

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION

BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES



CONTRACT NO. 1A - GENERAL CONSTRUCTION
CONTRACT NO. 1B - MECHANICAL CONSTRUCTION
CONTRACT NO. 1C - ELECTRICAL CONSTRUCTION

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CITY OF ITHACA
TOMPKINS COUNTY, NEW YORK

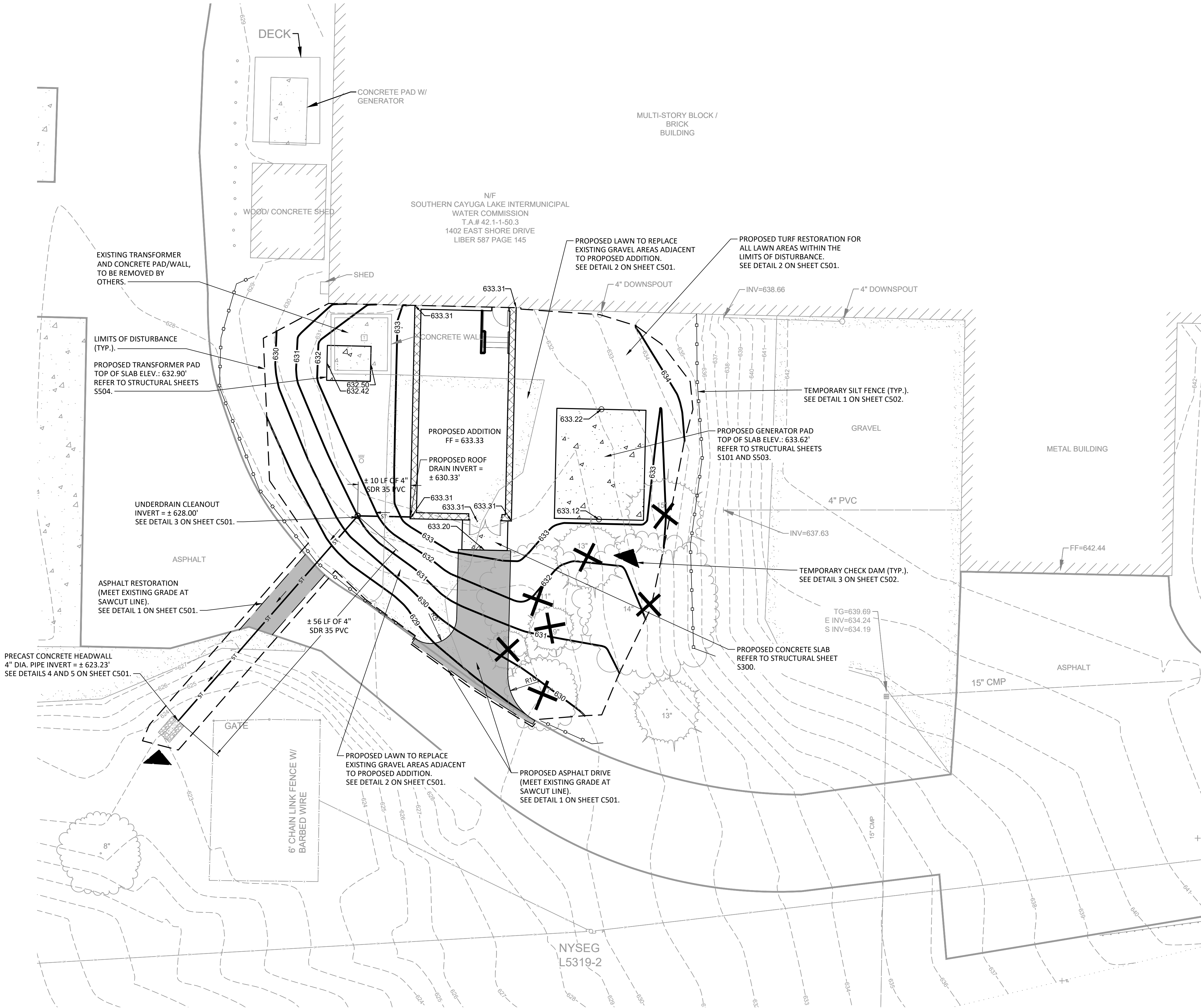


OCTOBER, 2023
CONTRACT DRAWINGS



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Sheet Number
G001
Project Number
677.006.001



EXISTING LEGEND:

	641	CONTOURS
		BUILDING
		CONCRETE
		GRAVEL
		TRANSFORMER
		MONITORING WELL
		TREE
		DRAINAGE PIPE

PROPOSED LEGEND:

	641	CONTOURS
		BUILDING
		CONCRETE
		ASPHALT
		LIMITS OF DISTURBANCE
		SILT FENCE
		CHECK DAM
		TREE REMOVAL (REMOVE STUMPS TO A DEPTH OF 24\"/>

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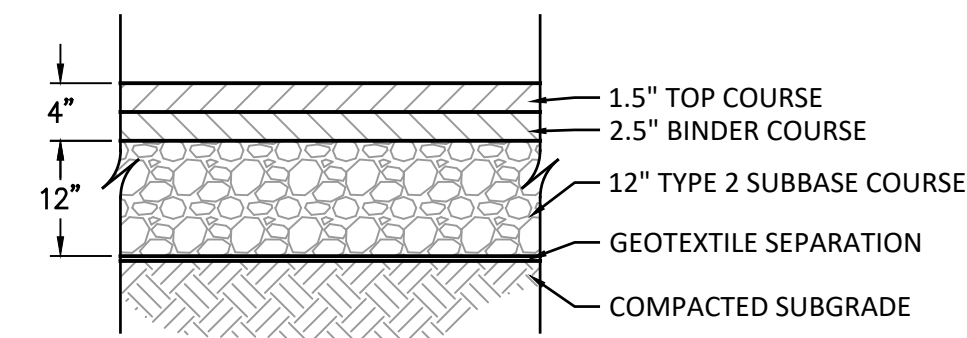
REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY
ELECTRICAL UPGRADES
SITE PLAN
TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088
NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.



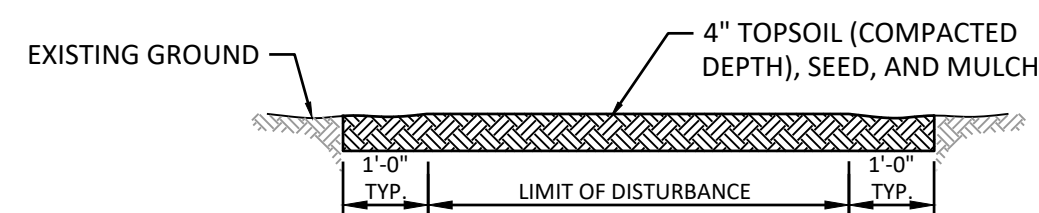
NYS EXP.: 03/31/2025
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NOTES:

1. APPLY DILUTED TACK COAT BETWEEN EACH ASPHALT COURSE AND TO VERTICAL EDGE(S) ABUTTING EXISTING PAVEMENT.

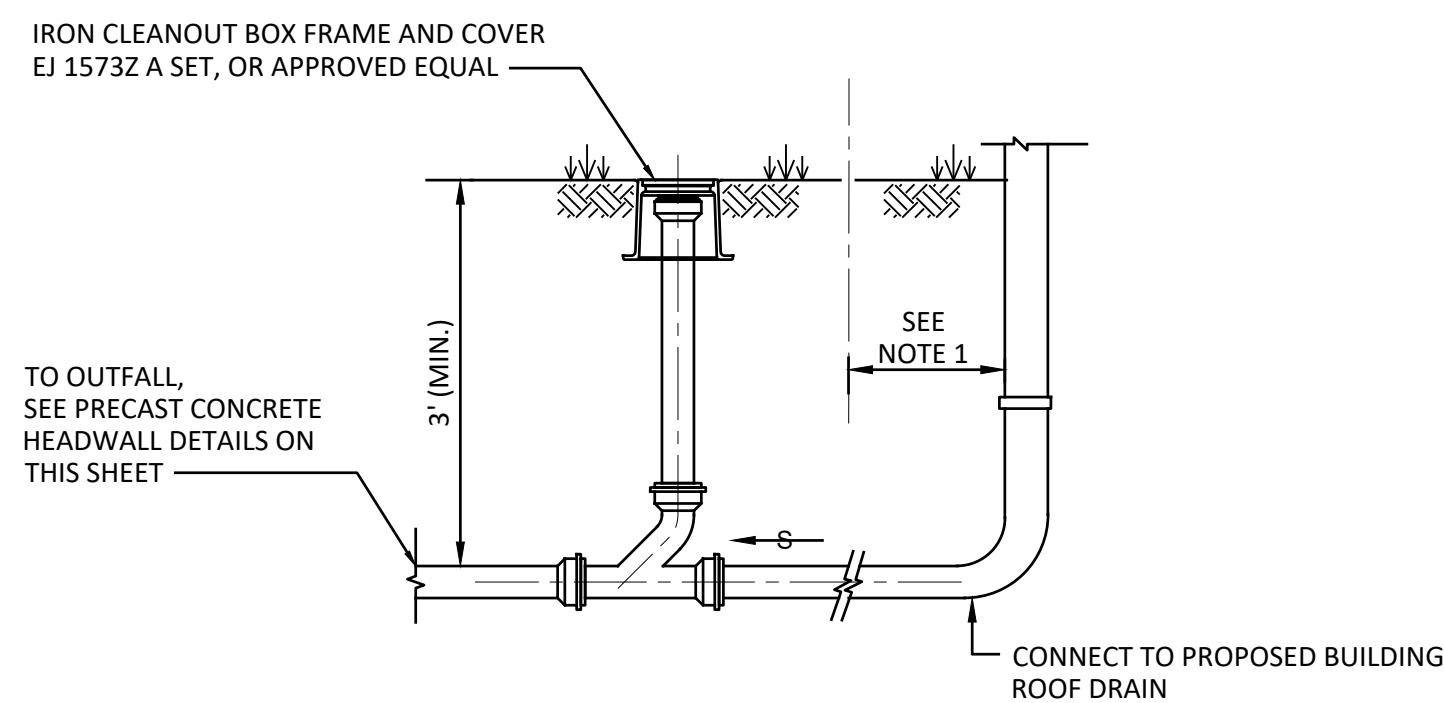
1 ASPHALT PAVEMENT
C501 NOT TO SCALE



NOTES:

1. TOPSOIL AND SEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS

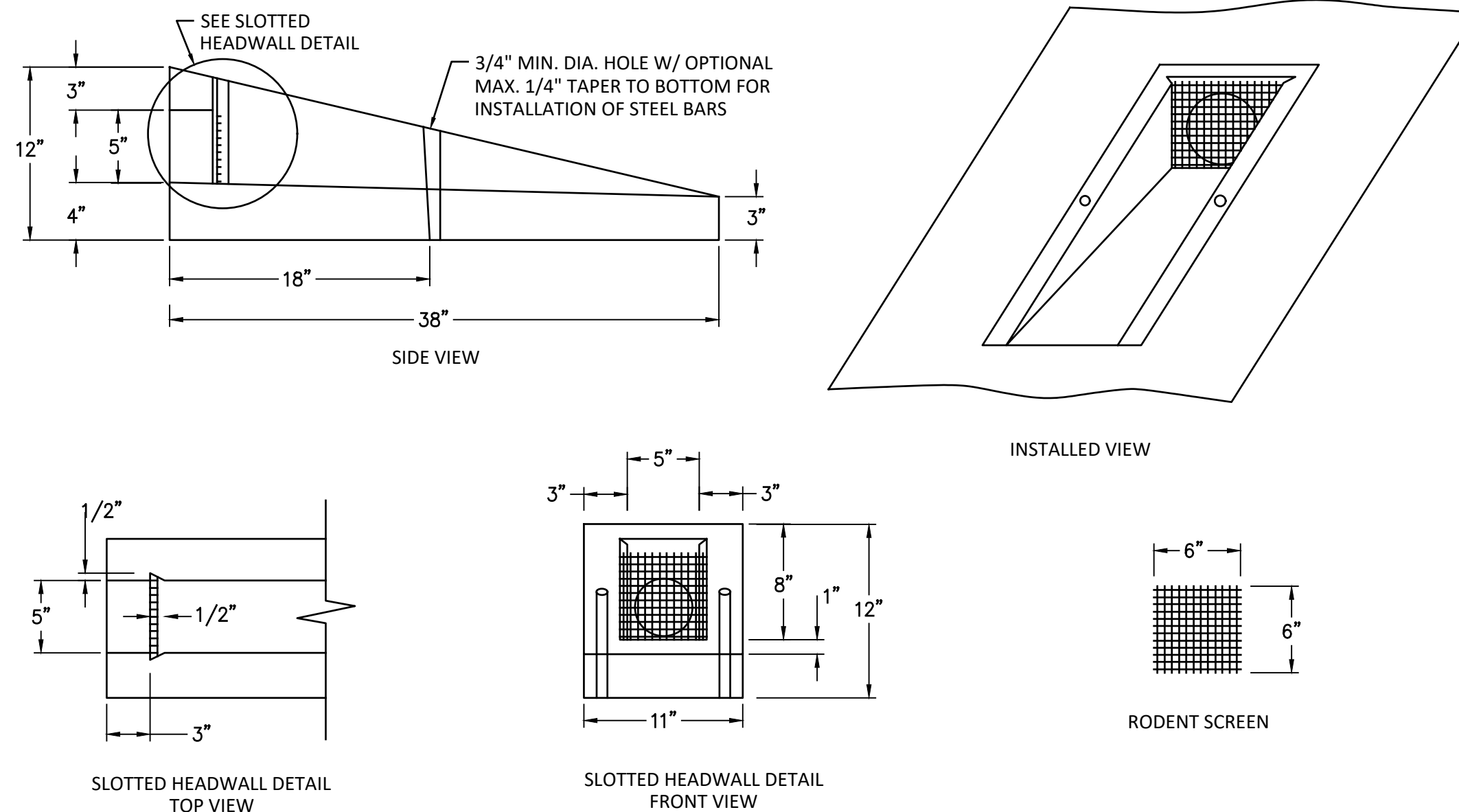
2 TURF RESTORATION
C501 NOT TO SCALE



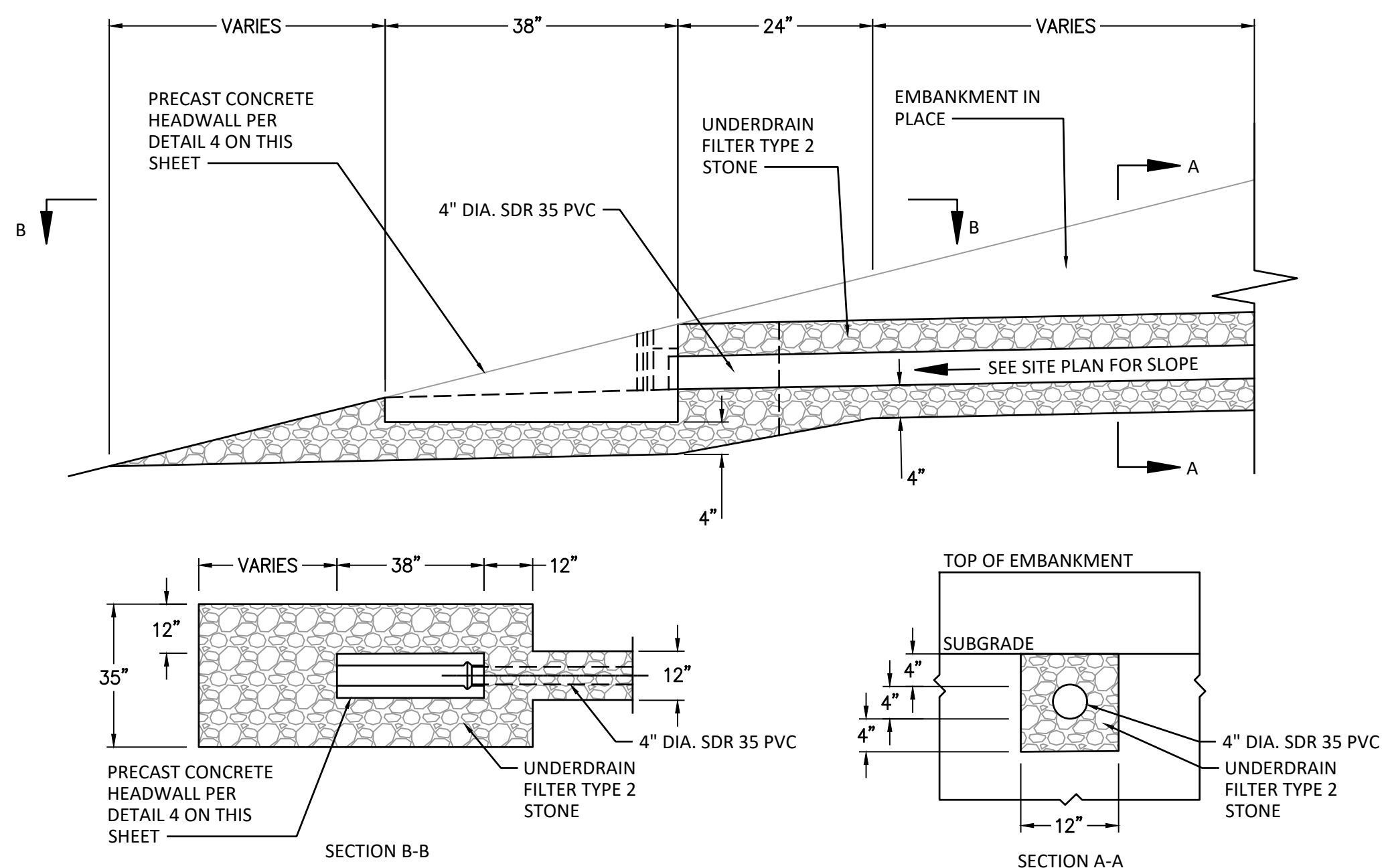
NOTES:

1. CONNECTION TO PROPOSED BUILDING ROOF DRAIN SHALL BE WITHIN 3 FEET OF FACE OF BUILDING, UNLESS OTHERWISE SHOWN/DIRECTED BY THE ENGINEER.

3 BUILDING ROOF DRAIN CONNECTION AND CLEANOUT DETAIL
C501 NOT TO SCALE



4 PRECAST CONCRETE HEADWALL FOR 4" LATERAL OUTLET PIPE DETAIL
C501 NOT TO SCALE



NOTES:

1. LATERAL OUTLET PIPE INVERT PER SITE PLAN.
2. THE GRADE OF THE HEADWALL MAY VARY TO MATCH THE EMBANKMENT SURFACE.

5 PRECAST CONCRETE HEADWALL FOR 4" LATERAL OUTLET PIPE DETAIL
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REVISIONS

COMMISSION
CILITY

SITE DETAILS

**SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY
ELECTRICAL UPGRADES**

VILLAGE OF IANSING

B & L
4443 Electronics Parkway
Liverpool, NY
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NYS CERT. OF AUTH.: 0018246
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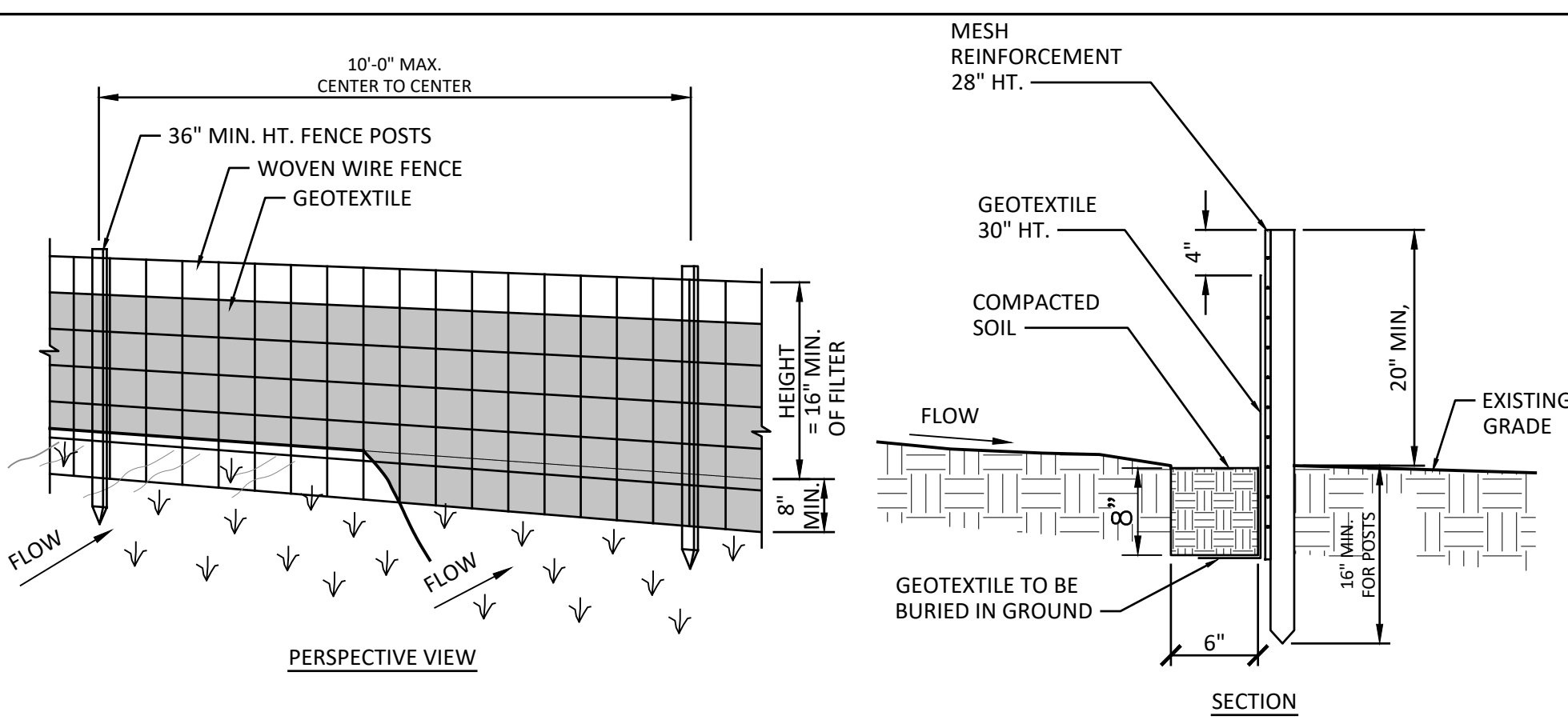
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TEMPORARY SILT FENCE

NOT TO SCALE

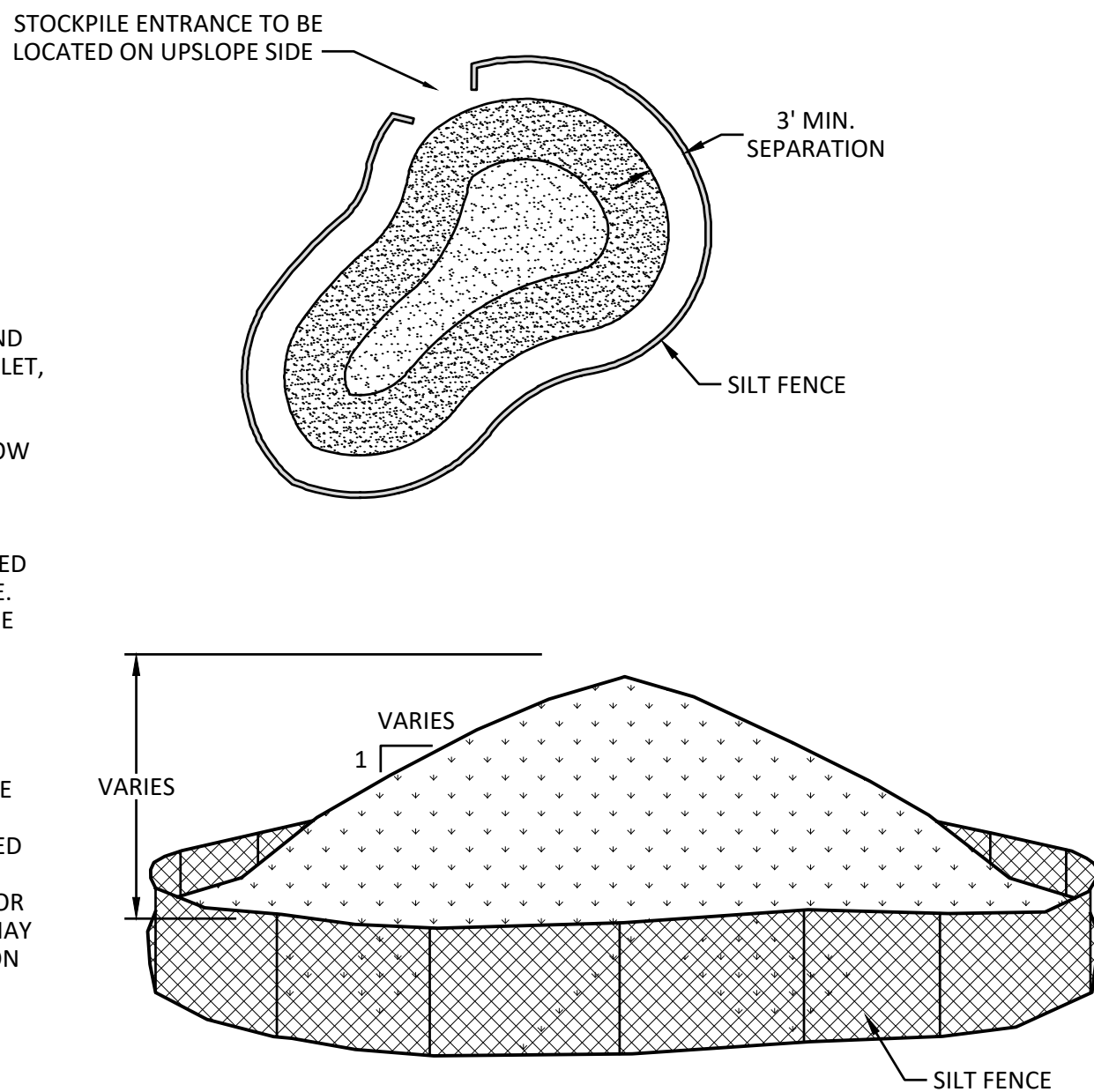


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL/DEBRIS REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD. DRIVEN MIN. 16" INTO GROUND.
- FENCE: WOVEN WIRE 14½ GA. 6" MAX. MESH OPENING.
- FILTER FABRIC: FILTER X, MIRAFI 100X, STABLINKA T140N OR APPROVED EQUAL.
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

TEMPORARY STOCKPILE NOTES:

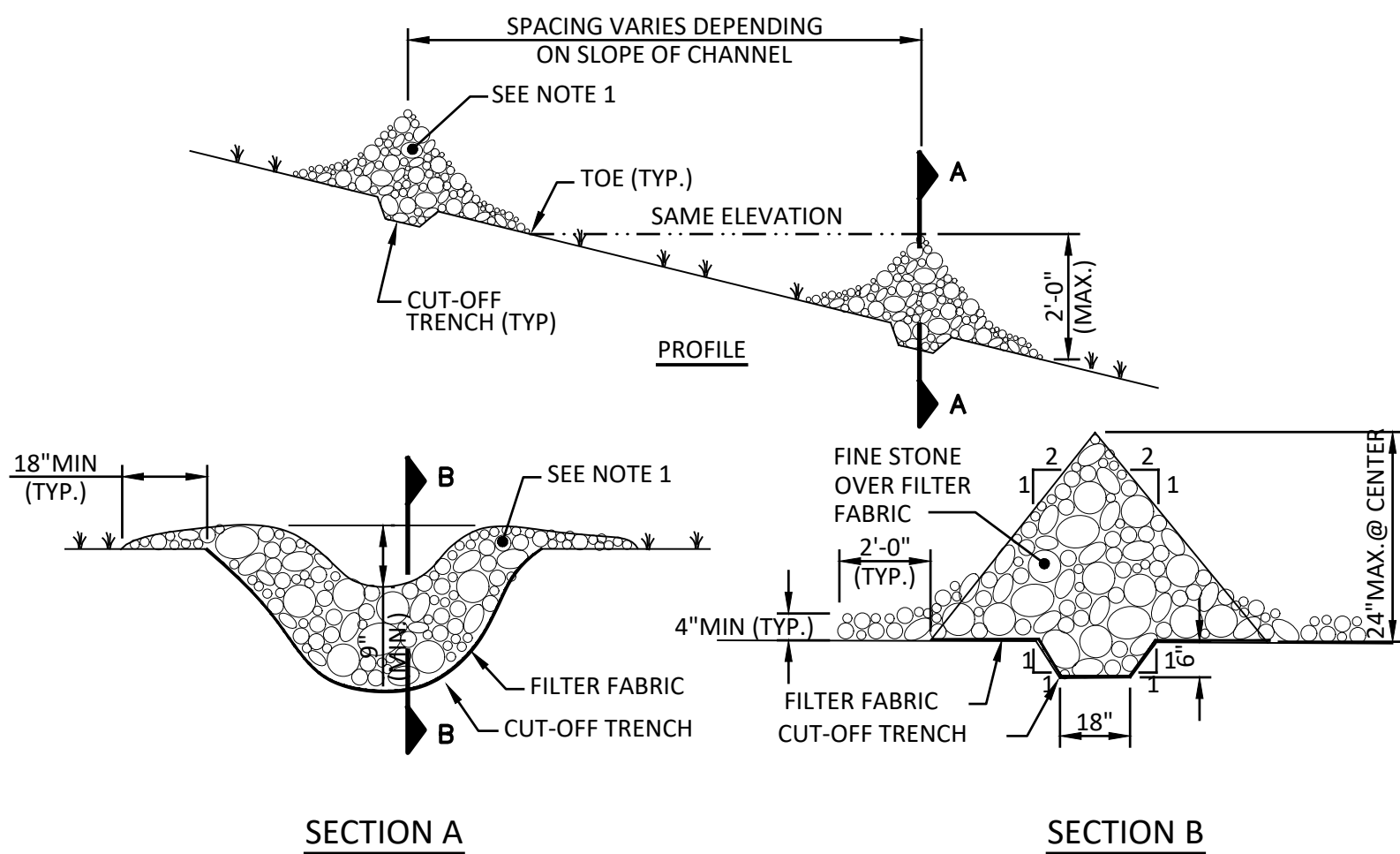
- STOCKPILING AREAS SHALL BE DRY, STABLE, AND AT LEAST 50 FEET FROM ANY STORM DRAIN INLET, OPEN CHANNEL, WETLAND, WATERBODY, OR OTHER PROTECTED AREA. DO NOT LOCATE STOCKPILES WITHIN OVERLAND DRAINAGE FLOW PATHS, DESIGNATED FLOODWAYS, OR WITHIN THE DRIP LINE OR OVER THE ROOT CROWN OF ADJACENT TREES.
- LOCATION FOR STOCKPILING TO BE DETERMINED AND APPROVED BY OWNER'S REPRESENTATIVE.
- THE MAXIMUM SLOPE OF STOCKPILES SHALL BE BASED ON THE ANGLE OF REPOSE OF THE STOCKPILED MATERIAL BUT SHALL NEVER BE GREATER THAN 3:1.
- THE MAXIMUM HEIGHT OF STONE STOCKPILE SHALL BE 15 FEET.
- UPON COMPLETION OF STOCKPILING EACH PILE SHALL BE SURROUNDED WITH A PERIMETER SEDIMENT CONTROL BARRIER SUCH AS STACKED COMPOST FILTER SOCKS, HAY BALES, OR SILT FENCING.SEE COMPOST FILTER SOCK DETAIL FOR INSTALLATION OF SOCKS. FOR SILT FENCE OR HAY BALES, REFER TO BLUE BOOK FOR INSTALLATION REQUIREMENTS.
- ACCESS TO STOCKPILE SHALL BE READILY AVAILABLE AS NEEDED.



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TEMPORARY MATERIAL STOCKPILING

NOT TO SCALE



3
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TEMPORARY STONE CHECK DAM

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS FOR STONE CHECK DAM

- FINE STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION 2' UPSTREAM AND DOWNSTREAM OF TOE TO A MINIMUM (MIN) DEPTH OF 4".
- SET SPACING OF CHECK DAMS SUCH THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 18" BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE AND LINER AS DIRECTED BY ENGINEER.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECTED TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.
- MAXIMUM DRAINAGE AREA 2 ACRES.
- PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

EROSION AND SEDIMENT CONTROL NOTES:

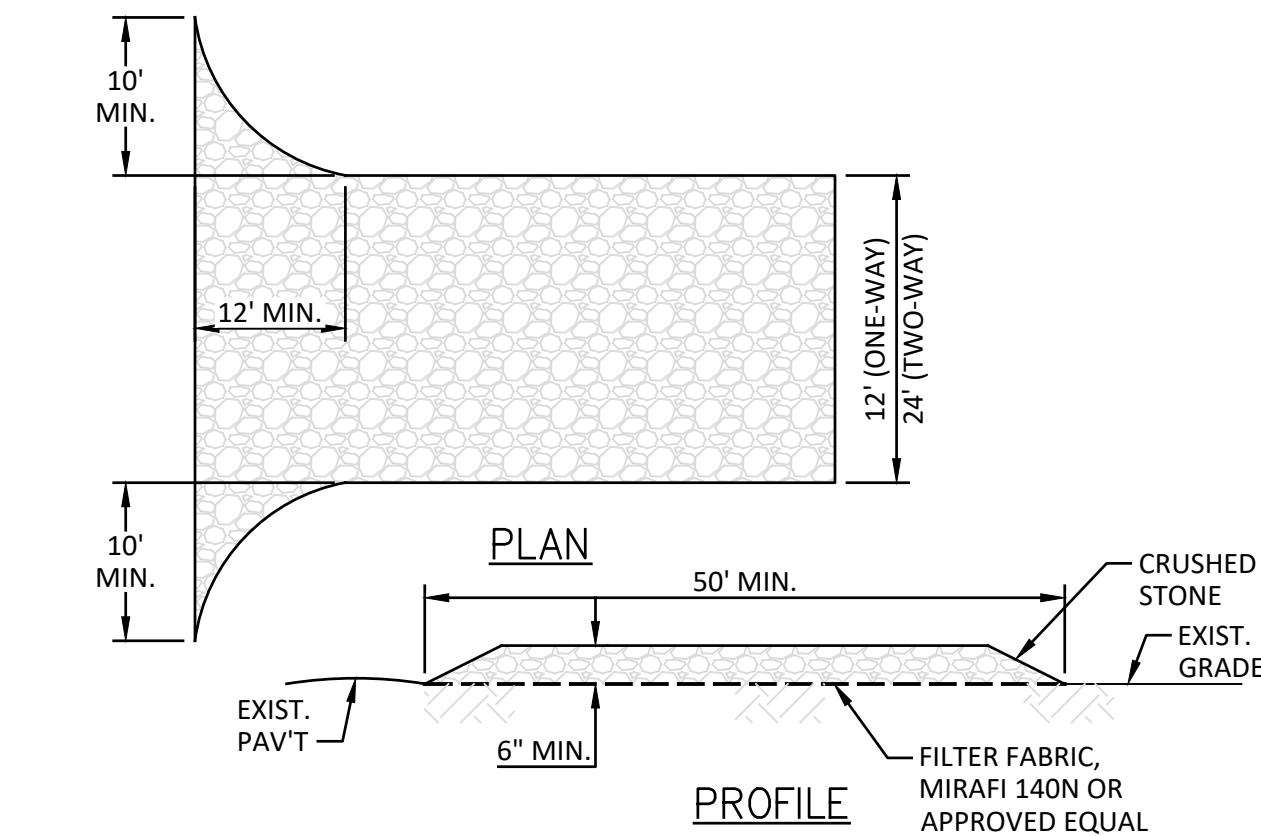
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED IN CONFORMANCE WITH THE MOST CURRENT REVISION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (THE "BLUE BOOK"). IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY PROPOSED CHANGES TO THE EROSION AND WATER POLLUTION CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING IMPLEMENTED.
- THE SYMBOLS SHOWN ON THE CONSTRUCTION PLAN SHEETS REPRESENT THE EROSION CONTROL ITEMS TO BE USED IN CONIUNCTION WITH THE PROPOSED WORK. THE INSTALLATION METHODS, INCLUDING APPLICABLE PLACEMENT INTERVALS, ARE AS SHOWN ON THE PLANS AND DETAILS IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS ADVISED THAT THE LOCATIONS OF THE TEMPORARY DEVICES ARE APPROXIMATE. THE EXACT DEVICE LOCATIONS TO ACCOMMODATE THE PROPOSED WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE POLLUTION CONTROL NOTES AND DETAILS SHOWN IN THESE DRAWINGS ARE NOT INTENDED TO BE ALL INCLUSIVE BUT TO SERVE AS A GUIDELINE FOR THE DEVELOPMENT OF THE CONTRACTOR'S REQUIRED EROSION CONTROL SCHEME.
- CARE SHALL BE TAKEN TO RETAIN VEGETATION AND PREVENT DAMAGE TO TREES & ORNAMENTAL PLANT MATERIAL WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS VEGETATION SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

TEMPORARY EROSION AND SEDIMENT CONTROLS

- THE PROPOSED WORK WILL REQUIRE THAT THE TEMPORARY EROSION AND SEDIMENT CONTROLS BE PLACED OVER THE COURSE OF THE PROJECT AS WORK PROGRESSES. NO WORK SHALL BE PERFORMED WITHOUT THE APPROPRIATE CONTROLS ONSITE.
- ALL EROSION AND SEDIMENT CONTROLS SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AND A.O.B.E. STABILIZATION WILL BE CONSIDERED AS 80% COVER, PER SQUARE FOOT, ACROSS THE SITE.
- STREETS/DRIVEWAYS SHALL BE CLEANED DAILY IN A MANNER WHICH WILL MINIMIZE DUST.
- THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL, AS NEEDED. NO SEPARATE PAYMENT FOR DUST CONTROL SHALL BE MADE.
- CONTRACTOR SHALL PROTECT ALL STOCKPILED SOILS WITH APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THERE ARE NO LOCATIONS WITHIN THE PROJECT LIMITS FOR THE DISPOSAL OF CONSTRUCTION DEBRIS OR SPOILS.

SEEDING & STABILIZATION

- RESTORE ALL SURFACES TO AS GOOD AS OR BETTER CONDITION THAN BEFORE CONSTRUCTION AS SOON AS POSSIBLE FOLLOWING COMPLETION OF WORK IN ANY AREA.
- UNDER NO CONDITION, SHALL ANY AREA OF UNPROTECTED ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, EXCAVATION, BORROW, OR FILL BE LEFT IN AN UNPROTECTED CONDITION. ANY PORTION OF AN AREA ON WHICH CLEARING AND GRUBBING, EXCAVATION, BORROW, OR FILL HAD PERMANENTLY CEASED SHALL BE STABILIZED, BY EITHER TEMPORARY OR PERMANENT MEANS. THE CONTRACTOR WILL ALSO BE AWARE OF IMPENDING WEATHER CONDITIONS AND THE NEED TO APPLY ROLLED EROSION CONTROL PRODUCT (RECP) AND/OR MULCH ON AREAS THAT WORK IS PROGRESSING.
- IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED.
- MAINTENANCE OF TEMPORARY SEEDED AREAS SHALL INCLUDE RE-SEEDING AS NEEDED (OR A.O.B.E.) TO ESTABLISH A SATISFACTORY STAND OF TURF. THE COST OF RESEEDING SHALL BE AT THE CONTRACTORS EXPENSE. IT IS HIGHLY RECOMMENDED THAT THE SEEDING BE DONE PRIOR TO INSTALLING THE RECP.
- ALL SLOPES SHALL BE BROUGHT TO FINISHED GRADE AND TRIMMED AS SOON AS POSSIBLE.
- PERMANENT EROSION CONTROL MEASURES OF SEEDING AND MULCHING (SEED ONLY WITHIN SEEDING DATES) SHALL BE CARRIED OUT ONCE THE SLOPES HAVE REACHED FINAL GRADE. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN IN THE TEMPORARY SLOPE TREATMENT TABLE SHALL BE EMPLOYED AS INDICATED.
- ALL DISTURBED AREAS WILL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH THE PLANS AND DETAILS IN THE CONTRACT DOCUMENTS. FOR ALL UNPAVED DISTURBED AREAS SPECIFIED OR DIRECTED FOR TURF ESTABLISHMENT, PLACE 4 INCHES OF TOPSOIL AND SEED WITH AN APPROPRIATE PERENNIAL GRASS SEED MIX AND MULCH WITH STRAW. ALL SEED MUST BE PRE-APPROVED BY THE ENGINEER PRIOR TO SEEDING OPERATIONS. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE COVER IS ESTABLISHED.
- FINAL SITE STABILIZATION WILL BE DEFINED AS 80% VEGETATIVE COVER OVER THE ENTIRE SITE. FOLLOWING SITE STABILIZATION, ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES WILL BE REMOVED SUBJECT TO THE APPROVAL OF THE ENGINEER.



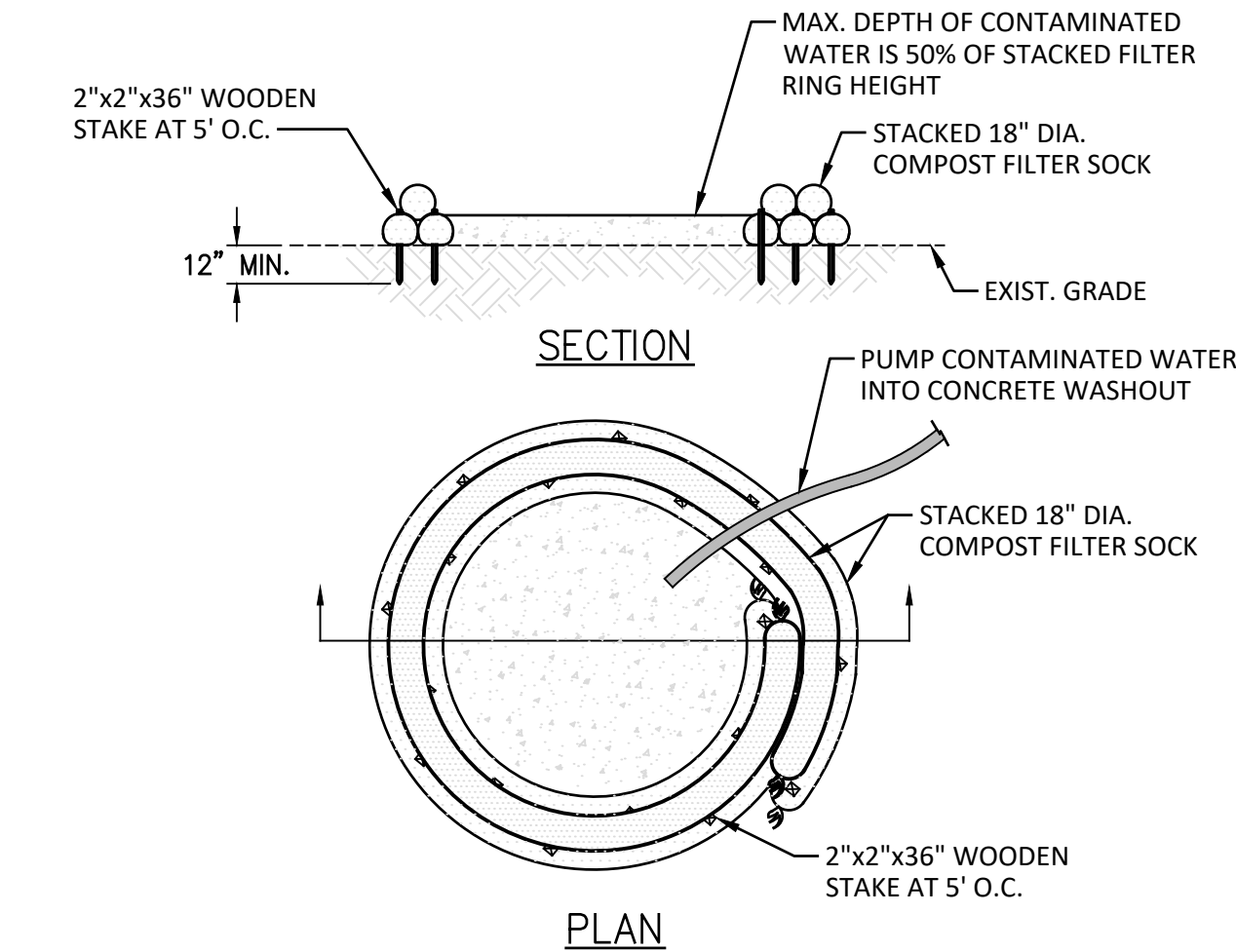
STABILIZED CONSTRUCTION ACCESS NOTES:

- MODIFICATIONS MAY BE REQUIRED TO MEET FIELD CONDITIONS.
- GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA OF STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACING STONE. STONE SHALL MEET THE REQUIREMENTS OF NYS DOT ITEM 623.12, CRUSHED NO. 3 STONE.
- ALL SURFACE WATER SHALL BE DIVERTED AWAY FROM CONSTRUCTION ENTRANCE. A MOUNTABLE BERM WITH 5:1 SLOPE IS PERMITTED.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH STONE AND WHICH DRAINS ONTO AN APPROVED SEDIMENT TRAPPING DEVICE (OR CORRUGATED STEEL PANELS).
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE DONE REGULARLY AND FOLLOWING EACH RAINFALL.

