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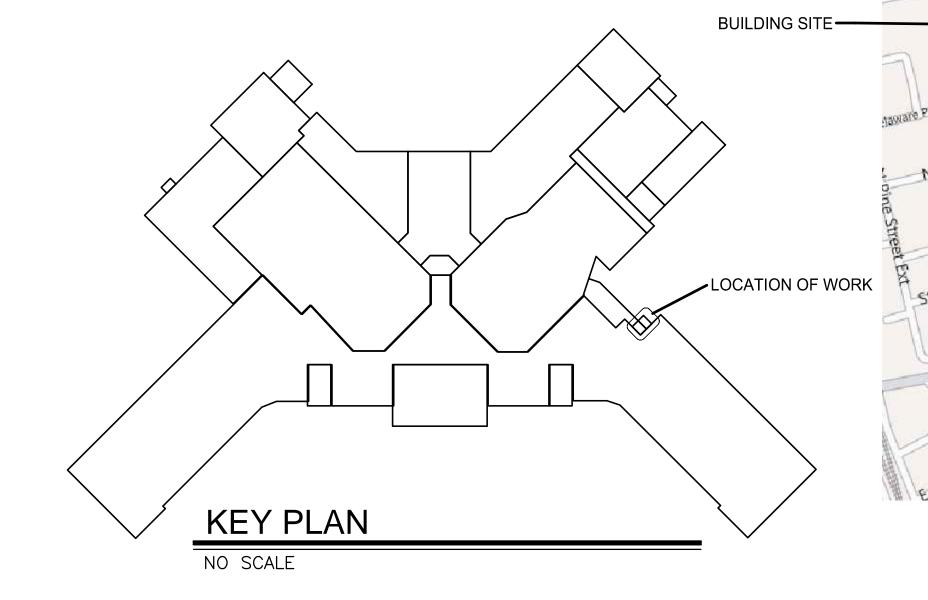
ELEVATOR REPLACEMENT

