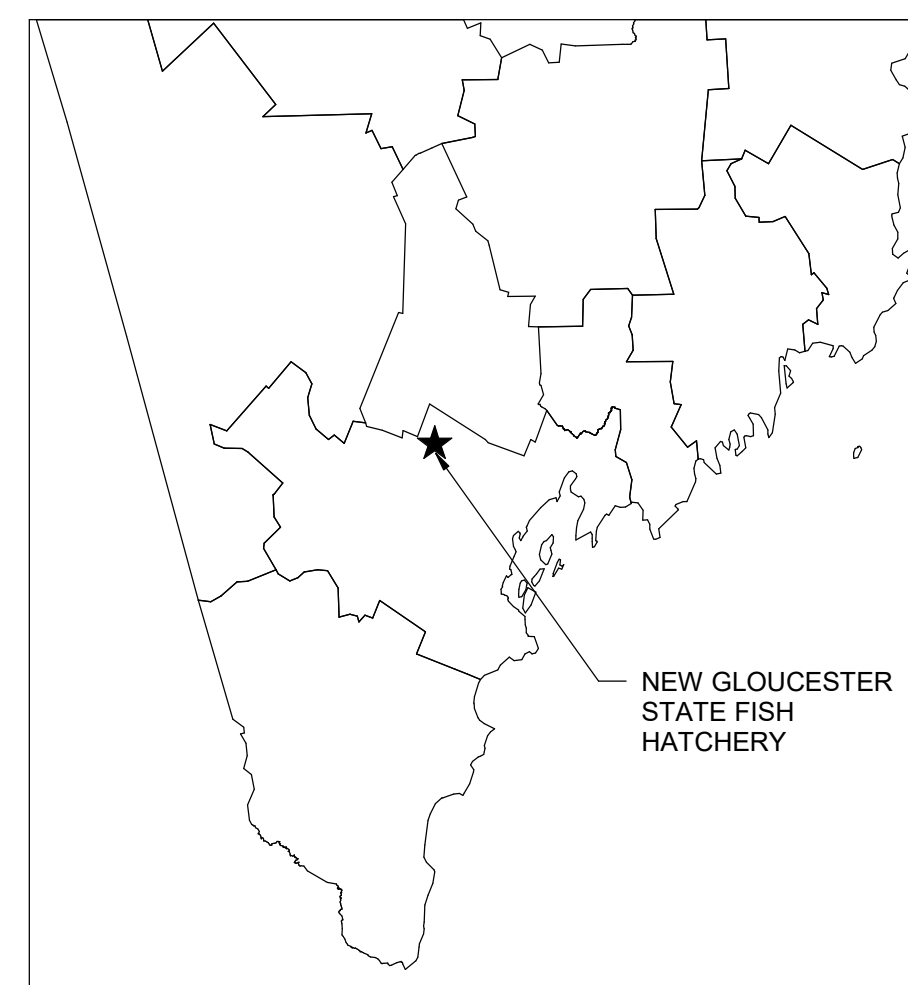


State Location Map



Vicinity Map

Contract Drawings For

NEW GLOUCESTER STATE FISH HATCHERY

Phase III Facility Conversion

New Gloucester, Maine

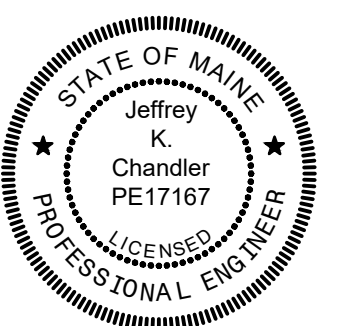
HDR Project No. 10353741

BGS Project No. 3289

Other Project No. 312

ISSUED FOR BID

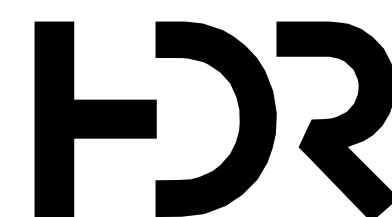
Date: MAY 03, 2024



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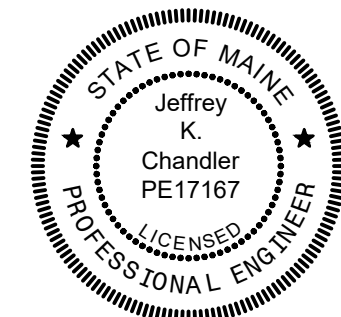
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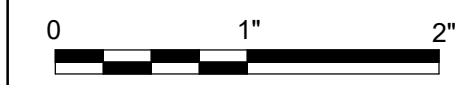


05/03/2024	ISSUED FOR BID
ISSUE	DATE DESCRIPTION

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
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ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion