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STABILIZED CONSTRUCTION ACCESS

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CONCRETE WASHOUT NOTES:

- LOCATE WASHOUT FACILITY ON FLAT GRADE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
- SIZE WASHOUT FACILITY FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
- COMPOST FILTER SOCKS MAY BE DIRECT SEEDED AT TIME OF INSTALLATION.
- PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
- INSPECT WASHOUT DAILY. KEEP PRACTICE WATER TIGHT. EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 50 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE COMPOST FILTER SOCKS. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.
- ALTERNATIVE CONSTRUCTION USING STRAW BALES AND 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING MAY BE APPROVED BY ENGINEER PRIOR TO INSTALLATION

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CONCRETE WASHOUT

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REVISIONS

NO.	DESCRIPTION	DATE

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BOLTON POINT WATER TREATMENT FACILITY
ELECTRICAL UPGRADES

EROSION AND SEDIMENT CONTROL DETAILS

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STANDARD ABBREVIATIONS

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AAC	ASBESTOS ABATEMENT CONTRACTOR	DET	DETAIL	HT	HEIGHT	RAD	RADIATION	VERT	VERTICAL
AAD	AUTOMATIC AIR DAMPER	DF	DRINKING FOUNTAIN	HTG	HEATING	RAF	RETURN AIR FAN	VIF	VERIFY IN FIELD
AB	ANCHOR BOLT	DH	DOUBLE HUNG	HTR	HEATER	RB	RESILIENT BASE	VIN	VINYL
A/C AC	AIR CONDITIONING, ALTERNATE CURRENT	DI	DISTILLED WATER, DROP INLET	HVAC	HEATING/VENT./AIR CONDITIONING	RC	ROOFING CONTRACTOR	VIT	VITREOUS TILE
ACC	ASPHALT COATED CORR. METAL PIPE	DIA	DIAMETER	HVU	HEATING & VENTILATING UNIT	RCV	REINFORCED CONCRETE PIPE	VNR	VENEER
ACM	ASBESTOS CONTAINING MATERIAL	DIAG	DIAGONAL	HVY	HEAVY	RD	ROOF DRAIN	VOL	VOLUME
ACT	ACOUSTIC CEILING SYSTEM	DIM	DIMENSION	HW	HOT WATER	RECEPT	RECEPTACLE	VTR	VENT THROUGH ROOF
ACU	AIR CONDITIONING UNIT	DISP	DISPENSER	HWH	HOT WATER HEATER	REF	REFERENCE	VWC	VINYL WALL COVERING
AD	AREA DRAIN	DIV	DIVISION	HWP	HOT WATER PUMP	REFL	REFLECT (ED) (IVE) (OR)		
ADD	ADDENDUM	DL	DEAD LOAD	HWR	HOT WATER RETURN	REFR	REFRIGERATOR		
ADH	ADHESIVE	DMBD	DRY MARKER BOARD	HWS	HOT WATER SUPPLY	REG	REGISTER		
ADJ	ADJACENT, ADJOINING, ADJUSTABLE	DN	DOWN	H&V	HEATING AND VENTILATING	REINF	REINFORCE (ED) (ING)		
ADR	ACCESS DOOR	DO	DITTO	HV	HIGH VOLTAGE	REM	REMOVE		
AESS	ARCHED EXPOSED STRUCTURAL STEEL	DP	DAMPROOM (ING)	ID	INSIDE DIAMETER, IDENTIFICATION	RECD	REQUIRED		
AFF	ABOVE FINISHED FLOOR	DPR	DAMPER	IE	INVERT ELEVATION	RESIL	RESILIENT		
AH	ACCESS HATCH	DR	DOOR, DEEP RIB, DRAIN	IN	INCHES	RET	RETAINING, RETURN		
AHU	AIR HANDLING UNIT	DWG	DRAWING	INCL	INCLUDE (D) (ING)	REV	REVISION, REVISED		
AIB	AIR INFILTRATION BARRIER	DS	DOWNSPOUT	INS	INSULATE (D) (ING)	RFG	ROOFING		
ALT	ALTERNATE	DT	DRAIN TILE	INT	INTERIOR	RFH	ROOF HATCH		
ALTN	ALTERATION	DTA	DOVETAIL ANCHOR	INT	INTERIOR	RH	RIGHT HAND		
ALUM	ALUMINUM	DTL	DETAIL	INV	INVERT	RHC	REHEAT COIL		
AMP	AMPERE	DWL	DISHWASHER	IP	IRON PIPE	RI	ROUGH-IN		
ANOD	ANODIZED	DWL	DOWEL	IPS	IRON PIPE SIZE	RL	RAIN LEADER		
ANT	ACID NEUTRALIZING TANK	DWR	DRAWER	IW	INDIRECT WASTE	RLG	RAIL (ING)		
AP	ACCESS POINT					RM	ROOM		
APPROX	APPROXIMATE	E	EAST, MODULUS OF ELASTICITY	JB	JUNCTION BOX	RNT	RUNNING TRAP		
ARCH	ARCHITECT (URAL)	EA	EXHAUST AIR, EACH	JC	JANITORS CLOSET	RO	ROUGH OPENING		
ASB	ASBESTOS	EAT	ENTERING AIR TEMPERATURE	JCT	JUNCTION	ROW	RIGHT OF WAY		
ASPH	ASPHALT	EB	EXPANSION BOLT	JT	JOINT	RPM	REVOLUTIONS PER MINUTE		
ATV	ATMOSPHERIC VENT	EF	ELECTRICAL CONTRACTOR	KW	KILOWATT (S)	RTU	ROOF TOP UNIT		
AUTO	AUTOMATIC	EF	EACH FACE			RW	RAW WATER		
AV	ACID VENT	EIFS	EXTERIOR INSUL. & FINISH SYSTEM			S	SOUTH		
AVC	ACID VENT THRU ROOF	EJ	EXPANSION JOINT	MAN	MANUAL	SA	SUPPLY AIR		
AVTR	ACID WASTE	ELEC	ELECTRIC (AL)	MAS	MASONRY	SAN	SANITARY		
AW		ELEV	ELEVATION	MAU	MAKE UP AIR UNIT	SAS	SMOOTH ALL SIDES		
BBD	BOILER BLOWDOWN	EM	EMERGENCY	MAX	MAXIMUM	SC	SOLID CORE		
BD	BOARD	ENC	ENCLOSURE	MBH	THOUSAND BTUH	SCHED	SCHEDULE		
BDD	BACKDRAFT DAMPER	EOD	EDGE OF DECK	MBR	MEMBER	SCT	STRUCTURAL CLAY TILE		
BEJ	BRICK EXPANSION JOINT	EOS	EDGE OF SLAB	MD	MOTORIZED DAMPER	SD	STORM DRAIN, SLITTER DAMPER, SMOKE DAMPER		
BOF	BOTTOM OF FOOTING	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	MCH	MOTORIZED DAMPER	SEC	SECTION		
BFP	BACK FLOW PREVENTER	EO	EQUAL	MED	MEDIUM	SGT	STRUCTURAL GLAZED TILE		
BOT	BOTTOM	ECC	EQUIPMENT CONTRACTOR	ME	MECHANICAL EQUIPMENT	SH	SHELF, SHELVING, SMOKE HATCH		
BIT	BITUMINOUS	EQUIP	EQUIPMENT	MEMB	MEMBRANE	SHR	SHOWER		
BLDG	BUILDING	ESF	ELASTIC SHEET FLASHING	MEZZ	MEZZANINE	SHNG	SHEATHING		
BLK	BLOCK	ESM	ELASTIC SHEET MEMBRANE	MF	MIXING FAUCET, METAL FRAMING	SIM	SIMILAR		
BLKG	BLOCKING	ETR	EXISTING TO REMAIN	MFLP	METAL FURRING LATH & PLASTER	SK	SINK		
BM	BEAM	EW	EACH WAY	MH	MANHOLE	SL	SOUND LINED, SKYLIGHT		
BO	BY OTHERS	EWG	ELECTRIC WATER COOLER	MIR	MIRROR	SLB	STEEL ANGLE BASE		
BCC	BOTTOM OF CURB	EWT	ENTERING WATER TEMPERATURE	MISC	MISCELLANEOUS	SLC	SILL COCK		
BOD	BOTTOM OF DUCT	EXH	EXHAUST	MO	MASONRY OPENING	SLV	SLEEVE		
BOT	BOTTOM	EXG	EXISTING	MOD	MODULE (OR), MODEL	SLVR	STORM LOUVER		
BPL	BEARING PLATE	EXP	EXPANSION	MR	MOP RECEPTOR	SP	STATIC PRESSURE, STANDPIPE		
BR	BOTTOM REGISTER	EXT	EXTERIOR, EXTERNAL	MT	MOUNT	SPEC	SPECIFICATION (S)		
BRD	BRIDGING			MTD	MOUNTED	SPKR	SPEAKER		
BRG	BRICK	F	FAHRENHEIT	MTG	MOUNTING	SPL	SPECIAL		
BRK	BRICK	FA	FIRE ALARM	MTL	METAL	SO	SQUARE		
BRZ	BRONZE	FAC	FACTORY FINISH	MTH	MARBLE THRESHOLD	SS	STAINLESS STEEL		
BS	BOTH SIDES	FAI	FRESH AIR INTAKE	MTR	METER	SST	STRUCTURAL STEEL TUBING		
BSMT	BASEMENT	FCU	FAN COOL UNIT	MULL	MULLION	ST	STATION		
BSPL	BACKSPASH	FD	FLOOR DRAIN, FIRE DAMPER			STC	SHOWER TEMP CONTROLLER		
BSNT	BENT	FE	FIRE EXTINGUISHER	N	NORTH	STD	STANDARD		
BTU	BRITISH THERMAL UNITS	FEC	FIRE EXTINGUISHER CABINET	N/A	NOT APPLICABLE	STG	SEATING		
BUR	BUILT-UP ROOFING	FF	FINISHED FLOOR, FACTORY FINISH	NAT	NATURAL	STL	STEEL		
BWC	BACK WATER CHECK VALVE	FFE	FINISHED FLOOR ELEVATION	NC	NORMALLY CLOSED	STN	STAIN (ED)		
C	CONDUIT	FH	FINISHED FLOOR LINE	NEC	NATIONAL ELECTRIC CODE	STOR	STORAGE		
CA	COMPRESSED AIR	FHC	FIRE HOSE CABINET	NEG	NEGATIVE	STR	STRUCTURAL		
CAB	CABINET	FIN	FINISH (ED)	NEUT	NEUTRALIZATION	SURF	SURFACE		
CB	CATCH BASIN	FIXT	FIXTURE	NO	NOT IN CONTRACT	SUSP	SUSPENDED		
CBD	CHALKBOARD	FL	FLOOR DUCT	NOM	NUMBER, NORMALLY OPEN	SVCI	SERVICE WEIGHT CAST IRON		
CEM	CEMENT	FLD	FLOOR DUCT	NRC	NOISE REDUCTION COEFFICIENT	SW	SWITCH, SOFTENED WATER		
CER	CERAMIC	FLX	FLASHING	NTS	NOT TO SCALE	SYM	SYMMETRICAL		
CFM	CUBIC FEET PER MINUTE	FLR	FLOOR (ING)			SYS	SYSTEM		
CFMF	COLD FORMED METAL FRAMING	FLUOR	FLUORESCENT			T	TREAD, TOP		
CG	CEILING GRILL	FND	FLOOR MOUNTED	OA	OVERALL, OUTSIDE AIR	T&B	TOP AND BOTTOM		
CH	CABINET HEATER	FOG	FOUNDATION	OC	ON CENTER	T&D	TACK BOARD		
CHUV	CEILING HUNG UNIT VENTILATOR	FOS	FUEL OIL GAUGE	OD	OUTSIDE DIAMETER	T&G	TOUGH AND GROOVE		
CIP	CAST IRON	FOR	FUEL OIL RETURN	OH	OVERHEAD	TR	TEMPERATURE CONTROL		
CIRC	CIRCUMFERENCE	FOS	FUEL OIL SUPPLY	OPNG	OPENING	TDV	TRIPLE DUTY VALVE		
CJ	CONTROL JOINT	FOV	FUEL OIL VENT	OPP	OPPOSITE	TEL	TELEPHONE		
CL	CENTER LINE	FP	FIREPROOF (ING)	OPPHD	OPPOSITE HAND	TEMP	TEMPERATURE		
CLG	CEILING	FT	FEET PER MINUTE			TERR	TERRAZZO		
CLKG	CAULKING	FRA	FRAME			TG	TOP GRILLE		
CLL	CONTRACT LIMIT LINE	FRC	FRESH AIR	PAR	PARALLEL	THK	THICKNESS		
CLR	CLEAR (ING)	FRG	FIRE RESISTANT COATING	PART	PARTITION	THR	THRESHOLD		
CLRM	CLASSROOM	FRP	FIBERGLASS REINFORCED PANEL	PC	PLUMBING CONTRACTOR	TME	TO MATCH EXISTING		
CMV	CERAMIC MOSAIC TILE	FRT	FIRE RETARDANT	PCC	PORCELAIN FLOOR TILE	TMV	THERMOSTATIC MIXING VALVE		
CMU	CONCRETE MASONRY UNIT	FOOT	FOOT	PE	PRECAST CONCRETE	TOC	TOP OF CURB		
CODP	CLEAN OUT, CARBON MONOXIDE, COMPANY	FTG	FOOTING	PED	PORCELAIN ENAMEL	TOF	TOP OF FASCIA		
COL	CLEAN OUT DECK PLATE	FTV	FLUSH VALVE	PERF	PEDESTAL	TOIL	TOILET		
COMB	COMBINATION			PERI	PERFORATE (ION) (ED)	TOL	TOLERANCE		
COMP	COMPRESS (ED) (ION) (IBLE)	G	GAS	PLAM	PLATE, PROPERTY LINE	TOM	TOP OF MASONRY		
CONC	CONCRETE	GAL	GAGE, GAUGE	PLAS	PLASTIC LAMINATE	TOP	TOP OF PIPE, TOP OF PIER		
COND	CONDENSATE (HTG & VENTILATION)	GALV	GALLON	PLF	PLASTER, PLASTIC	TOS	TOP OF STEEL		
CONN	CONNECTION	GASK	GASKET (ED)	PLYWD	POUNDS PER LINEAR FOOT	TPART	TOILET PARTITION		
CONST	CONSTRUCTION	GC	GENERAL CONTRACT (OR)	PLYWD	PLYWOOD	TR	TRANSOM		
CONT	CONTINUOUS	GCO	GASKET (ED)	PNL	PANEL	TV	TELEVISION		
CONTR	CONTRACT (OR)	GCMU	GLAZED CLEANOUT	POL	POINT OF CURVATURE	TOW	TOP OF WALL		
CORR	CORRUGATED	GND	GLAZED CONCRETE MASONRY UNIT	POL	POLISHED	TW	TEMPERED WATER		
COWP	CLEAN OUT WALL PLATE	GF	GROUND	POS	POSITIVE	TYT	TYPICAL		
CPT	CARPET	GL	GROUND FACE	POT	POINT OF TANGENCY				
CPVC	CHLORINATED POLYVINYL CHLORIDE	GPM	GLASS	PRE	POWER ROOF EXHAUSTER	UC	UNDERCUT		
CR	CEILING REGISTER	GR	GALLONS PER MINUTE	PREP	PREPARED (ATION)	UD	UNDER DRAIN		
CRS	COURSE (S) (ING)	GS	GLYCOL RETURN	PROJ	PROJECT (TION)	UE	UNDERGROUND ELECTRIC		
CSK	COUNTERSUNK	GWB	GYPSPUM WALL BOARD	PSF	POUNDS PER SQUARE FOOT	UGND	UNDERGROUND		
CSMT	CASEMENT	GYP	GYPSPUM	PSI	POUNDS PER SQUARE INCH	UH	UNIT HEATER		
CT	CERAMIC TILE, COMPUTER TERMINAL			PT	POINT	UNF	UNFINISHED		
CTOP	COUNTER TOP	H	HEIGHT	PTD	PAINTED	UNO	UNLESS OTHERWISE NOTED		
CTD	COATED	HB	HOSE BIB	PTP	PRESSURE TREATED PRESERVATIVE	UR	UNDERGROUND		
CU FT	CUBIC FEET	HCR	HOT/CHILLED WATER RETURN	PTR	PRESSURE TREATED FIRE RETARDANT	UV	UNIT VENTILATOR, ULTRAVIOLET		
CV	CONNECTOR, CURB VALVE	HCS	HOT/CHILLED SUPPLY	PVC	POLYVINYL CHLORIDE				
CW	COLD WATER	HCD	HEAVY DUTY	PVMT	PAVEMENT	V	VENT, VOLT		
CWR	CHILLED WATER RETURN	HDR	HEADER	PWE	POWER WALL EXHAUSTER	VAR	VARIABLE		
CWS	CHILLED WATER SUPPLY	HDW	HARDWARE			VARN	VARNISH		
D	DIESEL FUEL, DEPTH	HLM	HOLLOW METAL	QT	QUARRY TILE	VAT	VINYL ASBESTOS TILE		
DC	DIRECT CURRENT	HORZ	HORIZONTAL	R	RISER, RADIUS	VB	VINYL BASE, VACUUM BREAKER, VAPOR BARRIER		
DDC	DIRECT DIGITAL CONTROL	HP	HORSEPOWER, HIGH PRESSURE	R&R	REMOVE EXISTING & REPLACE W/NEW	VCT	VINYL COMPOSITE TILE		
DE	DEIONIZED WATER	HPL	HIGH PRESSURE LAMINATE			VD	VOLUME DAMPER		
DEG	DEGREES					VERM	VERMICULITE		
DEMO	DEMOLISH								
DEP	DEPRESS (ED) (ION)								

**NOTE: THE ABOVE STANDARD ABBREVIATIONS ARE PROVIDED FOR GENERAL REFERENCE AND MAY OR MAY NOT BE REPRESENTATIVE OF ALL ABBREVIATIONS USED THROUGHOUT THE CONTRACT DOCUMENTS.



















GENERAL NOTES

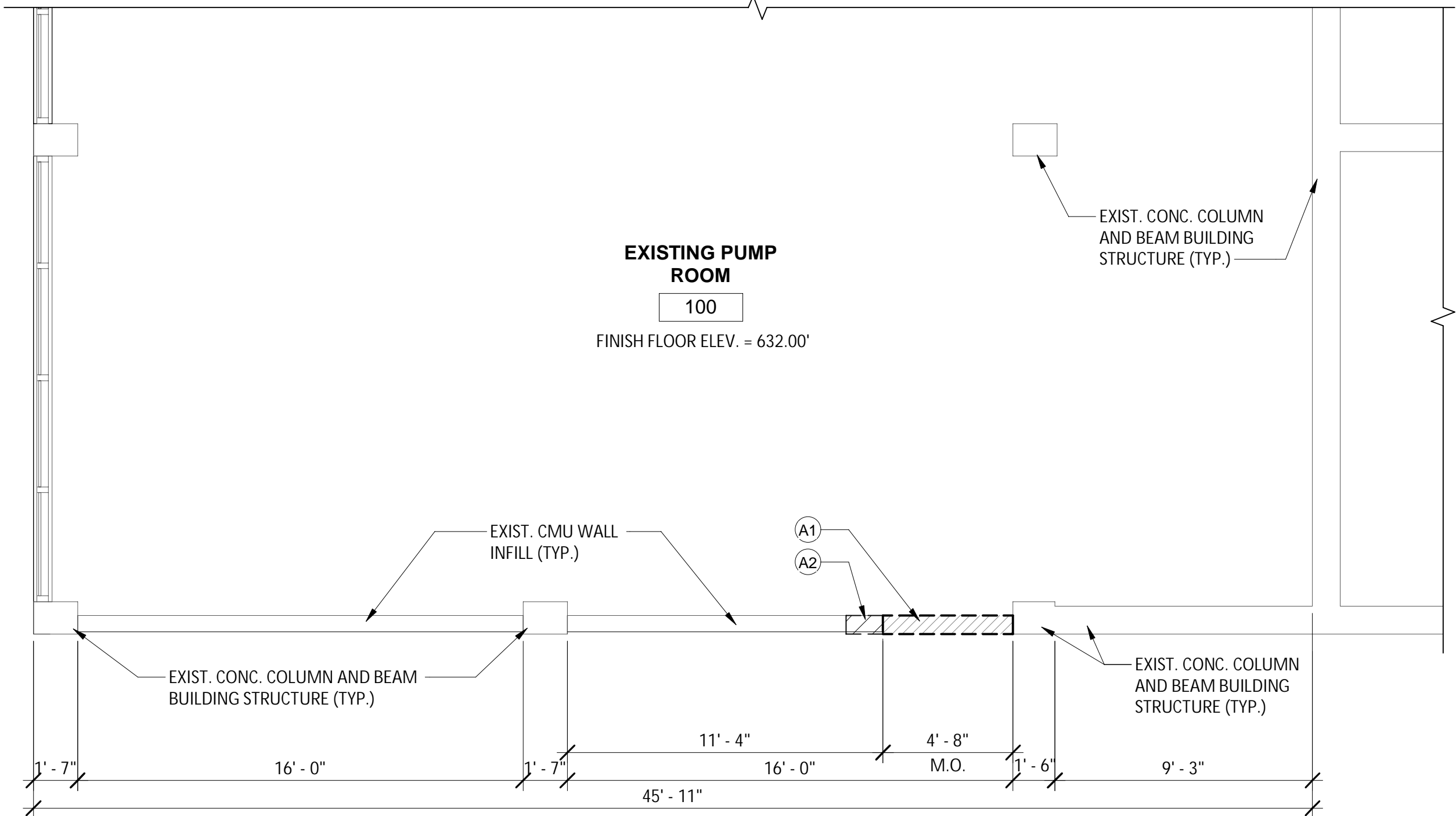
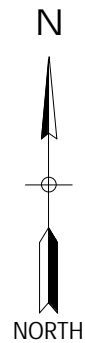
1.	DESIGN AND CONSTRUCTION SHALL CONFORM TO ALL LOCAL AND STATE CODES, INCLUDING (BUT NOT LIMITED TO) THE "NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE", LATEST REVISION, THE NFPA 101 LIFE SAFETY CODE, LATEST REVISION, ANSI A17.1-1992 (REVISED 1995), S.E.D. MANUAL OF PLANNING STANDARDS, LATEST REVISION, OSHA, AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THIS PROJECT IS BEING CONSTRUCTED.
1..	INTERIOR AND EXTERIOR CONCRETE SLABS SHALL BE SEPARATED FROM ANY VERTICAL SURFACE WITH AN ISOLATION JOINT. ALL SLAB-ON-GRADE (CONTROL, EXPANSION, ETC.) JOINTS TO RECEIVE SEALANT FOR RADON PROTECTION.
2.	THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE SAME, REGARDLESS OF WHETHER OR NOT EACH AND EVERY NECESSARY WORK OR ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND/OR NOTES.
3.	WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIALS. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW, UNLESS INDICATED EXISTING. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED OR REPLACED. WHERE ITEM CAN NOT BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEM SHALL BE REPLACED, AT NO COST TO THE OWNER.
4.	ALL CONTRACTORS ARE RESPONSIBLE TO VERIFY ALL SITE, FIELD AND BUILDING CONDITIONS PRIOR TO SUBMITTING BIDS AND COMMENCING WORK. IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, CONFER WITH ARCHITECT / ENGINEER FOR RESOLUTION.
5.	DRAWINGS DO NOT INDICATE ALL DEMOLITION / REMOVALS. ALL CONTRACTORS ARE TO REFER TO DRAWINGS, SPECIFICATIONS AND VERIFY FIELD CONDITIONS TO DETERMINE FULL SCOPE AND PARTICULARS OF REMOVAL REQUIREMENTS PRIOR TO BIDDING WORK. CONFER WITH OWNER WHICH ITEMS ARE TO BE SAVED FOR OWNER'S USE OR REINSTALLATION BY CONTRACTOR.
6.	CONTRACTOR SHALL OBTAIN FROM OWNER ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT INCLUDING ROUGHING DIAGRAMS, INSTALLATION INSTRUCTIONS, ELECTRICAL SCHEMATICS, TEMPLATES, LAYOUTS AND DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER, WELL COORDINATED INSTALLATION. PRIOR TO ROUGH-IN OF SERVICES, CONFER WITH OWNER EXACT LOCATION OF ALL ITEMS.
7.	ALL PENETRATIONS THROUGH FLOORS AND FULL HEIGHT WALLS TO BE FIRE STOPPED. ALL GAPS AND JOINTS AT RATED FLOORS, ROOFS AND WALLS TO BE FIRE STOPPED. GAPS AND JOINTS INCLUDE (BUT ARE NOT LIMITED TO) TOP OF WALL TO FLOOR OR ROOF DECK, WALL TO BEAMS, AND CONTROL OR EXPANSION JOINTS. FIRE STOPPING INCLUDES BOTH FORM OR PACKING MATERIAL AND THE FILL, VOID OR CAVITY MATERIAL.
8.	EXTERIOR PERIMETER OF ALL WINDOWS, DOOR FRAMES, LOUVERS, OR OTHER ITEMS INSERTED IN AN EXTERIOR WALL SHALL BE SEAL WEATHER TIGHT WHETHER INDICATED ON DRAWINGS OR NOT.
9.	WOOD USED FOR BLOCKING OR OTHER PURPOSES ON OR ABOVE THE ROOF DECK, WITHIN 2'-0" OF GRADE AND OTHER LOCATIONS OUTSIDE THE BUILDING ENVELOPE WHERE EXPOSED TO THE WEATHER, SHALL BE PRESSURE-TREATED TYPE (P.T.P.). ALL INTERIOR WOOD FOR BLOCKING OR OTHER PURPOSES TO BE FIRE RETARDANT (PTFR) TYPE.
11.	FINISHED DOOR OPENINGS SHALL BE NOMINAL @ 6" FROM FINISHED CORNER OF ROOM AT HINGE SIDE, EXCEPT WHERE DIMENSIONED OTHERWISE, ON THE "PULL" SIDE OF A DOOR OPENING, THE STRIKE SIDE SHALL BE NOMINAL 18" FRAME PERPENDICULAR WALL. ON THE "PUSH" SIDE OF A DOOR OPENING EQUIPPED W/ BOTH A CLOSER AND LATCH, THE STRIKE SIDE SHALL BE NOMINAL 12" FROM A PERPENDICULAR WALL.
12.	PROVIDE BUILDING EXPANSION JOINT AND CONTROL JOINTS AT INTERIOR AND EXTERIOR MASONRY WALLS PER THE BRICK INSTITUTE OF AMERICA AND THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS AND RECOMMENDATIONS AND WHERE BUILDING ADDITIONS MEET EXISTING BUILDING, AT RATED WALLS, EXPANSION JOINT OR CONTROL JOINT TO EQUAL WALL RATING.
13.	REMOVE DEBRIS AND OTHER MATERIALS (RESULTING FROM DEMOLITION) FROM SITE AS DEMOLITION PROGRESSES. REMOVE RUBBISH FROM JOB SITE REGULARLY AND LEAVE PREMISES AND WORK IN CLEAN CONDITION. RUBBISH SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE APPROPRIATELY DISPOSED OF. PRIOR TO COMPLETION, CLEAN PREMISES FOR OCCUPANCY BY OWNER.
14.	ALL CONTRACTORS ARE TO COORDINATE THE WORK OF EACH OTHER, SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION PRIOR TO THE START OF A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, CONFER WITH EACH CONTRACTOR EXACT LOCATION OF ALL ITEMS.
15.	ALL VERTICAL CONCRETE SURFACES WHICH WILL BE EXPOSED TO VIEW UPON COMPLETION OF WORK SHALL RECEIVE A SMOOTH RUBBED FINISH.
16.	ALL ENDS OF MASONRY WALLS THAT WILL BE EXPOSED TO VIEW UPON COMPLETION OF WORK SHALL BE BULLNOSE ENDS UNITS.
17.	ALL CMU SHALL HAVE HORIZONTAL JOINT REINFORCING AT EVERY OTHER COURSE, UNLESS OTHERWISE NOTED.
18.	METAL STUDS SHALL BE 22 GA. AT 16" O.C. UNLESS NOTED OTHERWISE.
19.	EACH CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING OPENINGS IN WALLS AND FLOOR SYSTEMS FOR INSTALLATION OF THEIR WORK. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL PROVIDE LOCATIONS OF ROOF OPENINGS TO GENERAL CONSTRUCTION CONTRACTOR.
20.	ELECTRICAL, MECHANICAL OR PLUMBING PENETRATIONS THROUGH FIRE-RATED WALL OR FLOOR ASSEMBLIES (IF ANY - SEE CODE REVIEW) SHALL BE SEALED BY EACH RESPONSIBLE CONTRACTOR WITH A U.L. APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM APPROPRIATE FOR THE RATING OF THE WALL BEING PENETRATED. SUBMIT PROPOSED U.L. NUMBERS AND DETAILS TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
21.	ANY COLORS/FINISHES NOT SPECIFICALLY IDENTIFIED SHALL BE SELECTED FROM MANUFACTURER'S STANDARD COLOR/FINISHES DURING SUBMITTAL REVIEW.
22.	ALL STEEL MEMBERS (INCLUDING BUT NOT LIMITED TO: COLUMNS, BASE PLATES, BEAMS, JOISTS, FLOOR/ROOF DECK, LINTELS, BUMPER RAILS, HANDRAILS, GUARDRAILS, MISCELLANEOUS PLATES, STAIRS/RISERS/LANDINGS, CONDUIT, DUCTWORK, PIPING HANGERS ETC.) THAT ARE EXPOSED TO VIEW UPON COMPLETION OF THE PROJECT SHALL BE FIELD PAINTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
23.	CONTRACTOR TO FURNISH AND INSTALL FIRE EXTINGUISHER CABINETS.

STANDARD SYMBOLS

	BUILDING SECTION
	FLOOR PLAN NORTH ARROW
	ROOM NAME
	ROOM IDENTIFICATION TAG
	INTERIOR ELEVATION MARKER
	EXTERIOR ELEVATION MARKER
	DOOR IDENTIFICATION TAG
	WINDOW IDENTIFICATION TAG
	WALL IDENTIFICATION TAG
	KEY NOTE TAG
	FIRE EXTINGUISHER (WALL BRACKET MOUNTED)
	ELEVATION MARKER
	NEW COLUMN GRID MARKER
	DRAWING REVISION CLOUD
	DETAIL BOUNDARY
	WALL TYPE
	ROOM NAME
	ROOM NAME WITH ROOM SQUARE FEET

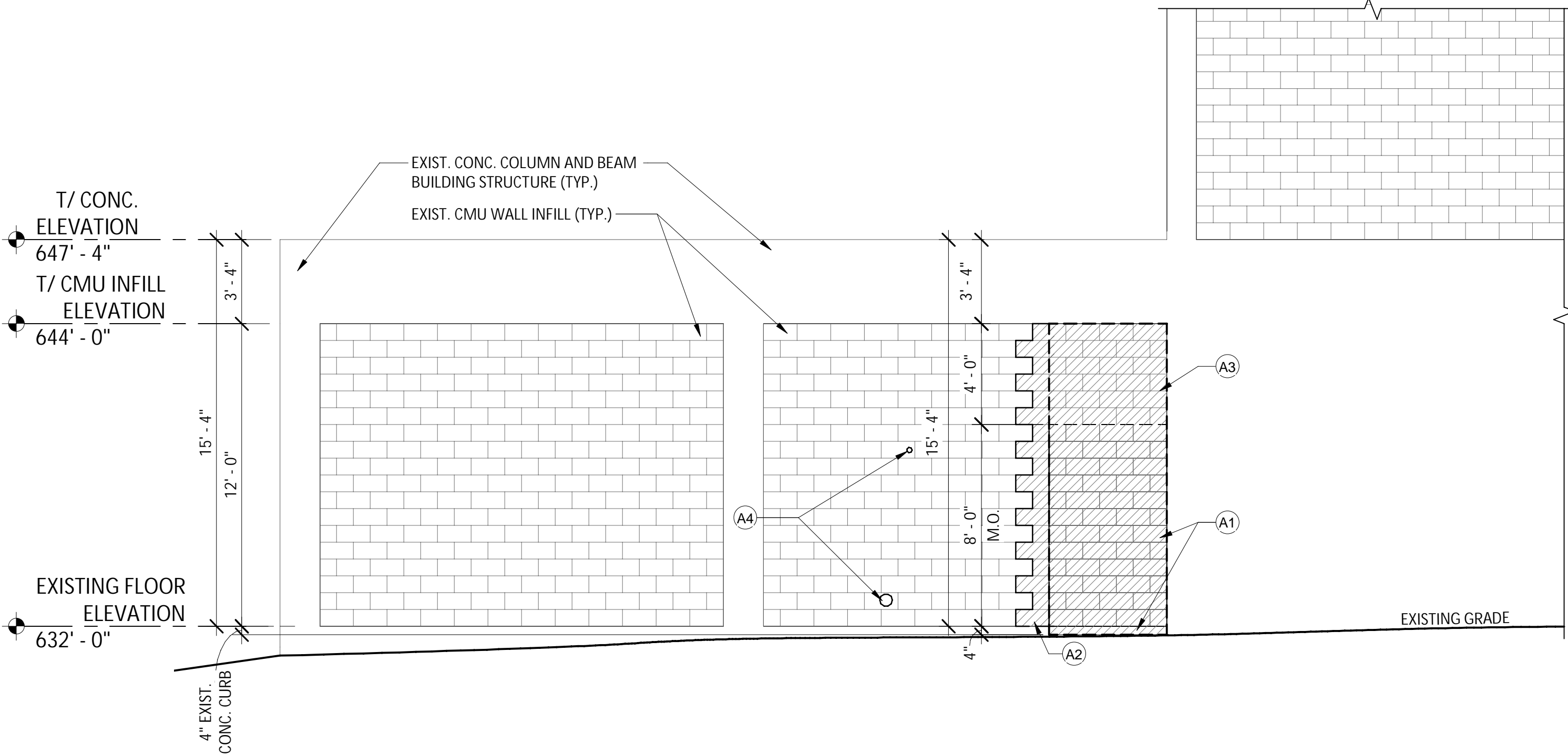
STANDARD MATERIAL HATCH

	EARTH		PLYWOOD
	GRAVEL		PLASTER, MORTAR SAND, GYPSUM
	CONCRETE		RIGID INSULATION
	C.M.U.		OTHER METAL
	BRICK		STONE
	BLOCKING		ST. GLAZED TILE CERAMIC TILE
	FINISH WOOD		BATT INSULATION
	PRECAST CONC.		STEEL
	STEEL		
	METAL STUD FRAMED WALLS		



EXISTING/DEMOLITION FLOOR PLAN

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



EXISTING/DEMOLITION SOUTH ELEVATION

1/4" = 1'-0"

DEMO KEY NOTES

- A1 SAWCUT & REMOVE SECTION OF CONCRETE MASONRY WALL AS SHOWN AND 4" HIGH CONCRETE CURB ABOVE EXISTING FLOOR ELEVATION, G.C. RESPONSIBLE FOR STABILIZATION OF EXISTING WALL TO REMAIN, SEE S-SHEETS FOR LINTEL FRAMING (TYP.)
- A2 REMOVE CONCRETE MASONRY UNITS AS SHOWN FOR NEW INSTALLATION OF TOOTHING IN MASONRY END BLOCKS FOR SMOOTH WALL MASONRY OPENING JAMB
- A3 REMOVE CONCRETE MASONRY UNITS AS SHOWN TO UNDERSIDE OF EXISTING CONCRETE BEAM, TO BE INFILLED WITH NEW CMU ABOVE NEW DOOR FRAME AND LINTEL FRAMING TO MATCH EXISTING
- A4 EXISTING PIPING TO BE DEMOLISHED BY MECHANICAL CONTACTOR (LOCATION SHOWN APPROXIMATELY), GC TO GROUT EXISTING OPENINGS SOLID

GENERAL DEMO NOTES

- CONTRACTOR TO REVIEW AND COORDINATE DEMOLITION OF ALL WORK WITH OWNER PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR(S) SHALL COORDINATE WITH OWNER WHICH ITEMS SHALL BE TURNED OVER TO THE OWNER PRIOR TO THE START OF WORK. THIS SHALL BE, BUT NOT LIMITED TO ITEMS LISTED ON THE CONTRACT DRAWINGS OR IDENTIFIED BY THE OWNER.
- ALL QUESTIONS REGARDING DEMOLITION INFORMATION CONTAINED ON THIS DRAWING SHALL BE ADDRESSED TO THE ARCHITECT.
- FIELD VERIFY EXISTING CONDITIONS, AND VERIFY WITH ARCHITECT ANY DISCREPANCIES OR CHANGES TO THE CONTRACT DOCUMENTS PRIOR TO COMMENCING DEMOLITION WORK.
- PROTECT EXISTING BUILDING FINISHES THAT ARE TO REMAIN DURING CONSTRUCTION.
- CONTRACTOR SHALL ACQUAINT THEMSELF WITH THE INTENT OF THE NEW CONSTRUCTION, AND PERFORM DEMOLITION THAT IS COMPATIBLE WITH THE PROPOSED SCOPE OF THE PROJECT AS A WHOLE.
- PATCHING: WHERE REMOVALS LEAVE HOLES AND DAMAGED SURFACES EXPOSED IN THE FINISHED WORK, PATCH AND REPAIR THESE HOLES AND DAMAGED SURFACES TO MATCH ADJACENT FINISHED SURFACES. WHERE NEW WORK IS TO BE APPLIED TO EXISTING SURFACES, PERFORM REMOVALS AND PATCHING IN A MANNER TO PRODUCE SURFACES SUITABLE FOR RECEIVING NEW WORK.
- DUST AND DEBRIS CONTROL: PROVIDE TEMPORARY INTERIOR ENCLOSURES, AS REQUIRED, TO PROTECT ALL OCCUPANTS AND TO PREVENT THE SPREAD OF DUST AND DEBRIS TO OCCUPIED PORTIONS OF THE BUILDING AND AVOID THE CREATION OF A NUISANCE OR HAZARD IN THE SURROUNDING AREA. CLEAN AND SWEEP THE WORK AREA DAILY.
- ALL MATERIALS AND EQUIPMENT REMOVED, AND NOT REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE OWNER'S PROPERTY.
- PROTECT ANY EXISTING UTILITIES, EQUIPMENT, WALLS, FLOOR FINISHES AND CEILINGS TO REMAIN FROM DAMAGE DUE TO DEMOLITION WORK. REPAIR ANY DAMAGE INCURRED WITH NEW OR LIKE MATERIALS BACK TO ORIGINAL CONDITION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION OF EXISTING AND NEW CONSTRUCTION TO PROVIDE A COMPLETED PROJECT IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE ENTIRE STRUCTURE FROM WEATHER RELATED DAMAGE DURING CONSTRUCTION.
- ALL REMOVAL WORK SHOWN AND REQUIRED SHALL BE BY THIS CONTRACT.
- MAINTAIN ALL LEGAL EXITWAYS.

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 §7209 SPECIAL PROVISIONS, FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING PROFESSIONAL SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS

SOUTHERN CALIFORNIA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES
EXISTING/DEMOLITION FLOOR PLAN, ELEVATION AND NOTES
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

B&L
443 Electronics Parkway
Liverpool, NY 13088
NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.