SEAFORD SCHOOL DISTRIC

SEAFORD HIGH SCHOOL

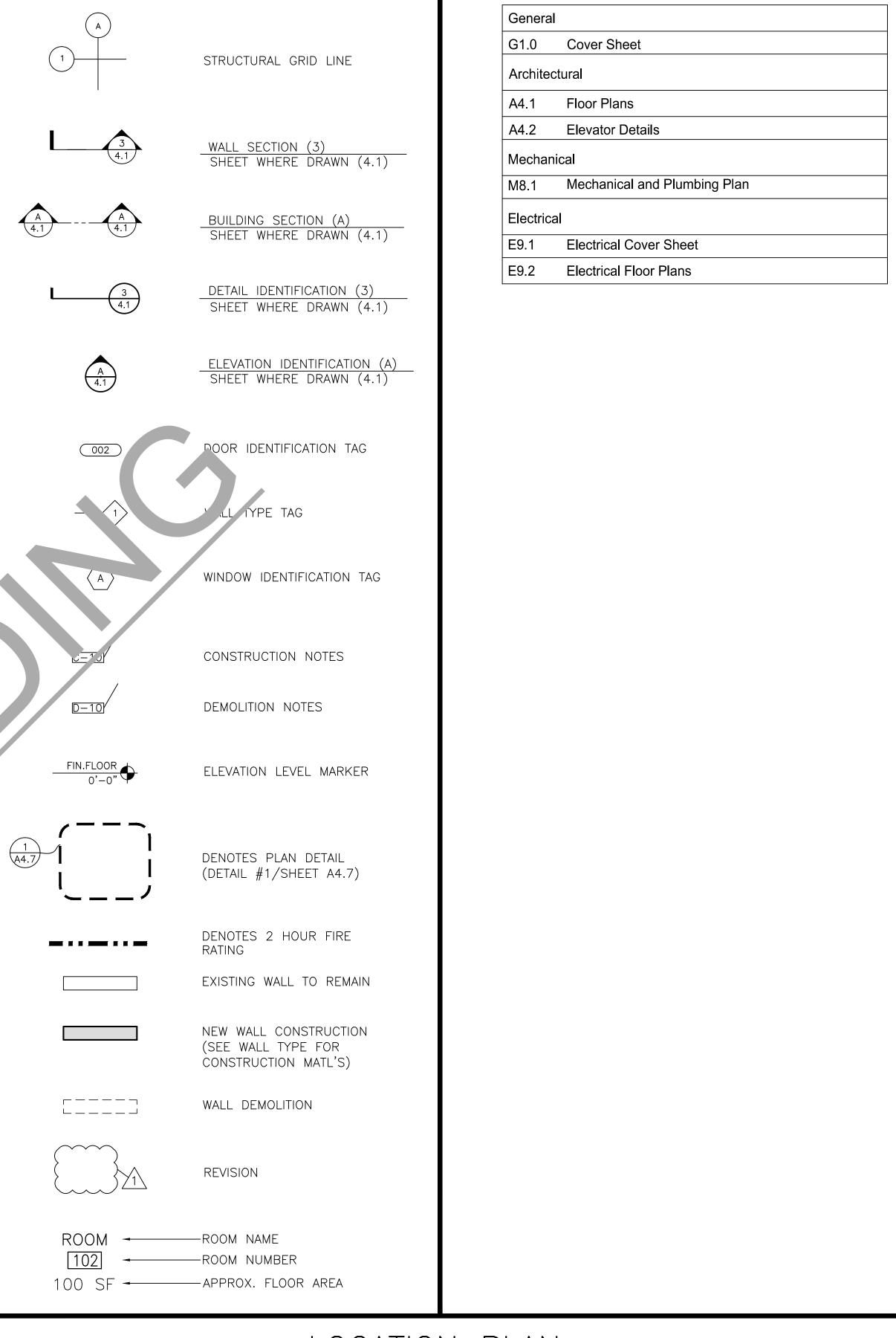
ABBREVIATIONS

& L	AND ANGLE	F.O.M. F.O.S.	FACE OF MASONRY FACE OF STUDS	PT.	POINT
۲ (۲ ه	AT CENTERLINE	FPL FPRF.	FIREPLACE FIREPROOF	P.T. P.T.D.	PRESSURE TREATED PAPER TOWEL DISP.
ø d	DIAMETER OR ROUND	F.S. FRMG.	FAR SIDE FRAMING	P.T.D./R	COMBINATION PAPER TOWEL DISPENSER
	PENNEY PERPENDICULAR	FT. FTG.	FOOT OR FEET FOOTING	P.T.R.	AND RECEPTACLE PAPER TOWEL RECEPTACLE
上 巴 #	PLATE POUND OR NUMBER	FURR. F.W.S.	FURRING FINISHED WALL SURFACE	PVC P.W.	POLYVINYL CHLORIDE PLYWOOD
A.B.	ANCHOR BOLT	GA.	GAUGE	PWR.	POWER
A.C. A/C ACOUS.	ASPHALTIC CONCRETE AIR CONDITION	GALV. G.B.	GALVANIZED	Q.T.	QUARRY TILE
ACCESS.	ACOUSTICAL ACCESSORIES	G.D. GL.		R.	RISER
ADJ. AFF	ADJACENT ABOVE FINISHED FLOOR	GLB. GND.	GLU-LAM BEAM GROUND	R.A. R.A.C.	ROOF AREA RUN ABOVE CEILING
AGGR. ALT. ALUM.	AGGREGATE ALTERNATE ALUMINUM	GR. GYP.	GRADE GYPSUM	R.B.F. RAD. R.D.	RUN BELOW FLOOR RADIUS ROOF DRAIN
ANDD. APPROX.	ANODIZED APPROXIMATE			REF. REFR.	REFERENCE REFRIGERATOR
ARCH. AWS	ARCHITECTURAL AMERICAN WELDING SOCIETY	Н. Н.В.	HIGH HOSE BIBB	REINF. REQD.	REINFORCED REQUIRED
B.B	BOTTOM OF BEAM	HDCP H.C.	HANDICAPPED HOLLOW CORE	RESIL. R.I.W.	RESILIENT RUN IN WALL
BD BITUM.	BOARD BITUMINOUS	H.D. HDG HDR.	HOLD–DOWN HOT DIPPED GALVANIZED HEADER	RM. R.O.	ROOM ROUGH OPENING
B.J. BLDG.	BOTTOM OF JOIST BUILDING	HDWD. HDWR.	HARDWOOD HARDWARE	RO.S. R.O.W. R.S.	ROUGH SAWN RIGHT OF WAY RESAWN
BLK. BLKG.	BLOCK BLOCKING	H.I.D. H.M.	HIGH INTENSITY DISCHARGE HOLLOW METAL	R.W.	REDWOOD
BM. BTM.	BEAM BOTTOM	HORIZ. H.P.	HORIZONTAL HIGH POINT	S. SACT.	SOUTH SUSPENDED_ACOUSTICAL
CAB.		H.R. HT.	HANDRAIL HEIGHT	S.C. S.C.D.	CEILING TILE SOLID CORE SEAT COVER DISP.
CATV CK-B C.B.	CABLE TELEVISION CHALK BOARD CATCH BASIN	H.W.	HOT WATER	S.C.D. SCHED. SD.	SCHEDULE STORM DRAIN
C.B. CEM. CER.	CEMENT CERAMIC	I.D. INCAN.	INSIDE DIAMETER	S.D. SECT.	SOAP DISPENSER SECTION
CHAM. CFMF	CHAMFER COLD FORM METAL FRAMING	INCL. INSUL. INT.	INCLUDE INSULATION INTERIOR	SGFT	STRUCTURALLY GLAZED FINISH TILE
C.I. C.J.	CAST IRON CONTROL JOINT		INTERIOR	SH. SHR. SHT.	SHELF SHOWER SHEET
C.L. CLG. CLKG.	CENTER LINE CEILING CAULKING	JAN.	JANITOR	SHTG. SIM.	SHEATHING SIMILAR
CLO. CLR.	CLOSET CLEAR	JST. JT.	JOIST JOINT	S.N.D.	SANITARY NAPKIN DISPENSER
CMU CNTR.	CONCRETE MASONRY UNIT COUNTER			S.N.R.	SANITARY NAPKIN RECEPTACLE
C.O. COL.	CLEAN OUT COLUMN	KIT.	KITCHEN	S & P SPEC. SQ.	SHELF & POLE SPECIFICATION SQUARE
CONC. CONN. CONSTR.	CONCRETE CONNECTION CONSTRUCTION			SST. SSK.	STAINLESS STEEL SERVICE SINK
CONT. CORR.	CONTINUOUS CORRIDOR/CORRUGATED	L. LAB.	LONG OR LENGTH LABORATORY	STA. STD.	STATION STANDARD
COORD. CPT.	COORDINATE CARPET	LAM. LAV. L.B.	LAMINATE LAVATORY LAG BOLT	STL. STOR. STRL.	STEEL STORAGE STRUCTUF
C.T. CPU C.R.	CERAMIC TILE CENTRAL PROCESSING UNIT CLASSROOM	LIN. L.O.C.	LINEAR LIMITS OF CONTRACT	STRL. SUSP. SYM.	STRUCTUF SUSPEN' J SYMM' KICAL
CRT CTR.	CATHODE RAY TUBE CENTER	LOC. L.P.	LOCATION LOW POINT	S.W.	SIDE K
CTSK. CU	COUNTERSUNK	LT.	LIGHT	Т.В. Т/В	POF L M
C.W.	COLD WATER	MAS. MAX.	MASONRY MAXIMUM	Т. & В. Т.С.	TOF ND BOT TOP CURB
D. DBL.	DEPTH DOUBLE	M.B. M.C. MECH.	MACHINE BOLT MECHANICAL CONTRACTOR MECHANICAL	TEI .م.	
D.D. DEPT.	DOOR DIMENSION DEPARTMENT	MECH. MEMB. MET.	MEDITANICAL MEMBRANE METAL	R. , G TH,	TON E & GFUOVE
DET. D.F.	DETAIL DOUGLAS FIR	MFG. MFR.	MANUFACTURED MANUFACTURER	T.J. TK-B	TOC JOINT T' SCARD
DIA. DIAG. DIM.	DIAMETER DIAGONAL DIMENSION	MH. MIN.	MANHOLE	TK-S T.L.	CK STRIP
DISP. DMT.	DISPENSER DEMOUNTABLE	MIR. MISC. MK-B	MIRROR MISCELLANEOUS MARKER BOA	T.O.F. T.O.S. T.P.	TOP OF FOOTING TOP OF STEEL TOP OF PAVEMENT
DN. D.O.	DOWN DOOR OPENING	M.O. MOD.	MASONRY OF UNG MODULAR		TOILET PAPER DISP TREAD
DR. DS. D.S.P.	DOOR DOWN SPOUT	M.R. MTD.	MOISTURE RESIS. MOLL	T.S. TS'	TOP OF SHEATHING TOP OF SLAB
D.S.P. D.W. DWG.	DRY STANDPIPE DISH WASHER DRAWING	MULL.	M″ .∟ION	TST T.V.	TOP OF STEEL TELEVISION
DWR.	DRAWER	Ν.	ORTH	T.W. TYP.	TOP OF WALL TYPICAL
Е.	EAST	Ν	N IN CONTRA	U.G.	UNDERGROUND
L. (E) EA.	EAST EXISTING EACH	J. OR NOM. N.R.C.	# NU, P NOMIN, NOISE REDUCTION	UNF. U.N.O.	UNFINISHED UNLESS NOTED
E.F. E.J.	EXHAUST FAN EXPANSION JOINT	N.R.C.	COEFFIC. NEAR SIDE	UR.	OTHERWISE URINAL
ELEC. ELEV.	ELECTRICAL ELEVATION	N.	NOT TO SCALE	V.C.T.	VINYL COMPOSITION
ELVR. EMER. ENCL.	ELEVATOR EMERGENCY	0/ 0.A.	OVER OVER-ALL CUSCURE	VB VERT.	TILE VAPOR BARRIER
ENCL. EQ. EQUIP.	ENCLOSURE EQUAL EQUIPMEN	OBS. 0.C. 0.D.	ON CENTER OUTSIDE DIAMETER	VERT. VEST. V.F.	VERTICAL VESTIBULE VINYL FABRIC
E.W. EXIST.	EACH WAY EXISTING	OFF. O.H	OFFICE OVERHEAD	V.G. VIF	VERTICAL GRAIN VERIFY IN FIELD
EXPO. EXP.	EXP F ANSION	O' NG. JPP.	OPENING OPPOSITE	VNR	VENEER
EXT.	XTERIOR	OPP. HI O.T.S.	ND. OPPOSITE HAND OPEN TO STRUCTURE	W.	WEST, WIDTH, WIDE
(F)	TURE	PART.	PARTITION	W/ W.C.	WITH WATER CLOSET
F. F.D.	NISHED BY THE S FL DRAIN	P.C. PED.	PORTLAND CEMENT PEDESTAL	WCV WD. W D	WALL COVERING WOOD WINDOW DIMENSION
FDN. F.E.	FOUND. 'RE EXTINGUIS HER E EXISTING CAR	PERP. P.H.	PERPENDICULAR PANIC HARDWARE	W.D. WG. W.H.	WINDOW DIMENSION WIRE GLASS WATER HEATER
F.H.	GAS TINE HYPRANT	P.L. PL. P/LAM.	PROPERTY LINE PLATE PLASTIC LAMINATE	W/O WP.	WATER HEATER WITHOUT WATERPROOF
н.с.	FIRE LOSE CAB. FINISA	P/LAM. PLAS. PLMBG.	PLASTIC LAMINATE PLASTER PLUMBING	WSCT. WT.	WAINSCOT WEIGHT
F.L FLR.	FLOW LINE	P.P. PR.	POWER POLE PAIR	WWF	WELDED WIRE FABRIC
FLASH, FLUOF.	FLASHING FLUORESCENT FACE OF CONCRETE	PROP. PRCST.	PROPOSED PRECAST	Y.D. YD.	YARD DRAIN YARD
F.O.C.	FACE OF CONCRETE	PKI, BR	RD. PARTICLE BOARD	ı ل.	