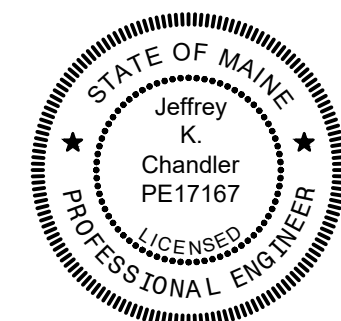
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SHEET	00G-001
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A/C	AIR CONDITIONING	CLKG	CAULKING	F TO F	FACE TO FACE	ID	INSIDE DIAMETER, INTERIOR DIMENSION	N	NORTH, NEUTRAL	R&R	REMOVE AND REPLACE	TOB	TOP OF BOLT, TOP OF BANK,
A/E	ARCHITECT/ENGINEER	CLR	CLEAR	F&B	FACE AND BYPASS	IE	INVERT ELEVATION, FOR EXAMPLE	NA	NOT APPLICABLE	R&S	REMOVE AND SALVAGE	TOC	TOP OF BEAM, TOP OF BERM
A	AMPERE	CMH	COMMUNICATION MANHOLE	FAB	FABRICATE	IF	INSIDE FACE	NAT	NATURAL, NATIONAL	R	RADIUS, REGISTER, RISER	TOD	TOP OF CURB, TOP OF CONCRETE
AB	ANCHOR BOLT	CMP	CORRUGATED METAL PIPE	FB	FLOOR BEAM	IH	INTAKE HOOD	NC	NORMALLY CLOSED	RA	RETURN AIR	TOF	TOP OF DUCT
ABAN	ABANDON	CMU	CONCRETE MASONRY UNIT	FBD	FIBERBOARD	IMP	IMPACT	NEG	NEGATIVE	RB	RESILIENT BASE, ROCK BERM	TOG	TOP OF FOOTING
ABC	AGGREGATE BASE COURSE	CO	CLEANOUT, CONCRETE OPENING	FBG	FIBERGLASS	IN	INCH	NF	NEAR FACE, NON-FUSED	RCPT	RECEPTACLE	TOL	TOP OF GRATING
ABT	ABOUT	COL	COLUMN	FBM	BOARD FOOT MEASURE	INC	INCLUDE, INCANDESCENT	NIC	NOT IN CONTRACT	RD	ROOF DRAIN	TOL	TOLERANCE, TOP OF LEDGER
AC	ALTERNATING CURRENT	COM	COMMON	FBO	FURNISHED BY OWNER	INF	INFLUENT	NO	NORMALLY OPEN, NUMBER	REC	RECESS	TOM	TOP OF MASONRY
ACK	ACKNOWLEDGE	COMB	COMBINATION	FC	FLUSHING CONNECTION	INSTR	INSTRUMENTATION	NOM	NOMINAL	RECD	RECEIVED	TOP	TOP OF PLATE
ACP	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT	COMM	COMMUNICATION	FCA	FLANGED COUPLING ADAPTER	INSUL	INSULATION	NPS	NOMINAL PIPE SIZE	RECT	RECTANGULAR	TOPO	TOPOGRAPHY
ACST	ACOUSTIC	COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE	FD	FLOOR DRAIN	INT	INTERIOR, INTERSECTION	NPT	NATIONAL PIPE THREAD	RED	REDUCER	TOS	TOP OF SLAB, TOP OF STEEL, TOE OF SLOPE
AD	ADDENDUM, AREA DRAIN	CON	CONCENTRIC	FDC	FLEXIBLE DUCT CONNECTION	INTR	INTERMEDIATE, INTERIOR	NS	NEAR SIDE	REF	REFERENCE	TOW	TOP OF WALL
ADDL	ADDITIONAL	CONC	CONCRETE	FDR	FEEDER	INV	INVERT	NWS	NOT TO SCALE	REINF	REINFORCING	TP	TOILET PARTITION, TELEPHONE POLE,
ADH	ADHESIVE	CONN	CONNECTION	FDTN	FOUNDATION	IPS	IRON PIPE SIZE	REM	REMOVE	REQD	REQUIRED	TPD	TOILET PLATE, TRAP PRIMER
ADJ	ADJUSTABLE, ADJACENT	CONST	CONSTRUCTION	FE	FIRE END	IPT	INTERNAL PIPE THREAD	RESIL	RESILIENT	RET	RETAINMENT	TPG	TOILET PAPER DISPENSER
ADJ	AMP FRAME, AMP FUSE	CONT	CONTINUOUS	FEC	FIRE EXTINGUISHER CABINET	IR	INSIDE RADIUS, IRON ROD	RETN	RETAINING, RETURN	REV	REVISION, REVERSE	TR	TIPPING, THROUGH PLATE GIRDER
AF	AFRAME, AMP FUSE	COOR	COORDINATE	FES	FLARED END SECTION	IRR	IRRIGATION	RF	RESILIENT FLOORING	RF	ROOFING	TRANS	TRANSITION
AFF	ABOVE FINISH FLOOR	CORR	CORROSIVE, CORRUGATED	FEXT	FIRE EXTINGUISHER	ISO	ISOMETRIC	RFG	ROOFING	RFL	REFLECTED, REFLECTOR	TRD	TRENCH DRAIN
AFG	ABOVE FINISH GRADE	CP	CHECKER PLATE, CONTROL POINT	FF	FAR FACE, FACTORY FINISH, FLAT FACE	JB	JUNCTION BOX	RGS	RIGID GALVANIZED STEEL	RH	ROUGH	TYP	TYPICAL
AGGR	AGGREGATE	CPLG	COUPLING	FG	FINISHED GRADE	JCT	JUNCTION	RL	RELATIVE HUMIDITY	RLFA	RELIEF AIR	UG	UNDERGROUND
AI	AREA INLET, ANALOG INPUT	CRL	CORROSION-RESISTANT LINING	FH	FIRE HYDRANT	JF	JOINT FILLER	RND	ROUGH	RNG	RUNNING	ULT	ULTIMATE
AIC	AMPS INTERRUPTING CAPACITY	CSC	COMPRESSION SLEEVE COUPLING	FIG	FIGURE	JST	JOIST	OPNG	OPENING	OH	OVERHEAD	UNFN	UNFINISHED
ALIG	ALIGNMENT	CSK	COUNTERSINK	FIN	FINISH	JT	JOINT	OPP	OPPOSITE	OPT	OPTIONAL	UNO	UNLESS NOTED OTHERWISE
ALT	ALTERNATE, ALTITUDE	CSS	CLINIC SERVICE SINK	FJT	FLUSH JOINT	K	KIP	OR	ORBITAL	ORD	OVERFLOW	UTIL	UTILITY
ALUM	ALUMINUM	CT	CERAMIC TILE	FL	FLOW, FLOW LINE	KB	KNEE BRACE	ORF	ORIGINAL GROUND	OVHG	OVERHANG		
AM	ACOUSTICAL MATERIAL	CTJ	CONTRACTION JOINT	FLEX	FLEXIBLE	KCMIL	THOUSAND CIRCULAR MILS	OZ	OUNCE	P	PAINT		
AMB	AMBIENT	CTR	CENTER	FLG	FLANGE	KD	KNOCK DOWN	PA	PUBLIC ADDRESS	PA	PARALLEL, PARAPET		
ANC	ANCHOR	CTRL	CONTROL	FLOR	FLUORESCENT	KO	KNOCK OUT	PAR	PARALLEL, PARAPET	PB	PANIC BAR, PULL BOX		
AO	ANALOG OUTPUT	CVT	CULVERT	FLR	FLOOR	KSI	KIPS PER SQUARE INCH	PBD	PARTICLE BOARD	PB	PANIC BAR, PULL BOX		
AP	ACCESS PANEL	CW	COPPER, CUBIC	FLS	FLASHING, FLUSH	KW	KILOWATT	PC	POINT OF CURVE, PIECE, PRECAST	PBD	PARTICLE BOARD		
APRX	APPROXIMATE	CU	CLOCKWISE	FN	FENCE	L	ANGLE, LENGTH, LAVATORY, LINTEL	PCF	POUND PER CUBIC FOOT	PCF	POUND PER CUBIC FOOT		
APVD	APPROVED	CY	CUBIC YARD	FOB	FINISHED OPENING	LAD	LADDER	PCT	PERCENT	PE	PLAIN END		
ARCH	ARCHITECTURAL	D	PENNY (NAIL MEASURE)	FOC	FLAT ON BOTTOM	LAM	LAMINATE	PE	PEDESTAL	PEN	PENETRATION		
ASSY	ASSEMBLY	DB	DUCT BANK, DECIBEL, DRY BULB	FOF	FACE OF CONCRETE, FACE OF CURB	LATL	LATERAL	PERF	PERFORATED	PERM	PERMANENT		
AT	ACOUSTICAL TILE, AMP TRIP	DBA	DEFORMED BAR ANCHOR	FOS	FACE OF FINISH	LB	LAG BOLT, POUND	PERP	PERPENDICULAR	PF	LOW POINT		
ATC	ACOUSTICAL TILE CEILING	DBL	DOUBLE	FOT	FACE OF STUDS	LCTB	LIQUID CHALK AND TACK BOARD	PF	LOW POINT	PFMU	PREFABRICATED MASONRY UNIT		
ATM	ATMOSPHERE	DC	DIRECT CURRENT	FPT	FEMALE PIPE THREAD	LDG	LANDING	PH	PHASE	PI	POINT OF INTERSECTION		
AUTO	AUTOMATIC	DEG	DEGREE	FR	FRAME	LDR	LEADER	PKG	PACKAGE	PL	PLATE, PROPERTY LINE, PRECAST LINTEL		
AUX	AUXILIARY	DEG C	DEGREE CENTIGRADE	FRP	FIBERGLASS REINFORCED PLASTIC	LE	LIFTING EYE	PLAS	PLASTER	PLAT	PLATFORM		
AVE	AVENUE	DEG F	DEGREE FAHRENHEIT	FRM	FIRE RETARDANT TREATED MATERIAL	LF	LINEAR FOOT	PLAT	PLATFORM	PLBG	PLUMBING		
AVG	AVERAGE	DEMO	DEMOLITION	FS	FLOOR SINK, FAR SIDE	LG	LONG	PLF	POUNDS PER LINEAR FOOT	PLG	PLUMBING		