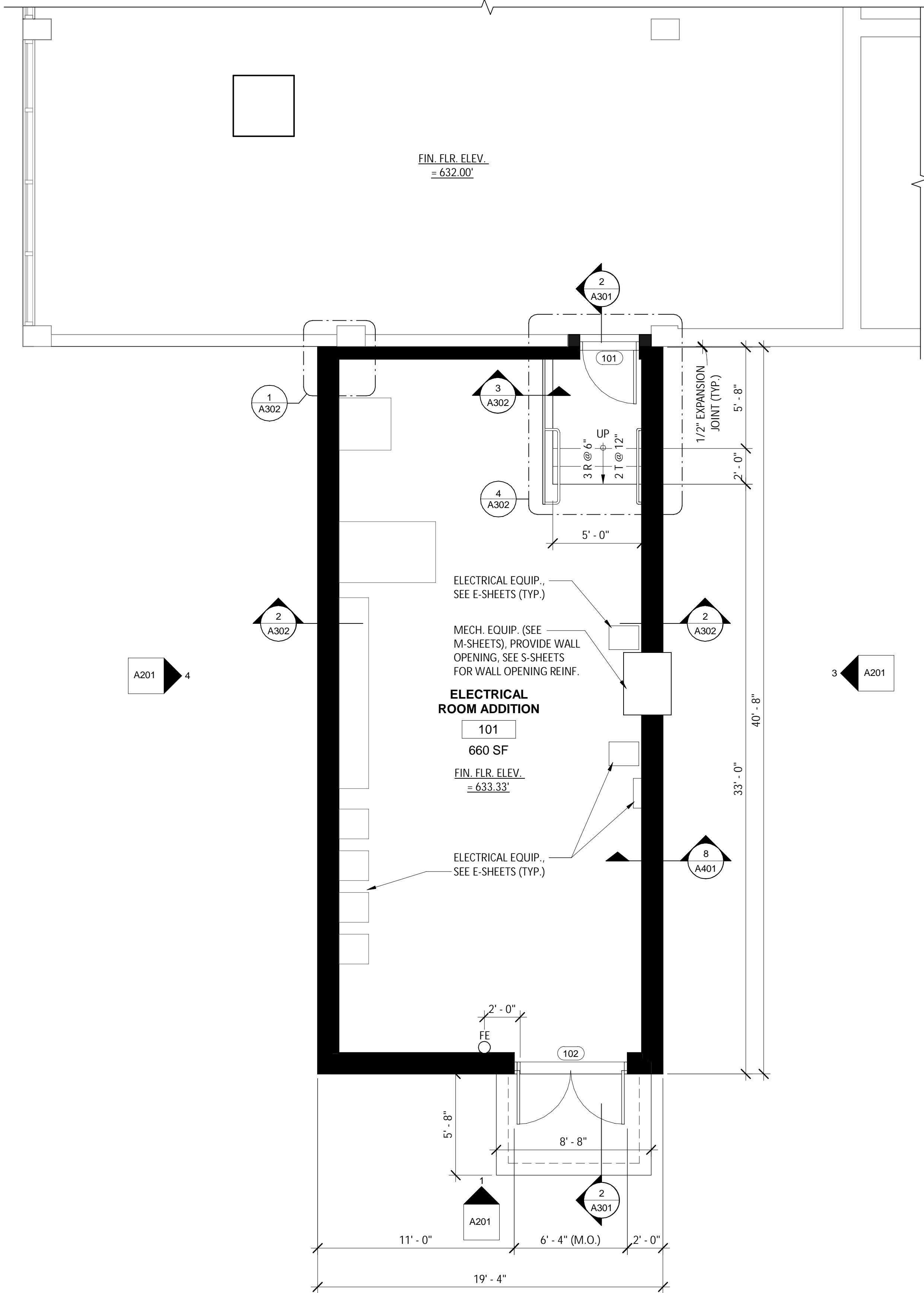
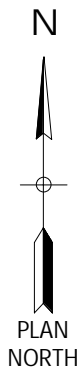


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Sheet Number	A101
Project Number	677.006.001

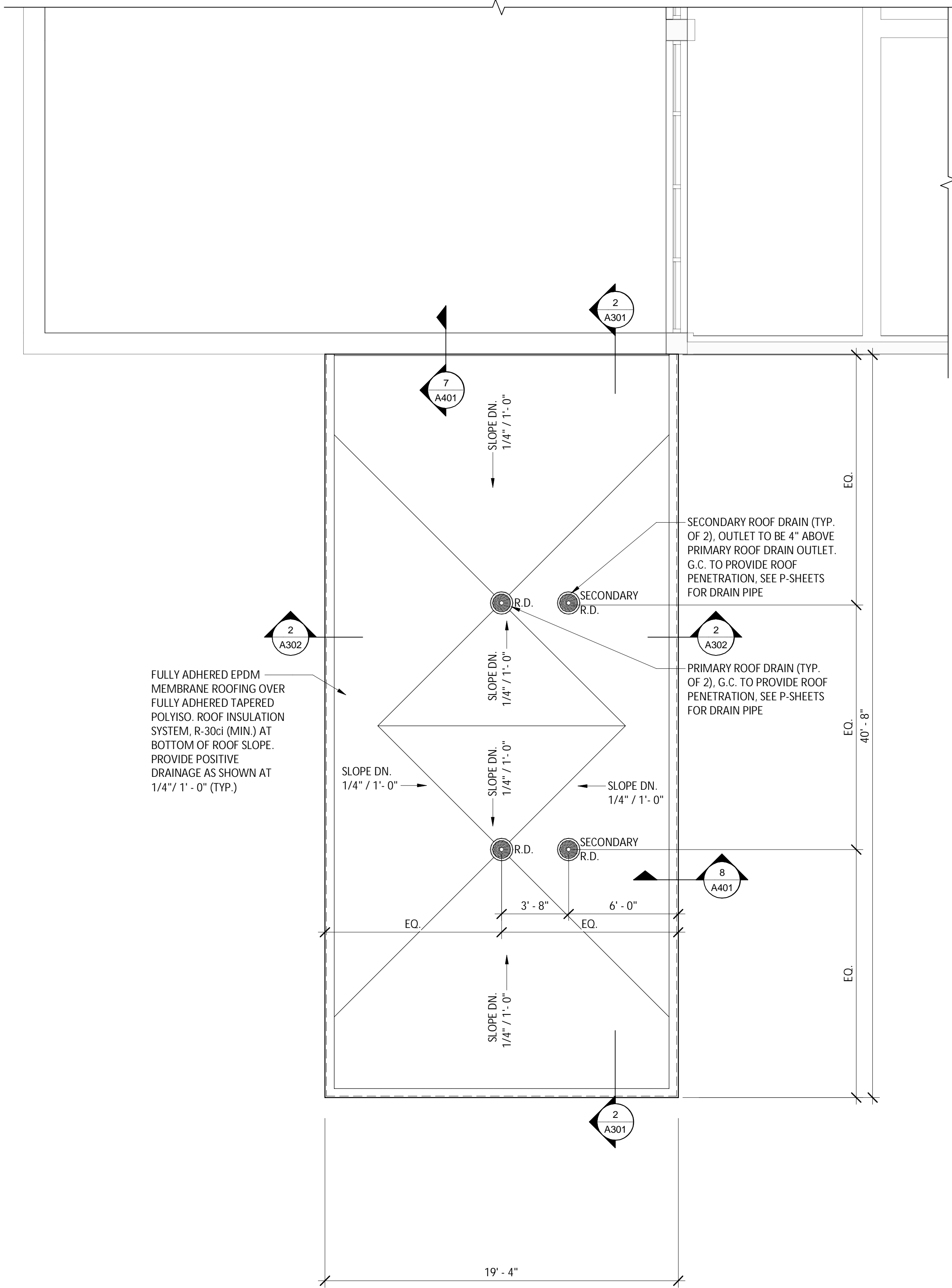
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Checked by TRB Drawn by TJM Designed by TJM In Charge of TRB



FLOOR PLAN
SCALE: 1/4" = 1'-0"



ROOF PLAN
SCALE: 1/4" = 1'-0"

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REVISIONS	

SOUTHERN CAVIUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

FLOOR PLAN AND ROOF PLAN

TOWN OF LANSING

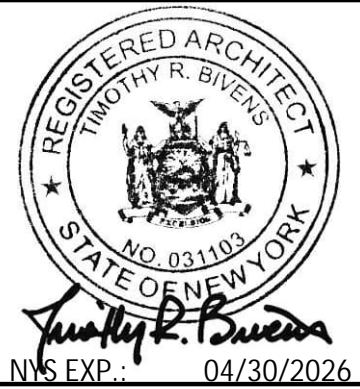
TOMPKINS COUNTY, NEW YORK

B&L

443 Electronics Parkway
Liverpool, NY
13088

NYS CERT. OF AUTH.: 0018246

Barton & Loguidice, D.P.C.

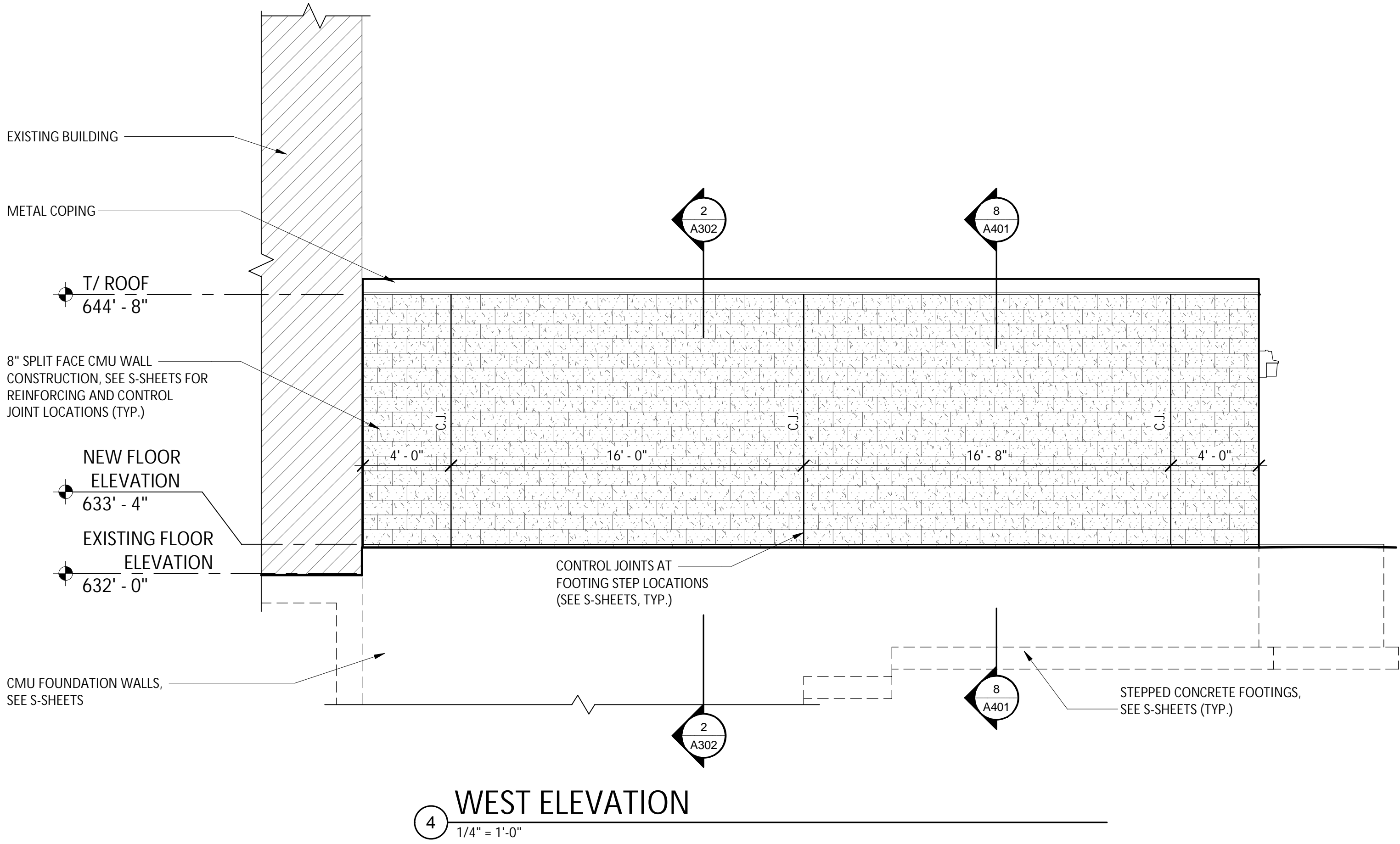
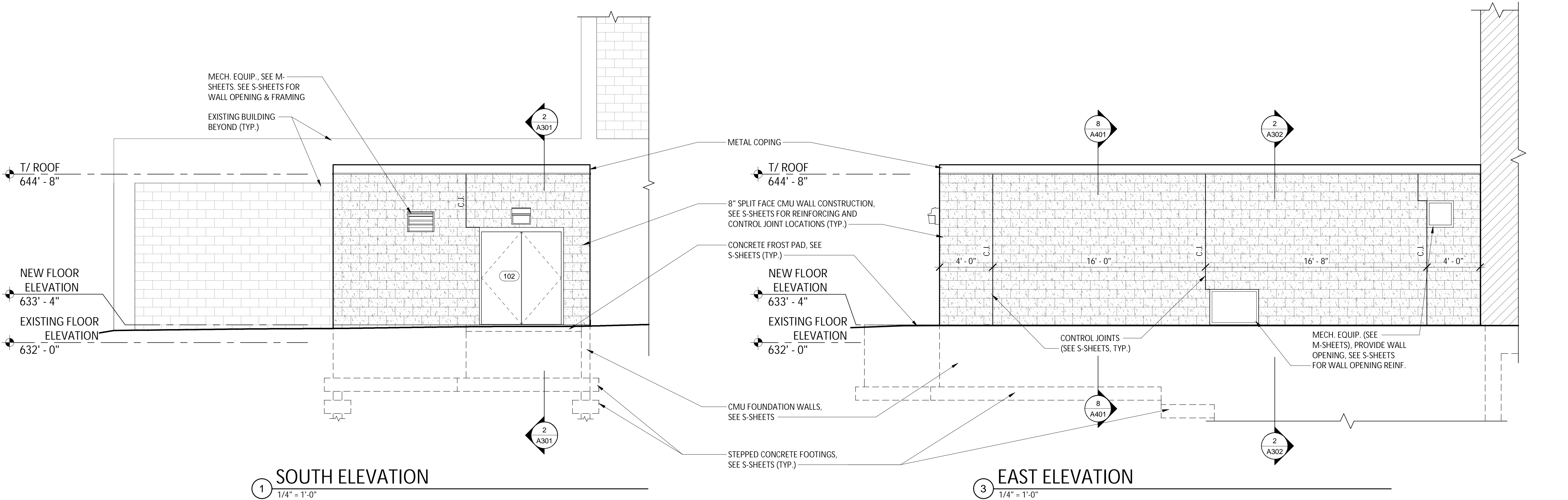


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OCTOBER, 2023

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A102

Project Number
677.006.001



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REVISIONS

SOUTHERN CAV UGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

ELEVATIONS

TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088

B&L

NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.

REGISTERED ARCHITECT
TIMOTHY R. BARTON
NO. 031103
STATE OF NEW YORK

Timothy R. Barton
NYS EXP.: 04/30/2026

Date
OCTOBER, 2023

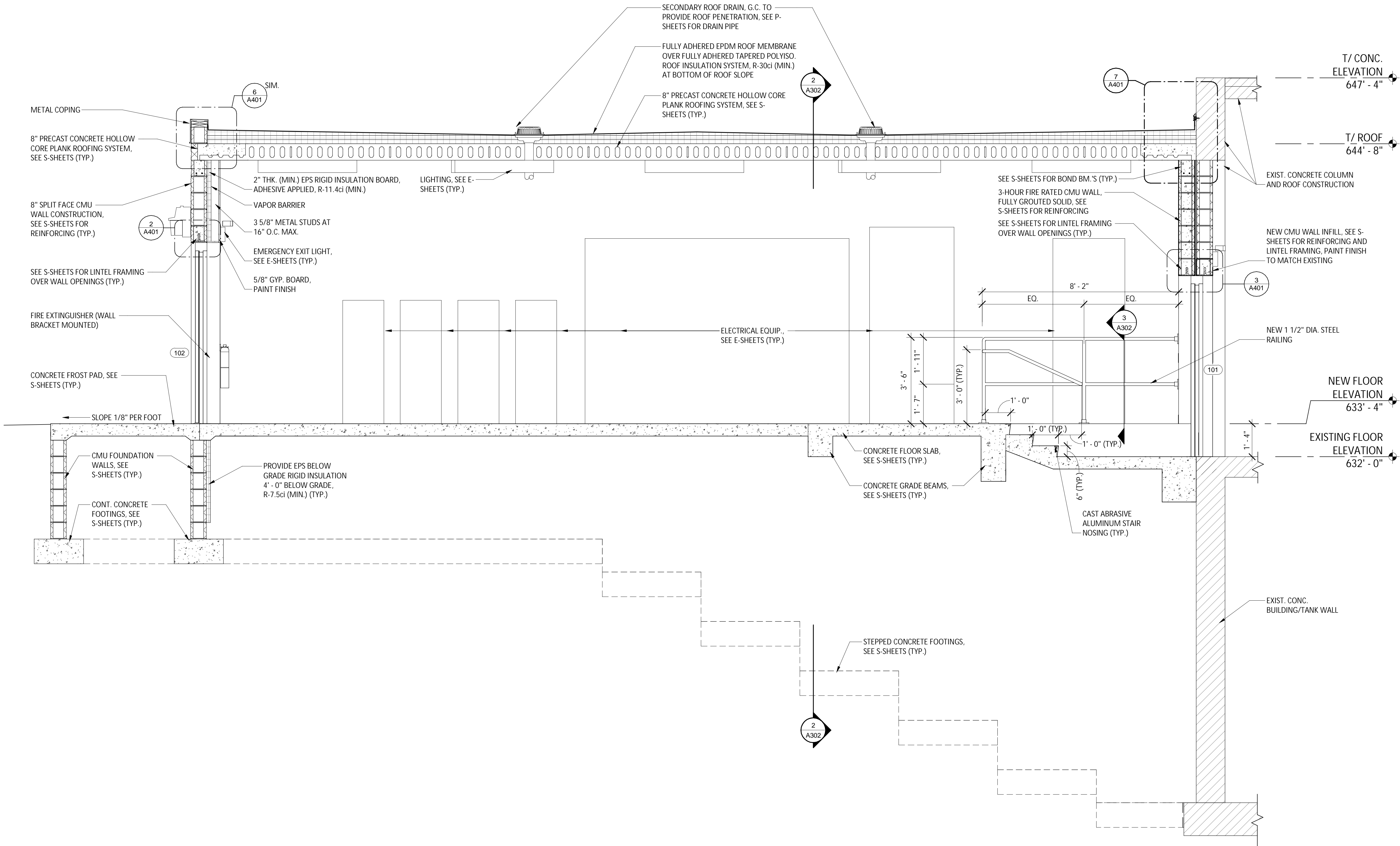
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Project Number
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BUILDING SECTION 1
1/2" = 1'-0"

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REVISIONS	

SOUTHERN CAV UGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

BUILDING SECTION

TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

B&L

443 Electronics Parkway
Liverpool, NY
13088

NYS CERT. OF AUTH.: 0018246
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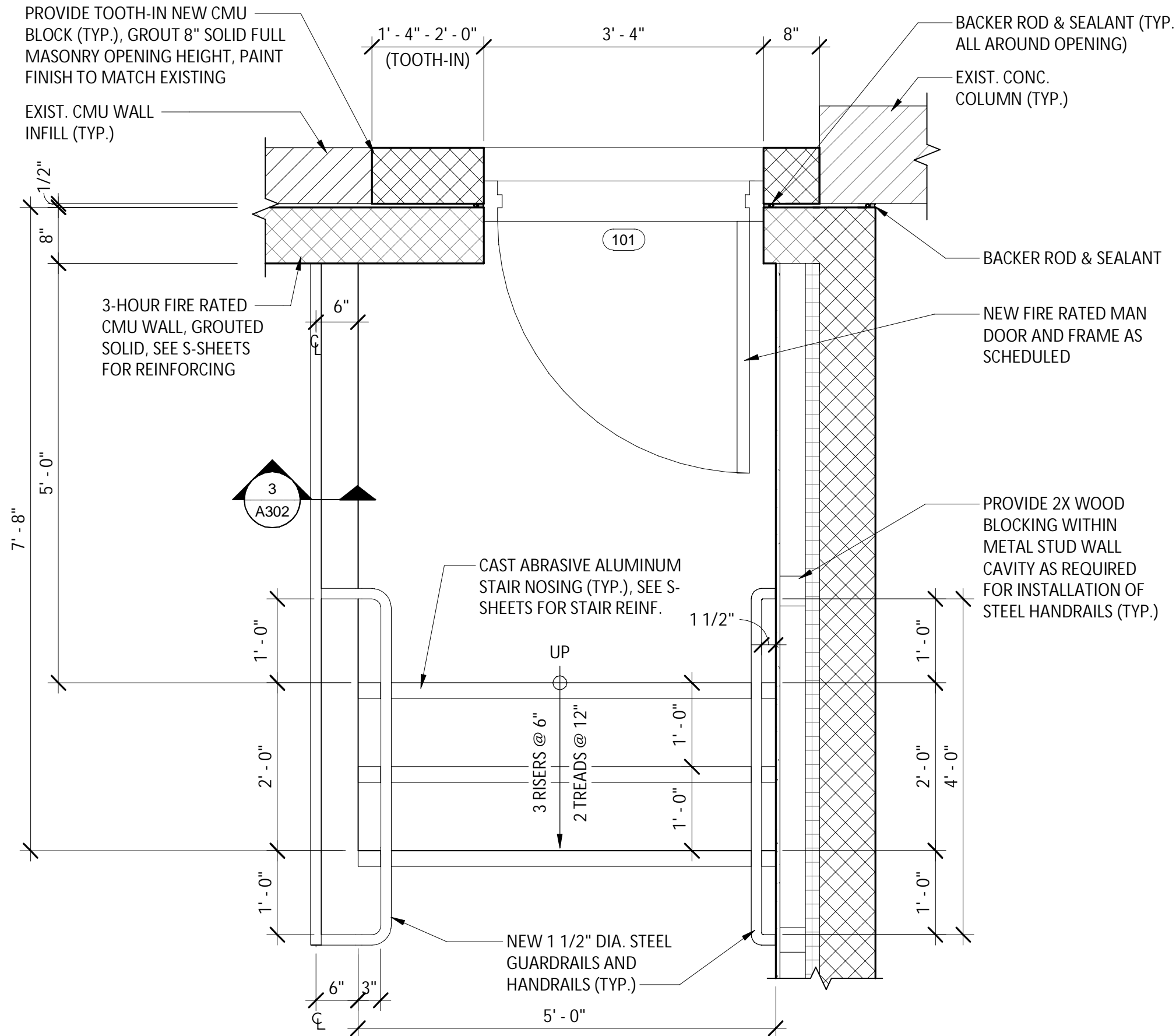


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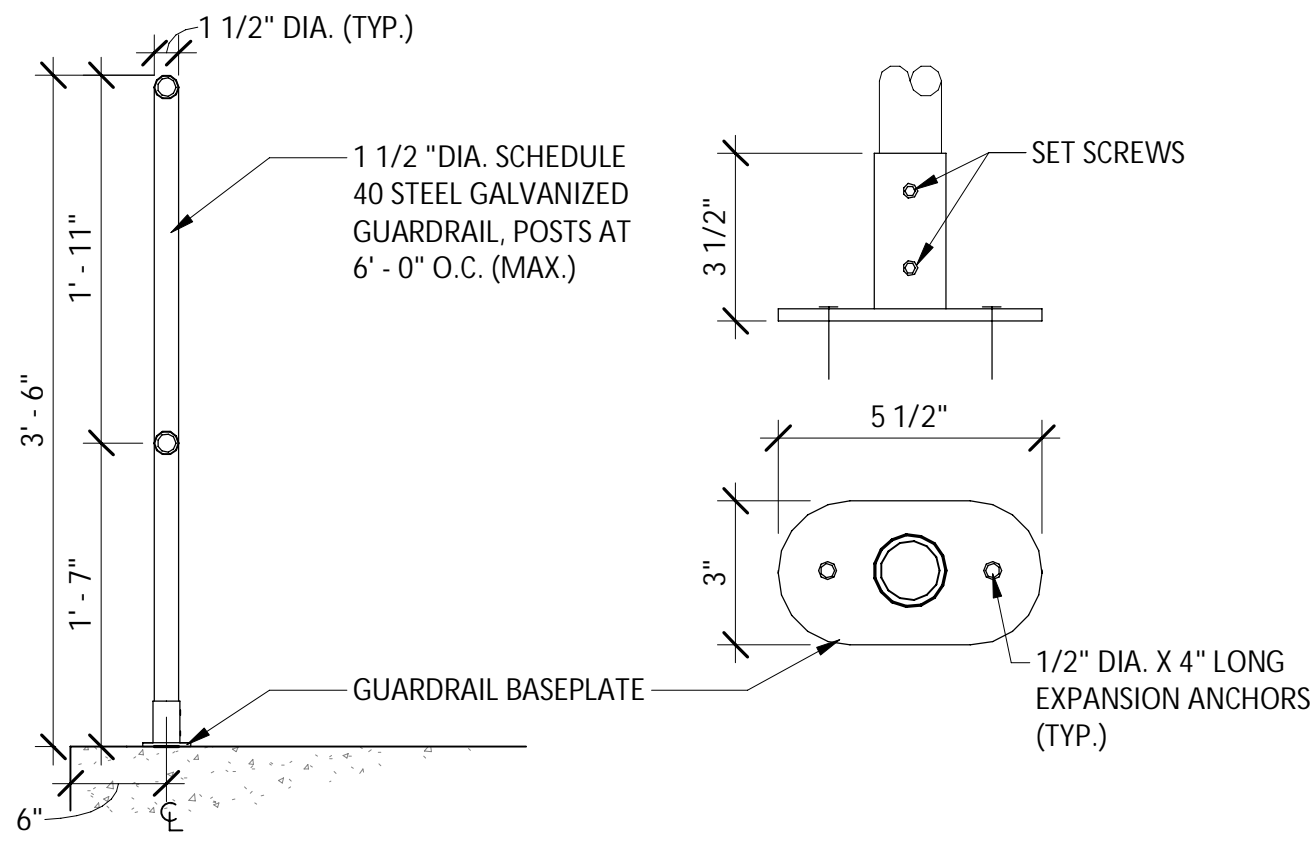
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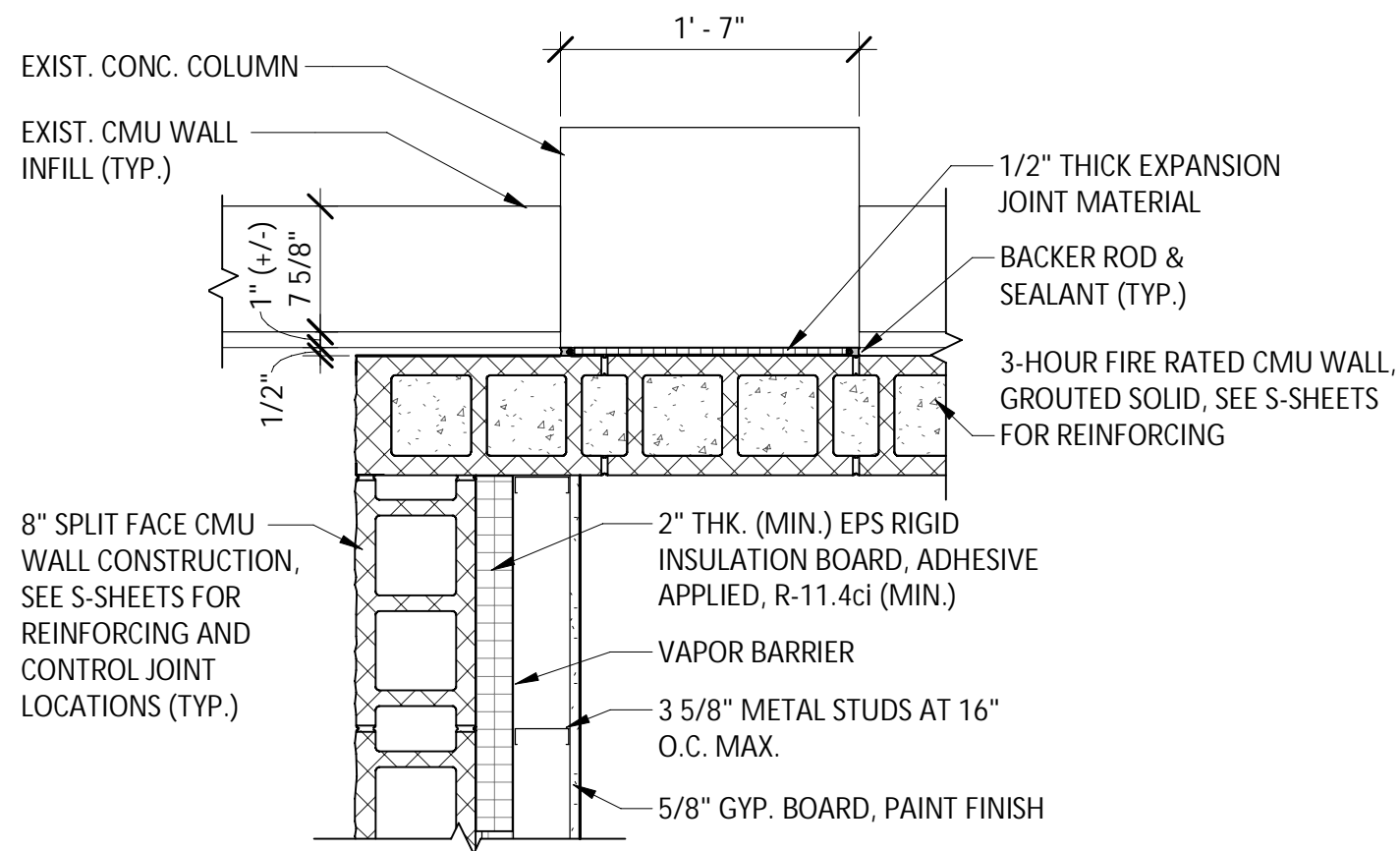
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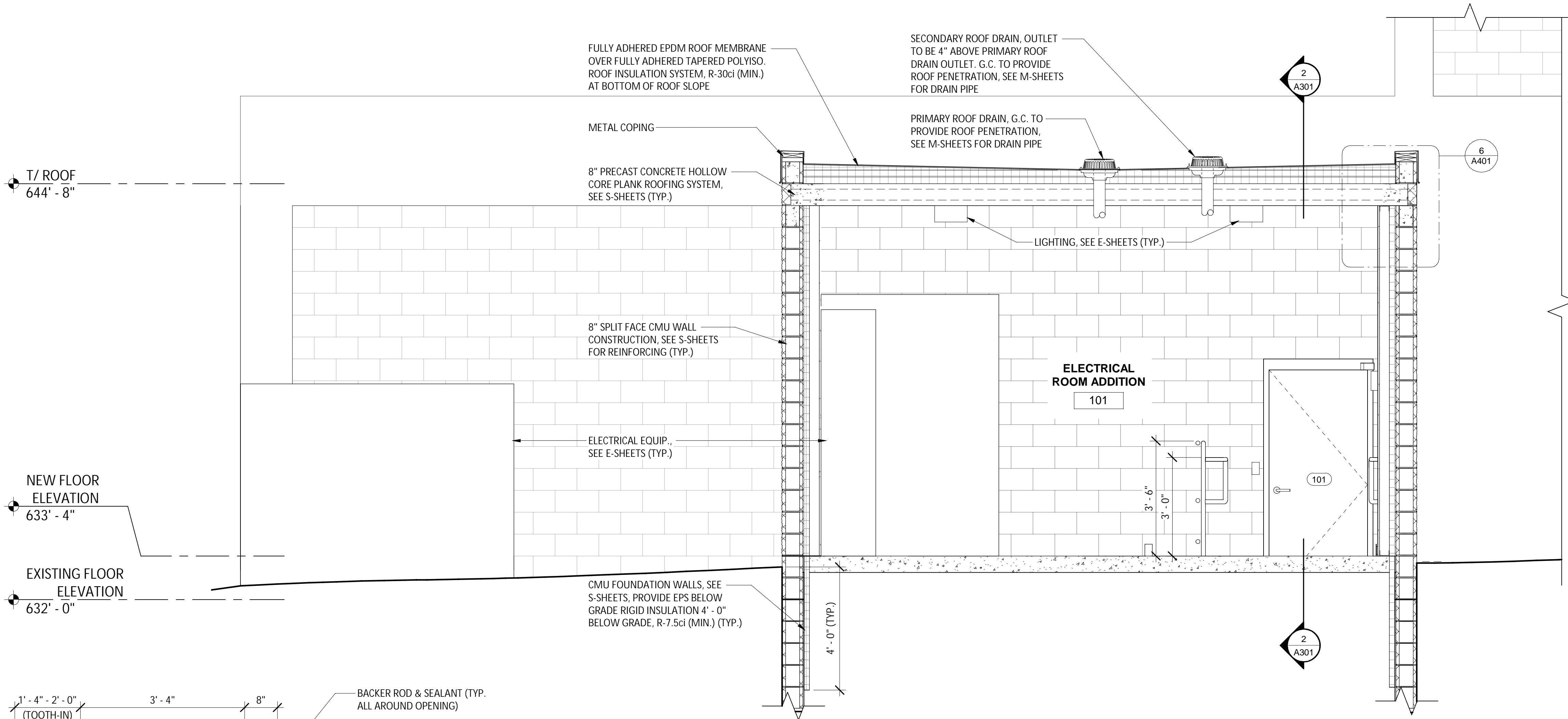
4 ENLARGED STAIR AREA PLAN
3/4" = 1'-0"



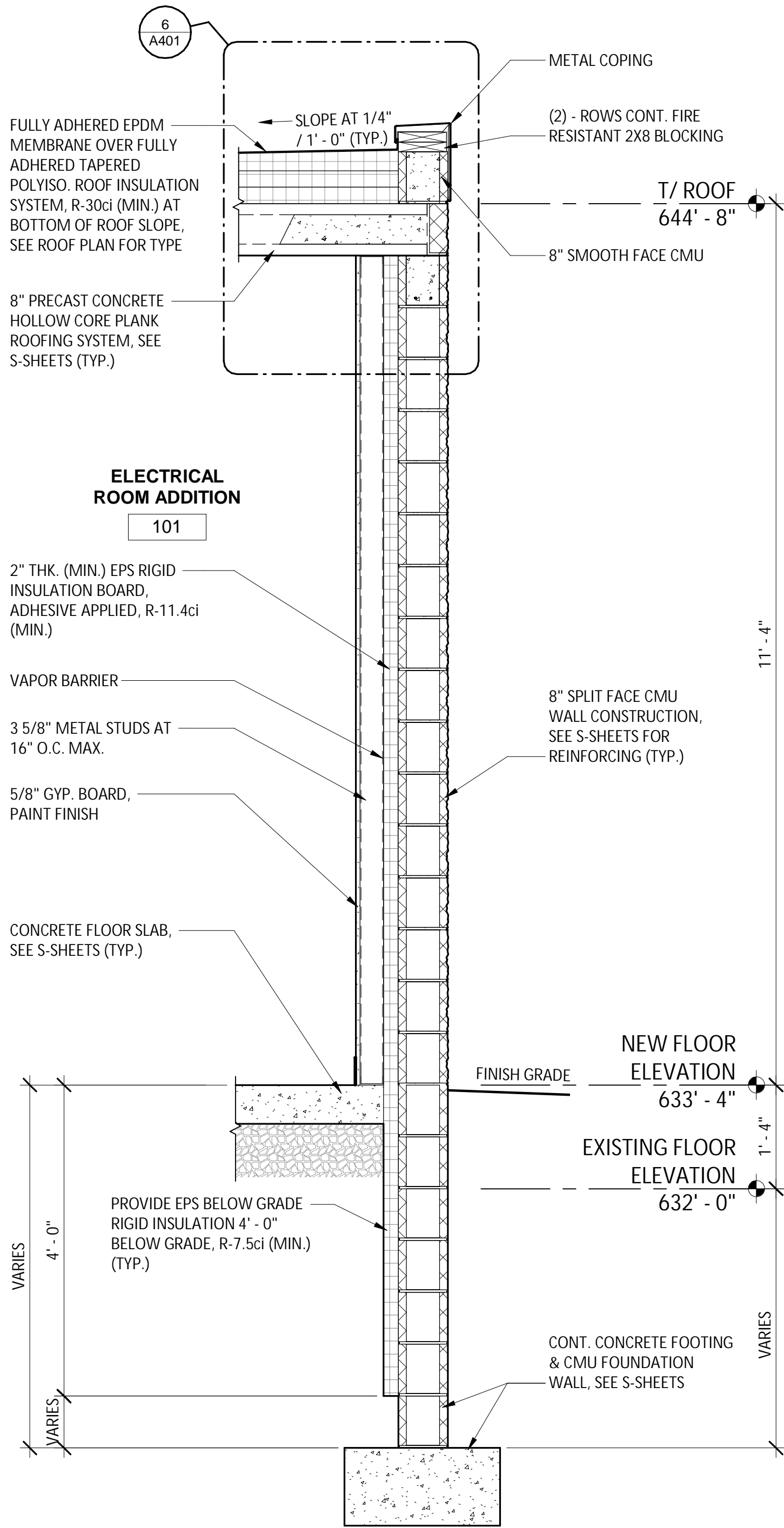
3 RAILING DETAILS
1" = 1'-0"



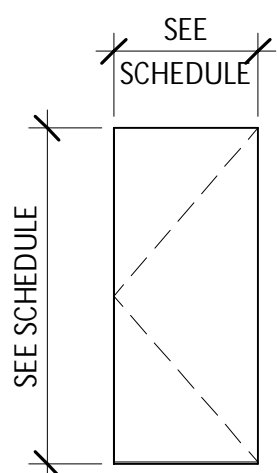
1 ENLARGED PLAN DETAIL
1" = 1'-0"



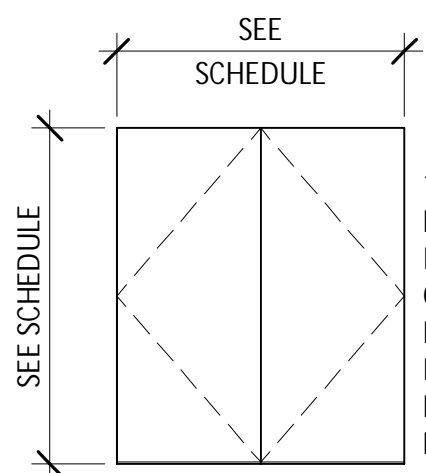
2 BUILDING SECTION 2
1/2" = 1'-0"



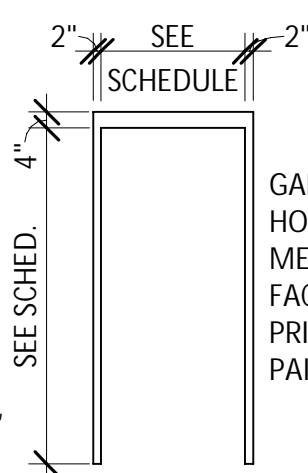
8 TYP. WALL SECTION
3/4" = 1'-0"