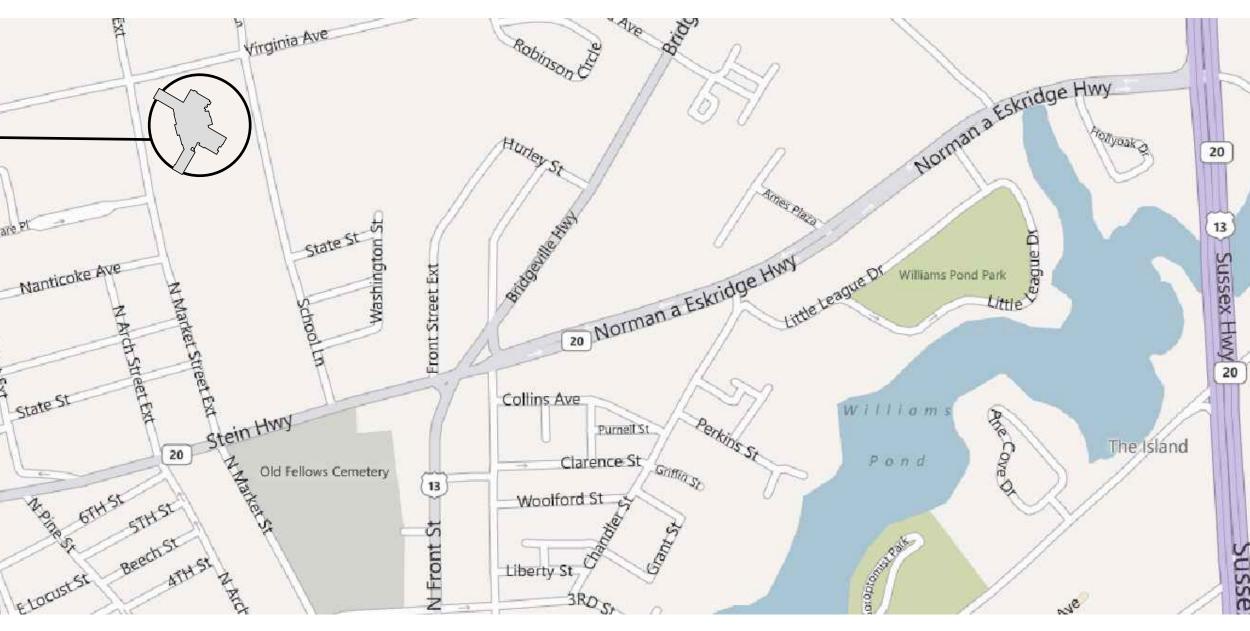


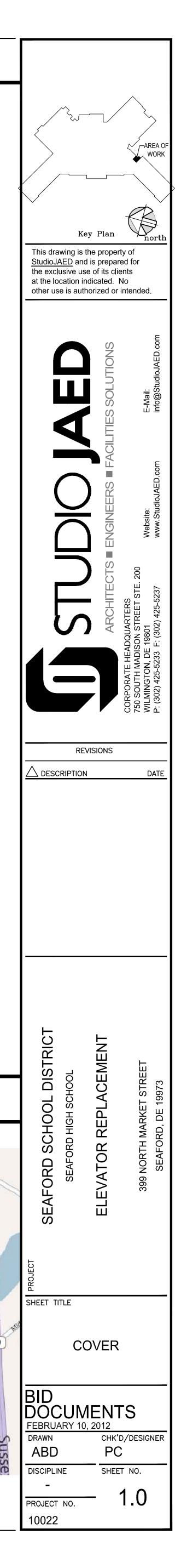
SYMBOLS LEGEND

INDEX OF DRAWINGS



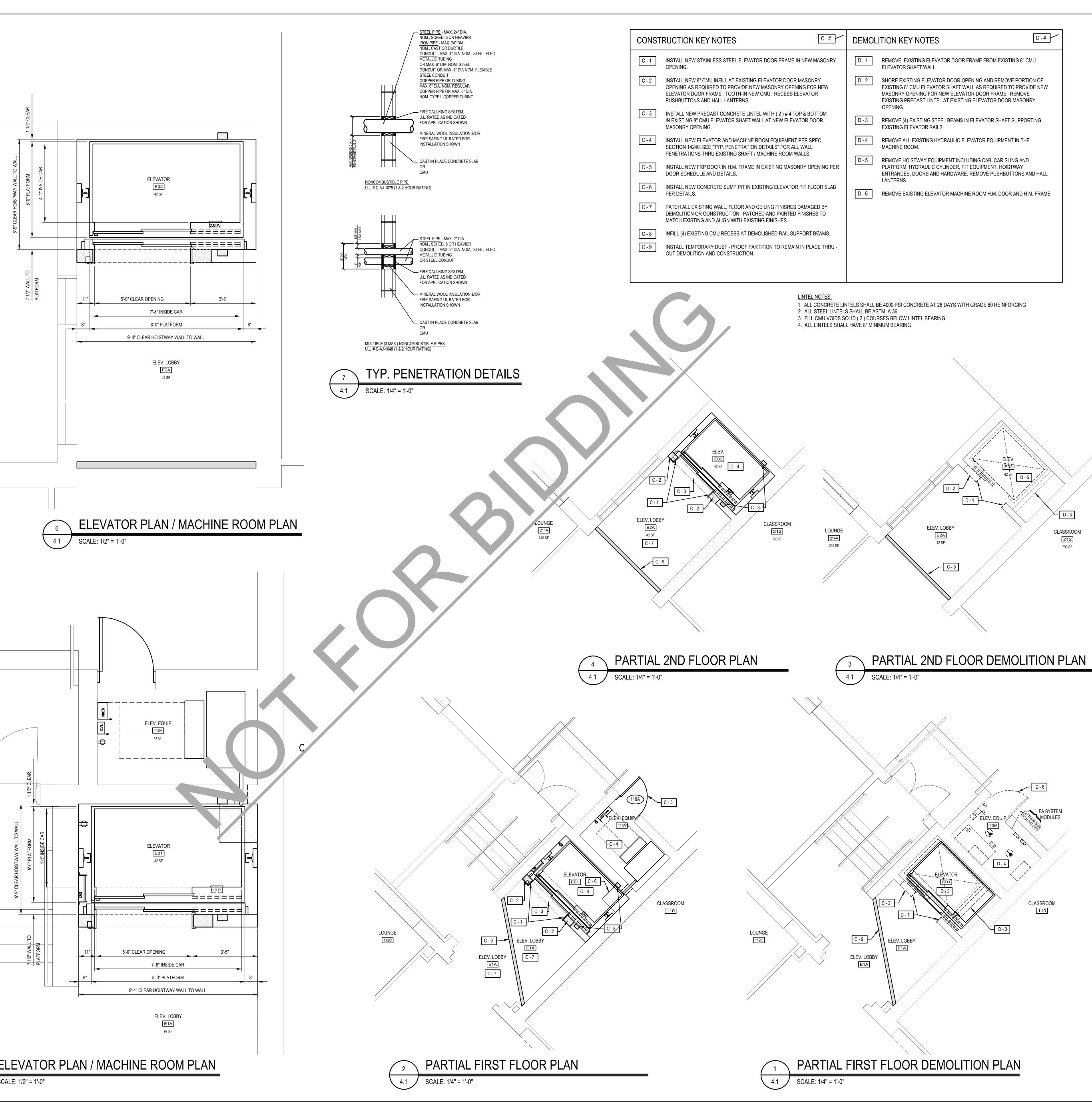
LOCATION PLAN

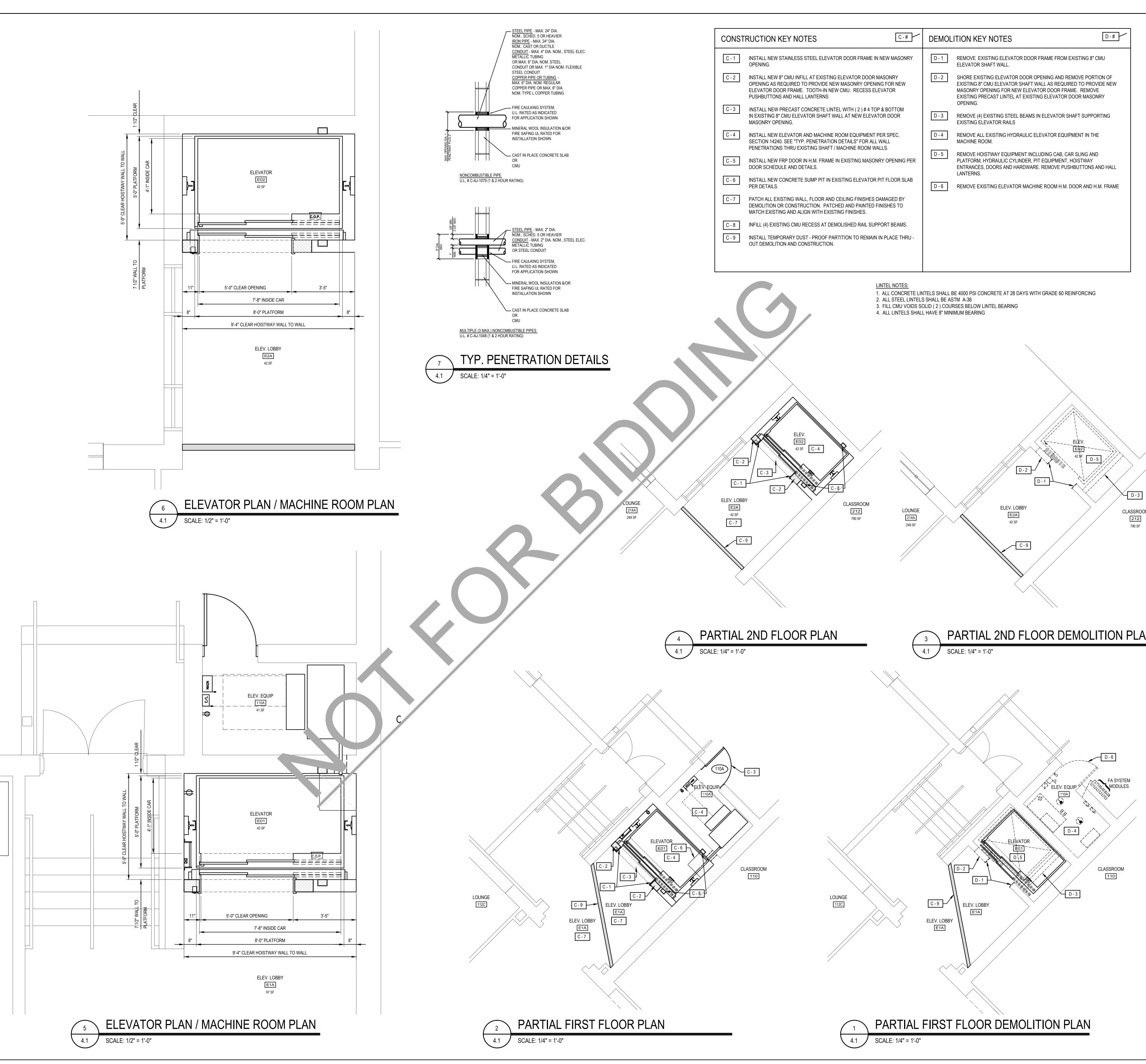


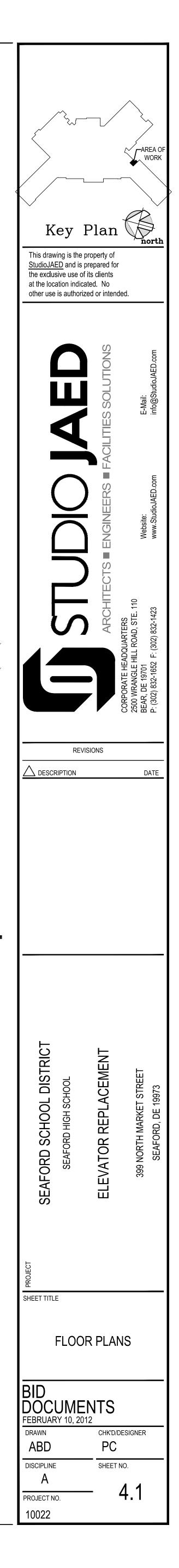




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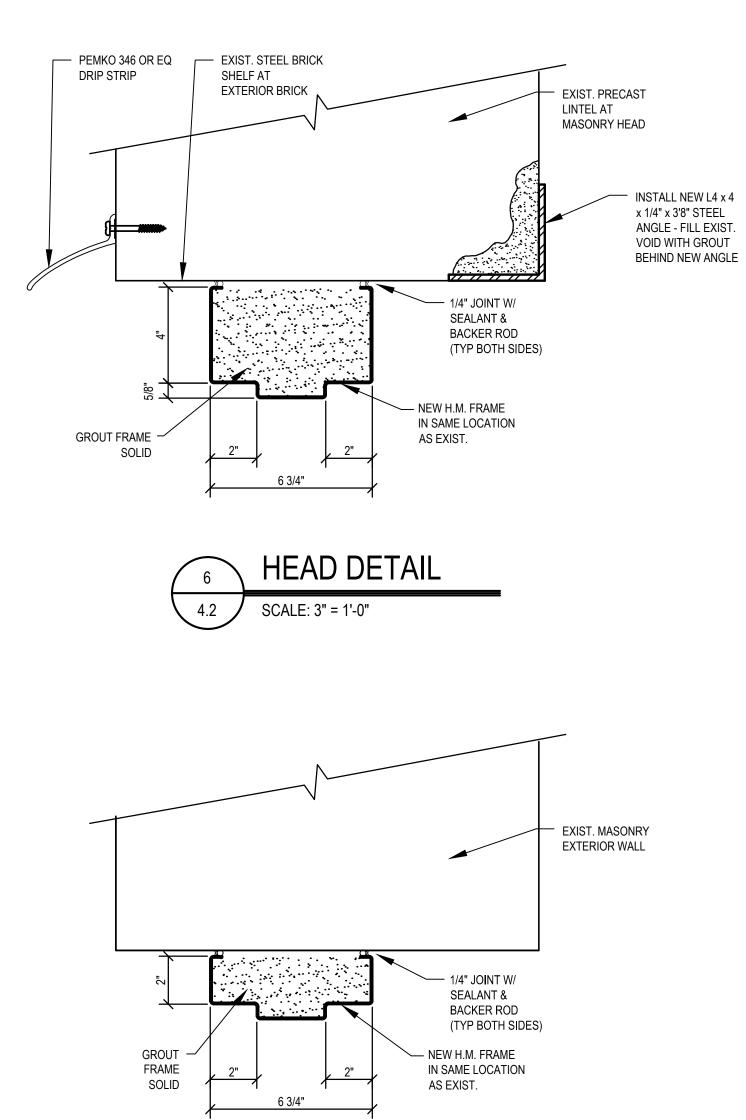






ROOM FINISH SCHEDULE									
NO.	ROOM NAME	WALL	FLOOR	BASE	CEILING		REMARKS		
NO.					FINISH	HEIGHT	REIMARNO		
E1A	ELEVATOR LOBBY	PAINT CMU	EXIST.	EXIST.	EXIST.	EXIST.	PAINTED CMU ON (2) WALLS		
110A	ELEVATOR MACHINE ROOM	PAINT CMU	EXIST.	-	-	-	PAINT ALL FOUR WALLS		