AWG	AMERICAN WIRE GAGE	DEP	DEPRESSED	FT	FEET, FOOT	LH	LEFT HAND	PNEU	PNEUMATIC	PLF	POUNDS PER LINEAR FOOT		
AWT	ACOUSTICAL WALL TILE	DEPT	DEPARTMENT	FTG	FOOTING, FITTING	LI	LIQUID	POL	POLISH	POS	POSITIVE, POSITION		
B TO B	BACK TO BACK	DET	DETAIL	FUR	FURRED, FURRING	LIQ	LIQUID	PP	POLYPROPYLENE, POWER POLE	PRC	POINT OF REVERSE CURVATURE		
BAL	BALANCE	DI	DROP INLET, DUCTILE IRON, DIGITAL INPUT	FURN	FURNITURE, FURNISH	LLH	LONG LEG HORIZONTAL	PREF	PREFINISHED	PREFAB	PREFABRICATED		
BBD	BULLETIN BOARD	DIA	DIAMETER	FUT	FUTURE	LLV	LONG LEG VERTICAL	PRELIM	PRELIMINARY	PREP	PREPARE		
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE	DIAG	DIAGONAL, DIAGRAM	FV	FACE VELOCITY	LMLU	LIQUID MARKER LECTURE UNIT	PREP	PREPARED	PRES	PRESSURE		
BD	BOARD	DIFF	DIFFERENTIAL, DIFFERENCE	FW	FIELD WELD, FIRE WALL	LNG	LONGITUDINAL	PRI	PRIMARY	PRI	PROPERTY, PROPOSED		
BE	BOTH ENDS, BELL END	DIM	DIMENSION	FWD	FORWARD	LOC	LOCATION	PROP	PROTECTION	PROT	PROTECTION		
BF	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET	DISCH	DISCHARGE	FWE	FURNISHED WITH EQUIPMENT	LP	LOW POINT	PS	PIPE SUPPORT	PS	POUNDS PER SQUARE FOOT		
BITUM	BITUMINOUS	DIST	DISTANCE, DISTRIBUTION	FXTR	FIXTURE	LPS	LOW-PRESSURE SODIUM	PSF	POUNDS PER SQUARE INCH	PSI	POUNDS PER SQUARE INCH		
BKG	BACKING	DIV	DIVISION	G	GRILLE, GROUND	LT	LONG RADIUS	PSIG	POUNDS PER SQUARE INCH ABSOLUTE	PSIG	POUNDS PER SQUARE INCH ABSOLUTE		
BL	BASE LINE	DL	DEAD LOAD	GA	GAGE (METAL THICKNESS)	LT	LEFT	PST	PRESTRESSED	PT	POINT OF TANGENCY		
BLDG	BUILDING	DLM	DOUBLE MECHANICAL JOINT	GAL	GALVANIZED	LTD	LIMITED	PTN	PARTITION	PVC	PVC		
BLK	BLOCK	DMPF	DAMP PROOFING	GALV	GALVANIZED	LTG	LIGHTING	PVC-RGS	PVC COATED RGS	PVMT	PAVEMENT		
BLKG	BLOCKING	DN	DOWN	GB	GRAB BAR, GRADE BREAK	LTL	LINTEL	PWD	PLYWOOD	PWJ	PLYWOOD WEB JOIST		
BM	BENCHMARK, BEAM	DO	DISSOLVED OXYGEN, DIGITAL OUTPUT, DITTO	GC	GROOVED COUPLING	LTVG	LIGHTNING	PZ	PIEZOMETER	Q	RATE OF FLOW		
BOC	BACK OF CURB	DP	DEPTH	GD	GUARD	LV	LOW VOLTAGE	QT	QUARRY TILE	QTR	QUARTER		
BOD	BOTTOM OF DUCT	DPDT	DOUBLE POLE, DOUBLE THROW	GEN	GENERAL	LVL	LAMINATED VENEER LUMBER	QTY	QUANTITY	QUAL	QUALITY		
BOG	BOTTOM OF GRILLE	DPST	DOUBLE POLE, SINGLE THROW	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	LVR	LOUVER						
BOL	BOTTOM OF LOUVER, BOLLARD	DS	DOWN SPOUT	GFMU	GROUND FACE MASONRY UNIT	LW	LIGHTWEIGHT						
BOP	BOTTOM OF PIPE	DT	DOUBLE TEE, DRIP TRAP ASSEMBLY	GG	GUTTER GRADE	LWC	LIGHTWEIGHT CONCRETE						
BOR	BOTTOM OF REGISTER	DUP	DUPLICATE	GJ	GROOVED JOINT	LWL	LOW WATER LEVEL						
BOT	BOTTOM	DWG	DRAWING	GL	GLASS	MA	MIXED AIR						
BOU	BOTTOM OF UNIT	DWL	DOWEL	GLB	GLASS BLOCK, GLULAM BEAM	MACH	MACHINED						
BP	BASE PLATE	DWR	DRAWER	GND	GROUND	MAINT	MAINTENANCE						
BRG	BEARING	E	EAST	GP	GUY POLE	MAN	MANUAL						
BRGP	BEARING PLATE	EA	EACH, EXHAUST AIR	GR	GRADE	MATL	MATERIAL						
BRKT	BRACKET	EC	ELECTRICAL CONTRACTOR	GRTG	GRATING	MAX	MAXIMUM						
BS	BOTH SIDES	ECC	ECCENTRIC	GSB	GYPSUM SHEATHING BOARD	GT	GREASE TRAP						
BTU	BRITISH THERMAL UNIT	ED	EQUIPMENT DRAIN	GT	GREASE TRAP	GVL	GRAVEL						
BTW	BETWEEN	EDB	ELECTRICAL DUCT BANK	GW	GUY WIRE	GW	GUY WIRE						
BTWLD	BUTT WELD	EE	EACH END	GW	GUY WIRE	GWB	GYPSUM WALLBOARD						
BU	BELL UP, BUILT-UP	EF	EACH FACE	GYP	GYPSUM WALLBOARD	H	HIGH						
BUR	BUILT-UP ROOFING	EFF	EFFLUENT, EFFICIENCY	H	HIGH	HB	HOSE BIBB						
BIW	BOTH WAYS	EHH	ELECTRICAL HANDHOLE	H	HIGH	HBD	HARDBOARD						
BYP	BYPASS	EIFS	EXTERIOR INSULATION & FINISH SYSTEM	H	HIGH	HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL CURVE, HORIZONTAL CENTERLINE						
CTOC	CENTER TO CENTER	EJ	EXPANSION JOINT	H	HIGH	HD	HEAD, HOT DIP						
C&G	CURB AND GUTTER	EL	ELBOW, ELEVATION	H	HIGH	HDR	HEADER						
C	CHANNEL SHAPE, CENTIGRADE, CONDUIT	ELEC	ELECTRICAL	H	HIGH	HDW	HARDWARE						
CAB	CABINET	EMBD	EMBEDDED	H	HIGH	HEX	HEXAGONAL						
CAP	CAPACITY	EMER	EMERGENCY	H	HIGH	HGR	HANGER						
CAT	CATALOG, CATEGORY	EMH	ELECTRICAL MANHOLE	H	HIGH	HH	HANDHOLE						
CAV	CAVITY	ENCL	ENCLOSURE	H	HIGH	HID	HIGH-INTENSITY DISCHARGE						
CB	CATCH BASIN	ENGR	ENGINEER	H	HIGH	HM	HOLLOW METAL						
CCB	CONCRETE BLOCK	ENR	ENTRANCE	H	HIGH	HORIZ	HORIZONTAL						
CCW	COUNTER CLOCKWISE	EQ	EQUAL	H	HIGH	HP	HIGH POINT, HORSEPOWER						
CDF	CONTROLLED-DENSITY FILL	EQUIP	EQUIPMENT	H	HIGH	HPC	HORIZONTAL POINT OF CURVATURE						
CE	CONCRETE EDGE	EQUIV	EQUIVALENT	H	HIGH	HPS	HIGH-PRESSURE SODIUM						
CER	CERAMIC	ES	EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER	H	HIGH	HPT	HORIZONTAL POINT OF TANGENCY						
CF	CUBIC FEET (FOOT)	ESW	EMERGENCY SHOWER AND EYE WASH	H	HIGH	HR	HOSE REEL, HOUR						
CFL	COUNTER FLASHING	EST	ESTIMATE	H	HIGH	HS	HEADED STUD, HIGH STRENGTH						
CHBD	CHALKBOARD	EW	EACH WAY, EMERGENCY EYE/FACE WASH	H	HIGH	HSS	HOLLOW STRUCTURAL SHAPE						
CHD	CHORD	EWC	ELECTRIC WATER COOLER	H	HIGH	HT	HEIGHT						
CHFR	CHAMFER	EWFB	EACH WAY, EACH FACE	H	HIGH	HTG	HEATING						
CHH	COMMUNICATION HANDHOLE	EWTB	EACH WAY, TOP AND BOTTOM	H	HIGH	HV	HIGH VOLTAGE						
CHP	CURB INLET	EXC	EXCAVATION	H	HIGH	HVAC	HEATING, VENTILATING AND AIR CONDITIONING						
CI	CAST-IN-PLACE	EXH	EXHAUST	H	HIGH	HWD	HARDWOOD						
CIP	CONCRETE INTERLOCKING PAVER	EXP	EXPANSION, EXPOSED	H	HIGH	HWL	HIGH WATER LEVEL						
CIRC	CIRCULATION, CIRCULAR	EXST	EXISTING	H	HIGH	HYD	HYDRAULIC						
CJ	CONSTRUCTION JOINT	EXT	EXTERIOR, EXTERNAL, EXTENSION	H	HIGH	HZ	HERTZ, CYCLES PER SECOND						
CKT	CIRCUIT												
CL	CENTERLINE, CLASS, CLOSE												
CLG	CEILING												

