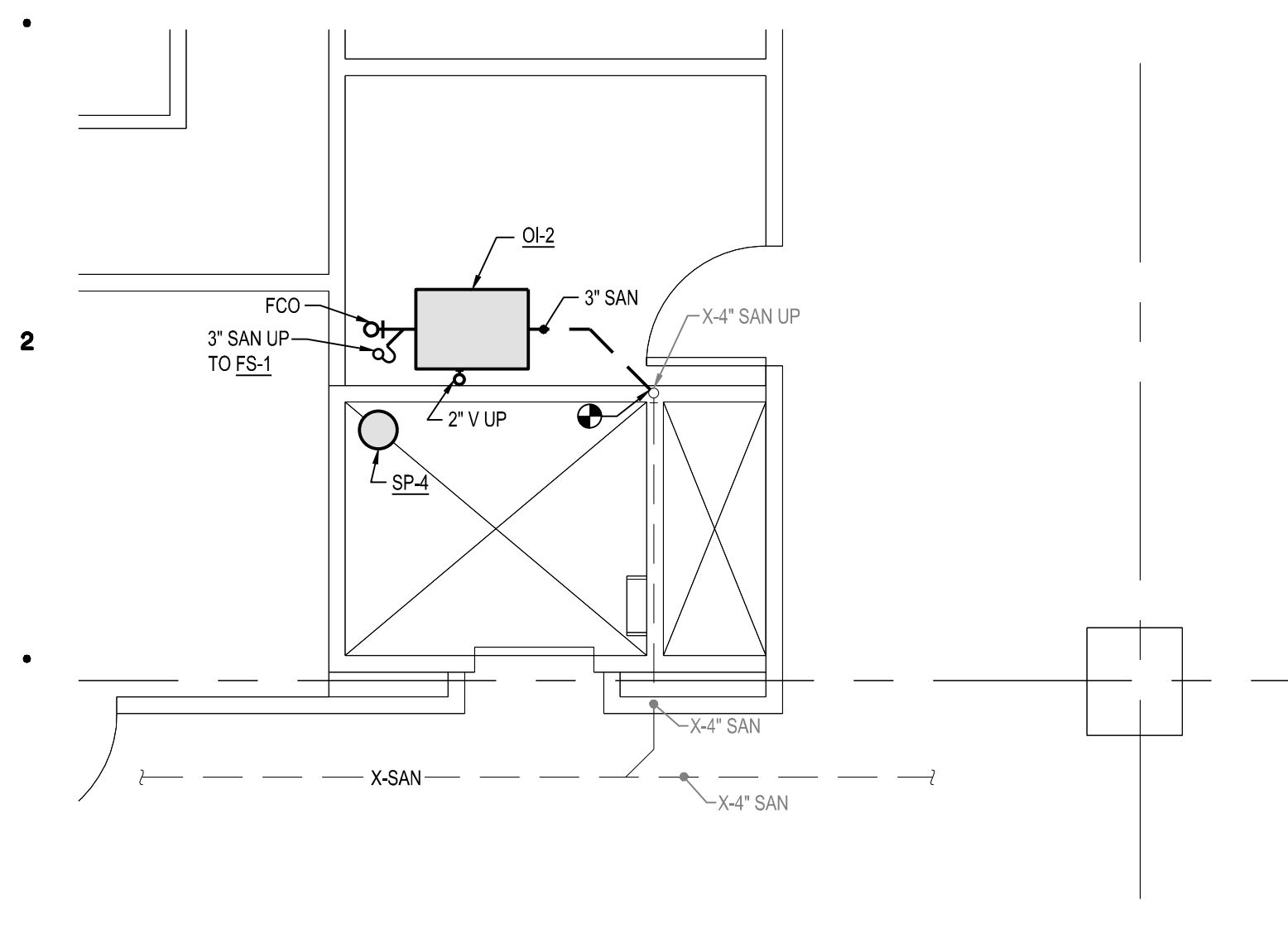
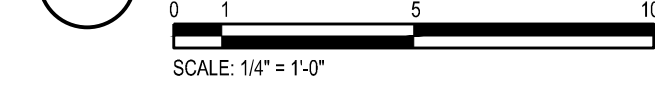
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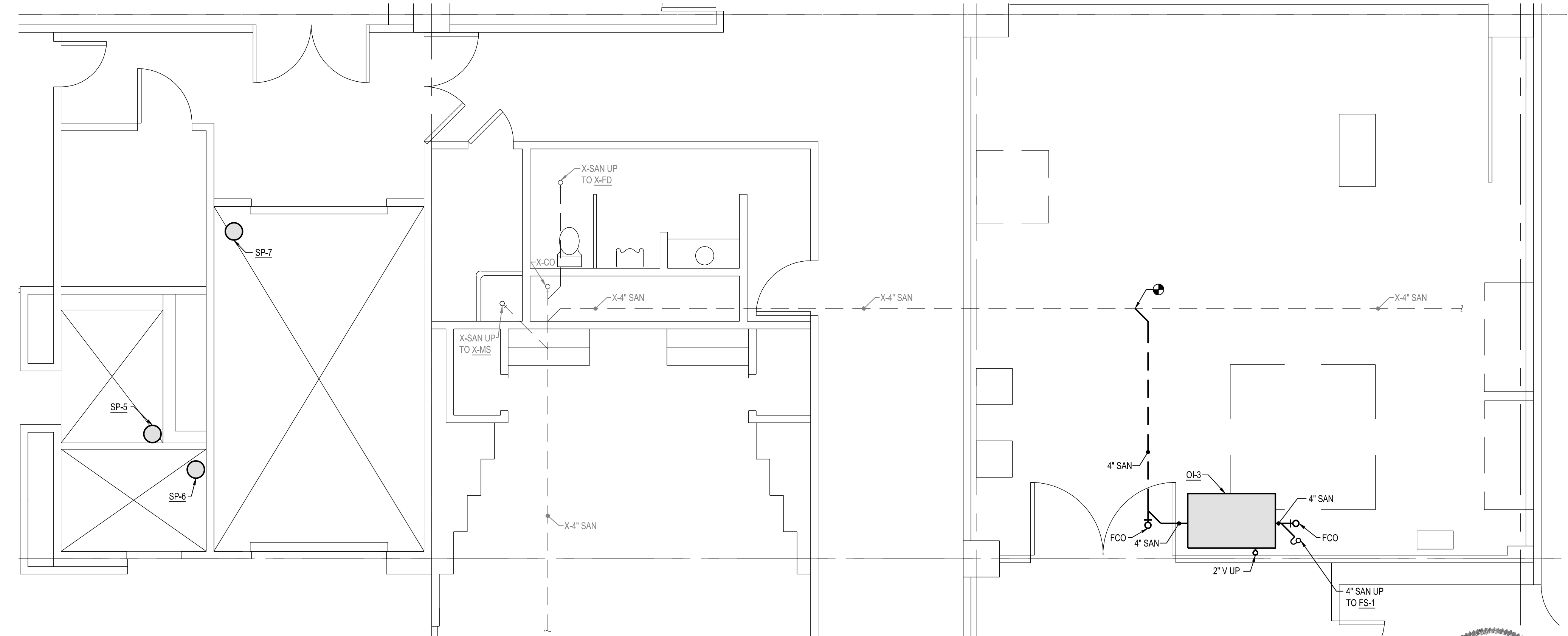
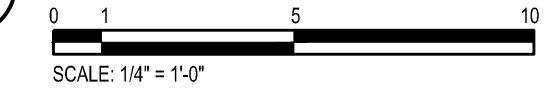
**4** PARTIAL ENLARGED FIRST FLOOR PLAN (ELEVATOR 4) - PLUMBING NEW



**2** PARTIAL ENLARGED FIRST FLOOR PLAN (ELEVATOR 5,6,7) - PLUMBING NEW



**3** PARTIAL ENLARGED BELOW FIRST FLOOR PLAN (ELEVATOR 4) - PLUMBING NEW



**1** PARTIAL ENLARGED BELOW FIRST FLOOR PLAN (ELEVATOR 5,6,7) - PLUMBING NEW