E2A	ELEVATOR LOBBY	PAINT CMU	EXIST.	EXIST.	EXIST.	EXIST.	PAINTED CMU ON (2) WALLS		

	DOOR SCHEDULE											
	DOOR NUMBER	DESCRIPTION						FRAME DETAILS		SET		
		DOOR	DOOR		DOOR TYPE	MATERIAL		Ģ	В	HARDWARE S	REMARKS	
		WIDTH HEIG	HEIGHT			DOOR	FRAME	HEAD	JAMB	HAR		
	110A	3'-0"	7'-0"	1 3/4"	FLUSH	FRP	H.M.	6 / 4.2	7 / 4.2	A	EXISTING MASONRY OPENING SUBMIT DOOR COLOR TO ARCHI	



 7
 JAMB DETAIL

 4.2
 SCALE: 3" = 1'-0"

Hardware Schedule

Hardware Set "A" - SGL DRS FRP DRS & HMF EXTERIOR 115

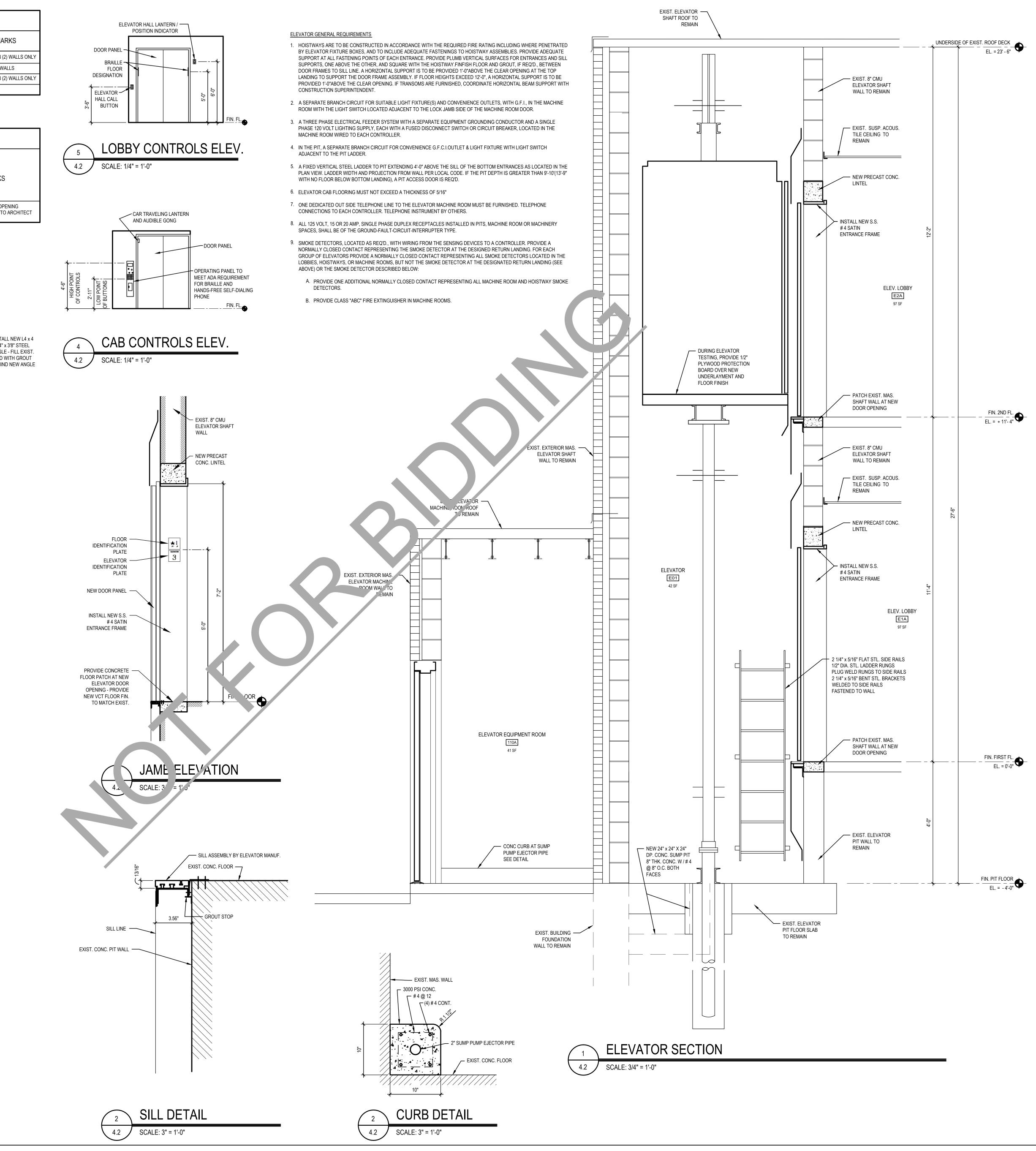
Opening to 11

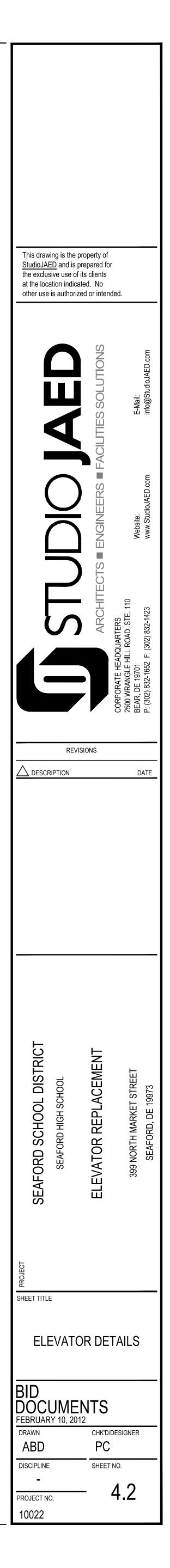
Opening to Have:

- Qty Description 1 CONTINUOUS HINGE A110HDC x FULL HEIGHT
- 1 MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x MX8 1 RIM CYLINDER [IC] 1E72 x RP x ABC x MX8
- 1 RECESSED PULL SL-86
- 1 RIM EXIT DEVICE 2103CD x CA-03 x S301 1 SPACER BLOCK P45HD-110 (HD ARMS)
- 1 MOUNTING PLATE P45HD-180D (PA MOUNT)
- 1 DOOR CLOSER D-4550 x HCS x SRI 1 ANGLE BRACKET SHOE P45HD-112
- 1 MAGNETIC SWITCH MC-7 x SPDT x 1" DIA
- 1 TEAR DROP SEAL W-22 x HEAD & JAMBS
- 1 RAIN DRIP W-3 x OPENING WIDTH + 4" SMS 1 THRESHOLD CT-72 x ANTI-SLIP x FHSL25
- 1 DOOR BOTTOM SWEEP (CONCEALED) BY FRP DOOR SUPPLER

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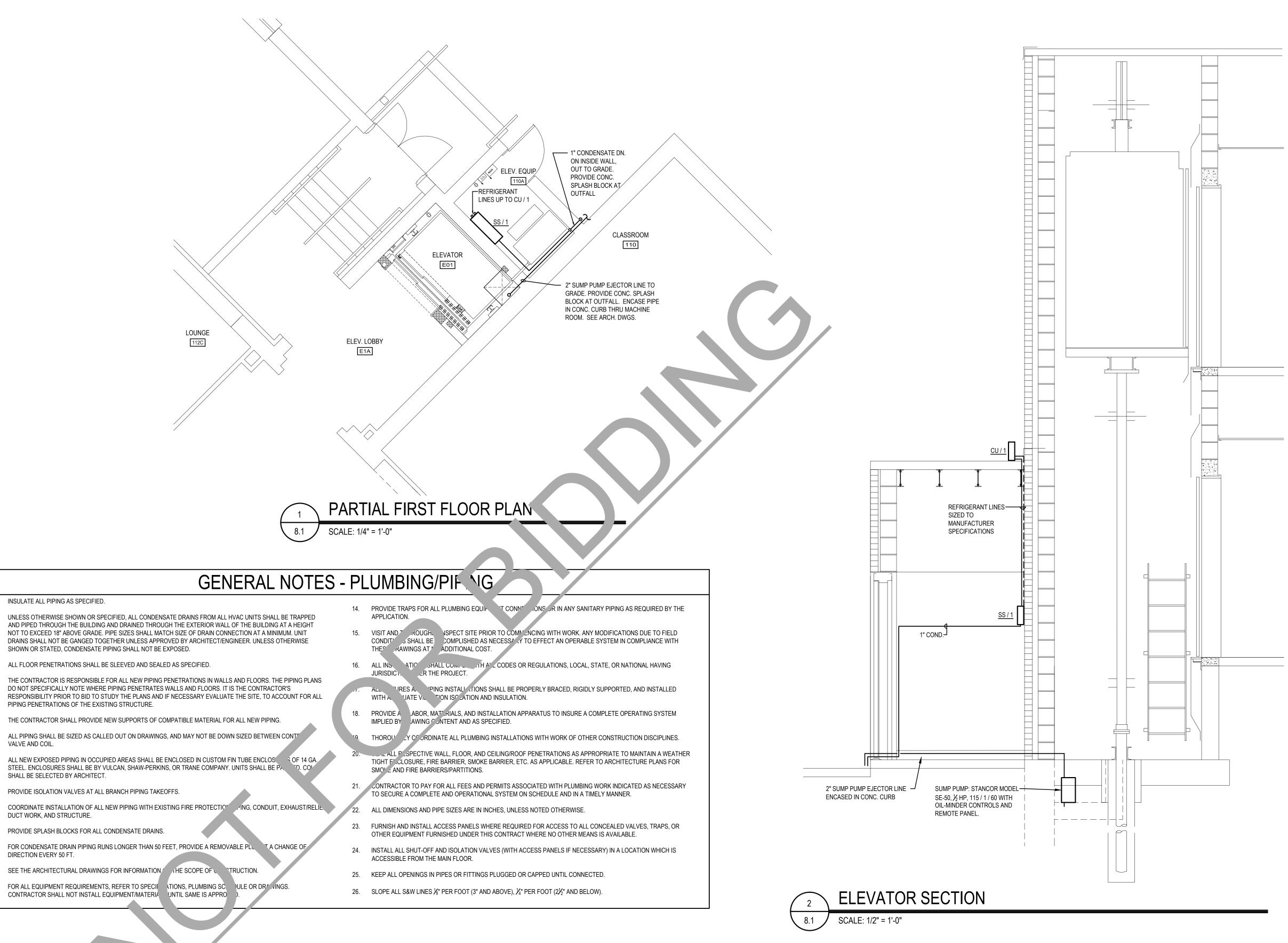