PROJECT MANAGER ANDREW GURSKI

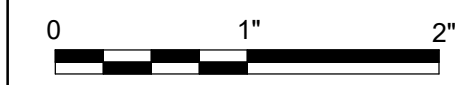
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NEW GLOUCESTER STATE FISH HATCHERY Phase III Facility Conversion

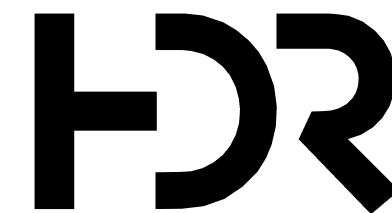
ABBREVIATIONS

- THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
- LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
- ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN INCLUDED OR INCLUDING, AND "REIN" MAY MEAN REINFORCE OR REINFORCING.
- SEE INSTRUMENTATION AND GENERAL LEGEND SHEETS FOR PROJECT-SPECIFIC EQUIPMENT AND PIPING SYSTEM ABBREVIATIONS.



FILENAME 10353741-00-G.rvt
SCALE NONE

SHEET
00G-002

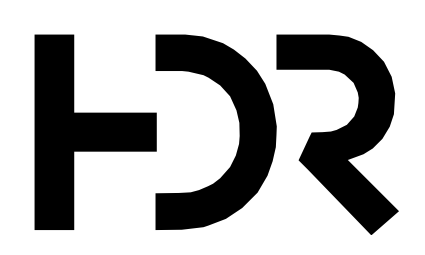


ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT NUMBER 10353741

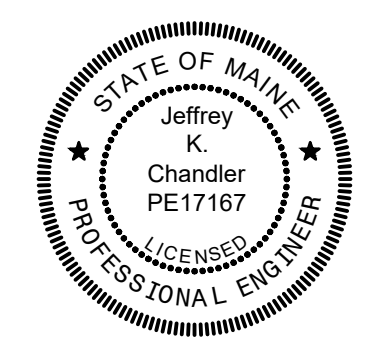
MATERIALS IN PLAN/SECTION	GENERAL SYMBOLOGY	IDENTIFICATION SYMBOLOGY	SHEET NAMING CONVENTION
<p>ACOUSTICAL CEILING TILE (SECTION)</p> <p>ASPHALT (PLAN OR SMALL-SCALE SECTION)</p> <p>ASPHALT (LARGE-SCALE SECTION)</p> <p>BATT INSULATION (SECTION)</p> <p>BRICK MASONRY (PLAN AND/OR SECTION)</p> <p>CHECKERED PLATE (PLAN)</p> <p>CONCRETE (PLAN AND/OR SECTION)</p> <p>CONCRETE MASONRY (PLAN AND/OR SECTION)</p> <p>DEMOLITION (PLAN AND/OR SECTION)</p> <p>EARTH (SECTION)</p> <p>FILTER POINT MAT (PLAN)</p> <p>FINISHED WOOD (SECTION)</p> <p>GLULAM LUMBER (SECTION)</p> <p>GRANULAR FILL (SECTION)</p> <p>GRATING (SECTION)</p> <p>GRATING (PLAN)</p> <p>GROUT (SECTION)</p> <p>GYPSUM BOARD (SECTION)</p> <p>METAL (SECTION)</p> <p>ORIENTED STRAND BOARD (SECTION)</p> <p>PARTICLE BOARD (SECTION)</p> <p>PLYWOOD (LARGE-SCALE SECTION)</p> <p>PLYWOOD (SMALL-SCALE SECTION)</p> <p>PRECAST CONCRETE (PLAN AND/OR SECTION)</p> <p>RIGID INSULATION (SECTION)</p> <p>RIPRAP (PLAN AND/OR SECTION)</p> <p>SAND (SECTION)</p> <p>SOD (SECTION)</p> <p>WEEP JOINT MORTAR PROTECTION SYSTEM (SECTION)</p> <p>WOOD - CONTINUOUS (SECTION)</p> <p>WOOD - BLOCKING (SECTION)</p>	<p>ARROW INDICATES DIRECTION OF PLAN NORTH</p> <p>NORTH ARROW</p> <p>PLAN 1/4" = 1'-0" PLAN TITLE</p> <p>ARROW INDICATES DIRECTION OF SECTION CUT</p> <p>SECTION LETTER</p> <p>SHEET WHERE SECTION IS LOCATED</p> <p>FULL BUILDING SECTION CUT MARKER</p> <p>SECTION LETTER</p> <p>FLAG INDICATES DIRECTION OF SECTION CUT</p> <p>SHEET WHERE SECTION IS LOCATED</p> <p>SECTION CUT MARKER</p> <p>SECTION LETTER</p> <p>SECTION 3/8" = 1'-0" SHEET WHERE SECTION VIEW IS FIRST CUT *</p> <p>SECTION TITLE</p> <p>DETAIL NUMBER</p> <p>SHEET WHERE DETAIL IS LOCATED *</p> <p>DETAIL MARKER</p> <p>FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.</p> <p>XXXXXXXX</p> <p>DETAIL MARKER</p> <p>FOR REFERENCING DETAILS BOUND IN SPECIFICATIONS OR SEPARATE VOLUME.</p> <p>DETAIL NUMBER</p> <p>DETAIL 1/4" = 1'-0" SHEET WHERE DETAIL IS LOCATED *</p> <p>DETAIL TITLE</p> <p>* EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH (-). 1) FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS. 2) SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE SAME SHEET THEY ARE CUT OR CALLED OUT ON.</p>	<p>ARROW INDICATES POINT OF VIEW</p> <p>ELEVATION NUMBER</p> <p>INTERIOR EXTERIOR</p> <p>SHEET WHERE ELEVATION IS LOCATED *</p> <p>SINGLE ELEVATION OR PHOTO MARKER</p> <p>ELEVATION NUMBER</p> <p>ARROW INDICATES POINT OF VIEW ELEVATION</p> <p>INDICATES SHEET WHERE ELEVATION IS LOCATED</p> <p>MULTIPLE ELEVATION OR PHOTO MARKER</p> <p>ELEVATION IDENTIFICATION NUMBER</p> <p>ELEVATION 3" = 1'-0" SHEET WHERE POINT OF VIEW MARKER CAN BE FOUND *</p> <p>ELEVATION TITLE</p> <p>TARGET ELEVATION</p> <p>ARCHITECTURAL</p> <p>ROOM NAME</p> <p>XX-XX ROOM NUMBER</p> <p>XXX X DOOR NUMBER</p> <p>A COLUMN GRID LINE</p> <p>X WALL TYPE</p> <p>X WINDOW TYPE</p> <p>X LOUVER</p> <p>X ACCESSORY, FURNITURE, AND MISCELLANEOUS EQUIPMENT IDENTIFIER</p> <p>KEY NOTE DESIGNATION</p> <p>KEY NOTE NUMBER</p> <p>GENERAL LINE SYMBOLOGY</p> <p>4-HOUR FIRE RATED WALL</p> <p>3-HOUR FIRE RATED WALL</p> <p>2-HOUR FIRE RATED WALL</p> <p>1-HOUR FIRE RATED WALL</p> <p>COLUMN GRID LINE/CENTERLINE</p>	<p>PIPING</p> <p>FIGURE</p> <p>36"-PLE</p> <p>EXAMPLE</p> <p>LINE SIZE</p> <p>SERVICE</p> <p>PLANT EFFLUENT</p> <p>EQUIPMENT IDENTIFICATION</p> <p>FIGURE</p> <p>CP0401</p> <p>EXAMPLE</p> <p>SERVICE ABBREVIATION</p> <p>EQUIPMENT ABBREVIATION</p> <p>AREA DESIGNATION</p> <p>EQUIPMENT NUMBER</p> <p>INDICATES NON-CLOG SUBMERSIBLE</p> <p>INDICATES PUMP</p> <p>EFFLUENT TREATMENT</p> <p>PUMP 01</p> <p>AREA DESIGNATION</p> <p>00 GENERAL</p> <p>01 SITE</p> <p>02 UPPER PAVILION</p> <p>03 LOWER PAVILION</p> <p>04 EFFLUENT TREATMENT</p> <p>05 STORAGE BUILDING</p> <p>06 BULK OXYGEN STORAGE PAD</p> <p>DISCIPLINE DESIGNATOR & DISCIPLINE ORDER</p> <p>G GENERAL</p> <p>V SURVEYING/MAPPING</p> <p>X DEMOLITION</p> <p>C CIVIL</p> <p>U MULTI-DISCIPLINE</p> <p>S STRUCTURAL</p> <p>A ARCHITECTURAL</p> <p>D PROCESS</p> <p>M MECHANICAL (HVAC)</p> <p>P PLUMBING</p> <p>E ELECTRICAL</p> <p>Y INSTRUMENTATION</p> <p>SHEET TYPE DESIGNATOR</p> <p>0 GENERAL (SYMBOLS, LEGENDS)</p> <p>1 PLANS</p> <p>2 ELEVATIONS</p> <p>3 SECTIONS</p> <p>4 LARGE SCALE VIEWS</p> <p>5 DETAILS</p> <p>6 SCHEDULES AND DIAGRAMS</p> <p>8 PROFILES</p> <p>9 3D REPRESENTATIONS</p> <p>EXAMPLE</p> <p>UPPER PAVILION ARCHITECTURAL SECTION, DRAWING 01</p> <p>0 2 BUILDING OR AREA DESIGNATION</p> <p>A ARCHITECTURAL DISCIPLINE DESIGNATOR</p> <p>3 SECTIONS SHEET TYPE DESIGNATOR</p> <p>0 1 SHEET 01 SHEET NUMBER</p> <p>0 2 A 3 0 1 EXAMPLE</p>