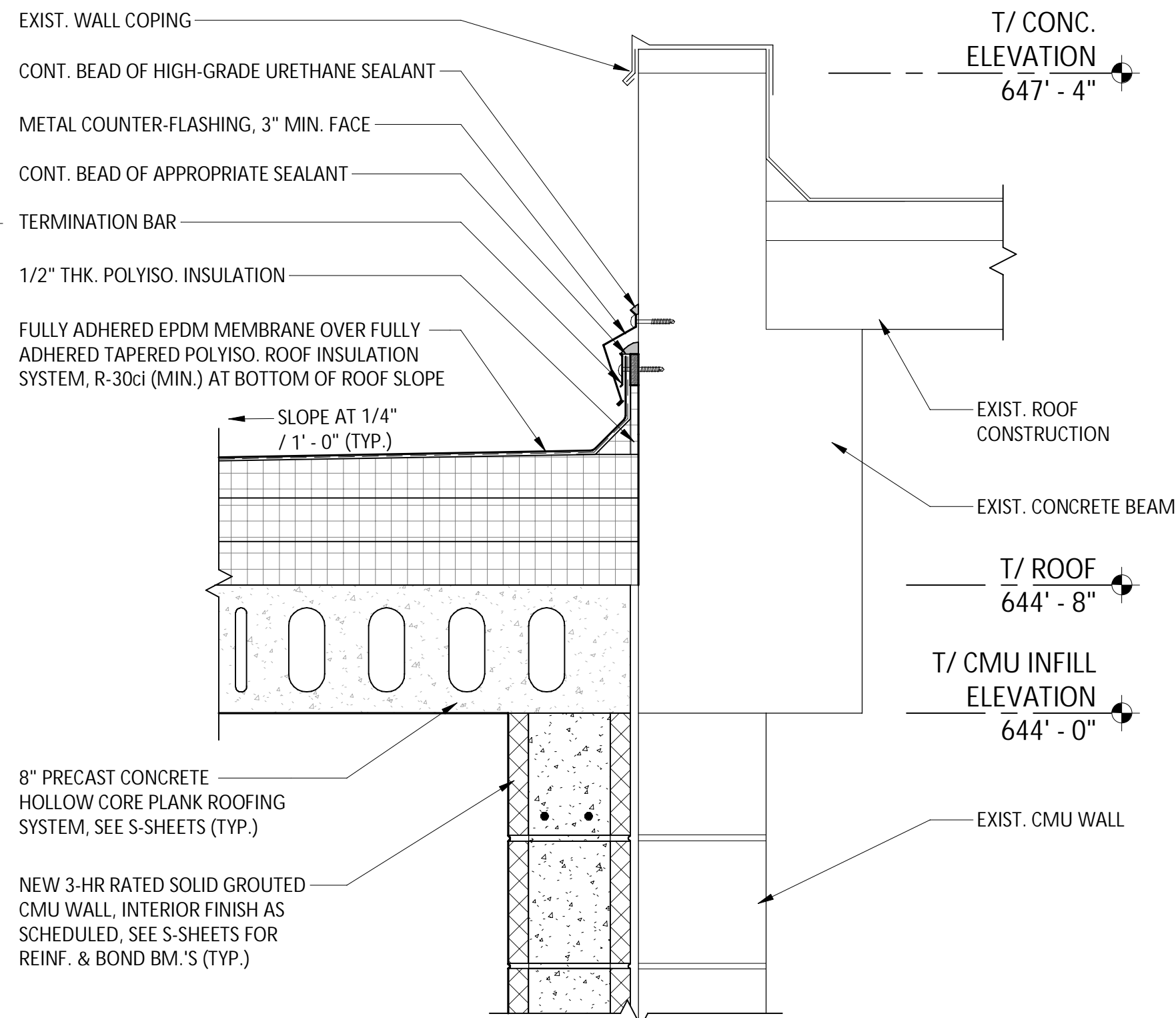
TYPE - A - DOOR TYPE



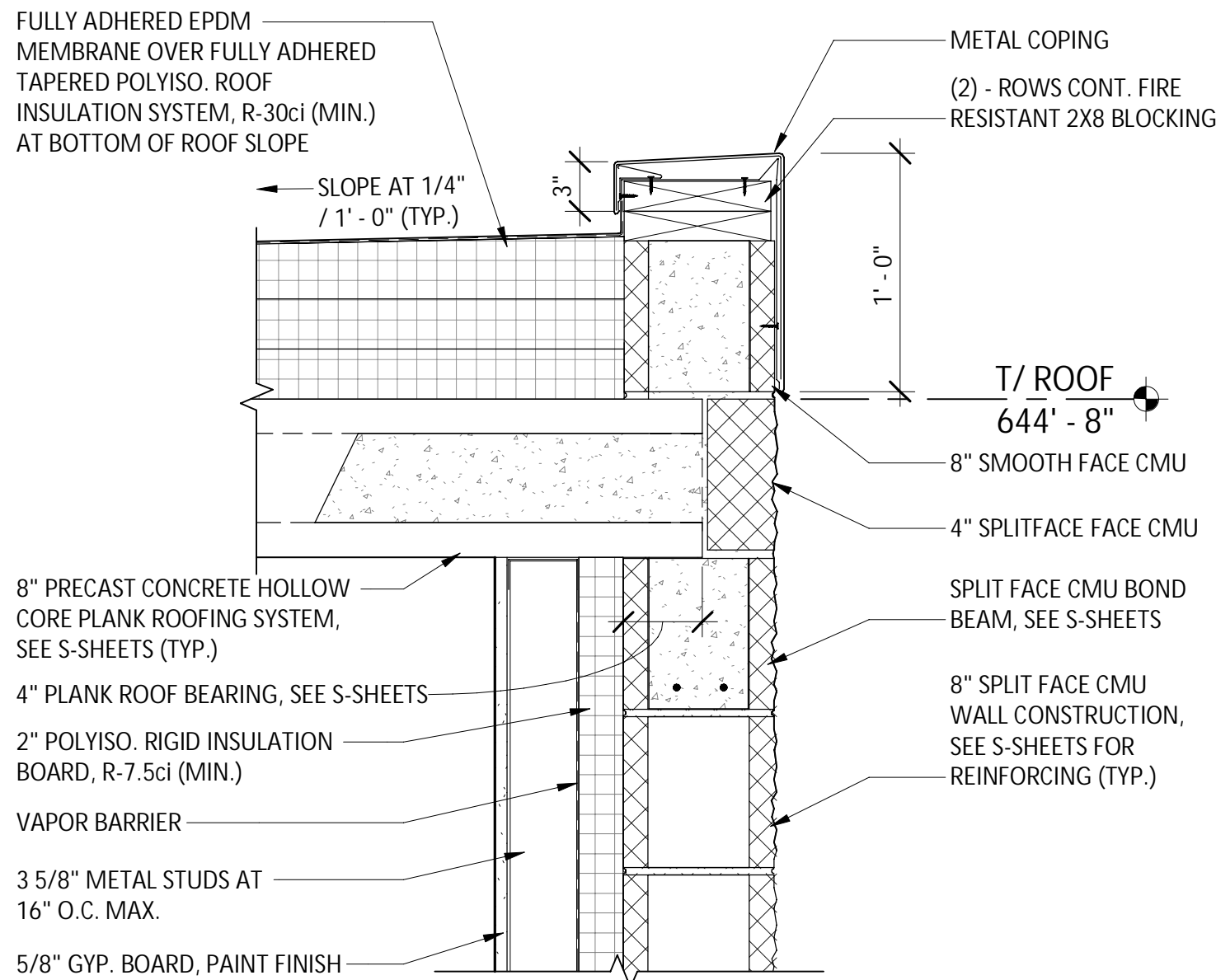
TYPE - B - DOOR TYPE



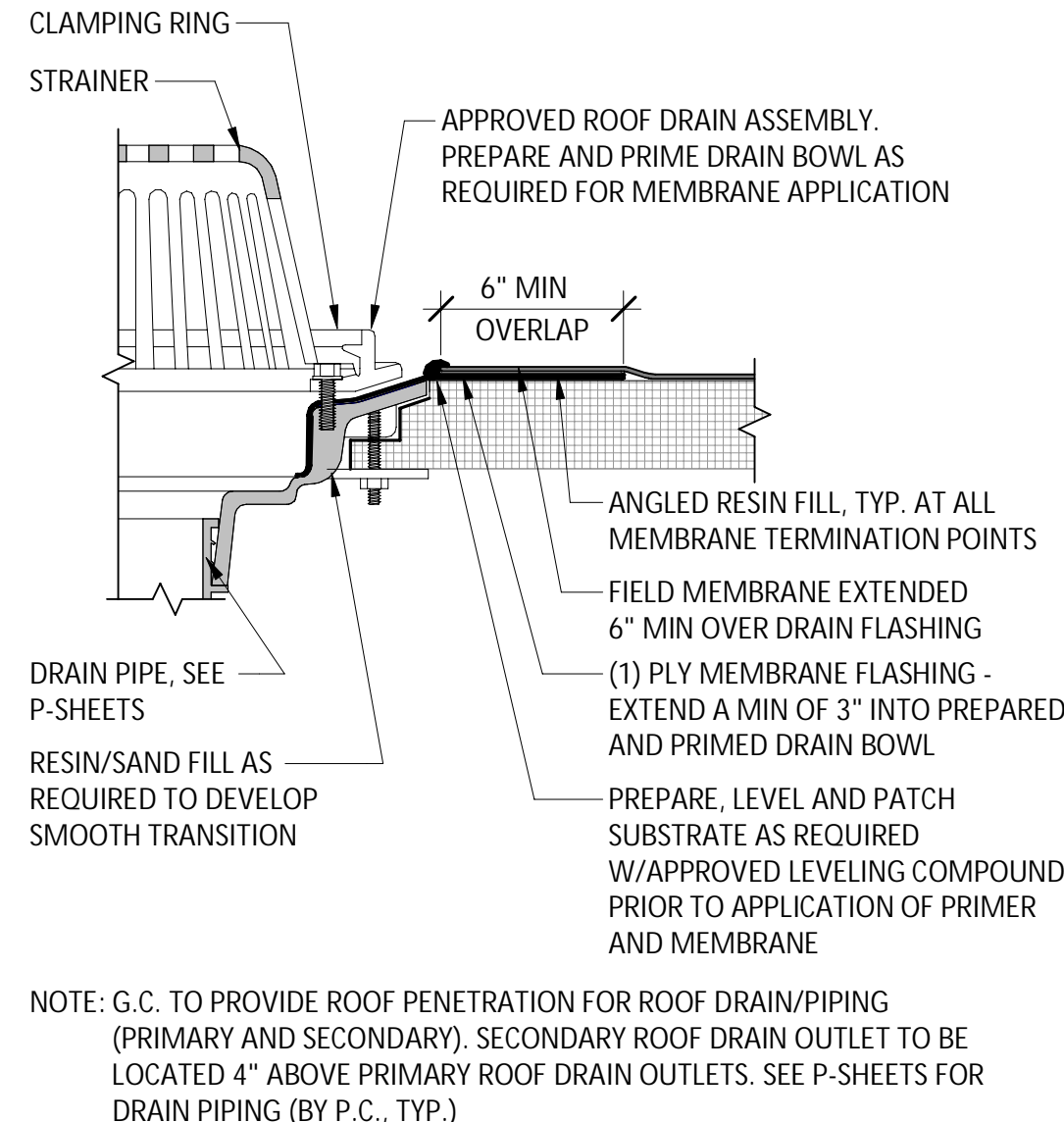
TYPE - 1 - FRAME TYPE



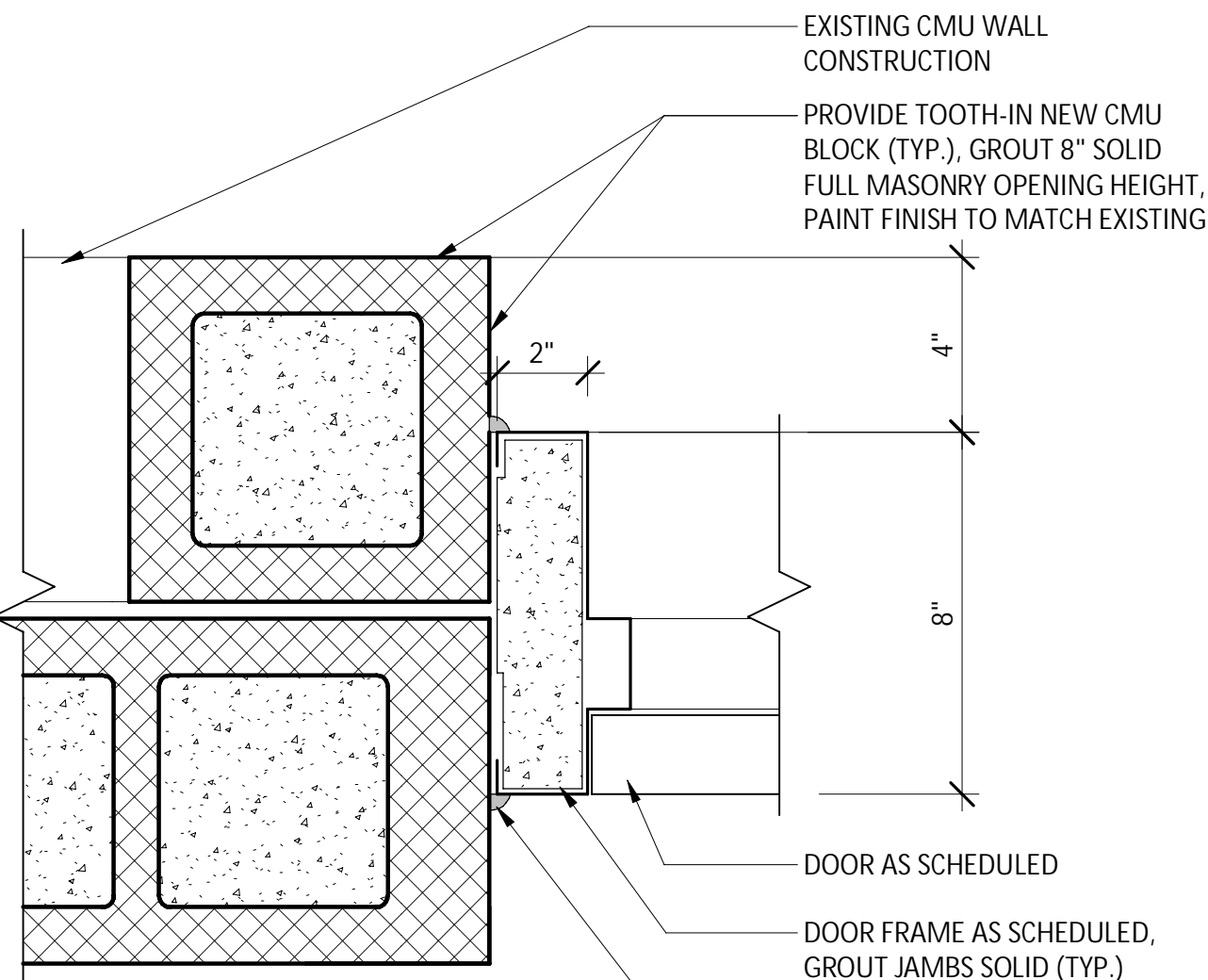
7 ROOF SECTION AT EXISTING BUILDING
1 1/2" = 1'-0"



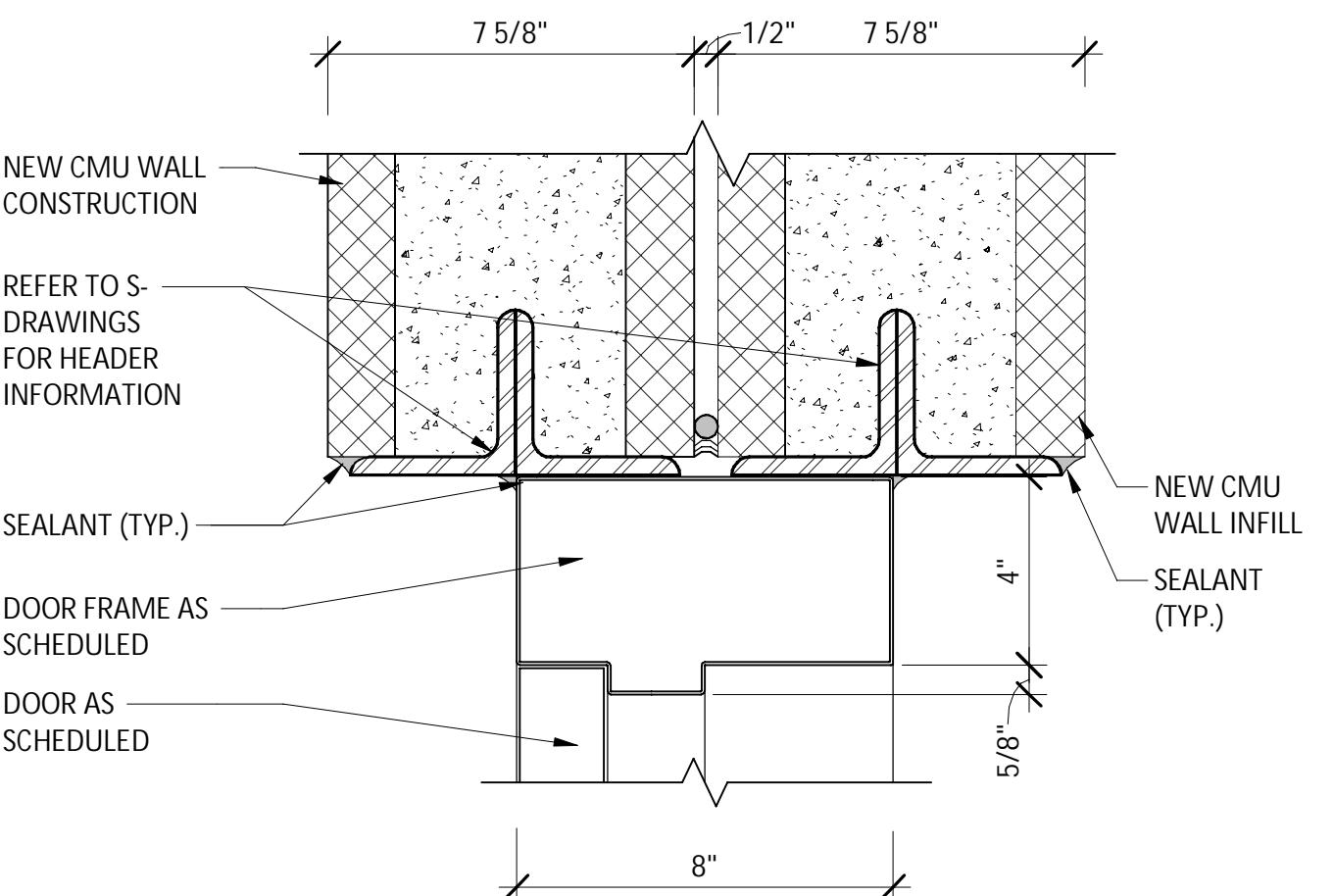
6 TYP. ROOF EDGE DETAIL
1 1/2" = 1'-0"



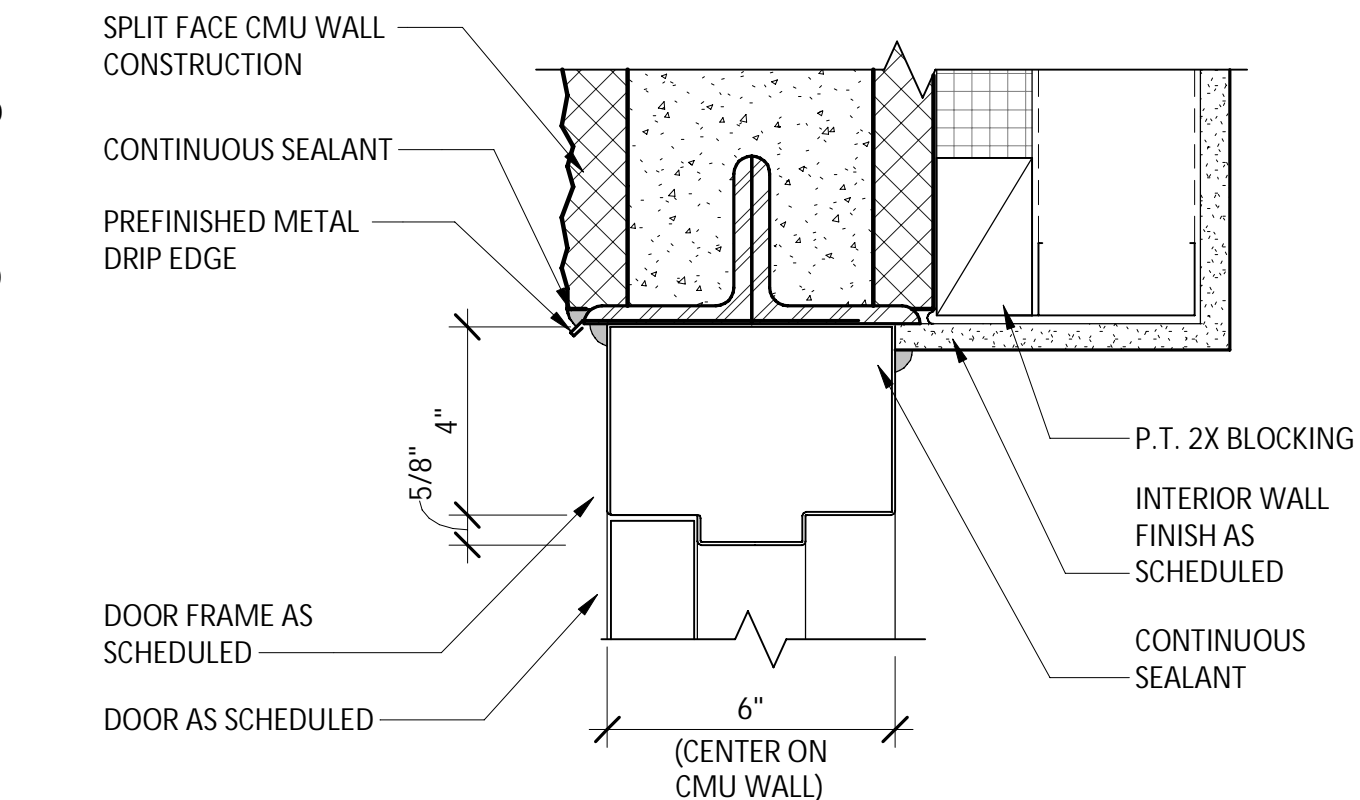
5 ROOF DRAIN DETAIL
1" = 1'-0"



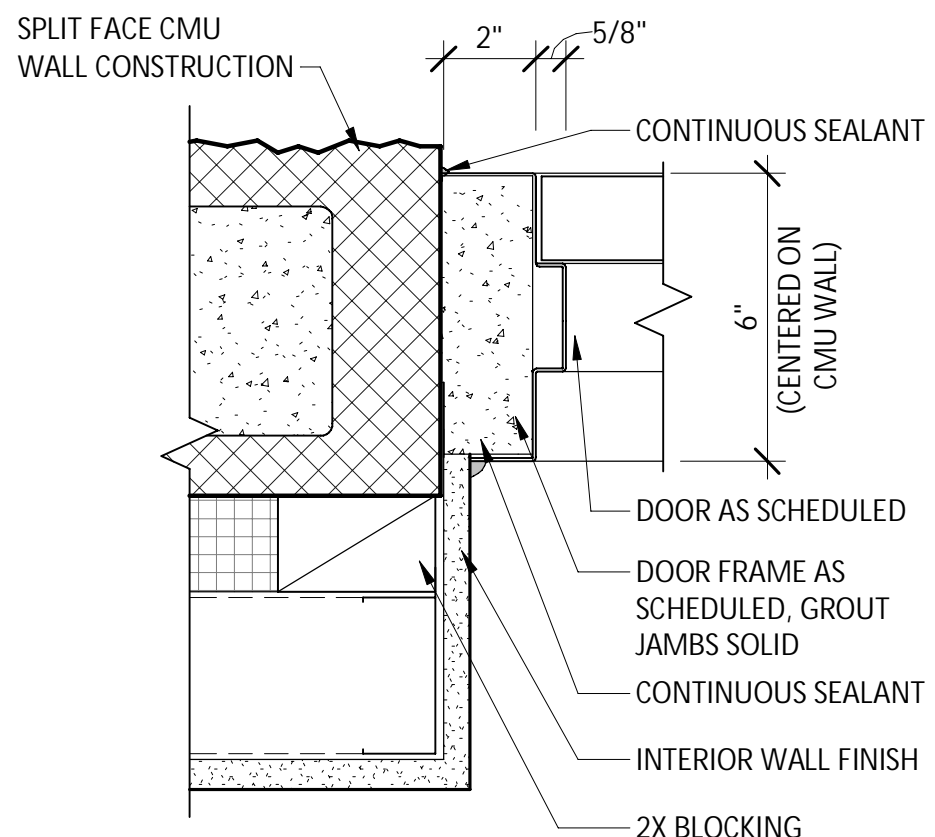
4 DOOR JAMB DETAIL 1
3" = 1'-0"



3 DOOR HEAD DETAIL 1
3" = 1'-0"



2 DOOR HEAD DETAIL 2
3" = 1'-0"



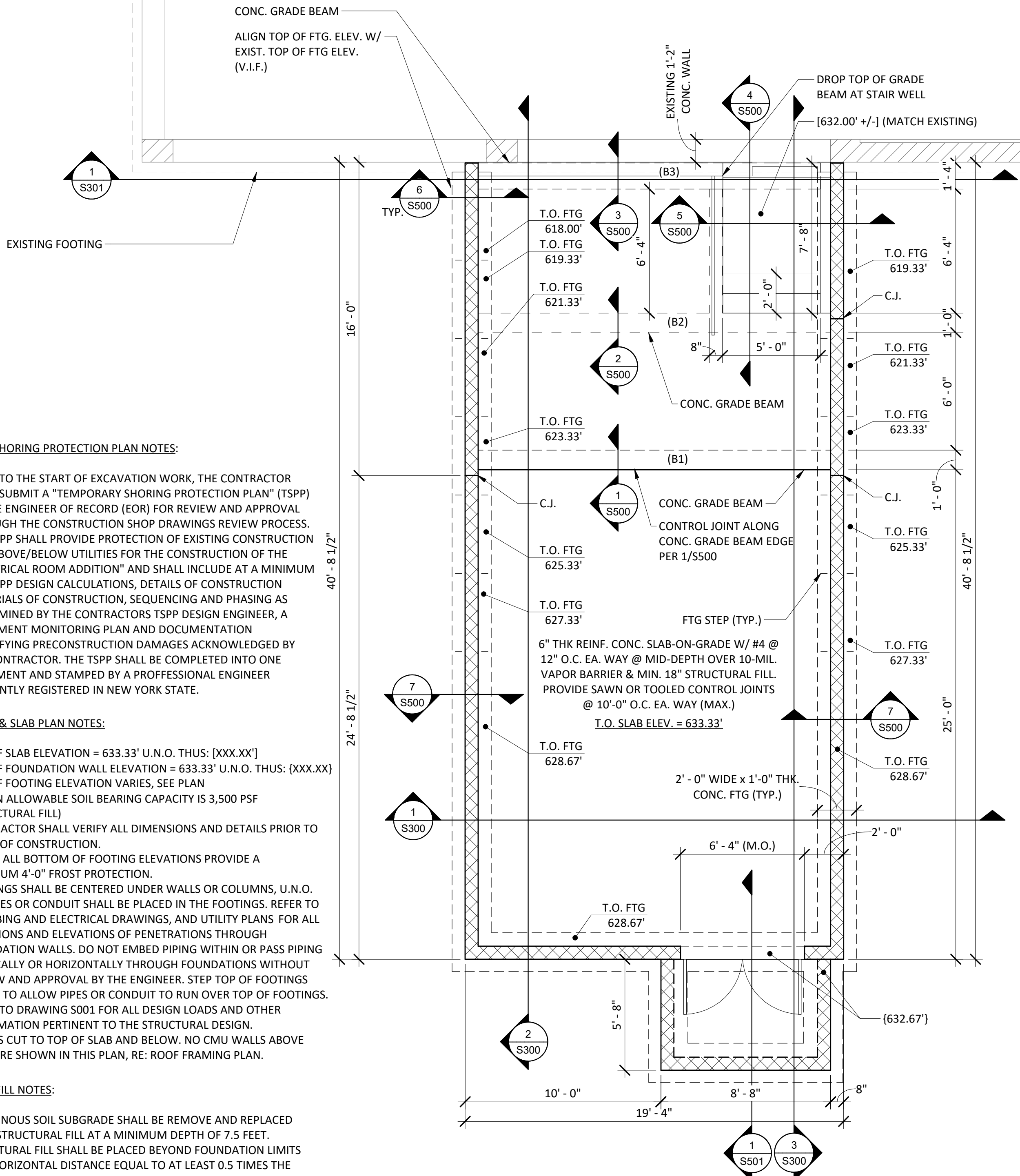
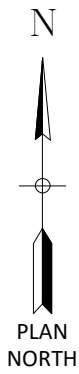
1 DOOR JAMB DETAIL 2
3" = 1'-0"

DOOR SCHEDULE													
DOOR NUMBER	DOOR						FRAME					COMMENTS	
	TYPE	WIDTH	HEIGHT	MATERIAL	FINISH	FIRE RATING	HARDWARE (SEE SPEC)	TYPE	MATERIAL	FINISH	JAMB		HEAD
101	A	3' - 0"	7' - 0"	H.M.	PAINT FINISH	3 HOURS	HW-1	1	H.M.	PAINT FINISH	7/A401	5/A401	3-HOUR FIRE RATED DOOR
102	B	6' - 0"	7' - 0"	GALV. H.M.	PAINT FINISH	-	HW-2	1	GALV. H.M.	PAINT FINISH	8/A401	6/A401	INSULATED EXTERIOR DOOR

ROOM FINISH SCHEDULE									
ROOM NUMBER	NAME	FLOOR FINISH	WALL FINISH				CEILING		COMMENTS
			NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
101	ELECTRICAL ROOM ADDITION	CONCRETE - UNFINISHED	CMU - PAINT FINISH	GYP. WALLBOARD - PAINT FINISH	GYP. WALLBOARD - PAINT FINISH	GYP. WALLBOARD - PAINT FINISH	PRECAST CONCRETE PLANK - PAINT FINISH	10' - 8"	

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REVISIONS	



FOUNDATION & SLAB PLAN

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

TEMPORARY SHORING PROTECTION PLAN NOTES:

- PRIOR TO THE START OF EXCAVATION WORK, THE CONTRACTOR SHALL SUBMIT A "TEMPORARY SHORING PROTECTION PLAN" (TSPP) TO THE ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL THROUGH THE CONSTRUCTION SHOP DRAWINGS REVIEW PROCESS. THE TSPP SHALL PROVIDE PROTECTION OF EXISTING CONSTRUCTION AND ABOVE/BELOW UTILITIES FOR THE CONSTRUCTION OF THE "ELECTRICAL ROOM ADDITION" AND SHALL INCLUDE AT A MINIMUM THE TSPP DESIGN CALCULATIONS, DETAILS OF CONSTRUCTION MATERIALS OF CONSTRUCTION, SEQUENCING AND PHASING AS DETERMINED BY THE CONTRACTORS TSPP DESIGN ENGINEER, A MOVEMENT MONITORING PLAN AND DOCUMENTATION IDENTIFYING PRECONSTRUCTION DAMAGES ACKNOWLEDGED BY THE CONTRACTOR. THE TSPP SHALL BE COMPLETED INTO ONE DOCUMENT AND STAMPED BY A PROFFESIONAL ENGINEER CURRENTLY REGISTERED IN NEW YORK STATE.

FOUNDATION & SLAB PLAN NOTES:

- TOP OF SLAB ELEVATION = 633.33' U.N.O. THUS: [XXX.XX']
- TOP OF FOUNDATION WALL ELEVATION = 633.33' U.N.O. THUS: [XXX.XX']
- TOP OF FOOTING ELEVATION VARIES, SEE PLAN
- DESIGN ALLOWABLE SOIL BEARING CAPACITY IS 3,500 PSF (STRUCTURAL FILL)
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO START OF CONSTRUCTION.
- VERIFY ALL BOTTOM OF FOOTING ELEVATIONS PROVIDE A MINIMUM 4'-0" FROST PROTECTION.
- FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, U.N.O.
- NO PIPES OR CONDUIT SHALL BE PLACED IN THE FOOTINGS. REFER TO PLUMBING AND ELECTRICAL DRAWINGS, AND UTILITY PLANS FOR ALL LOCATIONS AND ELEVATIONS OF PENETRATIONS THROUGH FOUNDATION WALLS. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH FOUNDATIONS WITHOUT REVIEW AND APPROVAL BY THE ENGINEER. STEP TOP OF FOOTINGS DOWN TO ALLOW PIPES OR CONDUIT TO RUN OVER TOP OF FOOTINGS. REFER TO DRAWING S001 FOR ALL DESIGN LOADS AND OTHER INFORMATION PERTINENT TO THE STRUCTURAL DESIGN.
- PLAN IS CUT TO TOP OF SLAB AND BELOW. NO CMU WALLS ABOVE SLAB ARE SHOWN IN THIS PLAN, RE: ROOF FRAMING PLAN.

STRUCTURAL FILL NOTES:

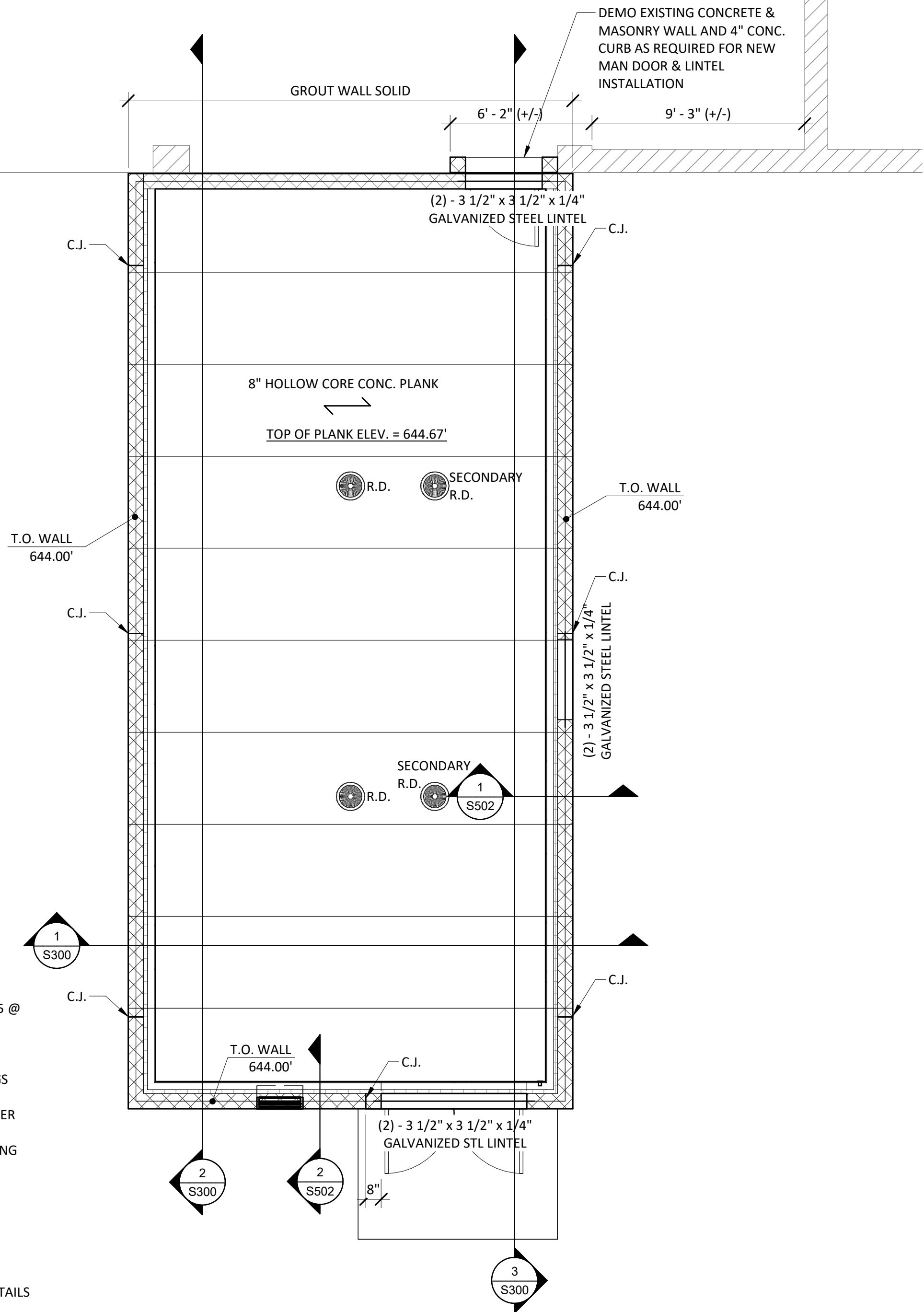
- INDIGENOUS SOIL SUBGRADE SHALL BE REMOVE AND REPLACED WITH STRUCTURAL FILL AT A MINIMUM DEPTH OF 7.5 FEET.
- STRUCTURAL FILL SHALL BE PLACED BEYOND FOUNDATION LIMITS AT A HORIZONTAL DISTANCE EQUAL TO AT LEAST 0.5 TIMES THE DEPTH OF THE STRUCTURAL FILL LAYER BENEATH THE FOUNDATION BUT NO LESS THAN 12 INCHES.
- STRUCTURAL FILL SHALL BE FLOWABLE BACKFILL MATERIAL WITH NON-SWELLING CEMENT / FINE AGGREGATE TYPE MATERIAL AND SHOULD HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F_c) OF 250 POUNDS PER SQUARE INCH (psi).
- DURING EXCAVATION, IF SUITABLE INDIGENOUS SOIL SUBGRADES ARE ENCOUNTERED AT A SHALLOWER DEPTH AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, THE FOUNDATION MAY BEAR DIRECTLY ON THE SUITABLE INDIGENOUS SOILS. ACCORDINGLY, CLOSE FULL-TIME INSPECTION OF THE SUBGRADE EXCAVATION IS STRONGLY RECOMMENDED.
- SEE TYPICAL STRUCTURAL FILL PLACEMENT DETAIL ON S501.

MASONRY WALL FRAMING NOTES:

- ALL MASONRY WALLS SHOWN SHALL BE 8" CMU W/ #5 @ 48" O.C. VERTICAL REINFORCING.
- REINFORCE AND GROUT THREE CORES AT BUILDING CORNERS PER TYPICAL CMU CORNER DETAIL.
- REINFORCE AND GROUT EACH SIDE OF WALL OPENINGS PER TYPICAL CMU OPENING DETAIL.
- PROVIDE MASONRY BOND BEAMS AS SHOWN AND OVER ALL WALL OPENINGS AND AT TOP OF WALLS.
- PROVIDE HORIZONTAL LADDER TYPE JOINT REINFORCING AT 16" ON CENTER.
- REFER TO PROJECT SPECIFICATIONS AND MASONRY DETAILS FOR ADDITIONAL INFORMATION.

ROOF FRAMING PLAN NOTES:

- TOP OF 8" HOLLOW CORE PLANK ELEVATION = 644.67'
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS WITH ARCHITECTURAL PLANS PRIOR TO START OF CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ROOF SLOPES, HEEL HEIGHTS, OVERHANGS, AND ELEVATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING FOR ROOF/WALL PENETRATIONS AND LOCATIONS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN, AND ALL LOCATIONS SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS. CONTRACTOR TO COORDINATE.



ROOF FRAMING PLAN

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

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

FOUNDATION/SLAB PLAN & ROOF FRAMING PLAN

TOMPKINS COUNTY, NEW YORK

TOWN OF LANSING

B&L
443 Electronics Parkway
Liverpool, NY
13088
NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.



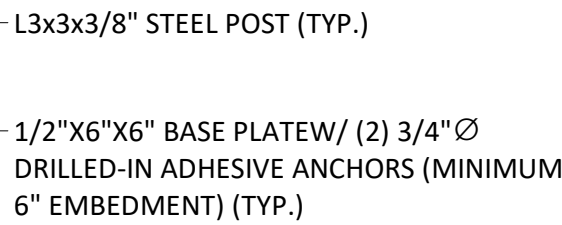
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Date
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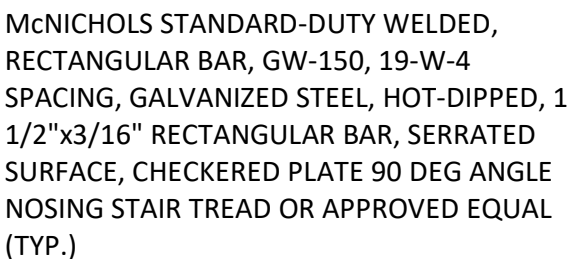
Sheet Number
S100

Project Number
677.006.001



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

1. INDIGENOUS SOIL SUBGRADE SHALL BE REMOVE AND REPLACED WITH STRUCTURAL FILL AT A MINIMUM DEPTH OF 7.5 FEET.
2. STRUCTURAL FILL SHALL BE PLACED BEYOND FOUNDATION LIMITS AT A HORIZONTAL DISTANCE EQUAL TO AT LEAST 0.5 TIMES THE DEPTH OF THE STRUCTURAL FILL LAYER BENEATH THE FOUNDATION BUT NO LESS THAN 12 INCHES.
3. STRUCTURAL FILL SHALL BE FLOWABLE BACKFILL MATERIAL WITH NON-SWELLING CEMENT / FINE AGGREGATE TYPE MATERIAL AND SHOULD HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) OF 250 POUNDS PER SQUARE INCH (psi).
4. DURING EXCAVATION, IF SUITABLE INDIGENOUS SOIL SUBGRADES ARE ENCOUNTERED AT A SHALLOWER DEPTH AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER, THE FOUNDATION MAY BEAR DIRECTLY ON THE SUITABLE INDIGENOUS SOILS. ACCORDINGLY, CLOSE FULL-TIME INSPECTION OF THE SUBGRADE EXCAVATION IS STRONGLY RECOMMENDED.
5. SEE TYPICAL STRUCTURAL FILL PLACEMENT DETAIL ON S501.



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

1. COORDINATE PAD SIZE AND LAYOUT OF PLATFORM WITH APPROVED GENERATOR.
3. ALL STEEL MEMBERS, COMPONENTS, AND FASTENERS THIS SHEET SHALL BE HOT-DIPPED GALVANIZED.
2. PAD TO BE 5,000 PSI CONCRETE.
3. GALVANIZED STAIRS SHALL HAVE 12" DEEP TREADS EVENLY SPACED (MAXIMUM RISE 7")

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In Charge of

Designed by:

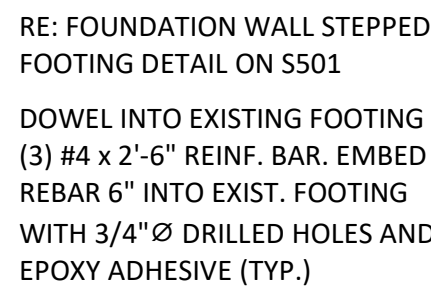
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Checked by



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



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



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

REVISIONS

NEW YORK

ON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADE

STRUCTURAL BUILDING SECTIONS

TOWN OF LANSING

443 Electronics Parkway
Liverpool, NY

OCTOBER, 2023

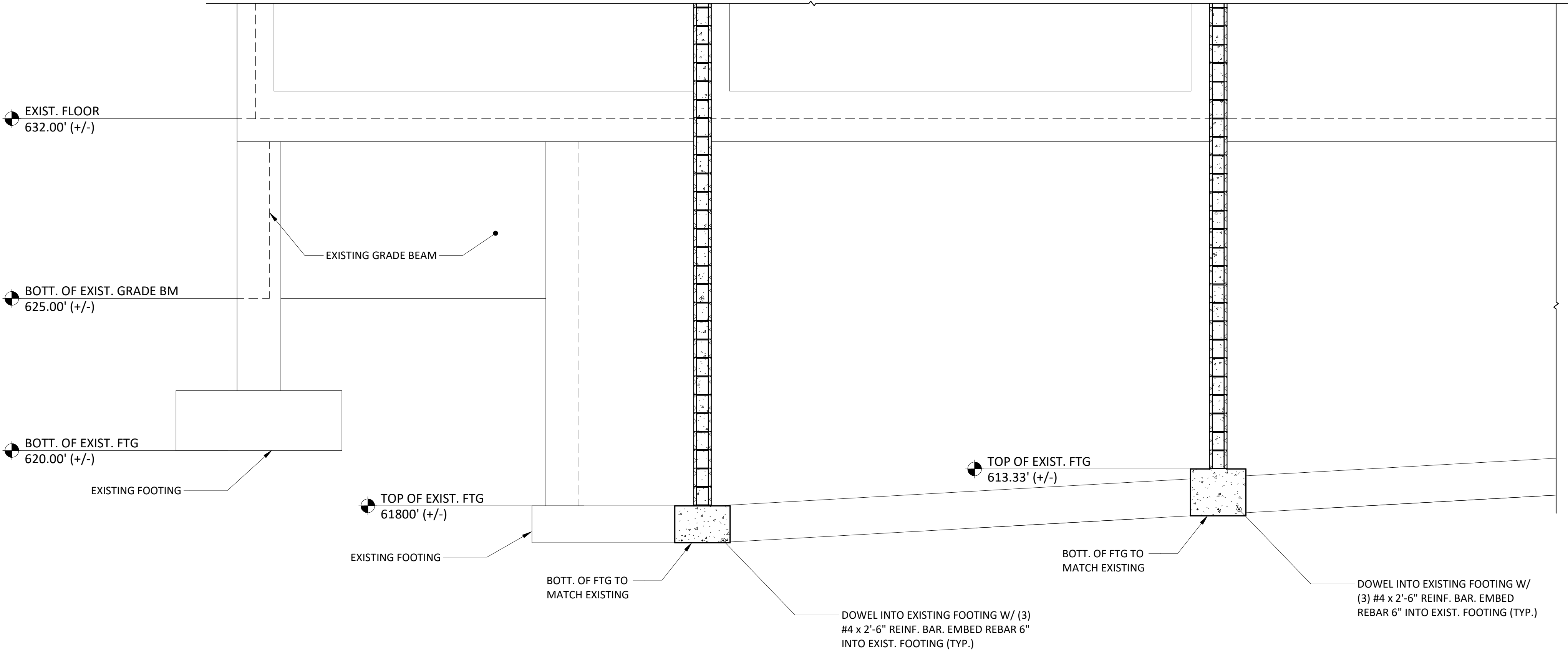
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Sheet Number

S300

Project Number

677.006.001



NOTES:
1. PROVIDE TEMPORARY SHORING OF EXISTING FOUNDATION AND EARTH BELOW EXISTING FOUNDATION AND FLOOR SLAB TO CONSTRUCT THE ADDITION FOUNDATION.

1
S100 **BUILDING SECTION**
SCALE: 3/8" = 1'-0"

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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

STRUCTURAL BUILDING SECTIONS

TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088

B**&****L**

NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.