	ALL NEW SUPPLY AIR DIFFUSERS AND RETURN AIR REGISTERS SHALL BE EQUIPPED W/ MFGR. SUPPLIED VOLUME DAMPERS.
2.	FIRE DAMPERS SHALL BE PLACED IN ALL DUCT OR TRANSFER AIR PENETRATIONS OF ALL FIRE RATED PARTITIONS. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED PARTITIONS. PROVIDE LABELED ACCESS DOORS AS NEEDED. FIRE DAMPERS AND INSTALLATION ARE TO BE IN ACCORDANCE WITH THE 2003 INTERNATIONAL MECHANICAL CODE.
3.	DUCT SMOKE DETECTORS ARE TO BE SUPPLIED AND INSTALLED WHERE SHOWN IN ACCORDANCE WITH NFPA 72. ACCESS SHALL BE PROVIDED TO SMOKE DETECTORS FOR INSPECTION AND MAINTENANCE. ELECTRICAL CONTRACTOR SHALL MAKE APPROPRIATE AND REQUIRED ELECTRICAL CONNECTIONS TO THE DUCT SMOKE DETECTORS AS SPECIFIED AND REQUIRED FOR PROPER OPERATION. DUCT SMOKE DETECTORS SHALL DE-ENERGIZE THE AIR HANDLING UNIT, OR EXHAUST FAN, THAT THEY ARE ASSOCIATED WITH AND ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL IN THE BUILDING'S FIRE PROTECTIVE SIGNALING SYSTEM AT A CONSTANTLY ATTENDED LOCATION. ANY SYSTEM THAT IS DE-ENERGIZED BY THE ALARM SHALL NOT RESTART EXCEPT BY MANUAL RESET ON THE UNIT R THROUGH THE BAC SYSTEM. SMOKE DETECTORS SHALL COMPLY WITH SECTIONS 606.2, 606.3 AND 606.4 OF THE 1996 INTERNATIONAL MECHANICAL CODE IN ENTIRETY.
4.	PIPES, BUS DUCTS, CABLES, WIRES, AIR DUCTS AND SIMILAR BUILDING SERVICE EQUIPMENT THAT PASS THROUGH SMOKE PARTITIONS SHALL BE PROTECTED AS STATED IN NFPA 101 CHAPTER 6-3.6. THE SPACE BETWEEN THE PENETRATING PIPE OR DUCT AND THE SMOKE BARRIER SHALL:
	A. BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE SMOKE-RESISTANCE OF THE SMOKE BARRIER OR
	B. BE PROTECTED BY AN APPROVED DEVICE DESIGNED FOR THE SPECIFIC PURPOSE.
5.	INSULATION AND COVERINGS FOR PIPES AND DUCTS SHALL NOT PASS THROUGH FIRE BARRIERS UNLESS ONE OF THESE REQUIREMENTS IS MET. CONTRACTOR IS RESPONSIBLE FOR CHOOSING WHICH ALTERNATIVE TO USE UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS OR SPECIFICATIONS.
6.	INSULATE ALL NEW DUCTWORK AND EQUIPMENT, AS SPECIFIED UNLESS OTHERWISE NOTED. ALL NON-FLEXIBLE DUCTWORK SHALL BE METAL. DUCTBOARD IS PROHIBITED.
7.	PROVIDE AND INSTALL ALL GAUGES AND METERS AS SHOWN AND SPECIFIED.
3.	MFGR'S OF ALL COILS SHALL ENSURE THAT THE COILS ARE CLEAN AND FREE OF ANY RESIDUE FROM THE MANUFACTURING AND SHIPPING PROCESS. IF COILS ARE FOUND TO BE DIRTY OR SMOKE WHEN HOT WATER IS PROVIDED TO THEM, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING OF THE COILS, AS WELL AS, CLEANING THE BUILDING FROM SMOKE, COIL EMANATIONS, OR VAPORS.
9.	ALL DUCTS SHALL BE CONNECTED TO AIR OUTLETS, AIR INLETS, AND AIR HANDLING DEVICES TO PROVIDE A COMPLETE DUCTWORK SYSTEM. FOR CONNECTION TO AIR OUTLETS UP TO 5 FEET OF FLEX DUCT SHALL BE USED WHERE CONCEALED FROM OCCUPANT VIEW. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRANSITIONS TO ENSURE PROPER AND ADEQUATE CONNECTIONS OF ALL DUCTWORK TO ALL AIR INLETS, OUTLETS, AIR HANDLING DEVICES AND AIR TERMINAL DEVICES. DUCTWORK IS TO BE COORDINATED WITH TRANSFER AIR OPENINGS AND ROOF TRUSS SYSTEM, OR STRUCTURAL STEEL.
10.	THE RETURN AIRFLOWS INDICATED ON THE PLANS CORRESPOND TO THE OCCUPIED MODE WITH MINIMUM OUTSIDE AIR BEING SUPPLIED. THE BALANCE REPORT IS TO INDICATE THESE AIRFLOWS IN THIS MODE OF OPERATION.
1.	GRAVITY VENTILATORS, ROOF EXHAUSTERS AND ASSOCIATED DUCTWORK CONNECTIONS ARE TO BE COORDINATED WITH BUILDING STRUCTURAL COMPONENTS.
12.	HVAC EQUIPMENT SHALL BE FURNISHED WITH A MOTOR STARTER SUITABLE FOR THE OFF-ON CONTROL OF THE MOTOR BY A REMOTE THERMOSTAT OR BAS CONTACT. THESE STARTERS SHALL COMPLY WITH NATIONAL ELECTRIC CODE.
3.	ALL AIR HANDLING UNITS ARE TO BE INSTALLED TO PROVIDE ADEQUATE, UNOBSTRUCTED, ACCESS AND CLEARANCE FOR AIR FILTER REPLACEMENT.
4.	ALL MOTORS FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR (OR A MECHANICAL SUBCONTRACTOR) SHALL BE PROTECTED AGAINST OVERLOAD IN ACCORDANCE WITH N.E.C. ARTICLE 430, SECTION C.
15.	WHERE DEMOLISHING AND REMOVING UV'S, REMOVE ASSOCIATED LOUVER. CONTRACTOR MUST PATCH AND PAINT TO MATCH EXISTING SURROUNDINGS.
16.	VENTS AND PLUMBING VENTS SHALL BE LOCATED A MINIMUM OF 10' FROM ANY INTAKE AIR OPENING.
17.	MECHANICAL EQUIPMENT AND DEVICES SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND VIBRATION BEING TRANSMITTED TO OCCUPIED PORTIONS OF THE BUILDING OR ANY PART OF THE BUILDING STRUCTURE BY APPARATUS, PIPING, DUCTWORK, CONDUITS, OR OTHER PARTS OF THE MECHANICAL SYSTEM. SECURE AND BRACE ALL PIPING AND DUCTWORK, PROVIDE FLEXIBLE CONNECTION, VIBRATION ISOLATORS, OR OTHER DEVICES WHERE INDICATED OR REQUIRED TO PREVENT THE TRANSMISSION OF NOISE AND VIBRATION TO THE BUILDING. NC LEVEL IS 35.
18.	ALL NEW CEILING MOUNTED AIR INLETS AND AIR OUTLETS ARE TO BE COORDINATED WITH LIGHTING. A NEAT, SYMMETRICAL INSTALLATION IS TO BE MAINTAINED, WITH CEILING MOUNTED AIR INLETS/OUTLETS IN PROXIMITY TO LOCATIONS SHOWN ON THE PLANS. IN THE CASE THAT THERE IS A CONFLICT, THE LOCATION OF THE LIGHTING WILL TAKE PRIORITY AND THE INLET/OUTLET SHALL BE RELOCATED AS CLOSE AS POSSIBLE. DUCTWORK SHOP DRAWINGS ARE TO SHOW PLACEMENT OF AIR INLETS/OUTLETS WITH LIGHTING OVERLAID ON THE SAME PLAN. CONTRACTORS ARE TO USE REFLECTED CEILING PLAN AS BASIS FOR COORDINATION.
19.	THE CONTRACTOR SHALL PROVIDE ALL WALL AND ROOF PENETRATIONS REQUIRED FOR DUCT ROUTING. THE CONTRACTOR SHALL PATCH AND PAINT ALL PENETRATIONS LEFT BY DEMOLITION WORK AND BY CLEARANCE OPENINGS THAT REMAIN AFTER NEW DUCT INSTALLATIONS.
20.	NOTIFY THE OWNER IN THE EVENT ANY EXISTING HAZARDOUS MATERIALS, SUCH AS ASBESTOS, PCB'S, LEAD, ETC., ARE ENCOUNTERED ON THE PROJECT. THE OWNER WILL ARRANGE WITH A QUALIFIED SPECIALIST FOR THE IDENTIFICATION, TESTING, REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION, TO COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES.
21.	ALL THERMOSTATS SHOWN ON HVAC PLANS ARE TO BE MOUNTED 4'-0" MAXIMUM AFF (TOP OF UNIT), UNLESS NOTED OTHERWISE. CONTRACTOR IS RESPONSIBLE FRO MOUNTING & WIRING ALL THERMOSTATS. PLENUM RATED CABLES MUST BE USED.
22.	VARIABLE FREQUENCY DRIVES (VFD) SHALL BE CONSIDERED SYNONYMOUS WITH ADJUSTABLE FREQUENCY DRIVES (AFD).
23.	THE CONTRACTOR SHALL PROVIDE RADIUSED ELBOWS OR SQUARE THROAT ELBOWS WITH VANES FOR ALL DUCTWORK CHANGES IN DIRECTION, PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. SQUARE THROAT ELBOWS WITHOUT VANES AND MITERED ELBOWS ARE NOT PERMITTED.
24. 25.	ALL BLOWER COILS UNITS ARE TO HAVE 24" MINIMAL CLEARANCE ON ACCESS SIDE COORDINATE UNIT SUSPENSION WITH STRUCTURE. ALL GANG TOILET ROOM DOORS ARE TO BE UNDERCUT TO PROVIDE 0.75" CLEARANCE BETWEEN BOTTOM OF DOOR AND FINISHED
26.	FLOOR. HANG ALL CEILING MOUNTED UNITS HIGH TO ALLOW FOR CONDENSATE TRAPPING AND GRAVITY VENTS.
<u>2</u> 7.	ALL QUANTITIES TO BE VERIFIED BY CONTRACTOR.
28.	ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR/BIDDER.
29.	INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S WRITTEN INSTRUCTION.
30.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS INCURRED AS A RESULT OF SUBSTITUTIONS OR DEVIATIONS FROM THE BASIS OF DESIGN SHOWN ON THESE DRAWINGS.
31.	CONTROLS ARE TO BE EXTENDED TO ALL EXISTING, REUSED MECHANICAL EQUIPMENT, INCLUDING EXISTING UNIT VENTILATORS AND EXHAUST FANS. THESE ARE TO BE TIED INTO AND CONTROLLED BY THE NEW BAS SYSTEM.
32.	CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRANSITIONS AND FLEXIBLE CONNECTIONS BETWEEN ALL UNITS AND SUPPLY, RETURN, OR OUTSIDE AIR DUCTS.
	CONTRACTOR SHALL PROVIDE NEW DANFOSS OR APPROVED EQUAL VALVES FOR ALL HEAT ONLY COILS.
33. 34.	

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VALVE AND COIL.

INSULATE ALL PIPING AS SPECIFIED.



UNLESS OTHERWISE SHOWN OR SPECIFIED, ALL CONDENSATE DRAINS FROM ALL HVAC UNITS SHALL BE TRAPPED AND PIPED THROUGH THE BUILDING AND DRAINED THROUGH THE EXTERIOR WALL OF THE BUILDING AT A HEIGHT NOT TO EXCEED 18" ABOVE GRADE. PIPE SIZES SHALL MATCH SIZE OF DRAIN CONNECTION AT A MINIMUM. UNIT DRAINS SHALL NOT BE GANGED TOGETHER UNLESS APPROVED BY ARCHITECT/ENGINEER. UNLESS OTHERWISE SHOWN OR STATED, CONDENSATE PIPING SHALL NOT BE EXPOSED.