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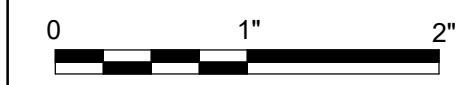


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	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion



GENERAL LEGEND

FILENAME | 10353741-00-G.rvt
SCALE | NONE

SHEET
00G-003

- GENERAL NOTES:**
- THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
 - SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

CIVIL MAPPING SYMBOLOGY

UTILITY/CIVIL LINE SYMBOLOGY

	EMBANKMENT SLOPE (CUT)
	EMBANKMENT SLOPE (FILL)
	EMBANKMENT SLOPE RIGHT ARROW RIGHT
	EMBANKMENT SLOPE LEFT ARROW LEFT
	SPOT ELEVATION/POINT #
	SURVEY BENCHMARK
	SURVEY CONTROL POINT
	HORIZONTAL CONTROL POINT
	VERTICAL CONTROL POINT
	SECTION CORNER MONUMENT
	SECTION CORNER NO MONUMENT
	FLOW ARROW
	WATER LEVEL IN SECTION/PROFILE
	EXISTING UTILITY POLE
	DOWNGUY
	EXTERIOR UTILITY JUNCTION BOX
	INTERSTATE HIGHWAY SYMBOL
	US HIGHWAY SYMBOL
	STATE HIGHWAY SYMBOL
	HAY BALE SILT CHECK
	TEMPORARY SEDIMENT TRAP

	CLEANOUT
	CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)
	FIRE HYDRANT
	FUEL OIL METER
	FUEL OIL MANHOLE
	FUEL OIL VAULT
	GREASE TRAP
	GRIT CHAMBER
	HEADWALL
	INDUSTRIAL WASTE WATER METER
	INDUSTRIAL WASTE WATER MANHOLE
	NATURAL GAS METER
	NATURAL GAS RECEIVER
	NATURAL GAS TRAP
	NATURAL GAS LINE VAULT
	MONITORING WELL
	POST INDICATOR VALVE
	PUMP STATION
	SANITARY MANHOLE
	SEPTIC TANK
	TANK BELOW GROUND
	TANK HORIZONTAL ABOVE GROUND
	TANK VERTICAL ABOVE GROUND

	STORM CATCH BASIN
	STORM ROUND CATCH BASIN
	STORM DRAINAGE MANHOLE
	WATER/AIR VENT
	WATER BACKFLOW PREVENTER
	WATER BLOWOFF
	WATER METER
	WATER SHUTOFF
	WATER SOFTENER
	WATER VALVE VAULT
	VALVE

	PIPELINE
	LARGE PIPELINE
	UTILITY BENEATH STRUCTURE
	RAILROAD
	CENTERLINE
	BOTTOM OF DITCH
	PROPERTY LINE
	EASEMENT
	LIMITS OF CONSTRUCTION
	ROW
	EXISTING CONTOUR (MINOR)
	EXISTING CONTOUR W/ELEVATION (MAJOR)
	EXISTING FENCE
	EXISTING VEGETATION/BRUSH LINE
	FENCE - BARB WIRE
	FENCE - CHAIN LINK
	FENCE - FIELD
	FENCE - OTHER
	FENCE - WOOD
	FENCE - WOVEN WIRE
	FLOOD LIMIT (25 YEAR)
	FLOOD LIMIT (50 YEAR)
	FLOOD LIMIT (100 YEAR)
	FLOOD LIMIT (200 YEAR)
	FLOOD LIMIT (500 YEAR)
	HIGHWAY GUARDRAIL
	LEVEE TOP
	LEVEE TOE
	NEW CONTOUR (MINOR)
	NEW CONTOUR (MAJOR)
	ROCK BERM
	SILT FENCE
	TOE OF SLOPE
	TOP OF SLOPE
	FIBER OPTIC
	FUEL OIL
	NATURAL GAS
	INDUSTRIAL WASTE WATER
	SANITARY SEWER
	STORM SEWER
	DOMESTIC WATER
	DOMESTIC WATER NON-POTABLE

GENERAL NOTES:

1. THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
3. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE, SEE 01C-103 FOR NOTES SPECIFIC TO LIMIT OF DISTURBANCE, UTILITY COORDINATION, AND EROSION AND SEDIMENT CONTROL.
4. EXISTING CONDITIONS PLANIMETRICS AND DATA OBTAINED FROM OWEN HASKELL, INC. LAND SURVEYORS STANDARD TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED FOR DIFW, DATED JANUARY 27, 2023, (REVISED 4, 28, 2023) TITLED 312 FISH HATCHERY ROAD, NEW GLOUCESTER, MAINE.
5. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY STAKING OPERATIONS.
6. NO PROVISIONS HAVE BEEN MADE FOR ANY TEMPORARY CONDITIONS THAT MAY ARISE DURING CONSTRUCTION PRIOR TO COMPLETION OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION DURING THE PROCESS OF THE PROJECT.
7. CONTRACTOR SHALL MAINTAIN WORKING RED LINE DRAWINGS.