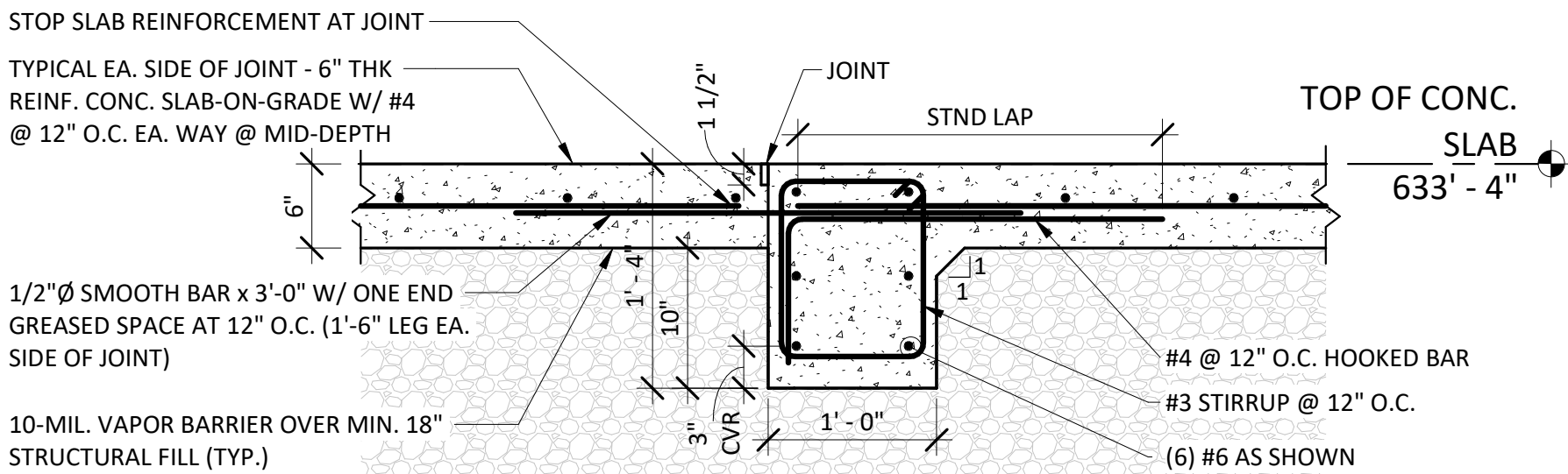
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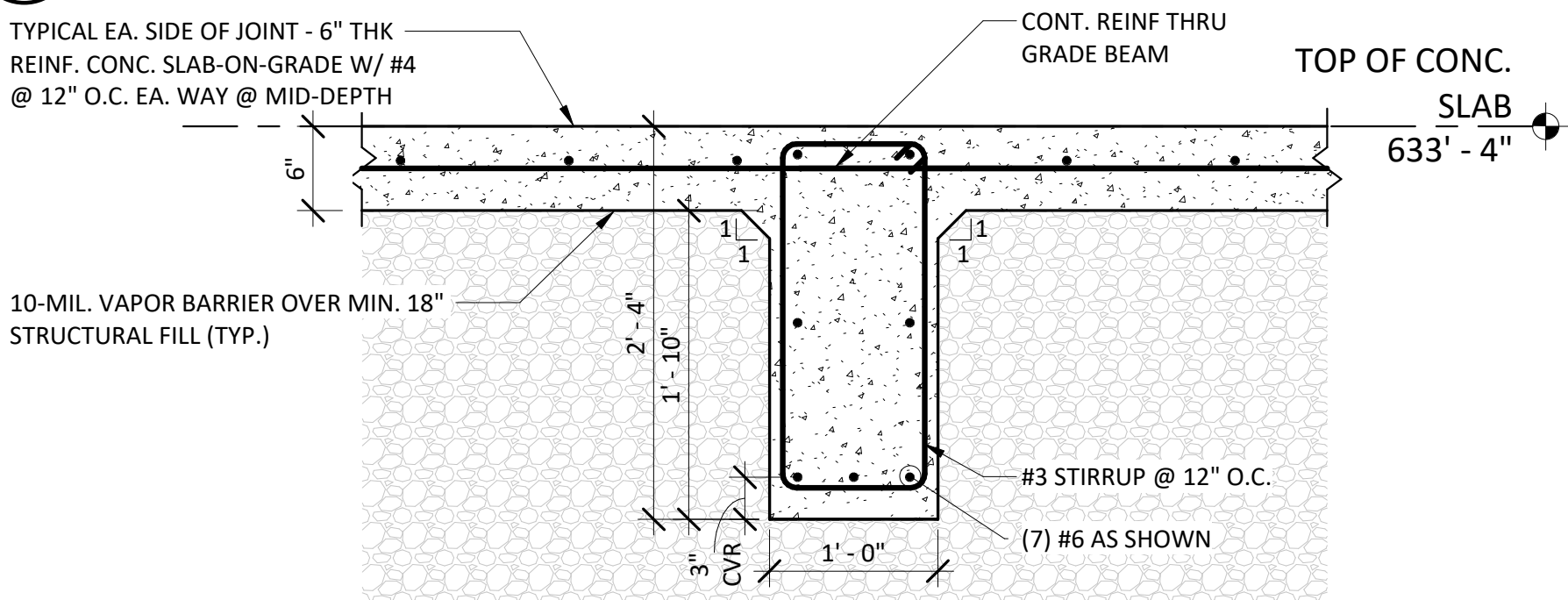
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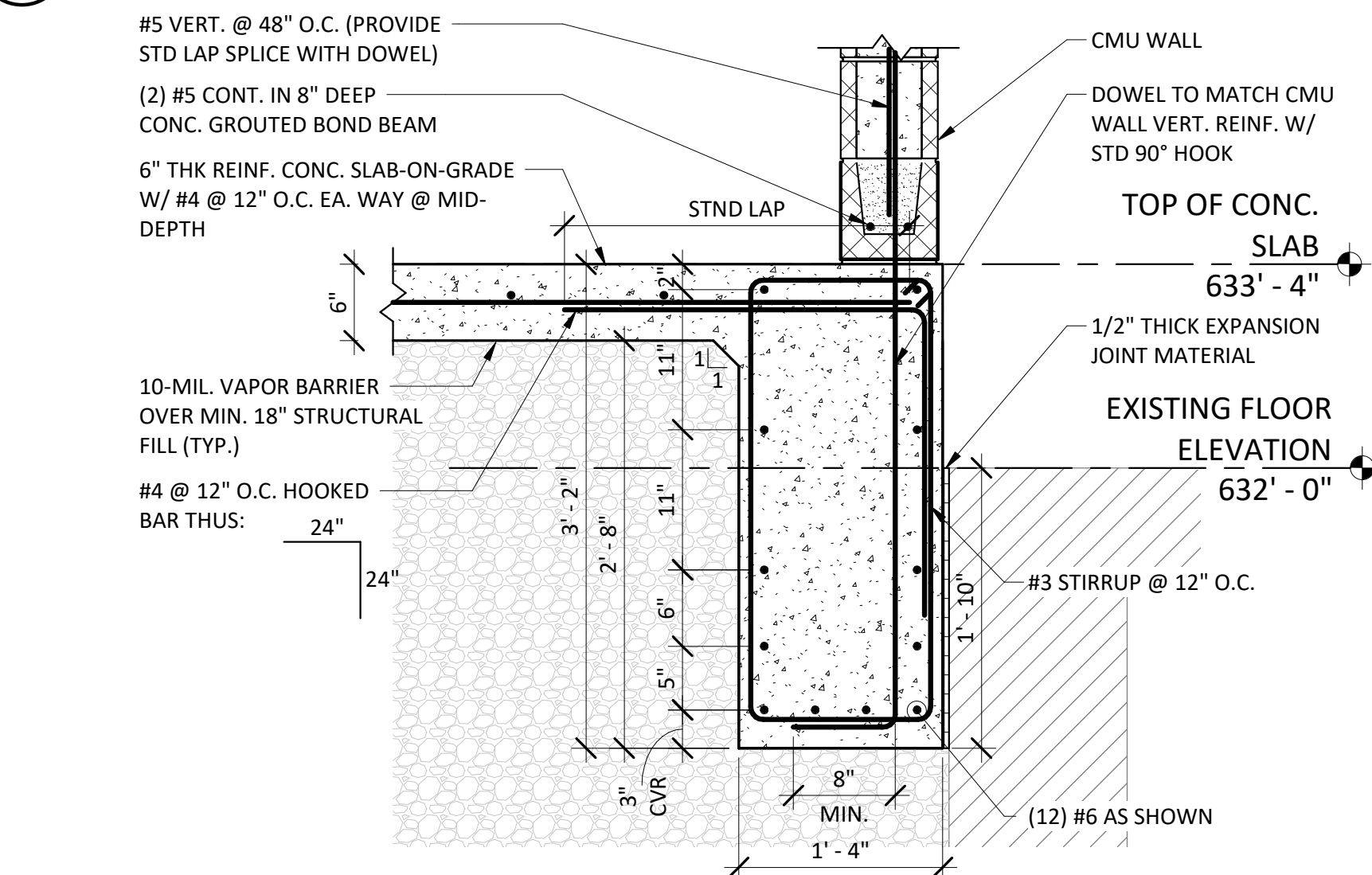
1 GRADE BEAM SECTION @ JOINT (B1)

S100 SCALE: 1" = 1'-0"



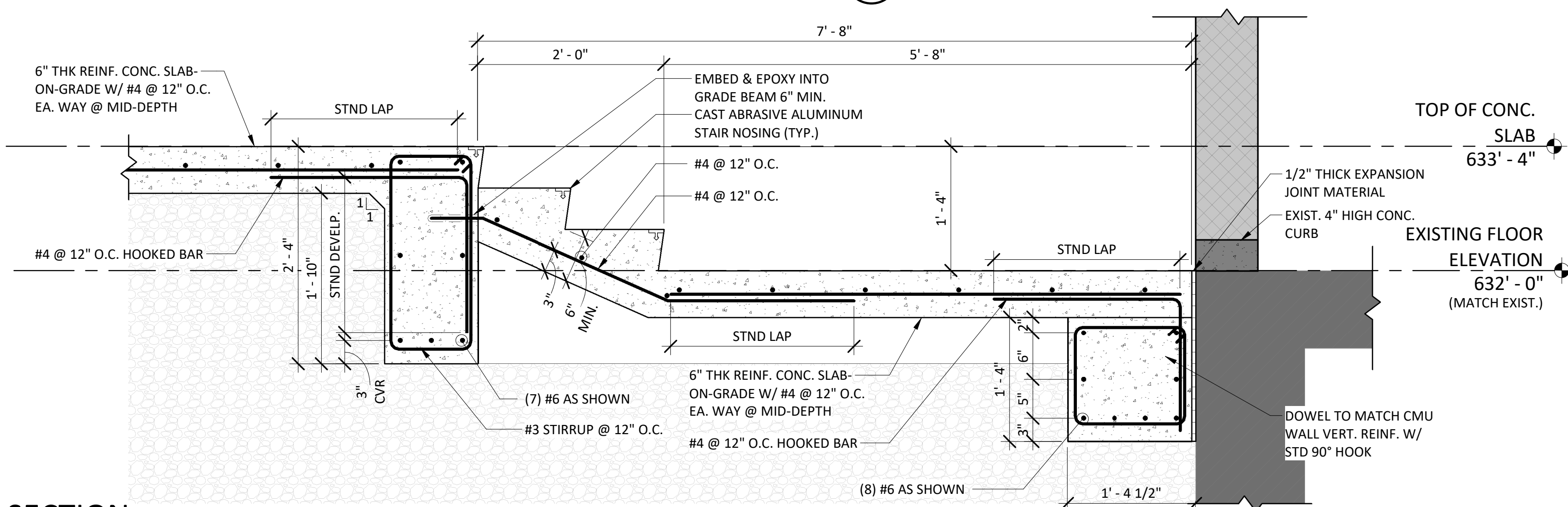
2 GRADE BEAM SECTION @ CENTER OF SLAB (B2)

S100 SCALE: 1" = 1'-0"



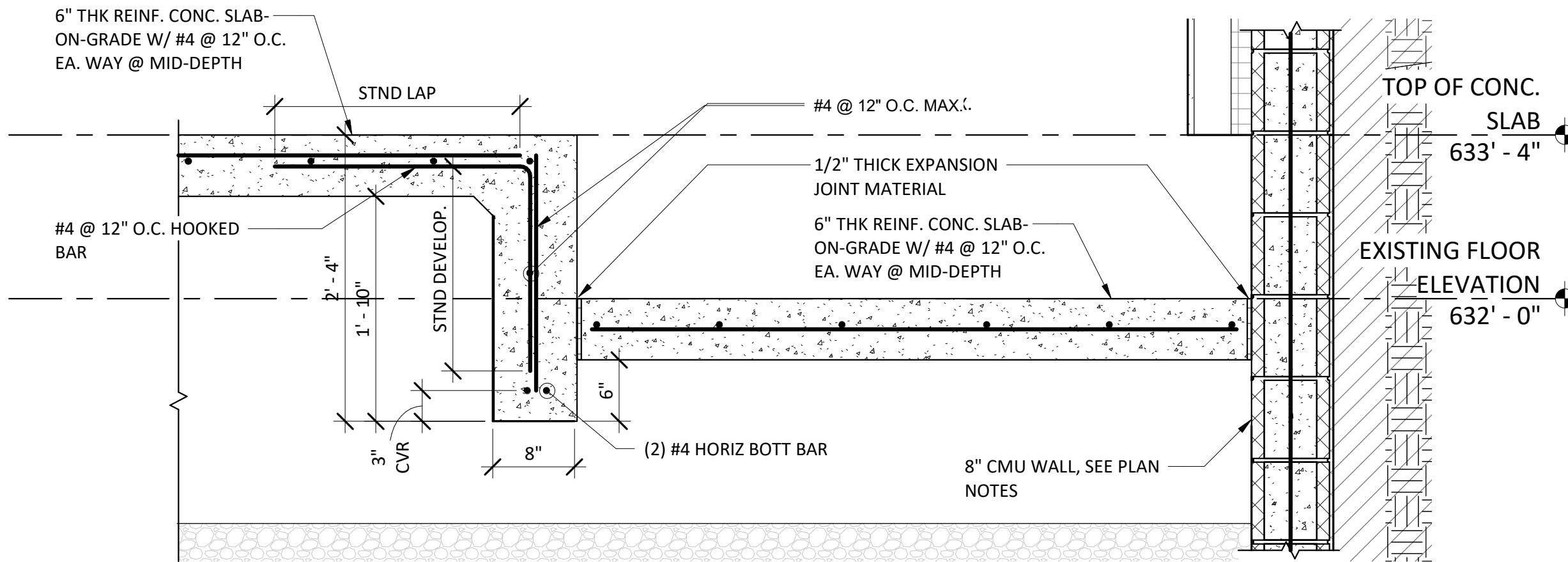
3 GRADE BEAM SECTION UNDER CMU WALL (B3)

S100 SCALE: 1" = 1'-0"



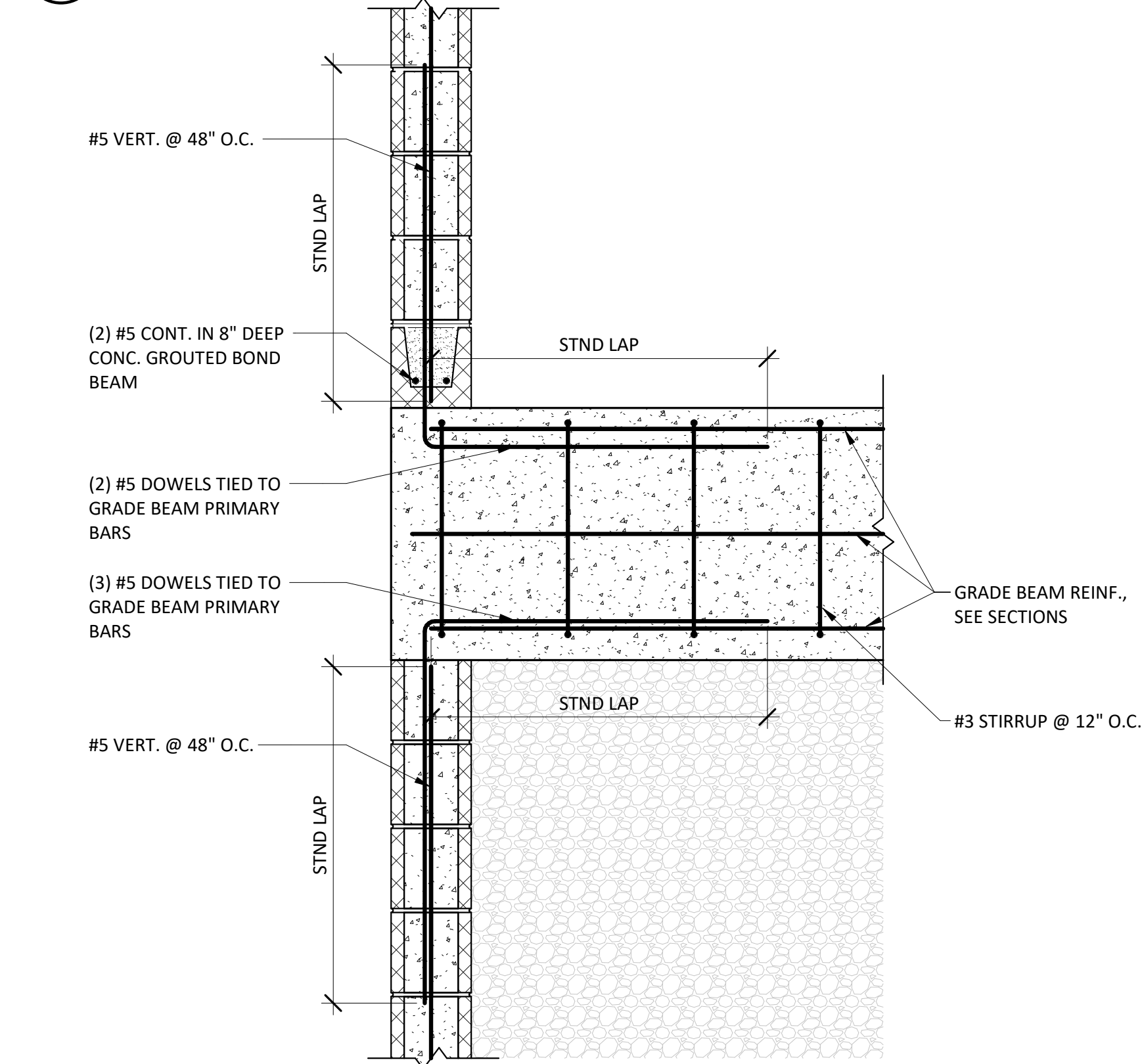
4 STAIR SECTION

S100 SCALE: 1" = 1'-0"



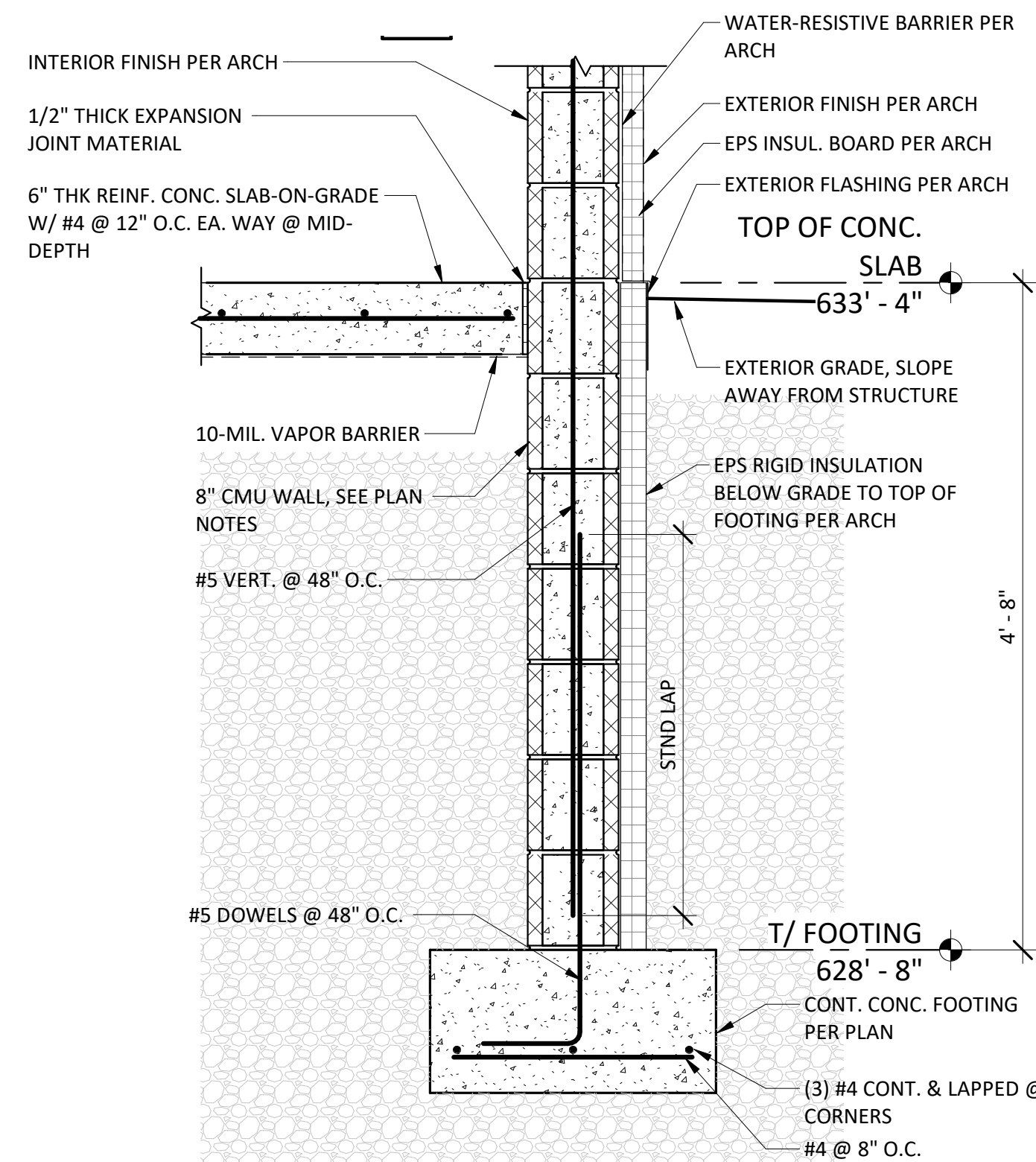
5 STAIR WELL SECTION

S100 SCALE: 1" = 1'-0"



6 TYPICAL GRADE BEAM BEARING SECTION

S100 SCALE: 1" = 1'-0"



7 TYPICAL FNDN WALL SECTION

S100 SCALE: 1" = 1'-0"

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

FOUNDATION SECTIONS

TOMPKINS COUNTY, NEW YORK

TOWN OF LANSING

443 Electronics Parkway
Liverpool, NY
13088
NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.



NYS EXP. 05/31/2026

Date
OCTOBER, 2023

Scale
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Sheet Number

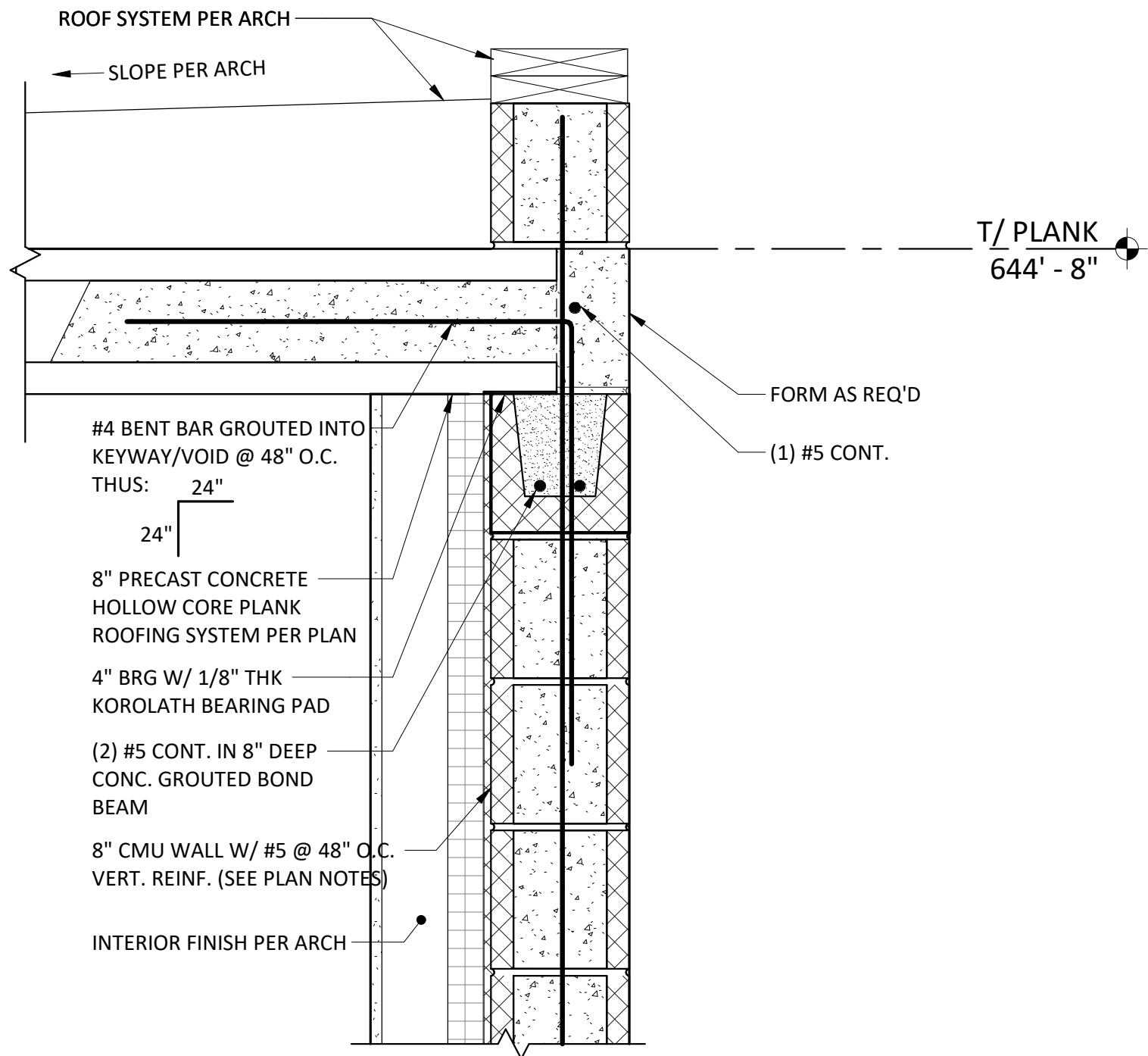
S500

Project Number

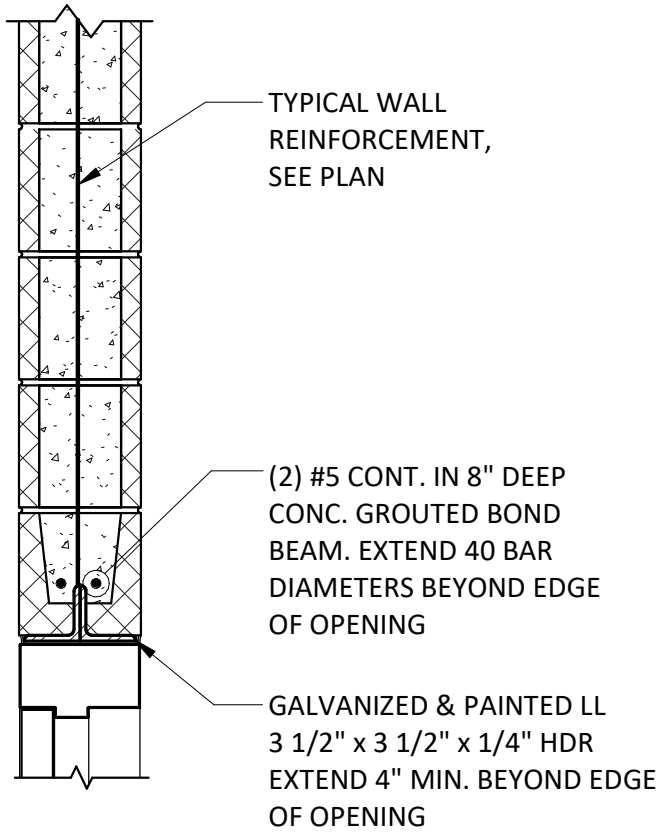
677.006.001

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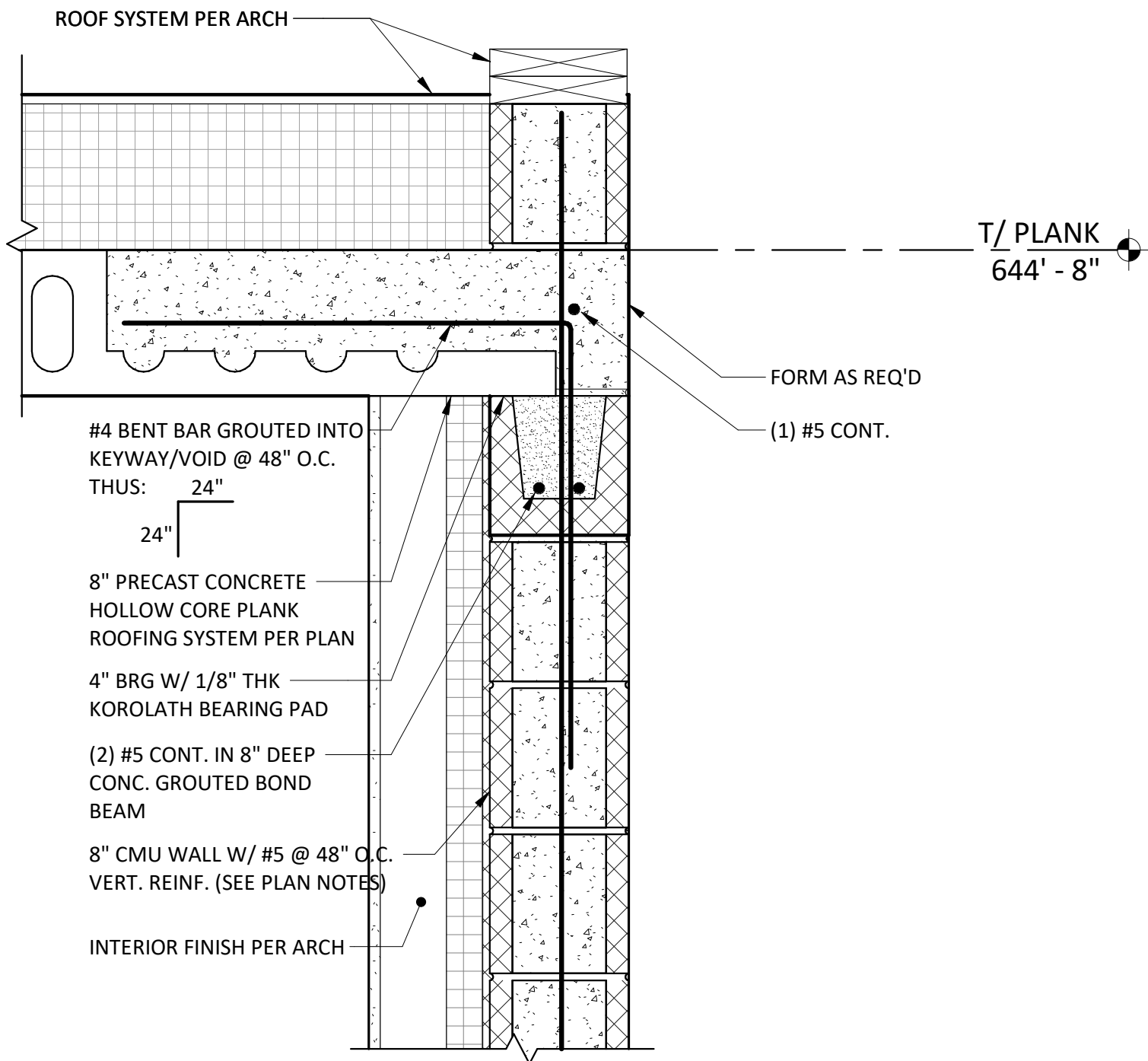
Checked by _____ Drawn by _____ KLN Designed by _____ KLN In Charge of _____ MCF



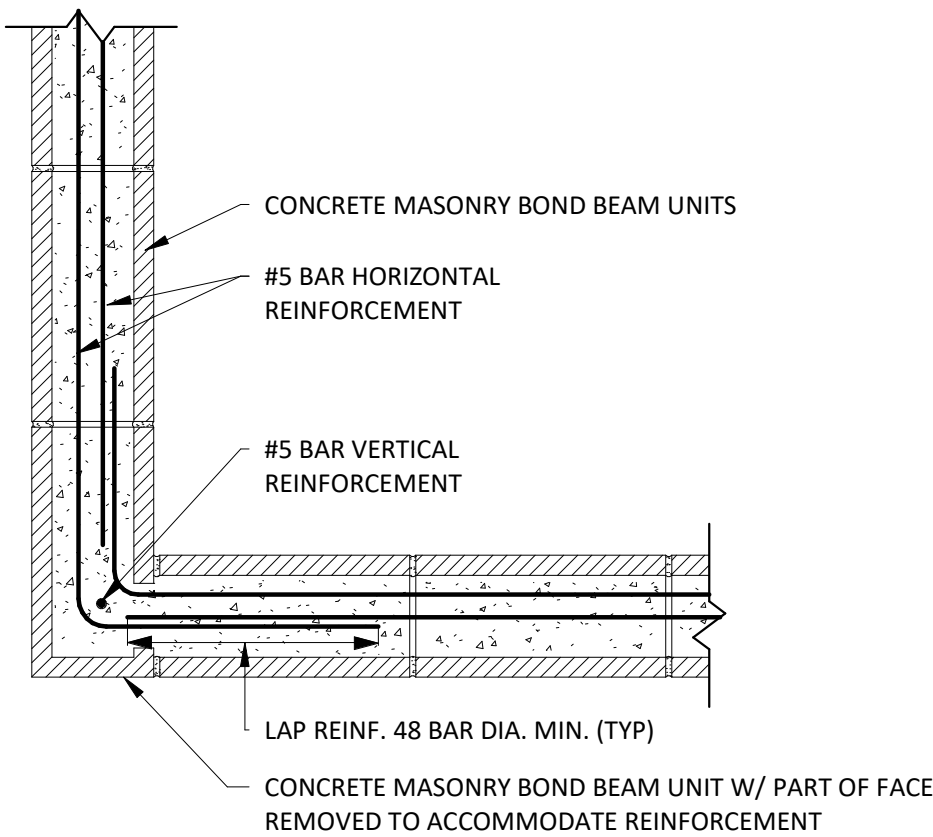
1 8" HOLLOW CORE PLANK AT PERP CMU WALL
SCALE: 1 1/2" = 1'-0"



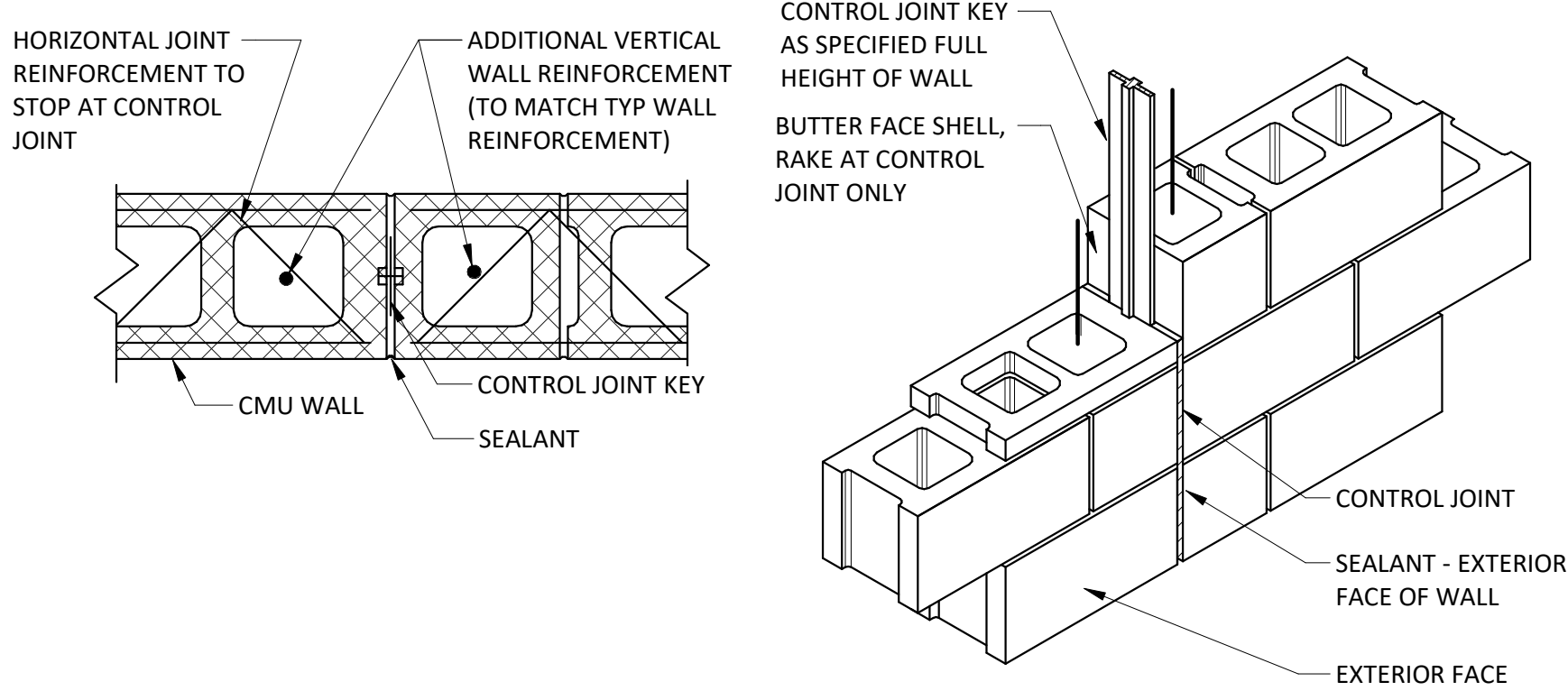
TYP CMU OPENING W/ STEEL LINTEL & BOND BEAM DETAIL
SCALE: 1" = 1'-0"



2 8" HOLLOW CORE PLANK AT PARALLEL CMU WALL
SCALE: 1 1/2" = 1'-0"



TYP. BOND BEAM CORNER REINF.
SCALE: 1" = 1'-0"



TYPICAL VERTICAL CMU CONTROL JOINT
SCALE: NOT TO SCALE

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

ROOF FRAMING SECTIONS AND DETAILS

TOWN OF LANSING

TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088
NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.



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Date
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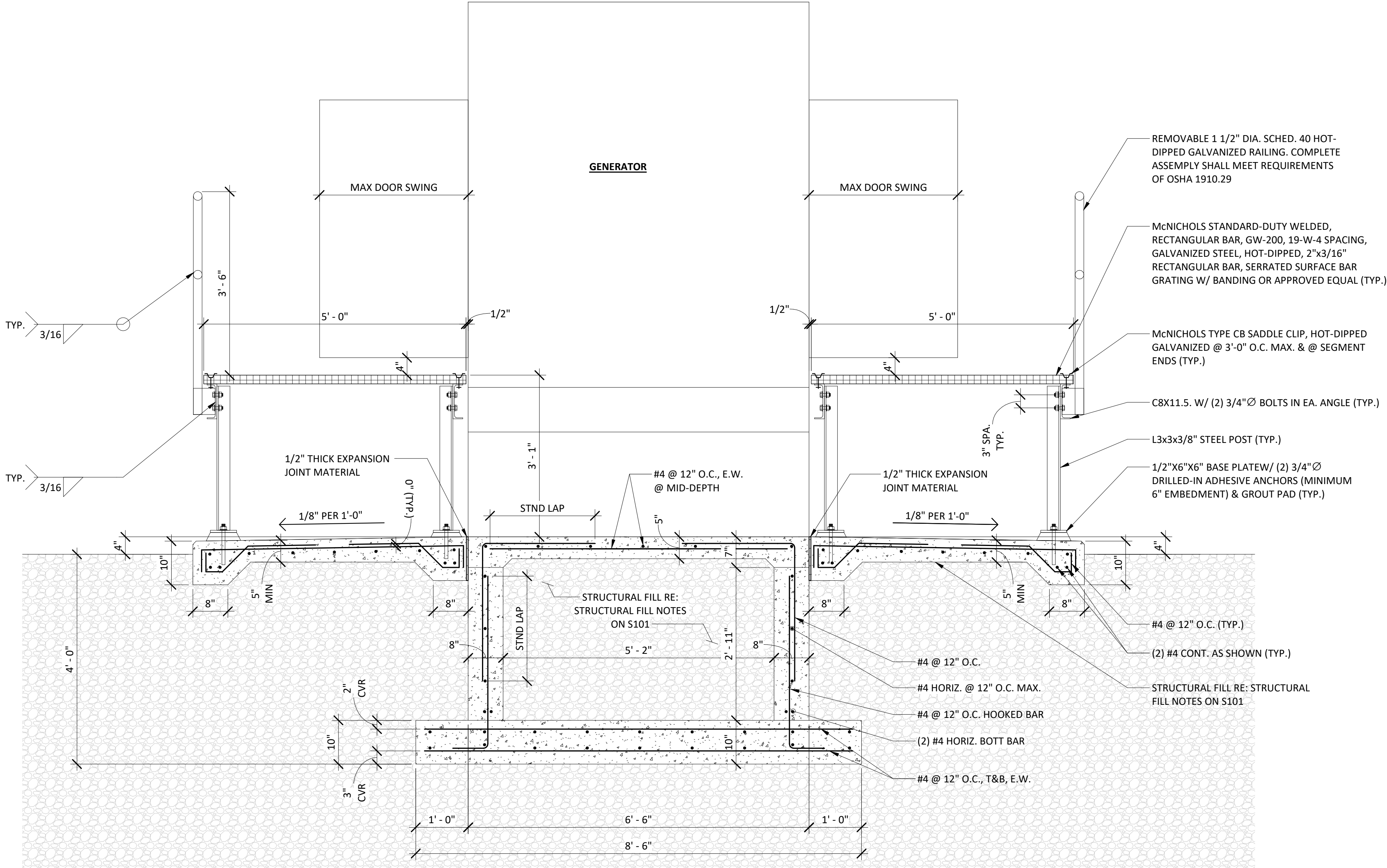
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Sheet Number
S502

Project Number
677.006.001

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4_2023_knowowski.rvt

Checked by _____ Drawn by _____ KLN Designed by _____ KLN In Charge of _____ MCF



1
S101 **GENERATOR SECTION**
SCALE: 3/4" = 1'-0"

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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES
GENERATOR SECTION
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088

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S503

Project Number
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1. SLAB SHALL BE 10" THICK, USING A 28 DAY DESIGN CONCRETE MIX OF 4,000 PSI W/ 6% (+/- 1%) AIR ENTRAINMENT.
2. REINFORCEMENT SHALL COMPLY W/ ASTM A-615, GRADE 60 (DEFORMED).
3. TOP OF PAD SHALL HAVE A SMOOTH TROWELED FINISH.
4. PROVIDE 3/4" CHAMFER @ ALL EXPOSED EDGES (INCLUDING OPENING).
5. TYPICAL SLAB REINFORCING SHALL BE #4 @ 12" O.C. EACH WAY, TOP AND BOTTOM.
6. CONCRETE COVER OVER REINFORCEMENT SHALL BE 2" CLEAR AT TOP AND SIDES OF PAD, 3" CLEAR AT BOT. OF PAD.
7. STRUCTURAL FILL SHALL BE FLOWABLE BACKFILL MATERIAL WITH NON-SWELLING CEMENT / FINE AGGREGATE TYPE MATERIAL AND SHOULD HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) OF 250 POUNDS PER SQUARE INCH (psi).
8. PROVIDE MANUFACTURED, PRE-FABRICATED PLASTIC CHAIR SUPPORT OF SLAB REINFORCEMENT SPACED TO MAINTAIN REINFORCEMENT LOCATION AS SHOWN. REINFORCEMENT SUPPORTS SHALL BE SPACED AS NEEDED TO PREVENT MOVEMENT DUE TO WEIGHT OF CONSTRUCTION MATERIALS, EQUIPMENT AND WORKERS.
9. REINFORCEMENT SUPPORTS SHALL BE AS MANUFACTURED BY DAYTON SUPERIOR, TYPE: AZTEC "CASTLE CHAIR – PCC" AND "STRONGBACK SBU SLAB BOLSTER UPPER – PSBU", OR APPROVED EQUAL.
10. SLOPE SUB-GRADE 0.5% (MIN.) IN EACH DIRECTION FROM A HIGH POINT (H.P.) AT SLAB CENTER TO LOW POINT (L.P.) AT 1'-0" BEYOND SLAB LIMITS.
11. PROVIDE SECONDARY OIL (PASSIVE) CONTAINMENT SYSTEM (SOCs), TYPE: SORBWEB PLUS AS MFGR'D. BY ALBARRIE GEOCOMPOSITES LTD (www.sorbwebplus.com). SOCS SHALL BE A NEEDLE-PUNCHED NON-WOVEN GEOTEXTILE MAT INFUSED WITH OIL IMMOBILIZER TO ALLOW SURFACE/GROUND WATER TO PASS, BUT SHALL SEAL AND BLOCK FLOW UPON CONTACT WITH OIL. SYSTEM SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH SPCC, 40 CFR 112.7(C) SECONDARY CONTAINMENT FOR ELECTRICAL EQUIPMENT AND IEEE P980 GUIDE FOR CONTAINMENT AND CONTROL OF OIL SPILLS IN ELECTRICAL SUBSTATIONS. DOCUMENTATION OF SYSTEM'S COMPLIANCE WITH THE CITED SPCC AND IEEE REQUIREMENTS SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE BY THE ENGINEER PRIOR TO SYSTEM PURCHASE AND INSTALLATION.
12. ANCHORAGE OF EQUIPMENT TO SLAB BY EQUIPMENT MFGR. (TYP.).