THE CONTRACTOR IS RESPONSIBLE FOR ALL NEW PIPING PENETRATIONS IN WALLS AND FLOORS. THE PIPING PLANS DO NOT SPECIFICALLY NOTE WHERE PIPING PENETRATES WALLS AND FLOORS. IT IS THE CONTRACTOR'S RESPONSIBILITY PRIOR TO BID TO STUDY THE PLANS AND IF NECESSARY EVALUATE THE SITE, TO ACCOUNT FOR ALL PIPING PENETRATIONS OF THE EXISTING STRUCTURE.

THE CONTRACTOR SHALL PROVIDE NEW SUPPORTS OF COMPATIBLE MATERIAL FOR ALL NEW PIPING.

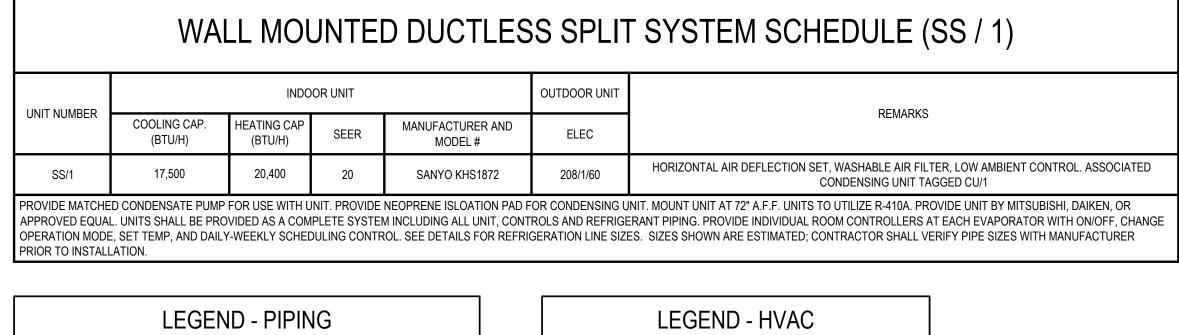
ALL NEW EXPOSED PIPING IN OCCUPIED AREAS SHALL BE ENCLOSED IN CUSTOM FIN TUBE ENCLOS STEEL. ENCLOSURES SHALL BE BY VULCAN, SHAW-PERKINS, OR TRANE COMPANY. UNITS SHALL BE PA. TO. CO SHALL BE SELECTED BY ARCHITECT.

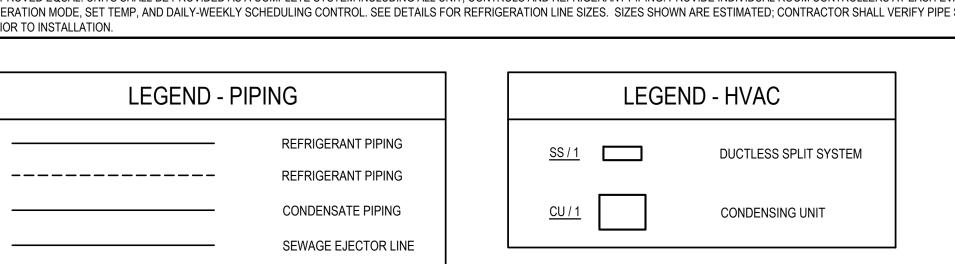
PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING TAKEOFFS.

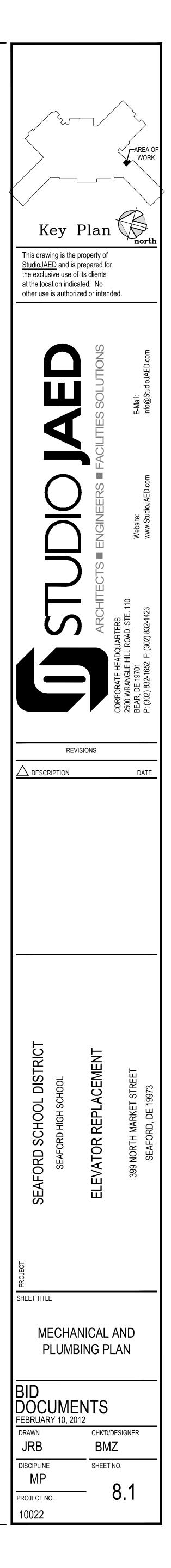
DUCT WORK, AND STRUCTURE. PROVIDE SPLASH BLOCKS FOR ALL CONDENSATE DRAINS.

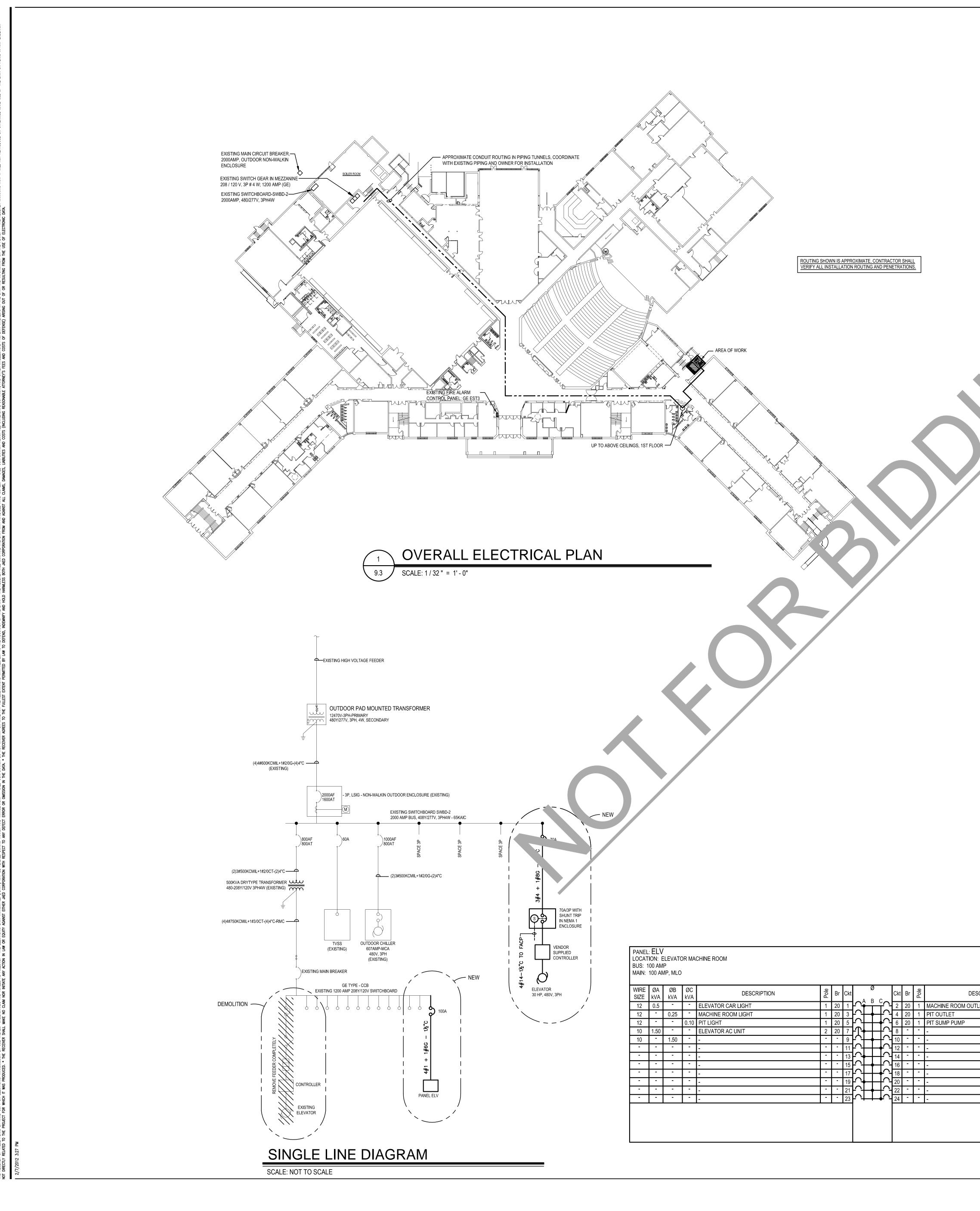
DIRECTION EVERY 50 FT. 12. SEE THE ARCHITECTURAL DRAWINGS FOR INFORMATION (HE SCOPE OF C TRUCTION.

FOR ALL EQUIPMENT REQUIREMENTS, REFER TO SPECIE ATIONS, PLUMBING SC. ULE OR DR/ VINGS.