REFERENCE COORDINATE SYSTEM

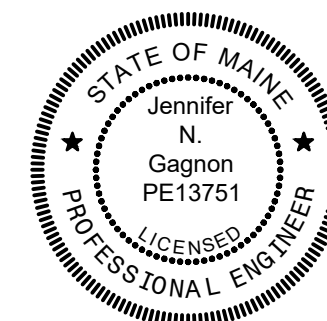
PROJECTION - MAINE STATE PLANE
 DATUM - NAD83
 ZONE - WEST
 UNITS - U.S. SURVEY FEET

VERTICAL DATUM IS REFERENCED TO NAVD 88.



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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL CIVIL LEGEND



FILENAME | 10353741-00G-004.DWG
 SCALE | NONE

SHEET
00G-004

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PIPING SYSTEMS		PIPING SYMBOLOGY		HVAC SYMBOLOGY		TEMPERATURE CONTROL DIAGRAM SYMBOLOGY		ABBREVIATIONS	
---	COLD WATER, POTABLE (CW)	---	PIPE ANCHOR	24x18	SUPPLY AIR OR OUTSIDE AIR DUCT UP (SECTION CUT, FIRST DIMENSION DUCT WIDTH)	⊗	SUPPLY AIR REGISTER	AD	ACCESS DOOR
---	HOT WATER, POTABLE (HW)	---	PIPE GUIDE	⊗	SUPPLY AIR OR OUTSIDE AIR DUCT DOWN (NO SECTION CUT)	⊗	EXHAUST AIR OR RETURN AIR GRILLE	AFR	ABOVE FINISHED FLOOR
---	HOT WATER RECIRCULATING, POTABLE (HWC)	---	EXPANSION JOINT	⊗	RETURN AIR DUCT UP (SECTION CUT)	⊗	EXHAUST AIR OR RETURN AIR GRILLE	AHU	AIR HANDLING UNIT
---	NON POTABLE COLD WATER	---	PRESSURE/TEMPERATURE PORT	⊗	RETURN AIR DUCT DOWN (NO SECTION CUT)	⊗	SUPPLY AIR ASSEMBLY SQUARE DIFFUSER	APD	AIR PRESSURE DROP
---	HOT WATER - TEMPERATURE, POTABLE	---	THERMOMETER	⊗	EXHAUST AIR DUCT UP (NO SECTION CUT)	⊗	SUPPLY AIR ASSEMBLY ROUND DIFFUSER	ARF	ABOVE RAISED FLOOR
---	TEPID WATER, POTABLE	---	THERMOWELL	⊗	EXHAUST AIR DUCT DOWN (NO SECTION CUT)	⊗		AV	ABOVE RAISED FLOOR
---	TEPID WATER RETURN, POTABLE	---	PRESSURE GAUGE	⊗	ROUND ELBOW UP	⊗		BAS	BUILDING AUTOMATION SYSTEM
---	SANITARY SEWER BELOW GRADE	---	TEMPERATURE GAUGE	⊗	ROUND ELBOW DOWN	⊗		BDD	BACK DRAFT DAMPER
---	SANITARY SEWER ABOVE GRADE	---	FLEXIBLE PIPING CONNECTION	⊗	TRANSITION - RECTANGULAR TO ROUND DUCT	⊗		BHP	BRAKE HORSE POWER
---	SANITARY VENT	---	WYE STRAINER	⊗	STANDARD BRANCH	⊗		BOE	BOTTOM OF EQUIPMENT
---	ACID WASTE	---	MANUAL AIR VENT	⊗	ELBOW - W/TURNING VANE (RECTANGULAR)	⊗		BTU	BTU METER
---	ACID VENT	---	AUTOMATIC AIR VENT	⊗	ELBOW - (RECTANGULAR), SMOOTH RADIUS	⊗		COMM	COMMUNICATION
---	COMBINATION WASTE AND VENT	---	METER (WATER, GAS, OTHER)	⊗	RECTANGULAR DUCT OR OPENING SIZE FIRST NUMBER INDICATES SIZE OF SIDE SHOWN	⊗		CT	CURRENT TRANSMITTER
---	PRESSURE DRAINAGE	---	FLOOR CLEANOUT	⊗	ROUND DUCT SIZE	⊗		EC	ELECTRONICALLY COMMUTATED
---	STORM DRAIN ABOVE GRADE	---	WALL CLEANOUT	⊗	RECTANGULAR DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW	⊗		EF	EXHAUST FAN
---	STORM DRAIN BELOW GRADE	---	DOUBLE GRADE CLEANOUT	⊗	ROUND DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW	⊗		FM	FLOW METER
---	STORM DRAIN OVERFLOW	---	WATER HAMMER ARRESTOR	⊗	HIDDEN DUCT	⊗		M	MOTOR ACTUATOR
---	NATURAL GAS	---	EARTHQUAKE VALVE	⊗	DUCT/PIPE ELEVATION TAG ABOVE FINISH FLOOR	⊗		MA	MIXED AIR
---	LIQUEFIED PROPANE	---	CONCENTRIC REDUCER	⊗	VOLUME DAMPER	⊗		NC	NORMALLY CLOSED
---	HEATING HOT WATER SUPPLY	---	ECCENTRIC REDUCER, ECCENTRIC REDUCER, FLAT ON BOTTOM	⊗	MOTOR OPERATED DAMPER	⊗		NO	NORMALLY OPEN
---	HEATING HOT WATER RETURN	---	ECCENTRIC REDUCER, FLAT ON TOP	⊗	FIRE DAMPER	⊗		OA	OUTDOOR AIR
---	GLYCOL HEATING HOT WATER SUPPLY	---	ELBOW, 90° TURN DOWN	⊗	SMOKE DAMPER	⊗		RA	RETURN AIR
---	GLYCOL HEATING HOT WATER RETURN	---	ELBOW, 90° TURN UP	⊗	SMOKE AND FIRE DAMPER	⊗		RL	RELIEF FAN
---	CHILLED WATER SUPPLY	---	TEE, OUTLET UP	⊗	FLEXIBLE CONNECTION	⊗		RF	RETURN FAN
---	CHILLED WATER RETURN	---	TEE, OUTLET DOWN	⊗	FLEXIBLE DUCT - TWO LINE	⊗		SA	SUPPLY AIR
---	GLYCOL CHILLED WATER SUPPLY	---	TEE, OUTLET UP W/ 90° TURN	⊗	FLEXIBLE DUCT - ONE LINE	⊗		SF	SUPPLY FAN
---	GLYCOL CHILLED WATER RETURN	---	TEE, OUTLET DOWN W/ 90° TURN	⊗	ACOUSTICAL LINING - DUCT DIMENSIONS FOR NET FREE AREA	⊗		TC	TEMPERATURE CONTROL CONTRACTOR
---	CONDENSER WATER SUPPLY	---	PIPE BREAK	⊗	UNDERCUT DOOR	⊗		VFC	VARIABLE FREQUENCY CONTROLLER
---	CONDENSER WATER RETURN	---	PIPE CAP	⊗	NEW TO EXISTING CONNECTION	⊗			
---	REFRIGERANT LIQUID	---	BLIND FLANGE	⊗	REMOVE EXISTING UP TO THIS POINT	⊗			
---	REFRIGERANT SUCTION	---	UNION	⊗	HVAC EMERGENCY SHUTDOWN SWITCH	⊗			
---	CONDENSATE DRAIN	---	FLOW ARROW	⊗		⊗			
---	CONDENSATE PUMP DISCHARGE	---	SHUTOFF VALVE (NORMALLY OPEN)	⊗		⊗			
---	STEAM SUPPLY - PSI	---	SHUTOFF VALVE (NORMALLY CLOSED)	⊗		⊗			
---	BOILER BLOW DOWN	---	DRAIN VALVE	⊗		⊗			
---	BOILER FEED	---	CHECK VALVE	⊗		⊗			
---	STEAM VENT	---	VACUUM BREAKER	⊗		⊗			
---	WASTE DRAIN WATER	---	AUTOMATIC FLOW CONTROL VALVE	⊗		⊗			
---	REUSE SUPPLY WATER	---	CALIBRATED MANUAL BALANCING VALVE	⊗		⊗			
---	FRESH WATER SUPPLY	---	PRESSURE-RELIEF VALVE	⊗		⊗			
		---	PRESSURE-REDUCING VALVE (PRV)	⊗		⊗			
		---	AUTOMATIC CONTROL VALVE, 2-WAY	⊗		⊗			
		---	AUTOMATIC CONTROL VALVE, 3-WAY	⊗		⊗			
		---	BACKFLOW PREVENTER	⊗		⊗			
		---	PLUMBING FIXTURE	⊗		⊗			