TRANSFORMER PAD

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

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EDUCATION LAW, ARTICLE 15 §7202(b)
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UNLESS THEY ARE ACTING UNDER THE
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ENGINEER, ARCHITECT, LANDSCAPE
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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

TRANSFORMER PAD DETAILING

TOWN OF LANSING

B&L
443 Electronics Parkway
Liverpool, NY
13088
NYS CERT. OF AUTH. : 0018246

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S504

Project Number
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- GENERAL NOTES:**
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS INTENDED THAT ALL COMPONENTS AND MATERIALS REQUIRED TO MAKE THE SYSTEMS COMPLETE, TESTED AND OPERATIONAL BE INSTALLED.
 - CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS BEFORE DEMOLITION AND CONSTRUCTION.
 - ALL MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
 - COMPLETELY COORDINATE WORK OF THIS TRADE WITH WORK OF OTHER TRADES AND OWNERS WORK.
 - WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES.
 - MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
 - DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. ALL SUPPORT SHALL COME FROM BUILDING STRUCTURE. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
 - PROVIDE PROPER ACCESS TO MATERIALS AND EQUIPMENT THAT REQUIRE INSPECTION, REPLACEMENT, REPAIR OR SERVICE SUCH AS COILS, DAMPERS, HEATERS, VALVES, ETC. IF PROPER ACCESS CANNOT BE PROVIDED, CONFER WITH THE ENGINEER AS TO THE BEST METHOD OF APPROACH TO MINIMIZE THE EFFECT OF THE REDUCED ACCESS WHICH MAY RESULT.
 - NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS FOR THIS TRADE.
 - ALL WORK SHOWN IS TO BE COMPLETED BY THIS TRADE UNLESS SPECIFICALLY INDICATED OTHERWISE.
 - CONTRACTOR IS RESPONSIBLE FOR ALL OWNER COORDINATION AND PROCEDURES RELATED TO SHUTTING DOWN AND RESTARTING SYSTEMS, INCLUDING THOSE REQUIRED FOR RELOCATIONS, TO ALLOW FOR COMPLETION OF ALL DEMOLITION AND NEW WORK. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH OTHER TRADES.

- ABBREVIATIONS:**
- ∠ - ANGLE
 - AAD - AUTOMATIC AIR DAMPER
 - ACT - ACOUSTICAL CEILING TILE
 - AFG - ABOVE FINISHED GRADE
 - ALUM - ALUMINUM
 - BLDG - BUILDING
 - BSMT - BASEMENT
 - BOT - BOTTOM
 - BUR - BUILT UP ROOF
 - CB - CATCH BASIN
 - C/C - CENTER TO CENTER
 - CFM - CUBIC FEET PER MINUTE
 - CJ - CONTROL JOINT
 - CL - CENTER LINE
 - CLG - CEILING
 - CLR - CLEAR
 - COL - COLUMN
 - CONC - CONCRETE
 - CONST - CONSTRUCTION
 - CONT - CONTINUOUS
 - CPT - CARPET
 - CT - CERAMIC TILE
 - DEMO - DEMOLISH, DEMOLITION
 - DN - DOWN
 - DS - DOWNSPOUT
 - DTL - DETAIL
 - DWG - DRAWING
 - E.F. - EACH FACE
 - E.W. - EACH WAY
 - EA - EACH
 - EC - ELECTRICAL CONTRACTOR
 - ELEC - ELECTRICAL
 - ELEV - ELEVATION
 - EMBED - EMBEDMENT
 - EPS - EXPANDED POLYSTYRENE
 - EQUIP - EQUIPMENT
 - E.S.P. - EXTERNAL STATIC PRESSURE
 - EW - EACH WAY
 - EXP - EXPOSED
 - EXT - EXTERIOR
 - EX, EXIST - EXISTING
 - FIN FLR - FINISHED FLOOR
 - FLA - FULL LOAD AMPS
 - FND - FOUNDATION
 - FPM - FEET PER MINUTE
 - FTG - FOOTING
 - GA - GAUGE
 - GALV - GALVANIZED
 - GC - GENERAL CONTRACTOR
 - HBD - HARDBOARD
 - HC - HANDICAP

- ABBREVIATIONS (CONT.):**
- HM - HOLLOW METAL
 - HP - HORSE POWER
 - HZ - HERTZ
 - INSUL - INSULATION
 - IGU - INSULATED GLASS UNIT
 - INV - INVERT
 - JT - JOINT
 - LAM - LAMINATE
 - MANUF - MANUFACTURER
 - MAS - MASONRY
 - MAX - MAXIMUM
 - MC - MECHANICAL CONTRACTOR
 - MIN - MINIMUM
 - MR - MOISTURE RESISTANT
 - MTL - METAL
 - MO - MASONRY OPENING
 - NAT - NATURAL
 - NIC - NOT IN CONTRACT
 - NTS - NOT TO SCALE
 - O/C - ON CENTER
 - OD - OUTSIDE DIAMETER
 - PL - PLATE
 - PERF - PERFORATED
 - PLAS - PLASTIC
 - PLYWD - PLYWOOD
 - PNT - PAINT
 - PT - PRESSURE TREATED
 - PVMT - PAVEMENT
 - QT - QUARRY TILE
 - R - RISER
 - RD - ROOF DRAIN
 - RAD - RADIUS
 - REQ'D - REQUIRED
 - RO - ROUGH OPENING
 - SC - SOLID CORE
 - SAN - SANITARY
 - SHT - SHEET
 - SIM - SIMILAR
 - SQ - SQUARE
 - S.S. - STAINLESS STEEL
 - STL - STEEL
 - SUS - SUSPENDED
 - SV - SHEET VINYL
 - T - TREAD
 - T/- - TOP OF
 - T&B - TOP AND BOTTOM
 - TEMP - TEMPERED
 - TYP - TYPICAL
 - VCT - VINYL COMPOSITION TILE
 - VIF - VERIFY IN FIELD
 - W.G. - WATER GAUGE

- LEGEND**
- SLOPE DN IN DIRECTION OF ARROW
 - BREAK
 - PIPING/EQUIPMENT TO BE REMOVED
 - LIMIT OF REMOVAL
 - CONNECTION POINT TO EXISTING
 - TEE RISE
 - TEE DROP
 - PIPE RISE
 - PIPE DROP
 - DIRECTION OF FLOW
 - CAP
 - UNION
 - CONCENTRIC REDUCER
 - FLANGED CONNECTION
 - FLEXIBLE CONNECTION
 - BUTTERFLY VALVE
 - PRESSURE GAUGE
 - THERMOMETER
 - MANUAL AIR VENT
 - AUTOMATIC AIR VENT
 - STRAINER
 - SWING CHECK VALVE
 - BALL VALVE
 - GATE VALVE
 - GLOBE VALVE
 - TRIPLE DUTY VALVE
 - BALANCE VALVE
 - BALL VALVE W/ HOSE CONNECTION, CAP AND CHAIN
 - PRESSURE REDUCING VALVE
 - SAFETY RELIEF VALVE
 - TEMPERATURE SENSOR
 - PUMP
 - CONTROL VALVE, 3-WAY, MODULATING

- LEGEND (CONT.):**
- VOLUME DAMPER
 - FIRE DAMPER
 - SUPPLY DUCT SECTION UP
 - SUPPLY DUCT SECTION DOWN
 - RET/EXH DUT SECTION UP
 - RET/EXH DUT SECTION DOWN
 - 45° BRANCH DUCT CONNECTION
 - NEW SUPPLY DIFFUSER, REGISTER OR GRILLE (WITH CFM)
 - NEW RETURN/EXHAUST REGISTER OR GRILLE (WITH CFM)
 - THERMOSTAT (ARROW INDICATES DEVICE)

PACKAGED TERMINAL AIR CONDITIONING UNIT (PTAC) SCHEDULE											
TAG	AREA SERVED	TOTAL AIRFLOW (CFM)	MIN. OA (CFM)	INDOOR FAN		OUTDOOR FAN		ELECTRIC HEATING (KW)	TOTAL COOLING (BTU/h)	VOLTAGE	DESIGN EQUIPMENT
				FAN DRIVE	FAN TYPE/ # SPEEDS	FAN DRIVE	FAN TYPE/ # SPEEDS				
PTAC-1	101	370	65	DIRECT	2	DIRECT	-	5	14500	208	AMANA HEC153H50WXXX

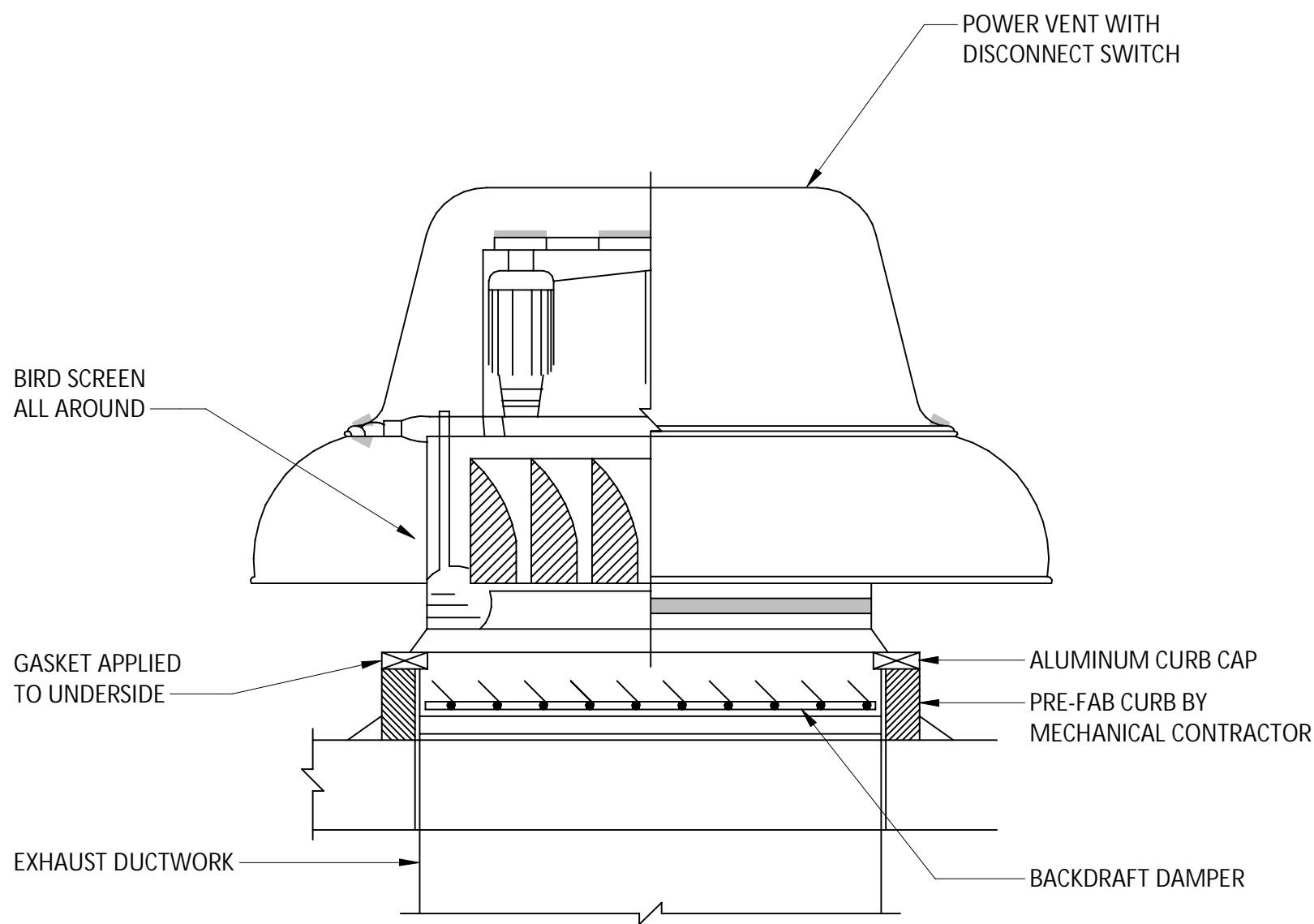
- NOTES:
- PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT, FACTORY WALL SLEEVE, EXTERNAL DRAIN KIT AND ARCHITECTURAL LOUVER AND FRAME.
 - PROVIDE WITH HARD WIRED CONVERSION KIT.

EXHAUST FAN SCHEDULE											
TAG	AREA SERVED	LOCATION	CFM	E.S.P. (IN W.G.)	DRIVE	RPM	MOTOR			DESIGN EQUIPMENT	NOTES
							HP	VOLTS	PHASE		
EF-4	EX. PUMP ROOM	ROOF	7970	.375	BELT	551	1-1/2	460	3	GREENHECK LB-30	1,2,3,4
EF-5	EX. PUMP ROOM	ROOF	7970	.375	BELT	551	1-1/2	460	3	GREENHECK LB-30	1,2,3,4
EF-6	ELECTRICAL ROOM ADDITION	WALL	550	.1	DIRECT	529	1/4	115	1	GREENHECK AER-20-03-0615-VG	1,2,3,5

- NOTES:
- PROVIDE BACKDRAFT DAMPER, ALUMINUM BIRD SCREEN.
 - FAN SHALL BE UL LISTED AND AMCA CERTIFIED.
 - PROVIDE MOTOR STARTER AND PREWIRED DISCONNECT.
 - INTERLOCK FANS WITH EXISTING WALL SWITCHES AND EXISTING LOUVER.
 - PROVIDE WALL ON/OFF SWITCH AND INTERLOCK WITH IL-1.

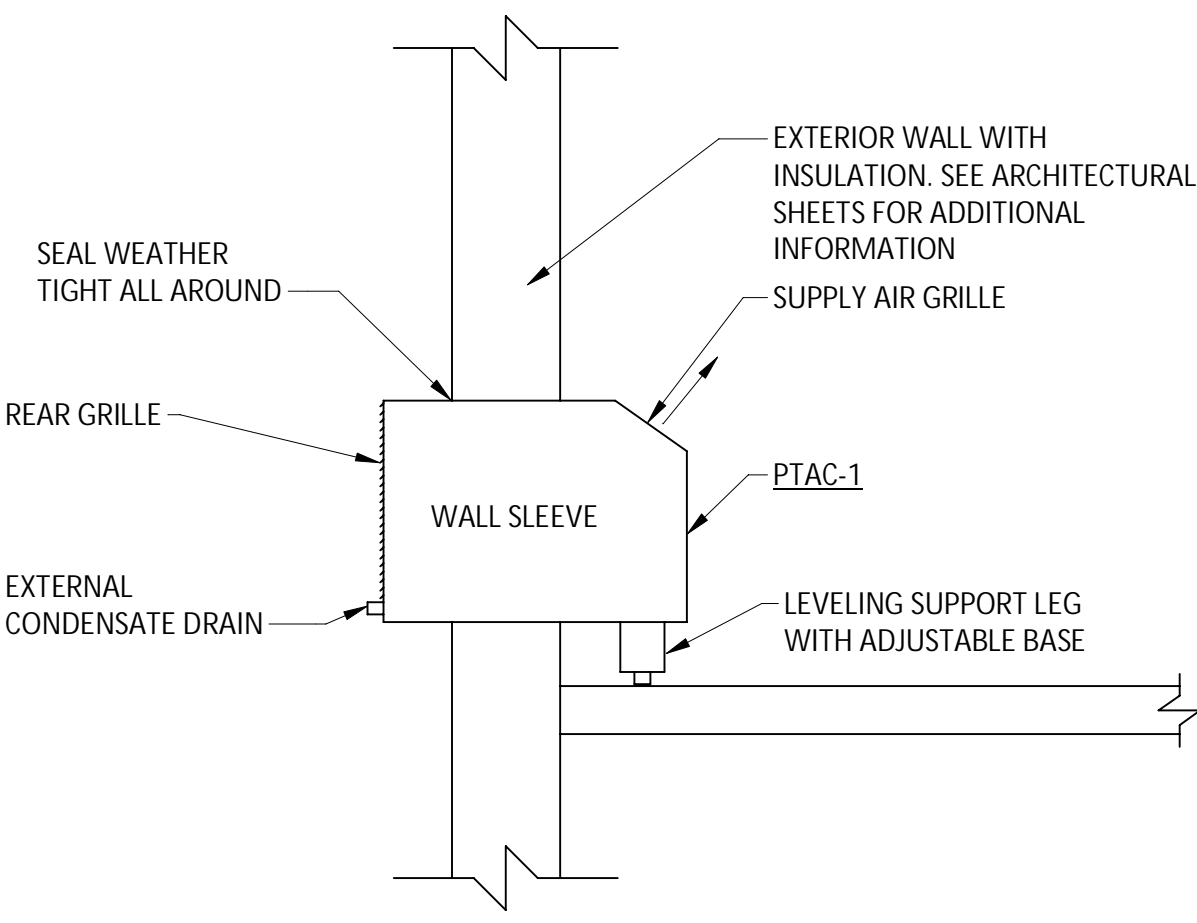
INTAKE LOUVER (IL) SCHEDULE									
TAG	LOCATION	DESCRIPTION	CFM	NOMINAL SIZE		FREE AREA (FT²)	FREE AREA VELOCITY (FPM)	ASSOCIATED EQUIPMENT	BASIS OF DESIGN
				H	W				
IL-1	ELECTRICAL ROOM ADDITION	6-INCH ALUMINUM DRAINABLE	550	18"	24"	1.3	437	<u>EF-1</u>	GREENHECK EAD-635

- NOTES:
- PROVIDE 1/2" ALUMINUM BIRD SCREEN.
 - UNIT SHALL BE OF CHANNEL FRAME CONSTRUCTION. COORDINATE MOUNTING WITH WALL TYPE.
 - UNIT SHALL BE AMCA CERTIFIED.
 - PROVIDE PHENOLIC EPOXY POWDER COATING (KYNAR) ON ENTIRE ASSEMBLY. COLOR BY OWNER.
 - COORDINATE SIZE WITH APPROVED LOUVER ASSEMBLY PRIOR TO CONSTRUCTION.
 - FURNISH AND INSTALL TWO-POSITION MOTORIZED DAMPER AND 120V ACTUATOR (BELIMO AF120, OR EQUAL), AND INTERLOCK WITH ASSOCIATED EQUIPMENT.



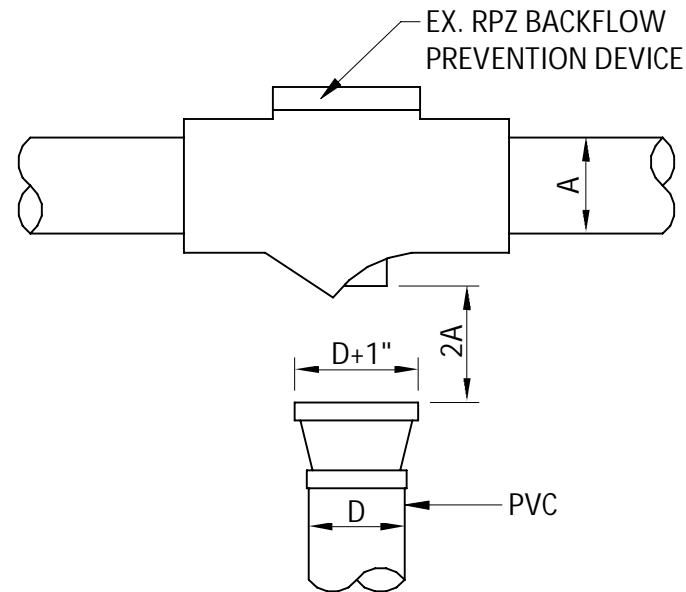
EXHAUST FAN DETAIL

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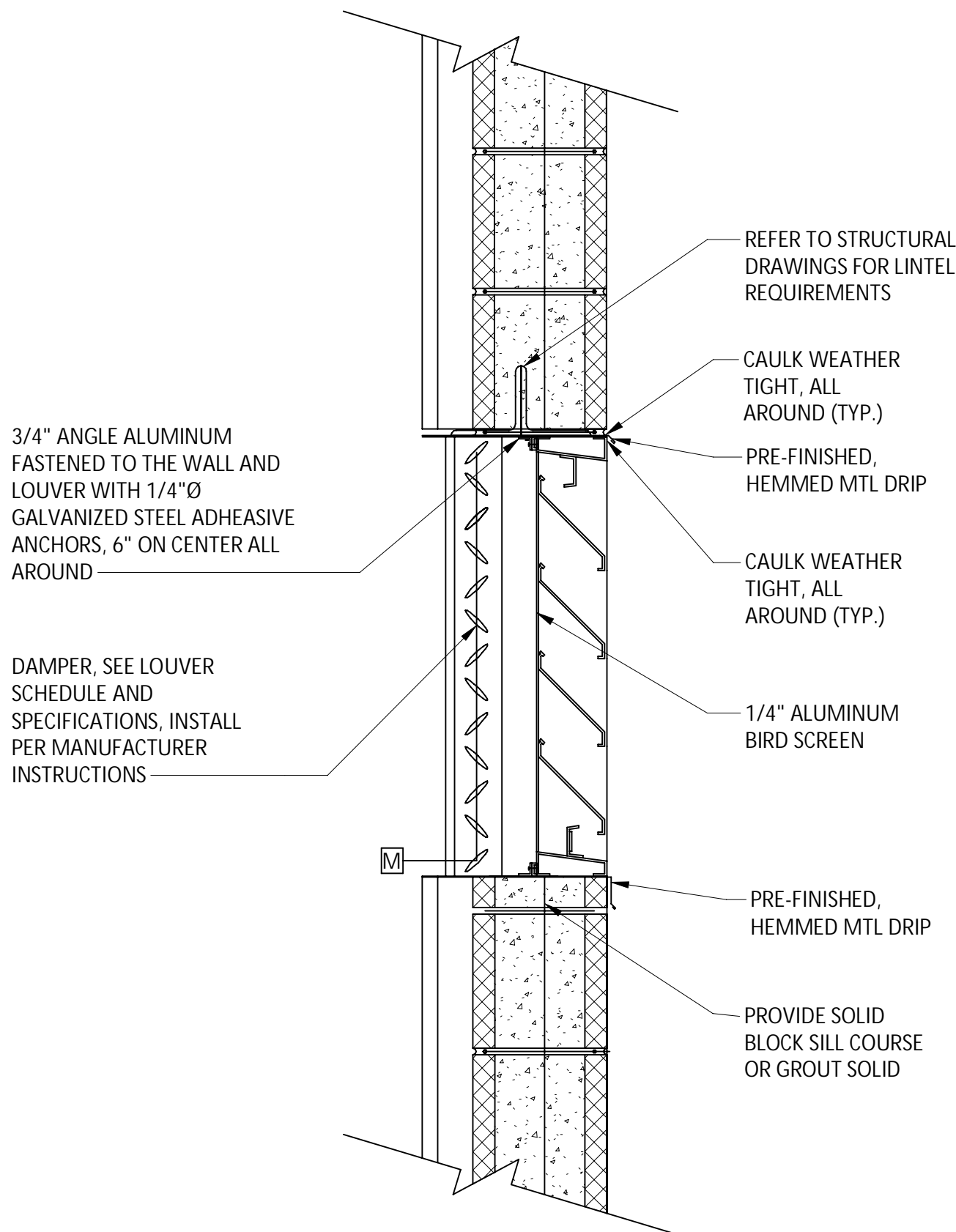
PTAC INSTALLATION DETAIL

NOT TO SCALE



RPZ DISCHARGE DRAINAGE DETAIL

NOT TO SCALE



- NOTES:
- COORDINATE WALL OPENING LOCATIONS AND SIZES WITH ARCHITECTURAL DRAWINGS AND GC.
 - PROTECT METAL SURFACES FROM DIRECT CONTACT WITH CONCRETE OR MASONRY CONSTRUCTION WITH A COAT OF BITUMINOUS PAINT.

INTAKE LOUVER WITH MOD DETAIL

NOT TO SCALE

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

SYMBOLS AND ABBREVIATIONS

TOWN OF LANSING

TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY 13088

NYS CERT. OF AUTH.: 0018246

Barton & Loguidice, D.P.C.

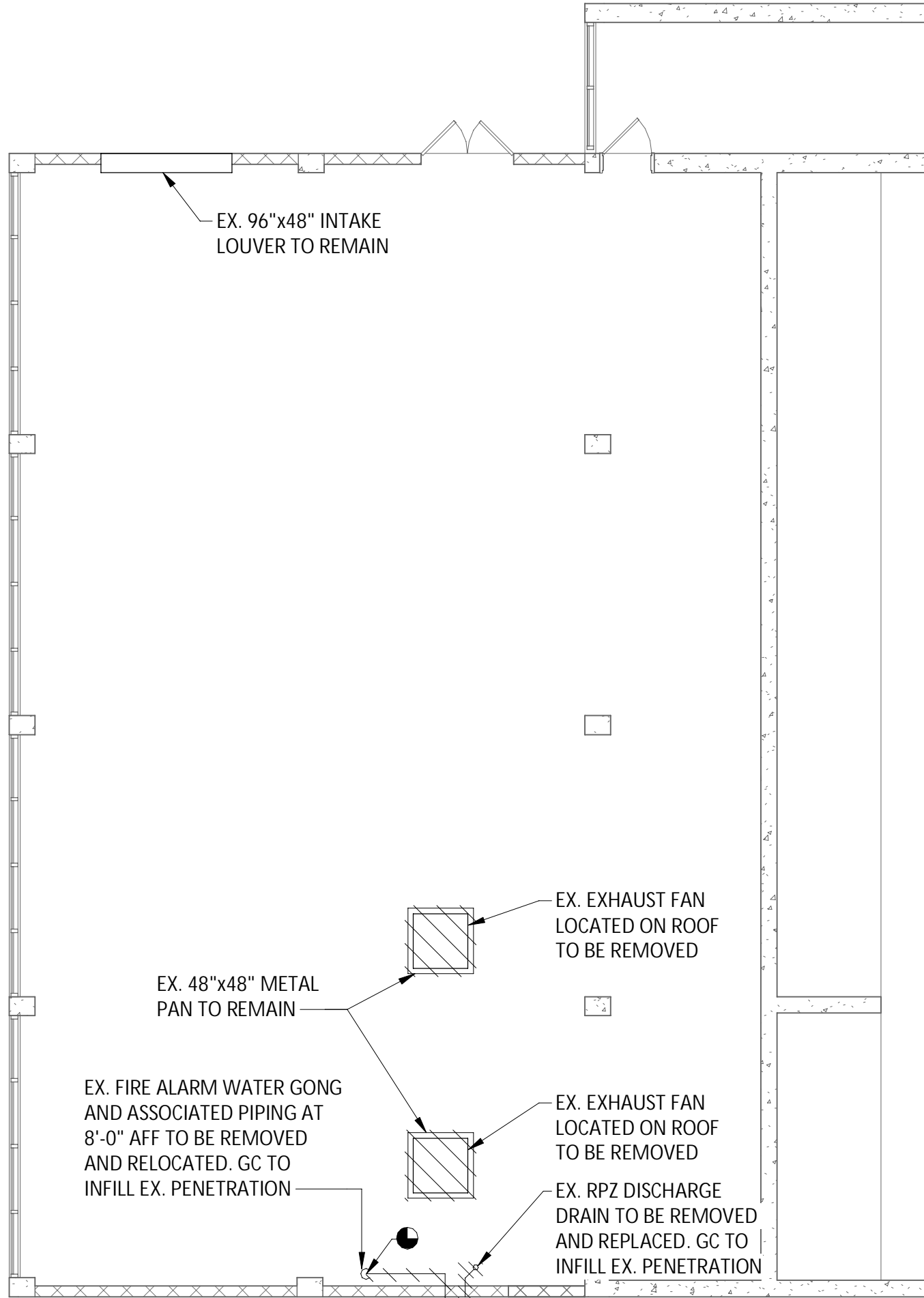
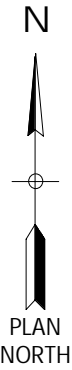


Date
OCTOBER, 2023

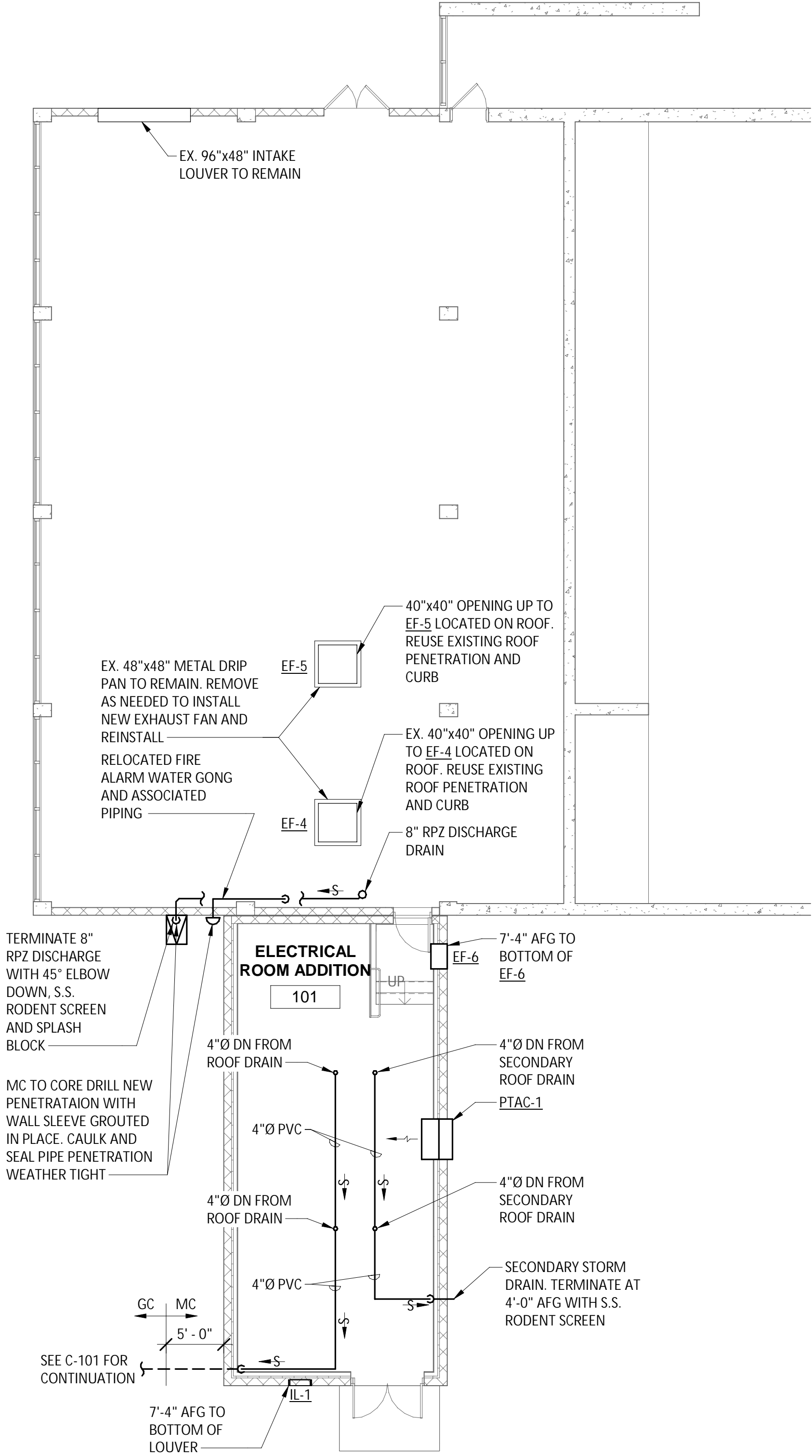
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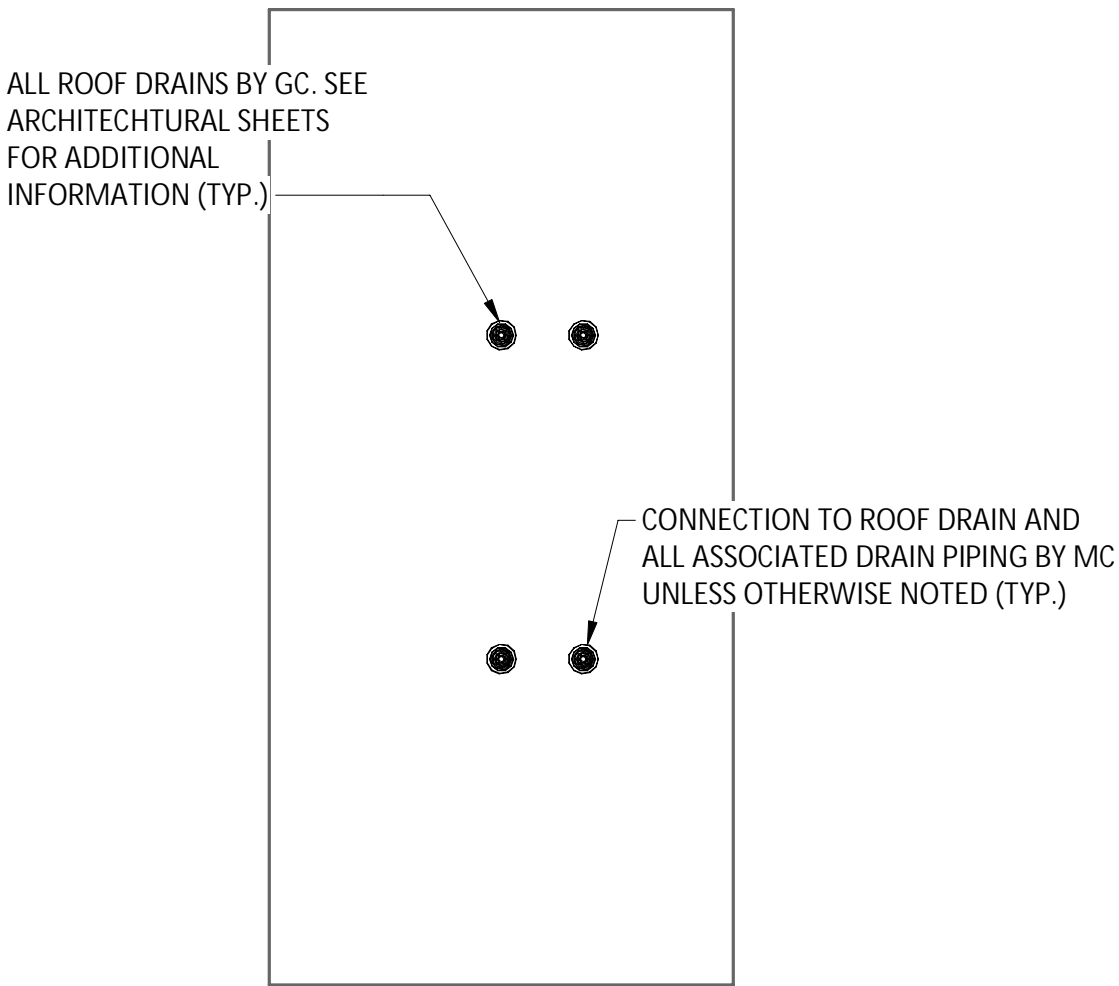
Project Number
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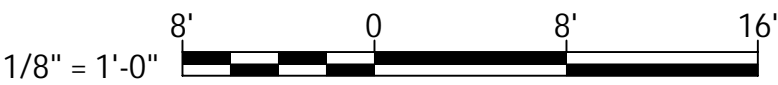
MECHANICAL HVAC DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

FIRST FLOOR HVAC PLAN

TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088

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GENERAL NOTES

CONTRACT DELINEATION

- CONTRACT 1A – GENERAL CONSTRUCTION
- CONTRACT 1B – MECHANICAL CONSTRUCTION
- CONTRACT 1C – ELECTRICAL CONSTRUCTION

SYMBOLS AND ABBREVIATIONS

- 1. THIS SHEET CONTAINS SYMBOLS AND ABBREVIATIONS TYPICALLY SHOWN ON ELECTRICAL DRAWINGS AND SCHEMATICS. THIS CONTRACT DRAWING SET MAY NOT CONTAIN ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET.

EXISTING DISTRIBUTION VOLTAGE AND PHASING

- 1. EXISTING VOLTAGE AND PHASING IS BASED ON CURSORY FIELD OBSERVATIONS AND EXISTING CONSTRUCTION DRAWINGS. THEY HAVE NOT BEEN MEASURED OR OTHERWISE CONFIRMED.
- 2. CONTRACTOR SHALL CONFIRM ALL VOLTAGES AND PHASING ON SITE TO ENSURE THEY MATCH THIS CONSTRUCTION DRAWING SET. THIS SHALL OCCUR PRIOR TO SUBMITTALS.

PERMITS AND INSPECTIONS

- 1. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NEC, AND STATE AND LOCAL GOVERNING REGULATIONS.

SCOPE

- 1. UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
- 2. ALL DISCONNECTS REQUIRED BY CODE MAY NOT BE SHOWN. CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS AND OVERCURRENT PROTECTIVE DEVICES.
- 3. ALL EQUIPMENT AND MATERIAL SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
- 4. PROVIDE ELECTRICAL POWER WIRING TO ALL MECHANICAL EQUIPMENT.

COORDINATION OF WORK

- 1. THE CONTRACTOR SHALL COORDINATE AND VERIFY THAT WORKING AND DEDICATED EQUIPMENT SPACE REQUIREMENTS ARE MET PER NEC AND AHJ.
- 2. FIELD LOCATE ALL CORE DRILL LOCATIONS.
- 3. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
- 4. BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO ENSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
- 5. COORDINATION OF POSSIBLE SYSTEM SHUT-DOWNS AND WORK AREAS NEED TO BE COORDINATED WITH THE OWNER.
- 6. VERIFY RECEPTACLE, SWITCH, & COVER PLATE COLORS WITH OWNER.
- 7. TURN OVER TO THE OWNER ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.

DEFINITIONS

- 1. THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE EDITION OF THE NATIONAL ELECTRIC CODE (NEC) AS REFERENCED IN THE BUILDING CODE OF NEW YORK STATE.
- 2. THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
- 3. THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".
- 4. THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".

PLANS

- 1. ELECTRICAL PLANS, DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
- 2. ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCES AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST; THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.

METHODS

- 1. ALL EXTERIOR CONDUITS TO HAVE DUCT SEAL INSTALLED AT ALL ENDS, BOXES, WEATHERHEADS, PENETRATIONS TO INTERIOR SPACES, ETC.
- 2. DUCT BANKS SHALL NOT BE ROUTED DIRECTLY ABOVE OR BELOW EXISTING/PROPOSED UTILITIES EXCEPT WHEN CROSSING. WHERE CROSSING EXISTING OR PROPOSED UTILITIES DUCT BANKS SHALL CROSS AT 90 DEGREE ANGLES.
- 3. ALL CONDUIT SYSTEMS EXPOSED TO TEMPERATURE DIFFERENTIALS, IN POTENTIAL CONDENSING ATMOSPHERES, EXTERIOR INSTALLED, OR INSTALLED UNDERGROUND SHALL HAVE PROVISIONS FOR DRAINING WATER OUT OF CONDUIT SYSTEMS. PROVIDE DRAIN IN CONDUIT SYSTEMS AT LOW POINTS, LOW POINT SHALL NOT BE AT EQUIPMENT OR DEVICE. A BREATHER SHALL BE PROVIDED AT THE HIGH POINT OF THE SYSTEM.

UNDERGROUND UTILITIES

- 1. UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA ARE SHOWN ON THESE DRAWINGS.
- 2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE BEGINNING WORK & SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM HIS/HER WORK.
- 3. THE CONTRACTOR SHALL NOTIFY "DIG SAFELY NEW YORK" 1-800-962-7962 PRIOR TO ANY EXCAVATION.