ELECTRICAL SYMBOL LEGEND
125V, 20A GROUNDING TYPE DUPLEX RECEPTACLE - NEMA 5-20R
125V, 20A GROUNDING TYPE QUAD RECEPTACLE - (2) NEMA 5-20R
NEAM 5-20R OUTLET PROTECTED BY GFCI CB LOCATED IN PANEL.
FLUSH MTD. PANELBOARD
SURFACE MTD. PANELBOARD
DISCONNECT, # INDICATES AMP RATING, CB DETERMINES IF 1Ø OR 3Ø
MOTORIZED EQUIPMENT ELECTRICAL CONNECTION (LETTERING IDENTIFIES MECHANICAL UNIT, i.e. UNIT "EF/2")
CIRCUIT WIRING
HOMERUN CIRCUIT DESIGNATION (i.e. PANEL PPA, CIRCUIT BREAKER 20)
DATA JACK - RJ45 CATAGORY 6 AND INSTALL IN METALIC RACEWAY IN ROOM AND ¾" CONDUIT & RUN TO MDF ROOM PHONE PANEL. TYPE OF JACK TO BE DETERMINED BY LOCATION AND NOTES ON DRAWING E9.14
INFORMATION OUTLET TYPE A OUTLETS WITH COAX BUT WITHOUT FIBER OPTIC. THE FRONT OFFICE SHALL HAVE A MASTER PHONE CONSOLE AS SPECIFIED OR EQUAL. TYPE C WITH 3 OR 4 DATA JACKS AS CALLED OUT IN ELECTRICAL SCOPE FOR CLASSROOM, LIBRARY OR PC LABS AS CALLED FOR ON E9.14. REFER TO STANDARDS FOR CLARIFICATIONS.
SWITCH - 20A, 120/277V, 1 POLE - HUBBLE - CSB120 OR EQUAL
PRESCOLITE XEL-WH DESIGHER EMERGENCY LIGHT OR EQUAL
FRACTIONAL HORSE POWER MOTOR STARTER WITH OVERLOAD. NEMA 1 ENCLOSURE.

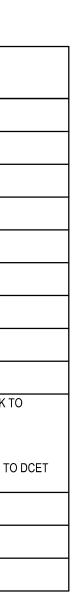


AMPERES AMP or A ABOVE FINISHED FLOOR AMERICAN WIRE GAUGE AWG CLG. CEII ING CKT CIRCUIT DWG EQ DRAWING EQUAL (E)/EXIST. EXISTING GND GROUND HORSE POWER HP KILOWATTS kW MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL MLO MAIN LUGS ONLY MTD. MOUNTED N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE PANEL PNL PWR POWER RMC RIGID METAL CONDUIT TYP. TYPICAL VIF. VERIFY IN FIELD

ELECTRICAL NOTES

- PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, AND ALL INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM AS DETAILED ON PLANS TO THE SATISFACTION OF THE ENGINEER AND THE OWNER. COORDINATE ALL WORK WITH ALL OTHER TRADES AS REQUIRED.
- PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIAL, LABOR, AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY INDICATED OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR.
- PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENT AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
- 4. MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CMB APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND LOCAL ELECTRICAL CODE.
- 5. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS, AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
- 6. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUISITIONS FOR PAYMENT ARE SUBMITTED.
- GUARANTEE WORK IN WRITING PER SPECIFICATIONS, REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER DURING THE GUARANTEE PERIOD. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER. SUBMIT GUARANTEE TO OWNER BEFORE FINAL PAYMENT.
- 8. COORDINATE ALL ELECTRICAL ITEMS WITH EXISTING FIELD CONDITIONS. LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT IN THE FIELD TO MEET THE DESIGN INTENT.
- 9. DAMAGE TO EXISTING FACILITIES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. 10. THE LOCATIONS ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OTHER TRADES AND VERIFICATION OF
- EXISTING CONDITIONS. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING ASSOCIATED EQUIPMENT AND CONDITIONS. COORDINATE THE LOCATION OF ALL EQUIPMENT WITH THE ENGINEER AND THE OWNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER TRADE'S DRAWINGS AND SPECIFICATIONS AND COORDINATING WITH ALL OTHER TRADES DURING BIDDING AND CONSTRUCTION.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUITY OF ALL POWER, CONTROL, FIRE ALARM, SECURITY SYSTEMS, AND COMMUNICATIONS FUNCTIONS TO ALL AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.
- 12. REPAIR AND PATCH ANY DISTURBED AREAS TO MATCH ADJACENT CONSTRUCTION.
- 13. DISCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION. 14. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THIS CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY
- OR ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALLING, AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.
- 15. PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MAINTAIN THOSE CIRCUITS THAT EXTEND OUTSIDE THE SCOPE OF WORK.
- 16. AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL ENSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY, INCLUDING BUT NOT LIMITED TO BACKFEEDING OF EXISTING POWER AND LIGHTING CIRCUITS. REFER TO SINGLE LINE DIAGRAM.
- 17. ALL ELECTRICAL WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED TO PREVENT ANY DAMAGE.
- 18. WHERE ELECTRICAL SYSTEMS PASS THROUGH RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, SYSTEMS SHALL BE SUITABLY PROTECTED TO PREVENT DAMAGE OR RELOCATED AND THE SYSTEMS RESTORED TO NORMAL OPERATION. ANY OUTAGES IN SYSTEMS SHALL BE COORDINATED WITH OWNER. RESTORE POWER TO EXISTING TO REMAIN EQUIPMENT IF INTERRUPTED BY DEMOLISHED CIRCUITS IN THE AREA.
- 19. CONTRACTOR SHALL SUBMIT FOR REVIEW, SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS USED ON THE PROJECT. SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER BEFORE PURCHASE OF MATERIALS.
- 20. UNLESS NOTED ON DRAWINGS, MINIMUM WIRE SHALL BE AWG #12 THHN/THWN, 75 DEG. CENTIGRADE, 600 VOLT INSULATION, COPPER. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH.
- 21. PERMANENTLY LABEL ALL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION. UPDATE OR REPLACE PANEL DIRECTORIES TO INCLUDE NEW CIRCUIT INFORMATION RESULTING FROM THIS PROJECT.
- 22. PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT. ALL TEMPORARY AND INTERIM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO NFPA 110 AND NFPA 70. 23. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION THAT IS NOT SHOWN ON DRAWINGS.
- 24. OPENINGS IN EXISTING CONCRETE, REQUIRED FOR CONDUIT INSTALLATION, SHALL BE CORE DRILLED. MAXIMUM CORE DRILL SIZE SHALL BE 5" IN DIAMETER. CORE DRILL LOCATIONS SHALL BE SPACED A MINIMUM OF 6" FROM EACH OTHER MEASURED FROM THE OUTSIDE EDGE OF THE CORE DRILL. ALL CORE DRILL OPENINGS SHALL BE PROPERLY SEALED ACCORDING TO THEIR LOCATION AND APPLICATION.
- 25. ALL OUTAGES SHALL BE KEPT TO A MINIMUM. ALL WORK THAT REQUIRES A SUSTAINED EQUIPMENT OUTAGE SHALL BE PERFORMED CONTINUOUSLY AROUND THE CLOCK UNTIL WORK IS COMPLETED UNLESS NOTED OTHERWISE. COORDINATE OUTAGES WITH OWNER REPRESENTATIVE.
- 26. PROVIDE FOR EACH BRANCH CIRCUIT AND FEEDER CIRCUIT A DEDICATED EQUIPMENT GROUND WIRE. FOR SINGLE PHASE BRANCH CIRCUITS OF 120 V/1PH OR 277V/1 PH, PROVIDE DEDICATED HOT, DEDICATED NEUTRAL AND DEDICATED EQUIPMENT GROUND WIRES. SHARING OF NEUTRAL OR EQUIPMENT GROUND WIRES IS NOT PERMITTED. 7. PROVIDE IDENTIFICATION LABELS FOR ALL BRANCH CIRCUITS AND FEEDERS CIRCUITS AT JUNCTION BOXES, PANELBOARDS, TROUGHS,
- AND SPLICE BOXES. 28. COORDINATE ELECTRICAL CONNECTIONS TO HVAC EQUIPMENT OR VENDOR SUPPLIED EQUIPMENT WITH DRAWINGS, SPECIFICATIONS FOR ALL, AND MECHANICAL CONTRACTOR.
- 29. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT WITH ALL OTHER TRADES.
- 30. CONNECT NEW FIRE ALARM SYSTEM DEVICES TO EXISTING FA SYSTEM (MFG. EST 3). PROVIDE NEW WIRING AND REWORK SOFTWARE AND HARDWARE IN EXISTING FACP.
- 31. ALL WIRING IN ELEVATOR MACHINE ROOM, ELEVATOR PIT AND HOIST WAY SHALL BE IN RIGID METAL CONDUIT.

VOLTAGE: ENCLOSURE: A.I.C: RATINGS:	NEMA	208Y/120V, 3PH4W NEMA 1 10,000 (MIN.) FULL						
SCRIPTION		ØA kVA	ØB kVA	ØC kVA	WIRE SIZE			
TLET		0.18	-	-	12			
		-	0.18	-	12			
		-	-	0.5	12			
		-	-	-	-			
		-	-	-	-			
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