GENERAL MECHANICAL DEMOLITION NOTES

- THE CONTRACTOR SHALL COMPLETELY REMOVE ALL PIPING, DUCTWORK, COILS, EQUIPMENT, TERMINAL UNITS, ASSOCIATED CONTROLS, WIRING, AND OTHER ITEMS SHOWN BOLD AND/OR BOLD DASHED LINES UNLESS SPECIFICALLY NOTED OTHERWISE. THE ITEMS INDICATED ON THE DRAWINGS TO BE REMOVED ARE ONLY TO INDICATE IN GENERAL THE AMOUNT OF DEMOLITION WORK INVOLVED. A SITE INVESTIGATION BY THE CONTRACTOR MUST BE PERFORMED TO AID IN DETERMINING THE COMPLETE EXTENT OF WORK INVOLVED.
- PIPING AND DUCTWORK EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. REMAINING PIPING SHALL BE DRAINED AND CAPPED WITHOUT CREATING DEAD LEGS IN THE SYSTEM. REMAINING DUCTWORK SHALL BE CAPPED.
- LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, NOTIFY OWNER AND INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.
- EXISTING EQUIPMENT BEING REMOVED AND CONSIDERED SALVAGEABLE BY THE OWNER SHALL BE TURNED OVER TO THE OWNER.
- CONTRACTORS SHALL COORDINATE AND SCHEDULE ALL NECESSARY UTILITY SHUT-OFFS WITH OWNER PRIOR TO PROCEEDING WITH SUCH WORK.
- COORDINATE SAW-CUTTING OF THE FLOOR OR WALL WITH OTHER TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, FLOORS, CEILINGS, OR OTHER BUILDING ELEMENTS THAT ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF MECHANICAL WORK. SUCH WORK SHALL MATCH THE EXISTING CONSTRUCTION, FINISH, AND RATING. FIRE SEAL WALL OPENINGS AS REQUIRED.
- REPLACE/REPAIR DAMAGED PIPING AND/OR DUCTWORK INSULATION TO MATCH EXISTING.
- CONTRACTOR SHALL PROVIDE WORK IN PHASES AS REQUIRED BY THE CONTRACT DOCUMENTS WHILE MINIMIZING POTENTIAL WORK DELAYS AND UTILITY SHUT-DOWNS. COORDINATE ALL WORK WITH PROJECT PHASING PLAN AND WORK SHOWN ON DEMOLITION AND NEW PLANS. ALL EXISTING AREAS OF THE BUILDING NOT A PART OF A CURRENT PHASE OF WORK SHALL REMAIN OPERATIONAL WHILE WORK IN EACH INDIVIDUAL PHASE IS COMPLETED.

GENERAL MECHANICAL NOTES

- THESE NOTES ARE NOT ALL INCLUSIVE. REFER TO DRAWINGS AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- THIS IS A STANDARD MECHANICAL (HVAC AND PLUMBING) SYMBOLOGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.
- VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO MECHANICAL SHEETS.
- PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AS SPECIFIED, OR AS REQUIRED BY CODE.
- MECHANICAL INSTALLATION SHALL COMPLY WITH THE ADA/ABA ACCESSIBILITY GUIDELINES.
- DETAILS APPLY TO THE ENTIRE PROJECT AND ARE ONLY REFERENCED TO PROVIDE CLARITY IF THERE ARE MULTIPLE DETAILS THAT COULD APPLY TO A PARTICULAR PROJECT CONDITION.
- COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING WITH OTHER TRADES BEFORE PROCEEDING WITH WORK. DO NOT INSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING ABOVE ELECTRICAL EQUIPMENT WHERE PROHIBITED BY ELECTRICAL CODES (SWITCHBOARDS, PANELS, ETC.).
- LIGHT LINE WEIGHT INDICATES EXISTING PIPING, DUCTWORK, AND/OR EQUIPMENT TO REMAIN. BOLD LINE WEIGHT INDICATES NEW WORK TO BE INSTALLED AS WORK OF THIS CONTRACT.
- COORDINATE INSTALLATION OF OUTSIDE AIR INTAKE WITH INSTALLATION OF PLUMBING VENTS, FLUES AND EXHAUST/RELIEF OUTLETS TO MAINTAIN 10' SEPARATION.
- ALL WORK IN FINISHED SPACES SHALL BE LOCATED ABOVE CEILINGS, IN CHASES OR OTHER CONCEALED ACCESSIBLE LOCATIONS UNLESS NOTED OTHERWISE. LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH LAY-IN CEILINGS, ACCESS PANELS OR ACCESS DOORS. PROVIDE AN ACCESS PANEL OR DOOR FOR ALL NON-ACCESSIBLE INSTALLATIONS. COORDINATE LOCATION OF ACCESS PANELS OR DOORS WITH THE ARCHITECT/ENGINEER AND OTHER TRADES.
- ALL MATERIALS LOCATED IN PLENUM SHALL BE RATED FOR PLENUM INSTALLATION.
- ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH ALL TRADES. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS OR AS SHOWN ON THE MECHANICAL OR STRUCTURAL DRAWINGS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED.
- ALL MISCELLANEOUS METALS AND MATERIALS REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE PROVIDED BY THE INSTALLING CONTRACTOR.
- PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS OF DISSIMILAR METALS (SUCH AS COPPER TO GALVANIZED STEEL).
- PROVIDE ISOLATION VALVES AT EACH PIECE OF EQUIPMENT. ALSO PROVIDE ISOLATION VALVES ON EACH BRANCH AND/OR RISER SERVING MULTIPLE PIECES OF EQUIPMENT OR FIXTURES AND ELSEWHERE AS INDICATED. INSTALL VALVES AS CLOSE TO MAIN AS POSSIBLE.