SYMBOLS

LINEWEIGHT AND LINETYPE DESIGNATIONS

- EXISTING OR BY OTHERS UOI
- PROPOSED (TO BE PROVIDED BY THIS CONTRACT) UOI
- OHE— OVERHEAD ELECTRIC
- UGE— UNDERGROUND ELECTRIC

BASIC DRAWING SYMBOLS

- DB-01 UNDERGROUND DUCT BANK DESIGNATION
- 1 KEYED NOTE
- A1 FEEDER DESIGNATION
- 1 CONTROL CIRCUIT DESIGNATION
- REMOVALS
- REINFORCED CONCRETE DUCT BANK
- CONCRETE DUCT BANK
- UNSWITCHED CONTINUATION CIRCUIT
- SWITCHED CONTINUATION CIRCUIT
- CIRCUIT NUMBER
- HOME RUN 2#12,1#12GND IN 3/4"C TO A 20A,1P CIRCUIT BREAKER IN DESIGNATED PANEL UOI
- PANEL DESIGNATION

SERVICE & DISTRIBUTION

- UTILITY POLE
- SELF CONTAINED METER
- METER CABINET WITH REMOTE METER
- TRANSFORMER
- DELTA DISTRIBUTION SYSTEM
- WYE DISTRIBUTION SYSTEM

WIRING METHODS

- GAS/WATERTIGHT PENETRATION
- INSULATED BUSHING OR CONDUIT STUB
- SEAL OFF
- CONDUIT UNION
- EXPANSION FITTING
- FLEXIBLE CONNECTION
- COILED SLACK
- CONTINUATION
- CABLE FLOAT
- PULL BOX, ITEM NUMBER
- JUNCTION BOX
- HAND HOLE, ITEM NUMBER
- CORD AND PLUG, AS INDICATED ON DWG

WIRING DIAGRAM

- CONTACTOR (NO)
- CONTACTOR (NC)
- RELAY
- OVERLOAD RELAY
- SOLENOID
- LIGHTNING ARRESTOR
- DRAW-OUT FRAME
- MATED CONNECTION

SWITCHES AND PROTECTIVE DEVICES

- 20A,1P CIRCUIT BREAKER
- FUSE
- AIR-BREAK SWITCH
- MANUALLY GANG OPERATED DISCONNECTING SWITCH WITH ARCING HORNS
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- SWITCH (OPEN)
- SWITCH (CLOSED)
- FUSE CUTOUT

GROUNDING

- GROUND WITH DIRECT CONNECTION TO EARTH
- GROUND ROD

EQUIPMENT

- FAN/BLOWER
- MOTOR WITH HORSEPOWER
- VARIABLE FREQUENCY DRIVE (VFD)
- SOLAR PHOTOVOLTAIC PANEL
- PHOTOCELL
- GENERATOR
- AUTOMATIC TRANSFER SWITCH
- CONTROL DEVICE OR STATION, TYPE, ITEM NUMBER
- THERMOSTAT
- TEMPERATURE ACTUATED SWITCH (OPEN)
- TEMPERATURE ACTUATED SWITCH (CLOSED)
- FLOW SWITCH
- PUSH BUTTON (OPEN)

CONTROL & INSTRUMENTATION DEVICES

RECEPTACLES & DATA DEVICES

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- QUADPLEX RECEPTACLE
- SPECIAL RECEPTACLE, 4'AFF, NEMA CONFIGURATION AS NOTED.
- SWITCHED DUPLEX RECEPTACLE OUTLET, SWITCH TOP HALF
- SINGLE DEVICE WALL MOUNT DATA BOX
- SINGLE DEVICE WALL MOUNT TELEPHONE BOX
- DUAL DEVICE WALL MOUNT BOX (TWO RJ45 OUTLETS, LABEL ONE "TELEPHONE" AND ONE "DATA")

RECEPTACLES & DATA DEVICES – SUBSCRIPT DESIGNATIONS

- AC INSTALLED ABOVE COUNTER
- DED DEDICATED
- GFI INDICATES GFCI PROTECTED RECEPTACLE
- TR TAMPER RESISTANT
- WP INDICATES GFCI PROTECTED W/ IN-USE WEATHERPROOF COVER
- 48 NO. INDICATES MOUNTING HEIGHT, OTHER THAN 18" AFF
- (REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES)
- SWITCH: S-SINGLE POLE, 3-THREE WAY, 4-FOUR WAY, D-DIMMER, K-KEY, P-PILOT, M-MOTION/OCCUPANCY SENSOR
- CEILING MOUNTED OCCUPANCY/MOTION SENSOR
- LIGHT FIXTURE, LETTER INDICATES TYPE, 'EL' INDICATES EGRESS LIGHTING CIRCUIT
- LIGHT FIXTURE WITH EMERGENCY BATTERY PACK
- LIGHT FIXTURE, SPOT, CAN, OTHER
- LIGHT FIXTURE, FLOOD
- WALL PACK, OUTDOOR LIGHTING FIXTURE
- EXIT LIGHT FIXTURE, CEILING MOUNTED, ARROWS AS INDICATED, SHADING INDICATES FACE
- EXIT LIGHT FIXTURE, WALL MOUNTED, ARROWS AS INDICATED, SHADING INDICATES FACE
- EMERGENCY LIGHTING UNIT, REMOTE BATTERY
- EMERGENCY LIGHTING UNIT, INTEGRAL BATTERY
- SITE LIGHTING FIXTURE, TWIN POLE MOUNTED
- SITE LIGHTING FIXTURE, SINGLE POLE MOUNTED

FIRE PROTECTION

- FIRE ALARM SYSTEM, STROBE/HORN
- FIRE ALARM SYSTEM, STROBE ONLY
- FIRE ALARM SYSTEM, HORN
- FIRE ALARM SYSTEM, PULL STATION
- FIRE ALARM SYSTEM, STROBE/BELL
- FIRE ALARM SYSTEM, SPEAKER
- FIRE ALARM SYSTEM, BEAM DETECTOR
- FIRE ALARM SYSTEM, BEAM DETECTOR RECEIVER
- FIRE ALARM SYSTEM, SMOKE DETECTOR
- FIRE ALARM SYSTEM, HEAT DETECTOR
- FIRE ALARM SYSTEM, CARBON MONOXIDE DETECTOR
- FIRE ALARM SYSTEM, FIRE ALARM CONTROL PANEL
- FIRE ALARM SYSTEM, FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM SYSTEM, MAG. DOOR HOLDER(F=FLR.,C=CLG.,W=WALL)

ABBREVIATIONS

- Φ PHASE
- A AMPERE
- AC ABOVE COUNTER
- ACCU AIR COOLED CONDENSING UNIT
- AF AMP FRAME
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AHU AIR HANDLING UNIT
- ANN ANNUNCIATOR
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- AT AMP TRIP
- ATS AUTOMATIC TRANSFER SWITCH
- AV AUDIO/VISUAL
- AWG AMERICAN WIRE GAUGE
- AXL ACROSS THE LINE
- B BOILER
- BATT BATTERY
- BFG BENEATH FINISHED GRADE
- BLDG BUILDING
- BW BANDWIDTH
- C CONDUIT
- CB CIRCUIT BREAKER
- CFL COMPACT FLUORESCENT
- CHAR CHARACTERISTICS
- CKT CIRCUIT
- CL CURRENT LIMITING
- CLG CEILING
- COMB COMBINATION STARTER
- COMM COMMUNICATIONS
- CONC CONCRETE
- CONST CONSTRUCTION
- CONT CONTRACT
- CP CONTROL PANEL
- CT CURRENT TRANSFORMER
- CU COPPER
- DB DUCT BANK
- dB DECIBELS
- DEG DEGREE
- DISC DISCONNECT
- DIV DIVISION
- DP DISTRIBUTION PANEL
- DOT DEPARTMENT OF TRANSPORTATION
- DS DISCONNECT SWITCH
- DWG DRAWING
- EA EACH
- EC ELECTRICAL CONTRACTOR
- EF EXHAUST FAN
- ELEC ELECTRONIC
- ELEV ELEVATOR
- EM EMERGENCY
- EMI ELECTROMAGNETIC INTERFERENCE
- EPS EMERGENCY POWER SUPPLY
- EPSS EMERGENCY POWER SUPPLY SYSTEM
- EQUIP EQUIPMENT
- ETC ET CETERA
- EUH ELECTRIC UNIT HEATER
- EXT EXTERIOR
- FA FIRE ALARM
- FAAP FIRE ALARM ANNUNCIATION PANEL
- FACP FIRE ALARM CONTROL PANEL
- FB FURNISHED BY
- FL FLUORESCENT
- FLA FULL LOAD AMPACITY
- FLR FLOOR
- FLUOR FLUORESCENT
- FSR FAN SHUT-DOWN RELAY
- FT FEET
- FURN FURNISH
- GC GENERAL CONTRACTOR
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND
- HH HAND HOLE
- HID HIGH INTENSITY DISCHARGE
- HOA HAND-OFF-AUTO SELECTOR SWITCH
- HP HORSEPOWER
- HPS HIGH PRESSURE SODIUM
- HWH HOT WATER HEATER
- HZ HERTZ
- IB INSTALLED BY
- IN INCHES
- IND INDICATED
- INST INSTALLED
- JB JUNCTION BOX
- kAIC 1000 AMPERE INTERRUPTING CAPACITY
- kCMIL 1000 CIRCULAR MILS
- kW KILOWATT
- LCD LIQUID CRYSTAL DISPLAY
- LED LIGHT EMITTING DIODE
- LP LIGHTING PANEL
- LRA LOCKED ROTOR AMPS
- LS LEVEL SENSOR
- LTS LIGHTS
- MA MILLIAMPS
- MAN MANUAL STARTER
- MAG MAGNETIC
- MAX MAXIMUM
- MC MECHANICAL CONTRACTOR
- MCA MINIMUM CIRCUIT AMPACITY
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MCP MAIN CONTROL PANEL
- MDP MAIN DISTRIBUTION PANEL
- MDS MAIN DISCONNECT SWITCH
- MFR MANUFACTURER
- MH METAL HALIDE
- MH MOUNTING HEIGHT
- MIN MINIMUM
- MS MOTOR STARTER
- MTD MOUNTED
- MTS MANUAL TRANSFER SWITCH
- N NEUTRAL
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRIC CODE
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NIC NOT IN CONTACT
- NL NIGHT LIGHT
- NO NORMALLY OPEN
- P POLE
- P PUMP
- PA PUBLIC ADDRESS
- PB PULL BOX
- PEND PENDANT
- PC PHOTO CELL
- PH PHASE
- PNL PANEL
- PP POWER PANEL
- PRI PRIMARY
- PROV PROVIDED (FURNISHED AND INSTALLED)
- PSI POUNDS PER SQUARE INCH
- PT POTENTIAL TRANSFORMER
- PT PRESSURE TRANSDUCER
- PTAC PACKAGED TERMINAL AIR CONDITIONING
- PVC POLYVINYL CHLORIDE
- PWR POWER
- QTY QUANTITY
- RCPT RECEPTACLE
- REQD REQUIRED
- RGS RIGID GALVANIZED STEEL
- RLA RUNNING LOAD AMPS
- RM ROOM
- RS RAPID START
- RTU RADIO TELEMETRY UNIT
- RTU REMOTE TERMINAL UNIT
- RVD REDUCED VOLTAGE DRIVE
- SEC SECONDARY
- SPEC SPECIFICATION
- SQ SQUARE
- SS SOFT START
- ST SHUNT TRIP
- STP SHIELDED TWISTED PAIR
- SUPP SUPPLIED
- SURF SURFACE
- SW SWITCH
- SWBD SWITCHBOARD
- SYM SYMMETRICAL
- TEL TELEPHONE
- TSTAT THERMOSTAT
- TV TELEVISION
- TYP TYPICAL
- UG UNDERGROUND
- UGE UNDERGROUND ELECTRIC
- UH UNIT HEATER
- UL UNDERWRITER'S LABORATORIES
- UOI UNLESS OTHERWISE INDICATED
- UPS UNINTERRUPTIBLE POWER SUPPLY
- V VOLTAGE
- UTP UNSHIELDED TWISTED PAIR
- VA VOLT AMPERES
- VFD VARIABLE FREQUENCY DRIVE
- W WIRE
- W/ WITH
- W/O WITHOUT
- WCR WITHSTAND CURRENT RATING
- WP WEATHERPROOF
- WP WELL PUMP
- WT WATERTIGHT
- XFMR TRANSFORMER

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY
ELECTRICAL UPGRADES

ELECTRICAL
REFERENCE SHEET

TOMPKINS COUNTY, NEW YORK

TOWN OF LANSING

443 Electronics Parkway
Liverpool, NY
13088

B&L

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Barton & Loguidice, D.P.C.



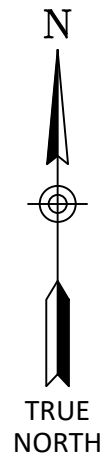
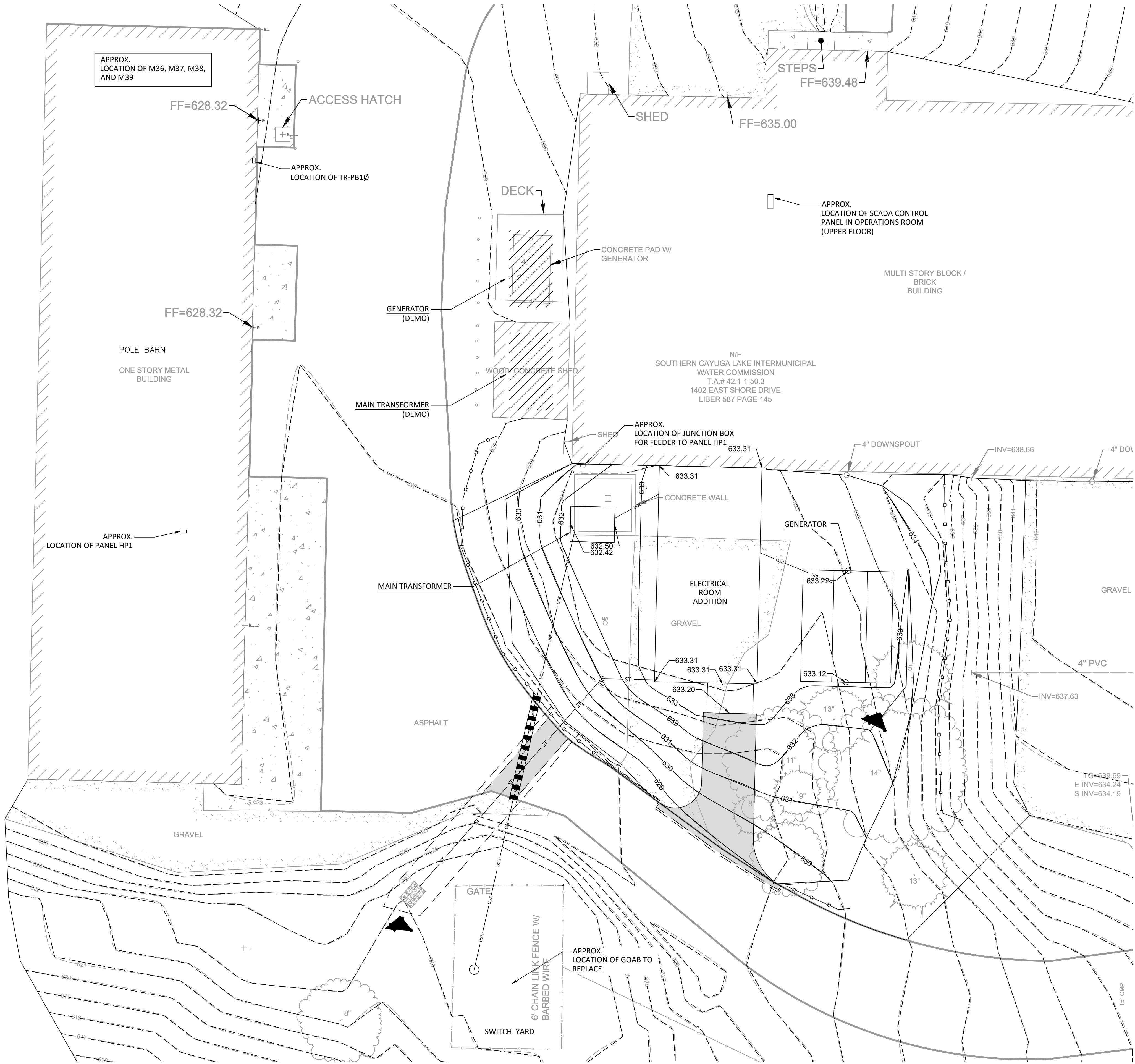
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677.006.001



GENERAL NOTES, SITE PLAN

1. NOT ALL DUCT BANKS MAY BE SHOWN. PROVIDE ALL DUCT BANKS IN ACCORDANCE WITH APPLICABLE PLANS AND DETAILS.
2. DUCT BANKS SHALL NOT BE LOCATED ABOVE OR BELOW OTHER SYSTEMS EXCEPT WHERE CROSSING. PROVIDE CROSSINGS AS NEAR TO PERPENDICULAR AS FEASIBLE.
3. DUCT BANKS AND STRUCTURES SHOWN ARE APPROXIMATE OR ANTICIPATED LOCATIONS. FIELD VERIFY ALL LOCATIONS AND ROUTE DUCT BANKS AS REQUIRED PER INTENT OF PLANS.
4. DUCT BANKS SHALL BE CONCRETE WHERE LOCATED BENEATH OR WITHIN 5' OF PAVED ROADS, ACCESS ROADS, PARKING LOTS, OR OTHER DRIVE AREAS.
5. PROVIDE ALL TRENCHING REQUIRED FOR DUCT BANKS.
6. PROVIDE COMPLETE SITE RESTORATION FOR ALL DUCT BANKS.
7. SEAL ALL PENETRATIONS TO BUILDINGS WATERTIGHT.

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY
ELECTRICAL UPGRADES

SITE PLAN

TOWN OF LANSING

TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088

B&L

NYS CERT. OF AUTH.: 0018246
Barton & Loguidice, D.P.C.

STATE OF NEW YORK
TIMOTHY W. BOLT
No. 073477
ELECTRICAL PROFESSIONAL ENGINEER

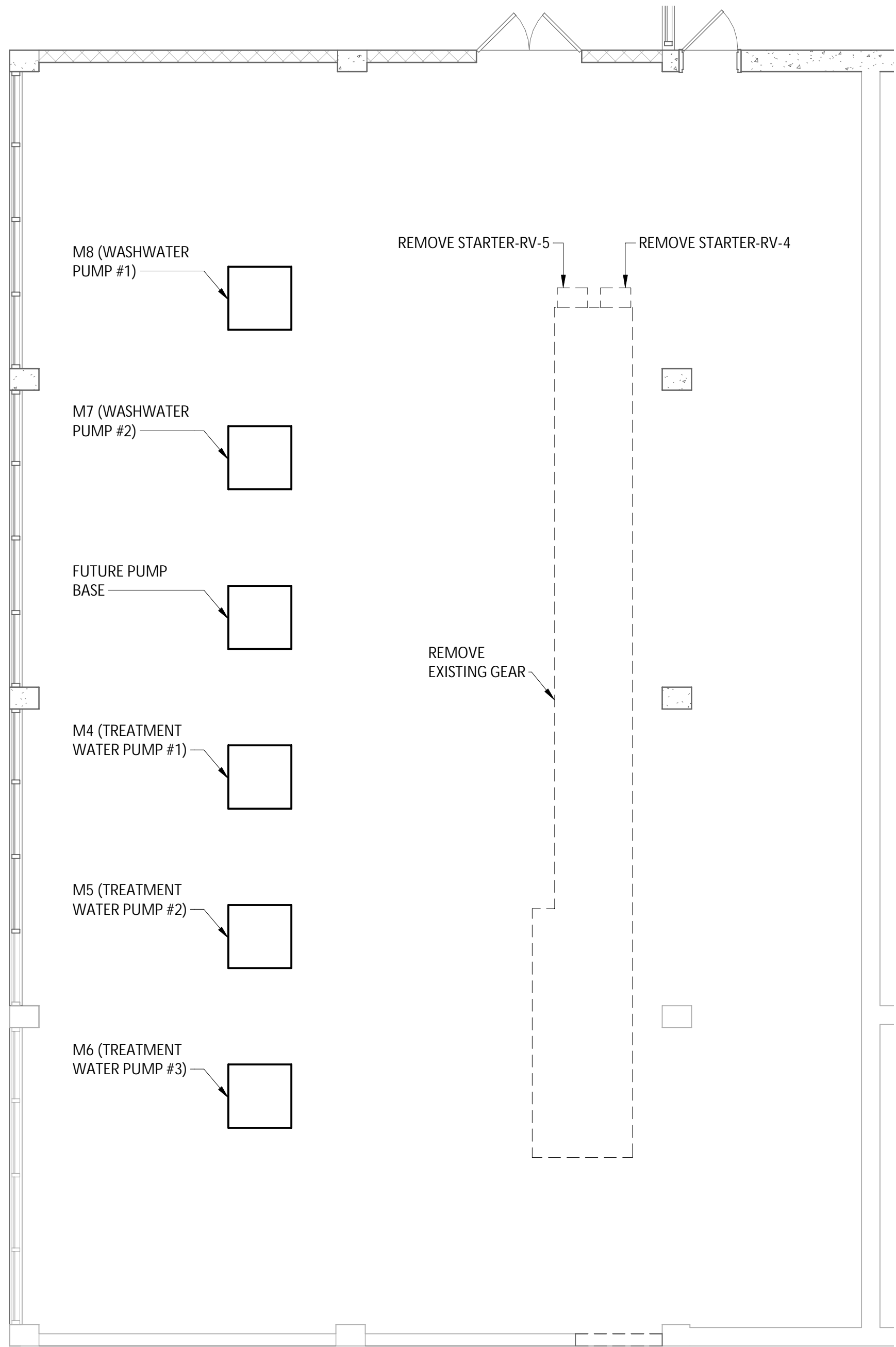
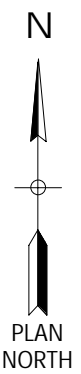
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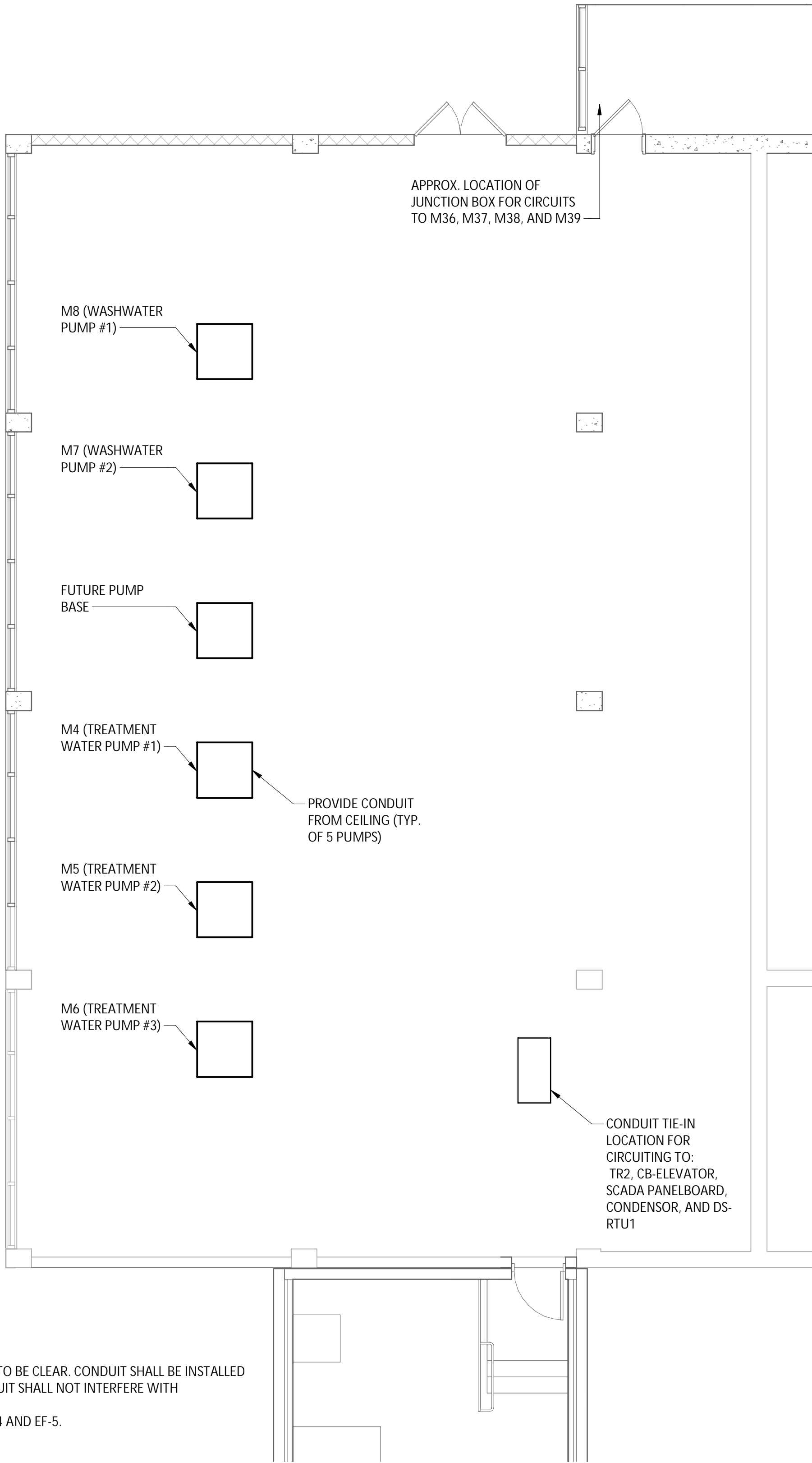
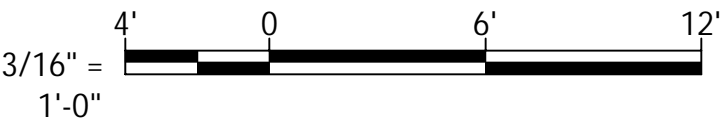
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Drawn by _____ SJK _____ In Charge of _____ TWB _____
Designed by _____ SJK _____



- GENERAL NOTES**
- ALL WORK TO BE PROVIDED AS SHOWN ON ALL PLANS AND AS SPECIFIED.
 - REMOVE ALL EQUIPMENT PADS FOR REMOVED EQUIPMENT. EXISTING GEAR IS ON A HOUSEKEEPING PAD THAT WAS POURED ON TOP OF THE EXISTING FLOOR. REMOVE PAD AND CUT/GRIND ANY DOWELS OR PROJECTIONS FLUSH. SEAL ALL CONDUITS.

PUMP ROOM DEMOLITION PLAN

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



- GENERAL NOTES**
- AREA AT LOCATION OF REMOVED SWITCHGEAR TO BE CLEAR. CONDUIT SHALL BE INSTALLED OVERHEAD OR ALONG WALLS. INSTALLED CONDUIT SHALL NOT INTERFERE WITH CLEARANCES OR MAINTENANCE OF EQUIPMENT.
 - SEE MECHANICAL PLANS FOR LOCATIONS OF EF-4 AND EF-5.

PUMP ROOM ELECTRICAL FLOOR PLAN

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

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES
PUMP ROOM FLOOR PLANS
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

443 Electronics Parkway
Liverpool, NY
13088
NYS CERT. OF AUTH.: 0018246
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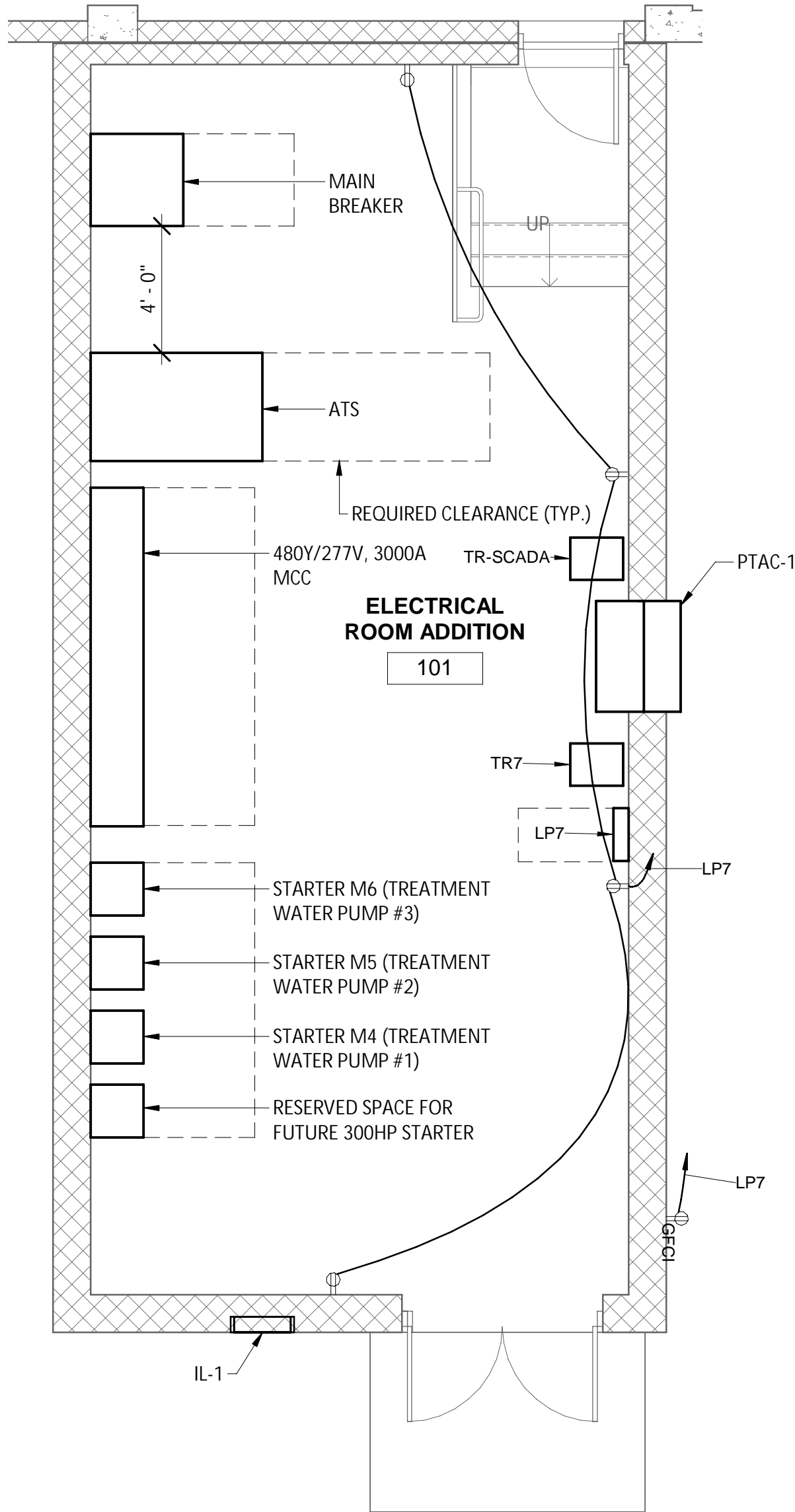
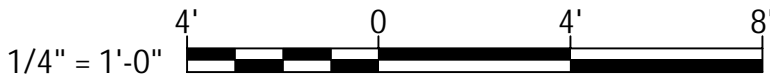
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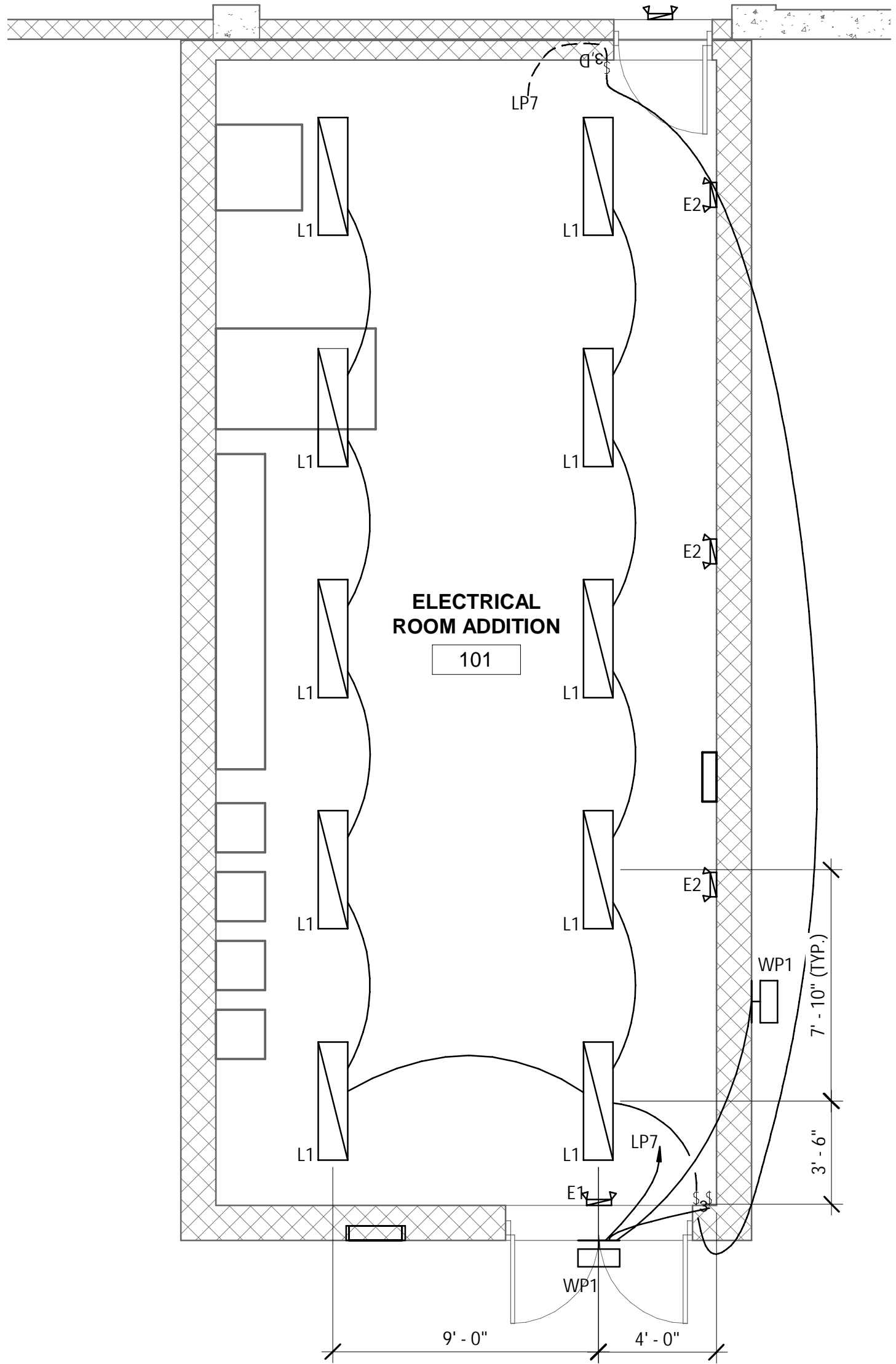
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ELECTRICAL ROOM ADDITION FLOOR PLAN

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



- GENERAL NOTES
1. CIRCUIT ALL EMERGENCY AND EXIT LIGHTING TO UNSWITCHED PORTION OF NEAREST ROOM LIGHTING CIRCUIT.
 2. TYPE L1 LIGHTS TO BE INSTALLED AT APPROX. HEIGHT OF 12'-0" AFF.

ELECTRICAL ROOM ADDITION LIGHTING PLAN

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

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

ELECTRICAL ROOM ADDITION FLOOR PLANS

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Liverpool, NY
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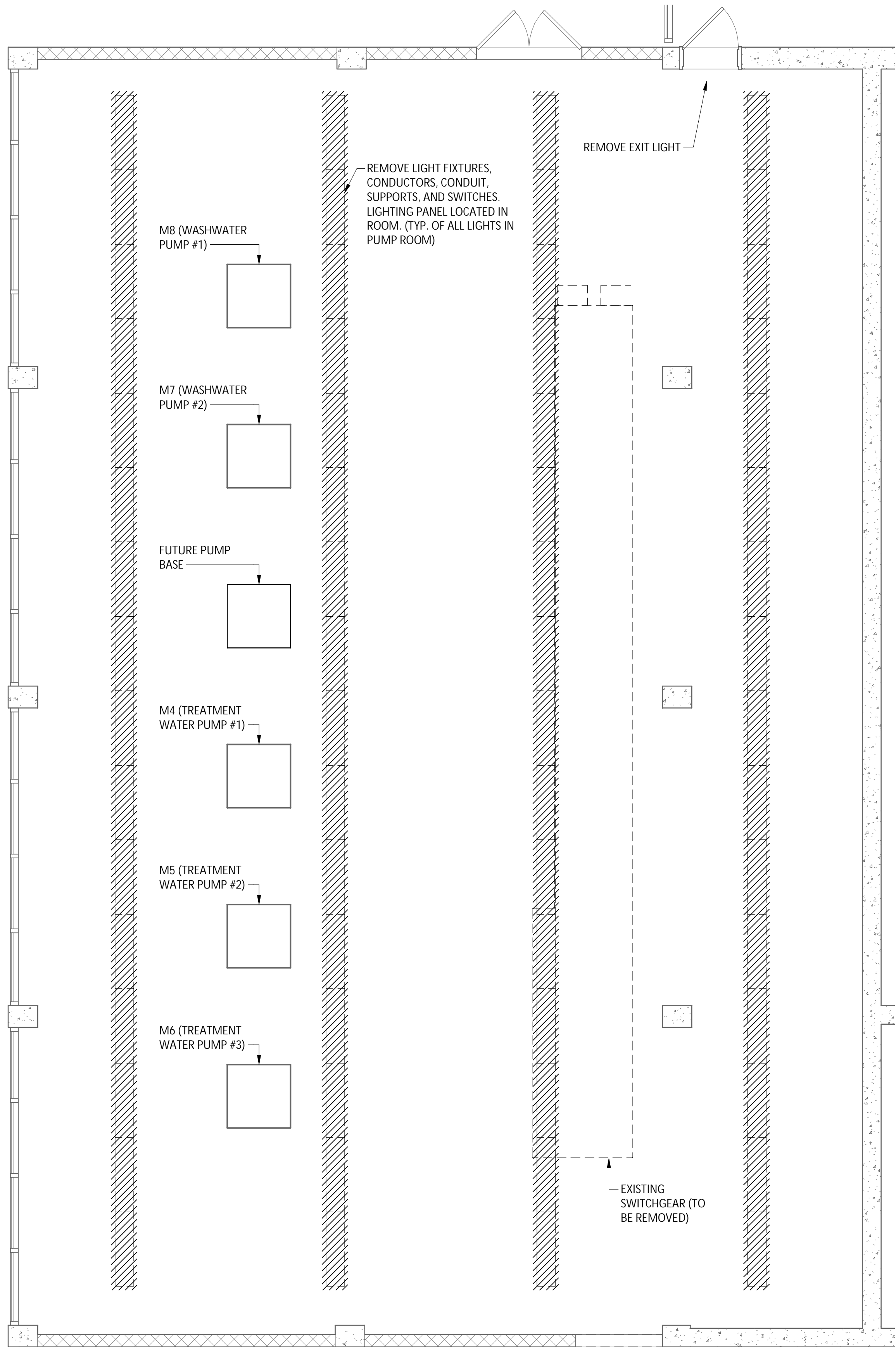
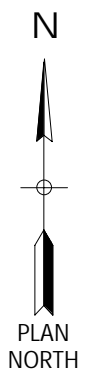
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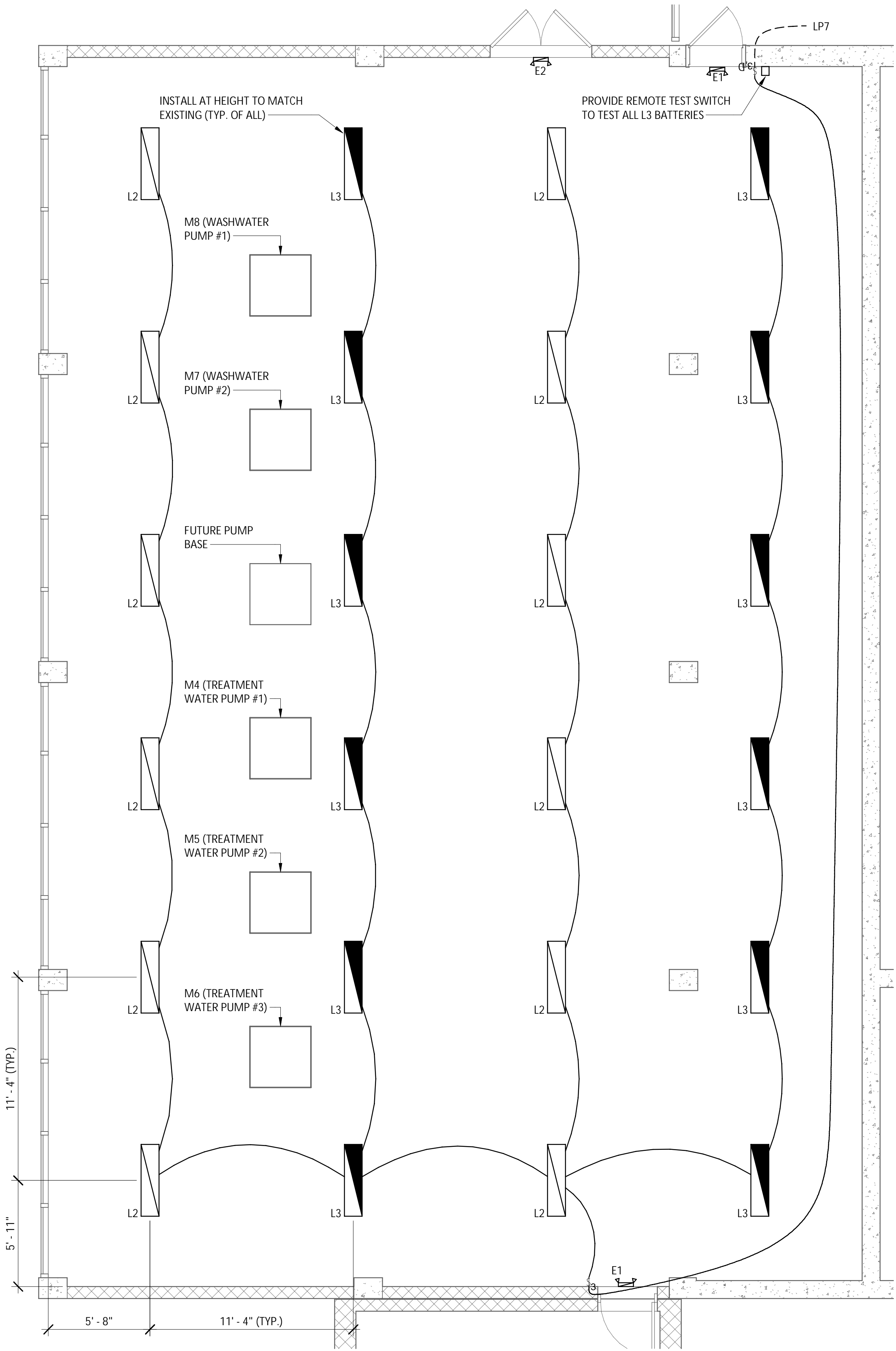
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Designed by _____ SJK _____



LIGHTING DEMOLITION PLAN

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



GENERAL NOTES

1. CIRCUIT ALL EMERGENCY AND EXIT LIGHTING TO UNSWITCHED PORTION OF NEAREST ROOM LIGHTING CIRCUIT.

LIGHTING PLAN - PUMP ROOM

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

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REVISIONS

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY ELECTRICAL UPGRADES

PUMP ROOM LIGHTING PLANS

TOMPKINS COUNTY, NEW YORK

TOWN OF LANSING

443 Electronics Parkway
Liverpool, NY
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OCTOBER, 2023

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Sheet Number
E104

Project Number
677.006.001

KEYED NOTES, DEMOLITION DIAGRAM

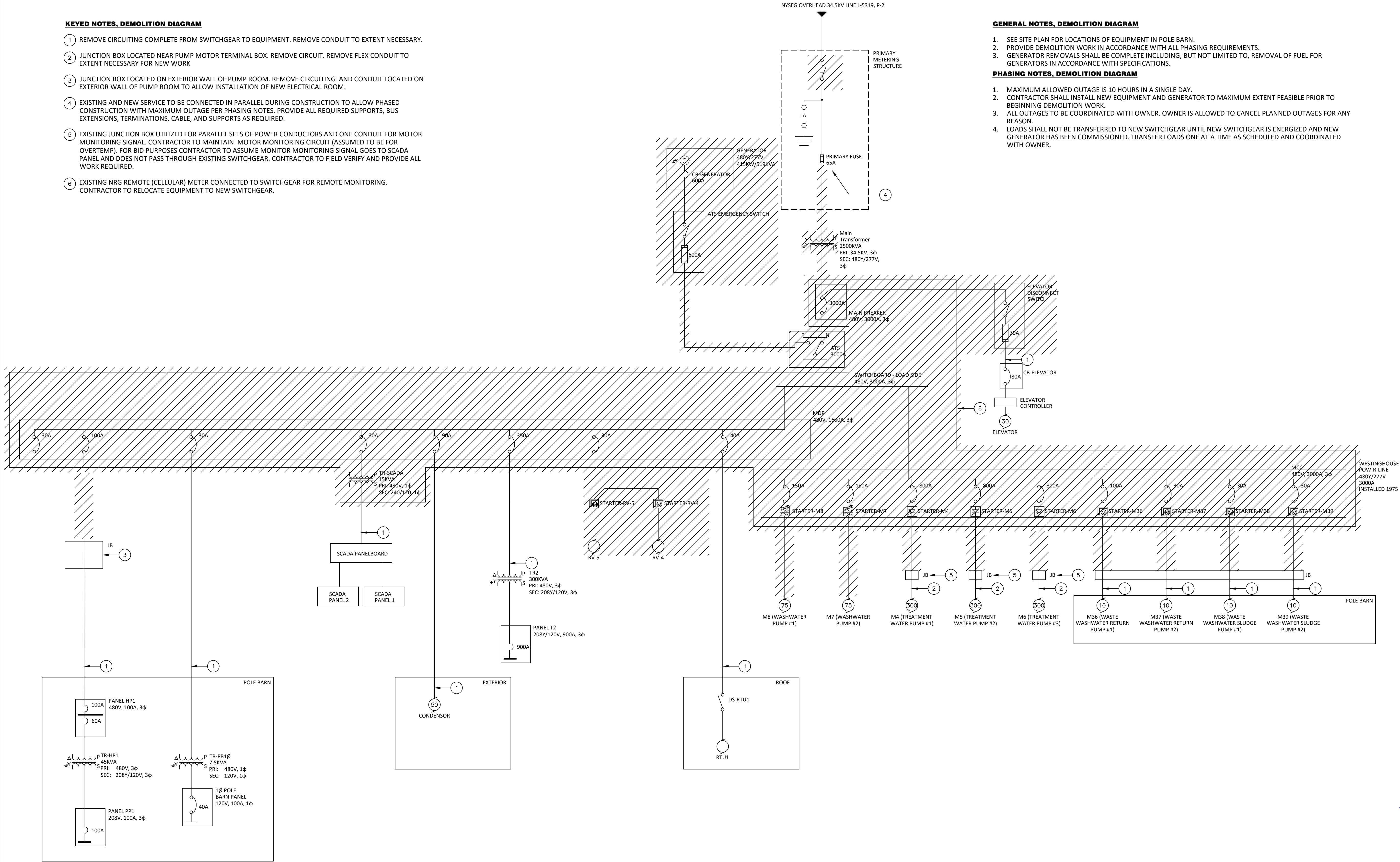
- 1 REMOVE CIRCUITING COMPLETE FROM SWITCHGEAR TO EQUIPMENT. REMOVE CONDUIT TO EXTENT NECESSARY.
- 2 JUNCTION BOX LOCATED NEAR PUMP MOTOR TERMINAL BOX. REMOVE CIRCUIT. REMOVE FLEX CONDUIT TO EXTENT NECESSARY FOR NEW WORK
- 3 JUNCTION BOX LOCATED ON EXTERIOR WALL OF PUMP ROOM. REMOVE CIRCUITING AND CONDUIT LOCATED ON EXTERIOR WALL OF PUMP ROOM TO ALLOW INSTALLATION OF NEW ELECTRICAL ROOM.
- 4 EXISTING AND NEW SERVICE TO BE CONNECTED IN PARALLEL DURING CONSTRUCTION TO ALLOW PHASED CONSTRUCTION WITH MAXIMUM OUTAGE PER PHASING NOTES. PROVIDE ALL REQUIRED SUPPORTS, BUS EXTENSIONS, TERMINATIONS, CABLE, AND SUPPORTS AS REQUIRED.
- 5 EXISTING JUNCTION BOX UTILIZED FOR PARALLEL SETS OF POWER CONDUCTORS AND ONE CONDUIT FOR MOTOR MONITORING SIGNAL. CONTRACTOR TO MAINTAIN MOTOR MONITORING CIRCUIT (ASSUMED TO BE FOR OVERTEMP). FOR BID PURPOSES CONTRACTOR TO ASSUME MONITOR MONITORING SIGNAL GOES TO SCADA PANEL AND DOES NOT PASS THROUGH EXISTING SWITCHGEAR. CONTRACTOR TO FIELD VERIFY AND PROVIDE ALL WORK REQUIRED.
- 6 EXISTING NRG REMOTE (CELLULAR) METER CONNECTED TO SWITCHGEAR FOR REMOTE MONITORING. CONTRACTOR TO RELOCATE EQUIPMENT TO NEW SWITCHGEAR.

GENERAL NOTES, DEMOLITION DIAGRAM

1. SEE SITE PLAN FOR LOCATIONS OF EQUIPMENT IN POLE BARN.
2. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH ALL PHASING REQUIREMENTS.
3. GENERATOR REMOVALS SHALL BE COMPLETE INCLUDING, BUT NOT LIMITED TO, REMOVAL OF FUEL FOR GENERATORS IN ACCORDANCE WITH SPECIFICATIONS.

PHASING NOTES, DEMOLITION DIAGRAM

1. MAXIMUM ALLOWED OUTAGE IS 10 HOURS IN A SINGLE DAY.
2. CONTRACTOR SHALL INSTALL NEW EQUIPMENT AND GENERATOR TO MAXIMUM EXTENT FEASIBLE PRIOR TO BEGINNING DEMOLITION WORK.
3. ALL OUTAGES TO BE COORDINATED WITH OWNER. OWNER IS ALLOWED TO CANCEL PLANNED OUTAGES FOR ANY REASON.
4. LOADS SHALL NOT BE TRANSFERRED TO NEW SWITCHGEAR UNTIL NEW SWITCHGEAR IS ENERGIZED AND NEW GENERATOR HAS BEEN COMMISSIONED. TRANSFER LOADS ONE AT A TIME AS SCHEDULED AND COORDINATED WITH OWNER.



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REVISIONS	

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY
ELECTRICAL UPGRADES

DEMOLITION DIAGRAM

TOMPKINS COUNTY, NEW YORK

TOWN OF LANSING

443 Electronics Parkway
Liverpool, NY
13088

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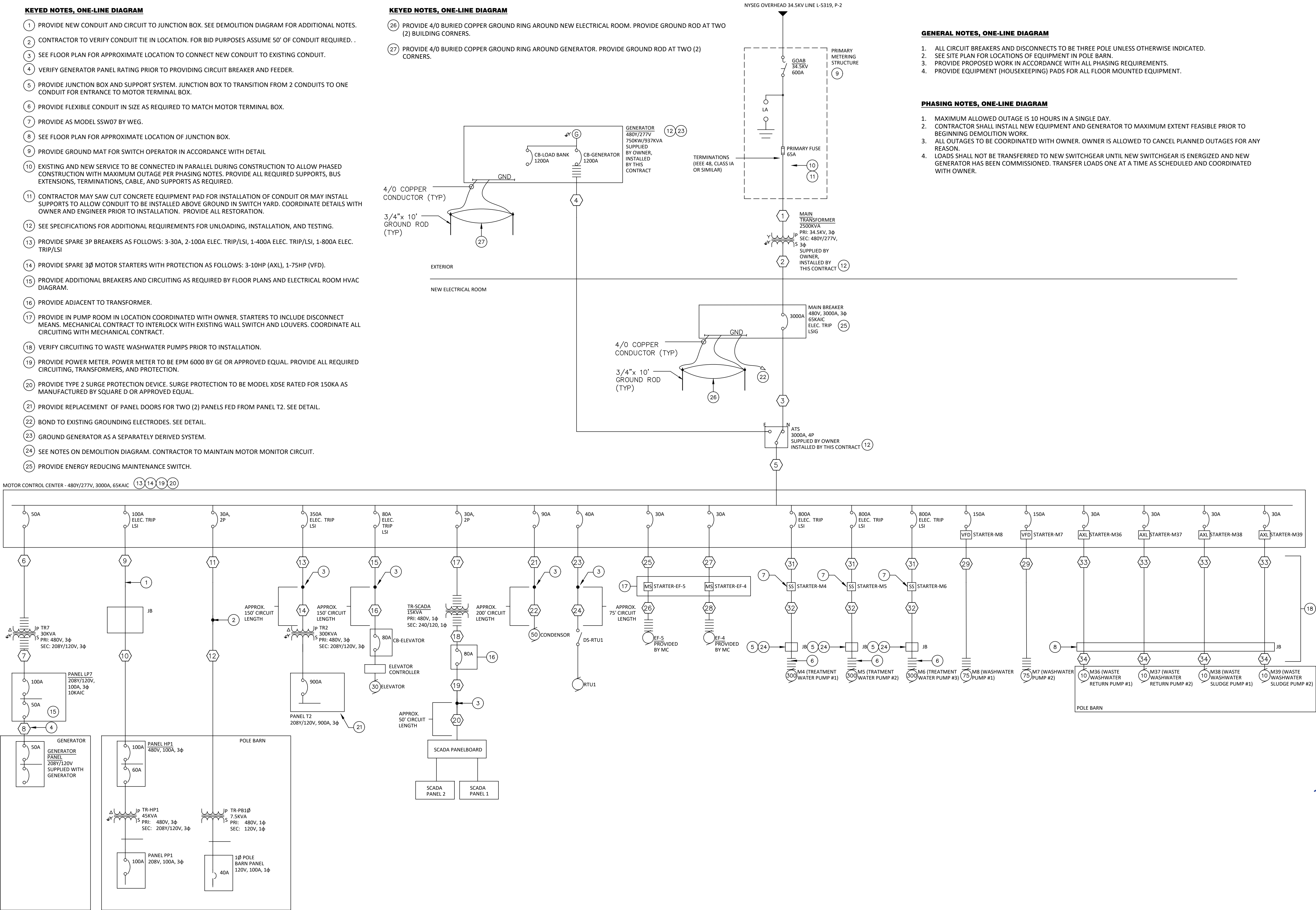
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KEYED NOTES, ONE-LINE DIAGRAM

- 1 PROVIDE NEW CONDUIT AND CIRCUIT TO JUNCTION BOX. SEE DEMOLITION DIAGRAM FOR ADDITIONAL NOTES.
- 2 CONTRACTOR TO VERIFY CONDUIT TIE IN LOCATION. FOR BID PURPOSES ASSUME 50' OF CONDUIT REQUIRED. .
- 3 SEE FLOOR PLAN FOR APPROXIMATE LOCATION TO CONNECT NEW CONDUIT TO EXISTING CONDUIT.
- 4 VERIFY GENERATOR PANEL RATING PRIOR TO PROVIDING CIRCUIT BREAKER AND FEEDER.
- 5 PROVIDE JUNCTION BOX AND SUPPORT SYSTEM. JUNCTION BOX TO TRANSITION FROM 2 CONDUITS TO ONE CONDUIT FOR ENTRANCE TO MOTOR TERMINAL BOX.
- 6 PROVIDE FLEXIBLE CONDUIT IN SIZE AS REQUIRED TO MATCH MOTOR TERMINAL BOX.
- 7 PROVIDE AS MODEL SSW07 BY WEG.
- 8 SEE FLOOR PLAN FOR APPROXIMATE LOCATION OF JUNCTION BOX.
- 9 PROVIDE GROUND MAT FOR SWITCH OPERATOR IN ACCORDANCE WITH DETAIL.
- 10 EXISTING AND NEW SERVICE TO BE CONNECTED IN PARALLEL DURING CONSTRUCTION TO ALLOW PHASED CONSTRUCTION WITH MAXIMUM OUTAGE PER PHASING NOTES. PROVIDE ALL REQUIRED SUPPORTS, BUS EXTENSIONS, TERMINATIONS, CABLE, AND SUPPORTS AS REQUIRED.
- 11 CONTRACTOR MAY SAW CUT CONCRETE EQUIPMENT PAD FOR INSTALLATION OF CONDUIT OR MAY INSTALL SUPPORTS TO ALLOW CONDUIT TO BE INSTALLED ABOVE GROUND IN SWITCH YARD. COORDINATE DETAILS WITH OWNER AND ENGINEER PRIOR TO INSTALLATION. PROVIDE ALL RESTORATION.
- 12 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR UNLOADING, INSTALLATION, AND TESTING.
- 13 PROVIDE SPARE 3P BREAKERS AS FOLLOWS: 3-30A, 2-100A ELEC. TRIP/LSI, 1-400A ELEC. TRIP/LSI, 1-800A ELEC. TRIP/LSI
- 14 PROVIDE SPARE 3Ø MOTOR STARTERS WITH PROTECTION AS FOLLOWS: 3-10HP (AXL), 1-75HP (VFD).
- 15 PROVIDE ADDITIONAL BREAKERS AND CIRCUITING AS REQUIRED BY FLOOR PLANS AND ELECTRICAL ROOM HVAC DIAGRAM.
- 16 PROVIDE ADJACENT TO TRANSFORMER.
- 17 PROVIDE IN PUMP ROOM IN LOCATION COORDINATED WITH OWNER. STARTERS TO INCLUDE DISCONNECT MEANS. MECHANICAL CONTRACT TO INTERLOCK WITH EXISTING WALL SWITCH AND LOUVERS. COORDINATE ALL CIRCUITING WITH MECHANICAL CONTRACT.
- 18 VERIFY CIRCUITING TO WASTE WASHWATER PUMPS PRIOR TO INSTALLATION.
- 19 PROVIDE POWER METER. POWER METER TO BE EPM 6000 BY GE OR APPROVED EQUAL. PROVIDE ALL REQUIRED CIRCUITING, TRANSFORMERS, AND PROTECTION.
- 20 PROVIDE TYPE 2 SURGE PROTECTION DEVICE. SURGE PROTECTION TO BE MODEL XDSE RATED FOR 150KA AS MANUFACTURED BY SQUARE D OR APPROVED EQUAL.
- 21 PROVIDE REPLACEMENT OF PANEL DOORS FOR TWO (2) PANELS FED FROM PANEL T2. SEE DETAIL.
- 22 BOND TO EXISTING GROUNDING ELECTRODES. SEE DETAIL.
- 23 GROUND GENERATOR AS A SEPARATELY DERIVED SYSTEM.
- 24 SEE NOTES ON DEMOLITION DIAGRAM. CONTRACTOR TO MAINTAIN MOTOR MONITOR CIRCUIT.
- 25 PROVIDE ENERGY REDUCING MAINTENANCE SWITCH.

KEYED NOTES, ONE-LINE DIAGRAM

- 26 PROVIDE 4/0 BURIED COPPER GROUND RING AROUND NEW ELECTRICAL ROOM. PROVIDE GROUND ROD AT TWO (2) BUILDING CORNERS.
- 27 PROVIDE 4/0 BURIED COPPER GROUND RING AROUND GENERATOR. PROVIDE GROUND ROD AT TWO (2) CORNERS.



GENERAL NOTES, ONE-LINE DIAGRAM

1. ALL CIRCUIT BREAKERS AND DISCONNECTS TO BE THREE POLE UNLESS OTHERWISE INDICATED.
2. SEE SITE PLAN FOR LOCATIONS OF EQUIPMENT IN POLE BARN.
3. PROVIDE PROPOSED WORK IN ACCORDANCE WITH ALL PHASING REQUIREMENTS.
4. PROVIDE EQUIPMENT (HOUSEKEEPING) PADS FOR ALL FLOOR MOUNTED EQUIPMENT.

PHASING NOTES, ONE-LINE DIAGRAM

1. MAXIMUM ALLOWED OUTAGE IS 10 HOURS IN A SINGLE DAY.
2. CONTRACTOR SHALL INSTALL NEW EQUIPMENT AND GENERATOR TO MAXIMUM EXTENT FEASIBLE PRIOR TO BEGINNING DEMOLITION WORK.
3. ALL OUTAGES TO BE COORDINATED WITH OWNER. OWNER IS ALLOWED TO CANCEL PLANNED OUTAGES FOR ANY REASON.
4. LOADS SHALL NOT BE TRANSFERRED TO NEW SWITCHGEAR UNTIL NEW SWITCHGEAR IS ENERGIZED AND NEW GENERATOR HAS BEEN COMMISSIONED. TRANSFER LOADS ONE AT A TIME AS SCHEDULED AND COORDINATED WITH OWNER.

SOUTHERN CAYUGA LAKE INTERMUNICIPAL WATER COMMISSION
BOLTON POINT WATER TREATMENT FACILITY
ELECTRICAL UPGRADES

ONE-LINE DIAGRAM

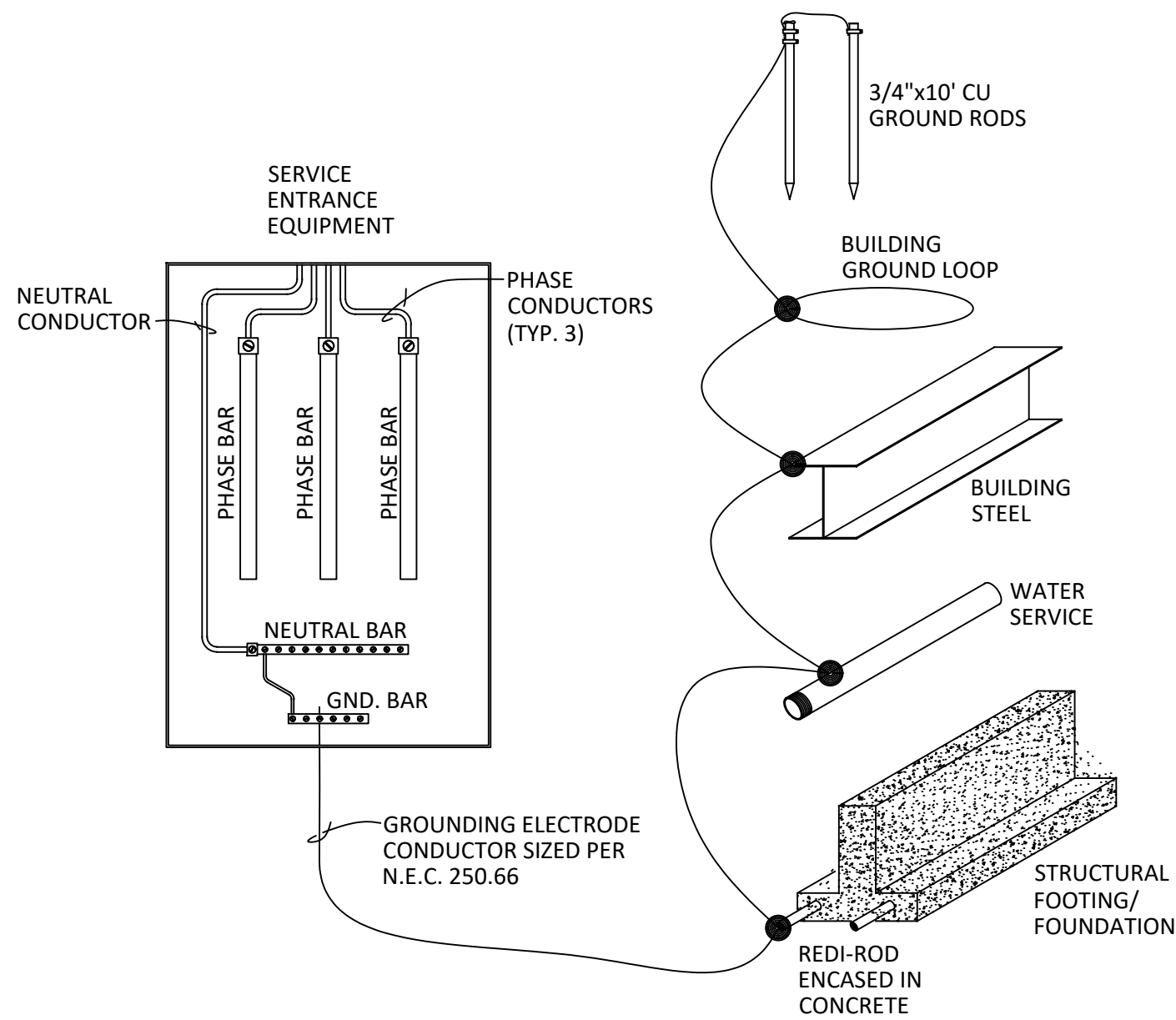
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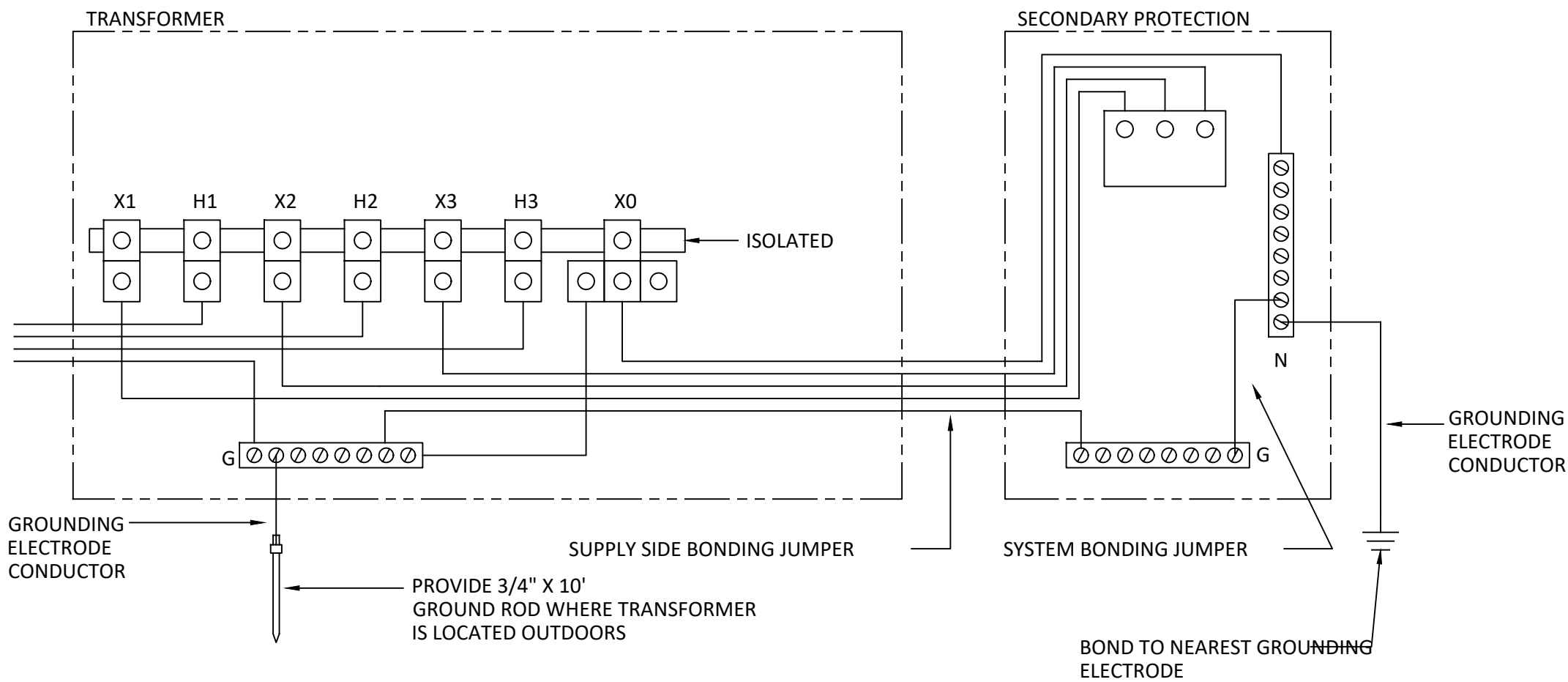


GENERAL NOTES, TYPICAL SERVICE ENTRANCE GROUNDING

- BOND ALL NORMAL AND EMERGENCY EQUIPMENT TO GROUND RING.
- BOND ALL EQUIPMENT TO GROUND AS REQUIRED BY MANUFACTURER.
- NOT ALL GROUNDING SHOWN. PROVIDE ADDITIONAL GROUNDING AS REQUIRED PER SPECIFICATIONS AND NEC.
- ALL GROUND CONDUCTORS SHALL BE 4/0KCMIL COPPER, U.O.I.

TYPICAL SERVICE ENTRANCE GROUNDING

NOT TO SCALE

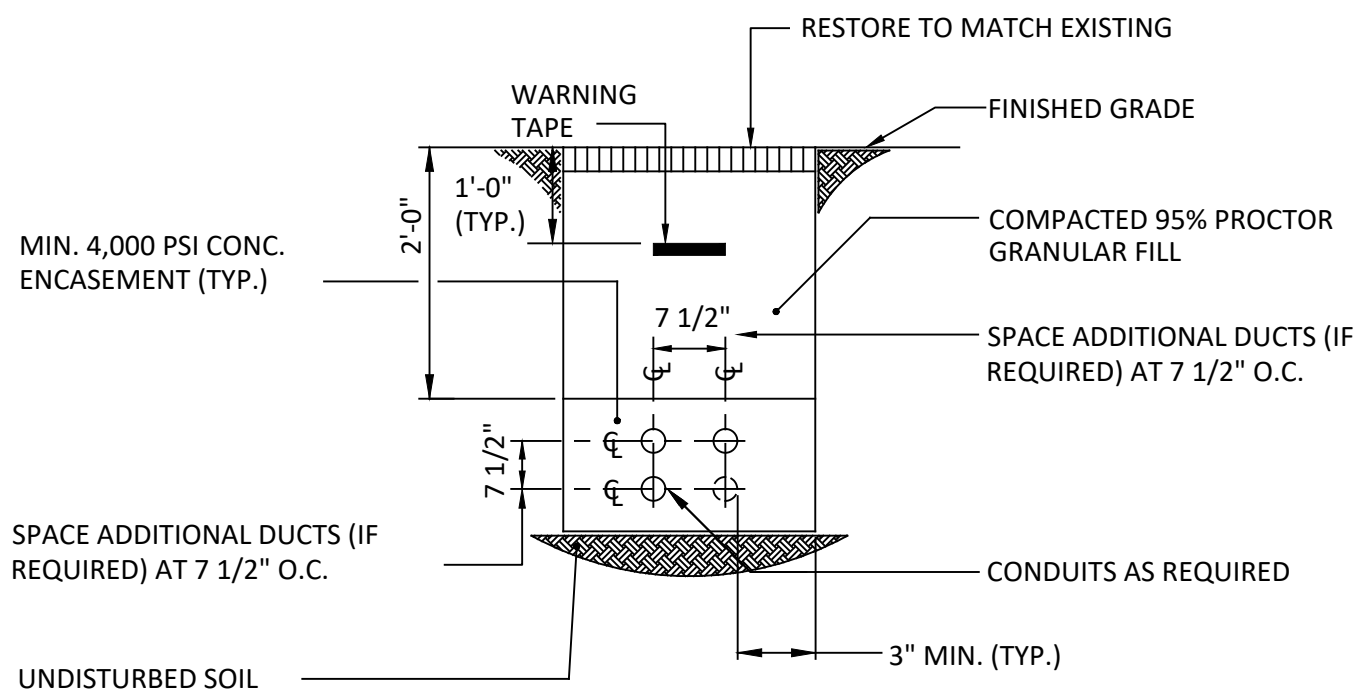


GENERAL NOTES TRANSFORMER GROUNDING DETAIL

- SUPPLY SIDE BONDING JUMPER, SYSTEM BONDING JUMPER, AND GROUNDING ELECTRODE CONDUCTOR TO BE PROVIDED AND SIZED IN ACCORDANCE WITH NEC TABLE 250.66 UNLESS OTHERWISE INDICATED.

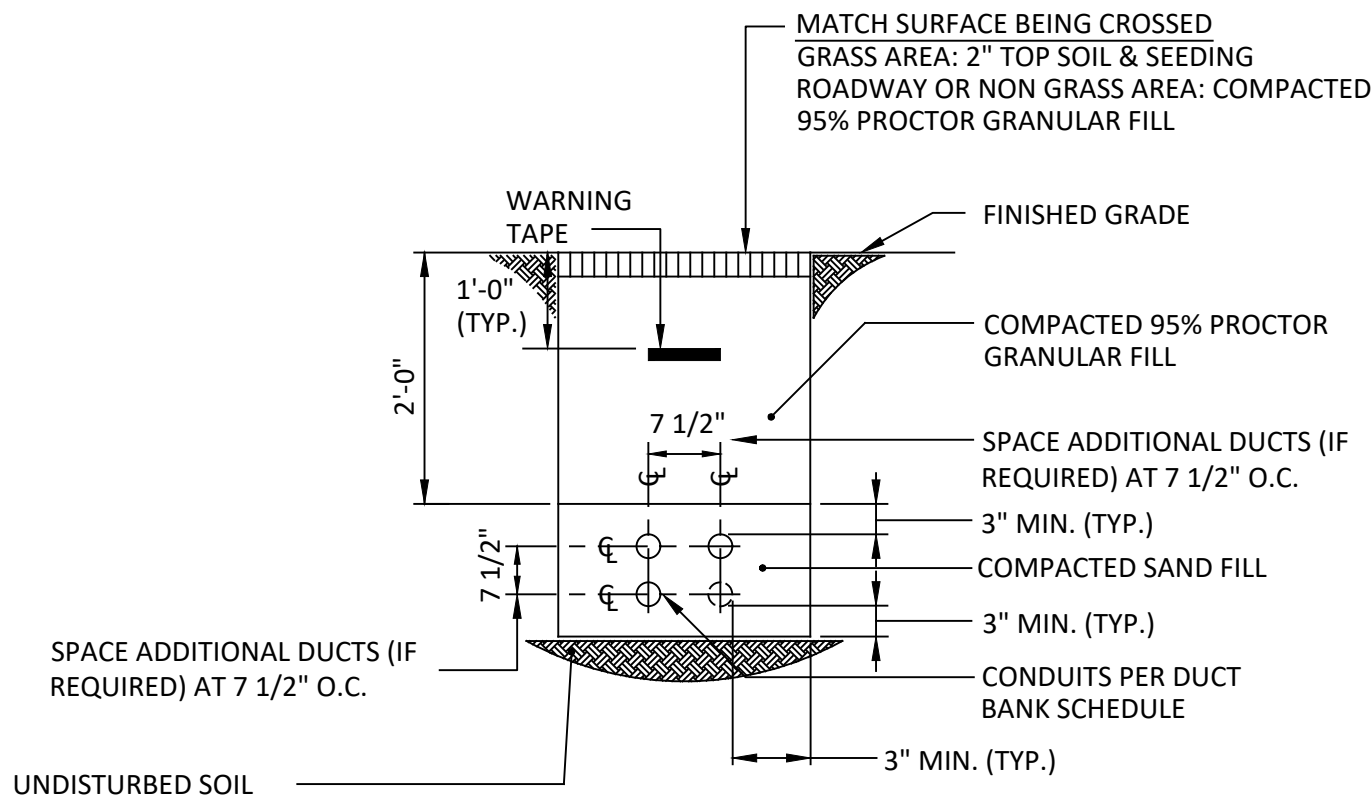
TRANSFORMER GROUNDING DETAIL

NOT TO SCALE



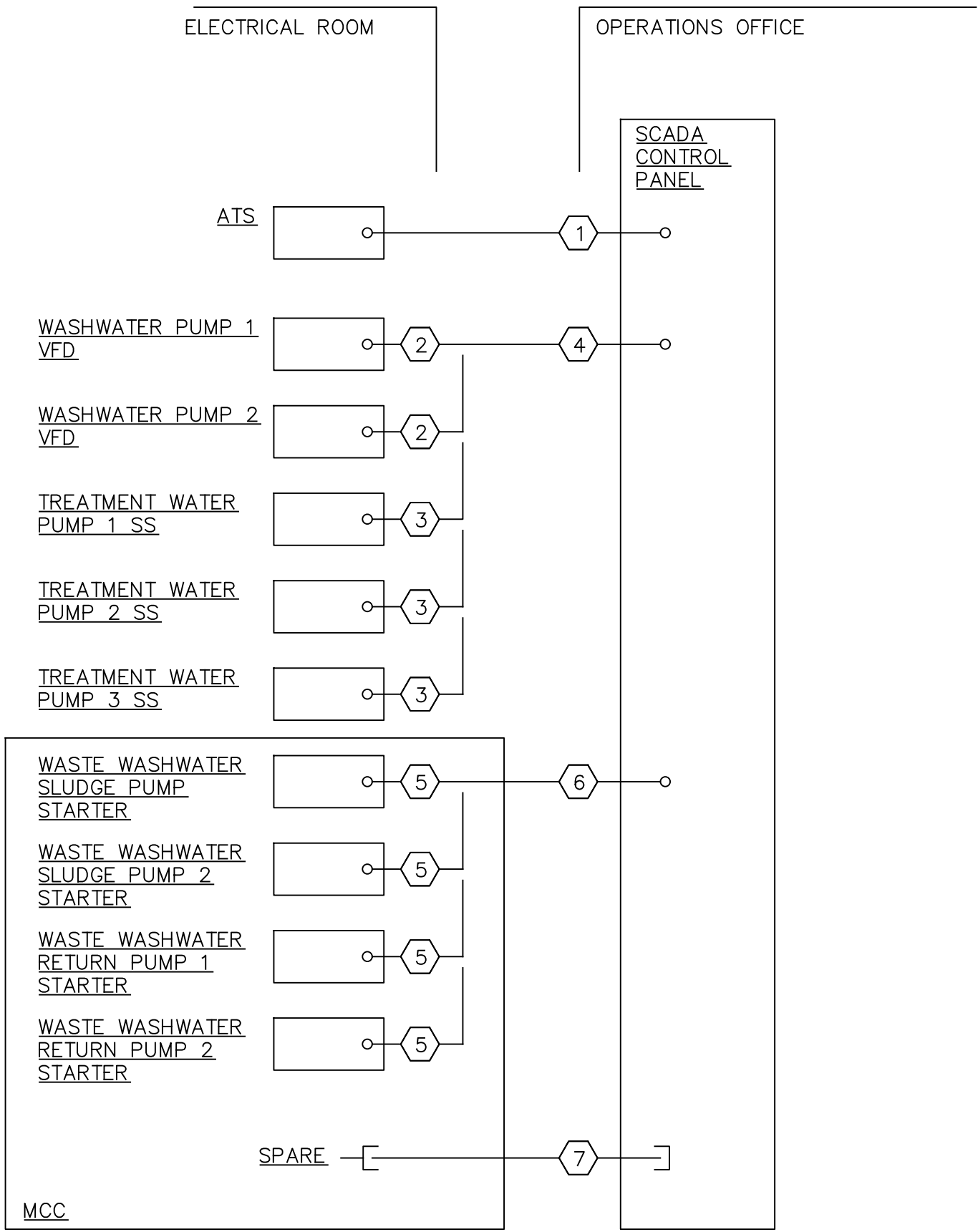
CONCRETE DUCT BANK SECTION

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GENERAL NOTES, SCADA DIAGRAM

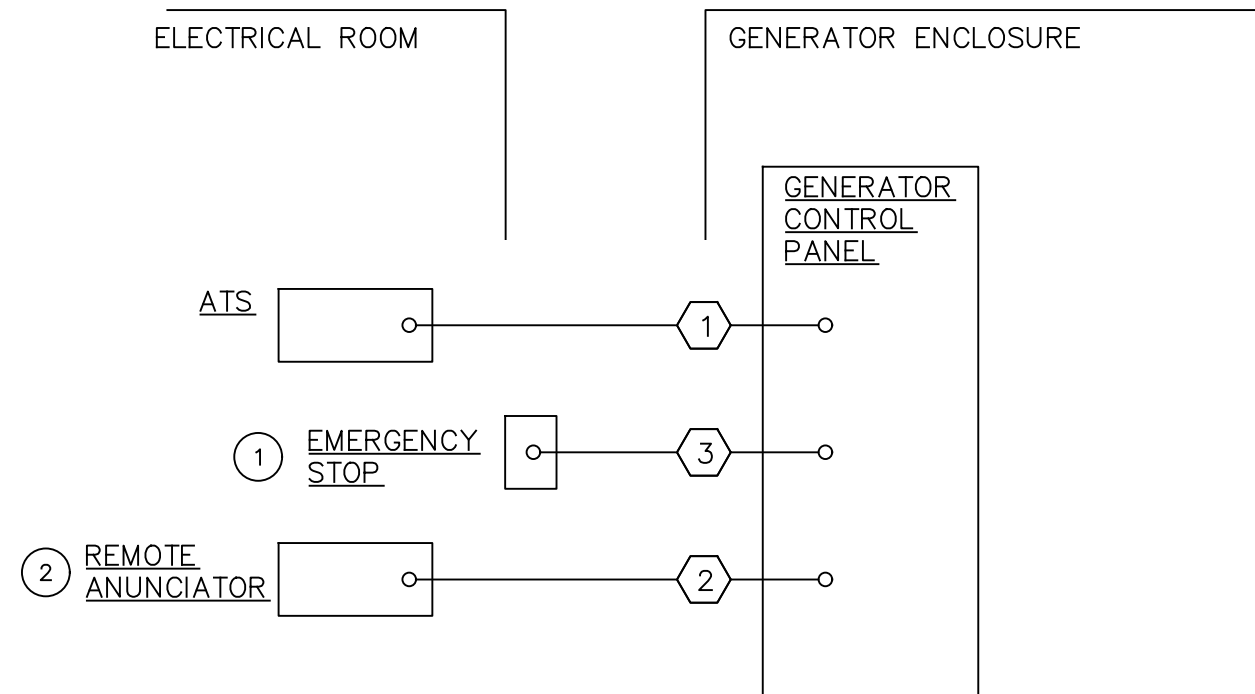
- SEE SITE PLAN FOR LOCATION OF SCADA CONTROL PANEL.
- TERMINATIONS AT SCADA PANEL TO BE PROVIDED BY OWNER THROUGH THEIR SCADA INTEGRATOR. COORDINATE ALL WORK WITH OWNER.
- ALL EQUIPMENT & CIRCUITING SHOWN AS BASIS OF DESIGN. CONTRACTOR SHALL CONFIRM ALL CIRCUITING WITH APPROVED EQUIPMENT SHOP DRAWINGS.

CIRCUIT SCHEDULE, SCADA DIAGRAM

- 6#14 IN 3/4"C
- 6#14, 2#18STP IN 3/4"C
- 6#14 IN 3/4"C
- 30#14, 4#18STP IN 1 1/2"C
- 4#14
- 16#14 IN 3/4"C
- PULL STRING IN 1"C

SCADA DIAGRAM

NOT TO SCALE



GENERAL NOTES, GENERATOR CONTROL DIAGRAM

- CONTRACTOR TO PROVIDE A COMPLETE OPERATIONAL SYSTEM AS COORDINATED WITH GENERATOR AND TRANSFER SWITCH.
- SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- ALL EQUIPMENT & CIRCUITING SHOWN AS BASIS OF DESIGN. CONTRACTOR SHALL CONFIRM ALL CIRCUITING WITH APPROVED EQUIPMENT SHOP DRAWINGS.

KEYED NOTES, GENERATOR CONTROL DIAGRAM

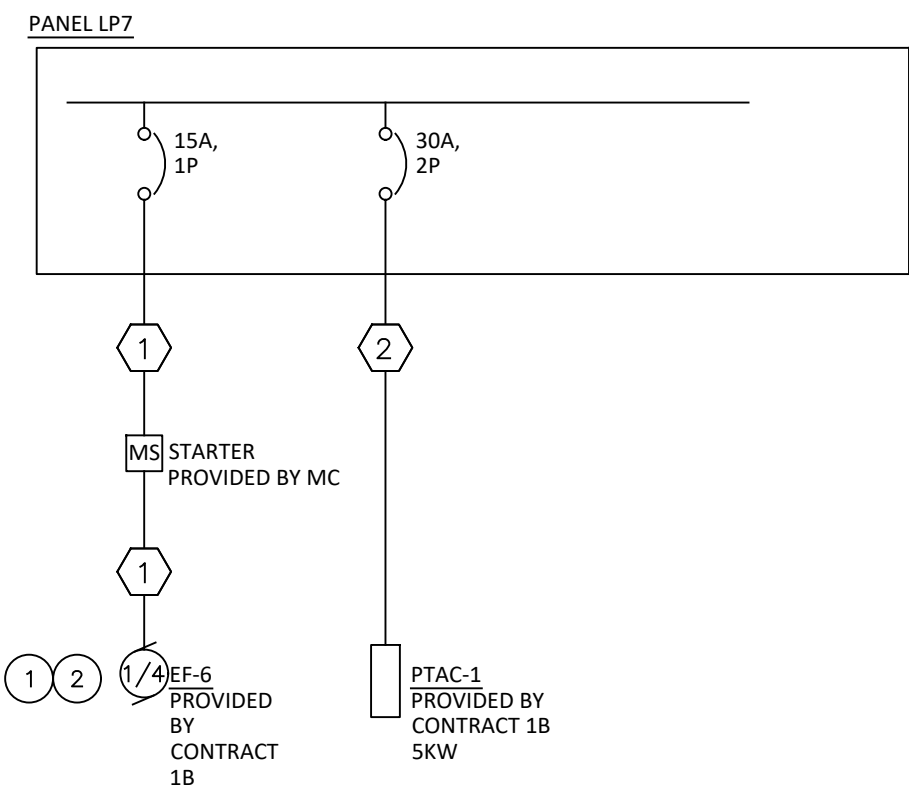
- SUPPLIED WITH GENERATOR. INSTALL ON EXTERIOR WALL OF CONTROL BUILDING IN LOCATION APPROVED BY AHJ.
- SUPPLIED WITH GENERATOR. INSTALL IN ELECTRICAL ROOM IN LOCATION COORDINATED WITH OWNER.

CIRCUIT SCHEDULE, GENERATOR CONTROL DIAGRAM

- 14#14 IN 1"C
- 1#18STP IN 3/4"C
- 2#14 WITH 1#14G IN 3/4"C

GENERATOR CONTROL DIAGRAM

NOT TO SCALE



CIRCUIT SCHEDULE, ELECTRICAL ROOM HVAC DIAGRAM

- 2#12,1#12G IN 3/4"C
- 2#8,1#10G IN 3/4"C

KEYED NOTES, ELECTRICAL ROOM HVAC DIAGRAM

- EF-6 CONTROLLED BY WALL SWITCH PROVIDED BY CONTRACT 1B.
- EF-6 INTERLOCKED WITH IL-1 BY MECHANICAL CONTRACTOR. ALL CIRCUITING FOR IL-1 BY CONTRACT 1B.

ELECTRICAL ROOM HVAC DIAGRAM

NOT TO SCALE

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LIGHT FIXTURE SCHEDULE											
DESIGNATION	TYPE	MANUFACTURER	CATALOG NUMBER	LUMENS	LIGHT DISTRIBUTION	LIGHT COLOR	VOLTS	WATTS	INSTALLATION	FINISH / COLOR	REMARKS
L1	4' LINEAR	HE WILLIAMS	80R-4-L52-840-DIM-UNV	5,200	N/A	4000K	120	37.6	SURFACE	WHITE	
L2	4' LINEAR	HE WILLIAMS	80R-4-L72-840-DIM-UNV	7,200	N/A	4000K	120	54.3	SUSPENDED	WHITE	
L3	4' LINEAR	HE WILLIAMS	80R-4-L72-840-EM/10W-DIM-UNV	7,200	N/A	4000K	120	54.3	SUSPENDED	WHITE	1
E1	EXIT SIGN AND EMERGENCY LIGHT	COOPER	LPXC50SD	N/A	N/A	RED	120	2.2	WALL	WHITE	1, 2
E2	EMERGENCY LIGHT	COOPER	SEL50SD	N/A	N/A	N/A	120	1.2	WALL	WHITE	1, 2
WP1	WALL PACK	DECO	D464-L-42-40-UNV-Z-T-E	4,250	N/A	4000K	120	42	WALL	BRONZE	1, 3

GENERAL NOTES, LIGHT FIXTURE SCHEDULE

1. MODEL IS GIVEN FOR QUALITY ONLY, SUBSTITUTE LIGHT FIXTURES SHALL BE OF EQUAL OR GREATER QUALITY.
2. ALL FIXTURES TO BE PROVIDED WITH REQUIRED MOUNTING HARDWARE FOR INSTALLATION TYPE SHOWN.

REMARKS

1. PROVIDE WITH EMERGENCY BATTERY.
2. FIXTURE SHALL BE SELF DIAGNOSTIC.
3. PROVIDE WITH INTEGRAL PHOTOCELL.

CIRCUIT SCHEDULE			
DESIGNATION 	CONDUCTORS (SETS-QUANTITY#SIZE)	CONDUIT (SETS-DIAMETER)	REMARKS
1	3#1/0 WITH FULL 100% NEUTRAL, 34.5KV, EPR	1-5"	1
2	8 SETS OF 4#500, 1#500G	10-5"	2
3	8 SETS OF 4#500, 1#500G	8-5"	
4	3 SETS OF 4#600M 1#4/0G	4-5"	1
5	8 SETS OF 4#500, 1#500G	8-5"	
6	3#6, 1#10G	1"	
7	4#2, 1#6G	1 1/2"	
8	4#6, 1#10G	1"	
9	4#2, 1#6G	1 1/2"	
10	4#2, 1#6G	REUSE EXISTING	
11	2#10, 1#10G	3/4"	
12	2#10, 1#10G	REUSE EXISTING	
13	3#400, 1#2G	3"	
14	3#400, 1#2G	REUSE EXISTING	
15	3#2, 1#6G	1 1/2"	
16	4#4, 1#8G	REUSE EXISTING	
17	2#10, 1#10G	3/4"	
18	3#2, 1#6G	1 1/2"	
19	3#2, 1#6G	1 1/2"	
20	3#2, 1#6G	REUSE EXISTING	
21	3#2, 1#6G	1 1/2"	
22	3#2, 1#6G	REUSE EXISTING	
23	3#8, 1#10G	1"	
24	3#8, 1#10G	REUSE EXISTING	
25	3#10, 1#10G	3/4"	
26	3#10, 1#10G	3/4"	
27	3#10, 1#10G	3/4"	
28	3#10, 1#10G	3/4"	
29	3#1/0, 1#6G (1000V, SHIELDED VFD CABLE)	3"	
30	NOT USED	-	
31	2 SETS OF 3#4/0, 1#1/0G	2-2"	
32	2 SETS OF 3#4/0, 1#1/0G	2-2"	
33	3#10, 1#10G	3/4"	
34	3#10, 1#10G	REUSE EXISTING	

CIRCUIT SCHEDULE NOTE

1. VERIFY EXISTING CIRCUIT SIZES (WIRE AND CONDUIT) WHERE FEEDING EXISTING LOADS.

CIRCUIT SCHEDULE REMARKS

1. ONE CONDUIT TO BE USED AS SPARE.
2. TWO CONDUITS TO BE USED AS SPARE.

CONDUIT SCHEDULE			
BUILDING OR AREA	AREA DESCRIPTION	CONDUIT TYPE	REMARKS
GENERAL (ALL AREAS)	BUILDING INTERIOR	EMT	
	EXTERIOR EXPOSED	RGS	
	RISERS FROM BELOW GRADE	RGS	
	IN SLAB/CONCRETE ENCASEMENT	SCHEDULE 40 PVC	
	SAND-FILL DUCT BANK	SCHEDULE 80 PVC	

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