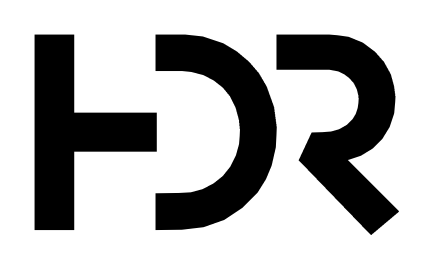
GENERAL HVAC NOTES

- DUCTWORK DIMENSIONS: FIRST NUMBER INDICATES SIDE OF DUCTWORK SHOWN. ALL DIMENSIONS ARE IN INCHES AND ARE INSIDE CLEAR DIMENSIONS.
- VOLUME DAMPERS ABOVE PLASTER OR GYPSUM CEILINGS SHALL HAVE EXTENSION RODS AND CHROME-PLATED ESCUTCHEON PLATES.
- COORDINATE ALL GRILLE, REGISTER AND DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN, LIGHTING, AND ALL OTHER CEILING MOUNTED DEVICES.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK AND PIPING SYSTEMS CONNECTED TO FANS, PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION.
- PROVIDE ACCESSIBLE VOLUME DAMPERS OR OTHER MEANS OF AIRFLOW ADJUSTMENT AT ALL DUCT RUN-OUTS TO DIFFUSERS AND GRILLES.
- PROVIDE DUCT ACCESS DOORS AT OUTSIDE AIR INTAKE PLENUMS.
- ALL DUCT RUN-OUTS TO DIFFUSERS AND GRILLES SHALL BE THE SAME AS THE DIFFUSER OR GRILLE NECK SIZE UNLESS NOTED OTHERWISE.
- ALL PIPING RUN-OUTS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

GENERAL PLUMBING NOTES

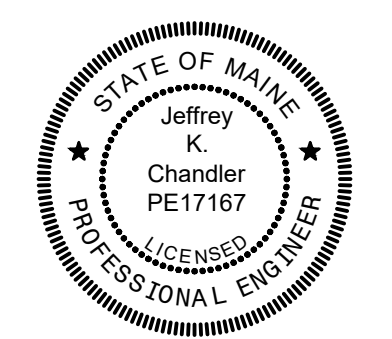
- SANITARY SEWER PIPING SMALLER THAN 3" SHALL BE SLOPED AT 1/4" PER FOOT, 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT.
- WALL HYDRANTS SHALL BE INSTALLED BETWEEN 18" MIN AND 24" MAX ABOVE FINISH GRADE. COORDINATE ELEVATIONS OF FINISH FLOOR OR FINISH EXTERIOR GRADE. PROVIDE ACCESSIBLE INSIDE SHUTOFF VALVE FOR EACH WALL HYDRANT.
- INSTALL WALL CLEANOUTS (WCO) ON ALL SANITARY AND STORM RISERS AT 30" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. COORDINATE EXACT HEIGHT WITH OTHER TRADES TO ENSURE ACCESSIBILITY.
- ROUTE ALL STORM PIPING AS HIGH AS POSSIBLE AND SLOPE AT 1/8" PER FOOT UNLESS NOTED OTHERWISE. OVERFLOW DOWN SPOUT NOZZLES SHALL BE INSTALLED AT 12" ABOVE FINISH EXTERIOR GRADE UNLESS NOTED OTHERWISE.
- PROVIDE BACKFLOW PREVENTERS IN ACCORDANCE WITH THE LOCAL CODES. PROVIDE AIR GAP FITTINGS FOR ALL RPZ BACKFLOW PREVENTERS AND ROUTE DISCHARGE PIPING TO NEAREST FLOOR DRAIN OR FLOOR SINK OR AS SHOWN ON DRAWINGS.
- PROVIDE GAS REGULATORS, REGULATOR VENT PIPING, SHUTOFF VALVES, DIRT LEGS, AND UNIONS ON ALL GAS FIRED EQUIPMENT. REGULATE GAS PRESSURE AS REQUIRED FOR EACH SPECIFIC PIECE OF GAS FIRED EQUIPMENT.

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PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

MECHANICAL LEGEND

ONE-LINE, POWER, AND LIGHTING SYMBOLOGY

LOW VOLTAGE CIRCUIT BREAKER (CB), RATING AND NO. OF POLES AS SHOWN. WHEN SPECIFIC TYPE, OTHER THAN MCCB, IS REQUIRED, X INDICATES TYPE.

TYPES:
 MCCB - MOLDED CASE
 ICCB - INSULATED CASE
 LVP - LOW VOLTAGE POWER
 MCP - MOTOR CIRCUIT PROTECTOR (RATING PER CONNECTED LOAD)

TRIP UNIT:
 L - LONG TIME PICKUP
 S - SHORT TIME PICKUP
 I - INSTANTANEOUS PICKUP
 G - GROUND FAULT PICKUP
 A - ARC ENERGY REDUCTION MODE

INTERLOCK: X - INDICATES TYPE
TYPES:
 E - ELECTRICAL
 M - MECHANICAL
 K - KEY

GROUND FAULT PROTECTION

MEDIUM VOLTAGE CIRCUIT BREAKER

FUSE, RATING, AND NUMBER OF FUSES AS NOTED

FUSED CUTOUT, CURRENT RATING, FUSE RATING, AND QUANTITY AS NOTED

FUSIBLE SWITCH, CURRENT RATING, FUSE RATING, AND QUANTITY AS NOTED (3 POLE UON)

NON-FUSED SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED (3 POLE UON)

DISCONNECT OR DRAWOUT CONNECTION

MAGNETIC MOTOR STARTER AND SEPARATELY MOUNTED COMBINATION MAGNETIC MOTOR STARTER

MOTOR/LOAD CONTROLLER AND SEPARATELY MOUNTED MOTOR/LOAD CONTROLLER WITH SHORT CIRCUIT PROTECTION AND DISCONNECT

MOTOR STARTER AND CONTROLLER SUBSCRIPTS:
 A - MAGNETIC STARTER NEMA SIZE
 B - STARTER TYPE
 NONE - FULL VOLTAGE NON-REVERSING (FVNR)
 FVR - FULL VOLTAGE REVERSING
 2S - TWO SPEED
 RVAT - REDUCED VOLTAGE AUTO TRANSFORMER

C - CONTROL DIAGRAM OR CONTROLS SCHEDULE NUMBER (IF REQUIRED)

D - CONTROLLER TYPE
 VFD - VARIABLE FREQUENCY DRIVE
 SS - SOLID STATE
 CONT - CONTACTOR

SEPARATELY MOUNTED COMBINATION MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

SEPARATELY MOUNTED MOTOR STARTER OR CONTROLLER; SEE ELECTRICAL ONE-LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION.

NON-FUSED SAFETY SWITCH, 30A, 3P, X INDICATES AMP RATING GREATER THAN 30A

FUSED SAFETY SWITCH, 3P, X INDICATES AMP RATING GREATER THAN 30A, Y INDICATES FUSE SIZE

SEPARATELY MOUNTED CIRCUIT BREAKER; SEE ELECTRICAL ONE - LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

VARIABLE FREQUENCY DRIVE

MOTOR WITH DESIGN HORSEPOWER (WHEN INDICATED)

GENERATOR

TRANSFER SWITCH, CURRENT RATING, AND NUMBER OF POLES AS NOTED
 ATS - AUTOMATIC
 MTS - MANUAL

TRANSFORMER
 Δ 3-PHASE, 3-WIRE DELTA CONNECTION
 ⚡ 3-PHASE, 4-WIRE GROUNDED WYE CONNECTION

SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED

NON-MOTOR LOAD WITH DESIGN KVA, KW, OR AMP

VOLTAGE TRANSFORMER (VT, PT, OR CPT)

CURRENT TRANSFORMER (CT)

UTILITY WATT-HOUR METER PER UTILITY REQUIREMENTS

DIGITAL METERING PACKAGE

GROUND

LIGHTNING ARRESTER

LOW VOLTAGE SURGE PROTECTIVE DEVICE

SELECTOR SWITCH

PUSHBUTTON

INSTRUMENTATION / CONTROL DEVICE

SOLENOID VALVE

CONTROL PANEL INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

CONTROL PANEL WITH DISCONNECT SWITCH INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

JUNCTION OR PULL BOX

PANELBOARD (250V TO 600V)

PANELBOARD (LESS THAN 250V)

ELECTRICAL EQUIPMENT ENCLOSURE: SWITCHBOARD, MOTOR CONTROL CENTER, CONTROL PANEL, TRANSFORMER OR OTHER EQUIPMENT AS INDICATED. ESTIMATED SIZE AS INDICATED. WHEN USED X INDICATES EQUIPMENT TYPE.

EQUIPMENT TYPES:
 ATS - AUTOMATIC TRANSFER SWITCH
 CP - CONTROL PANEL
 MTS - MANUAL TRANSFER SWITCH
 MCC - MOTOR CONTROL CENTER
 UPS - UNINTERRUPTIBLE POWER SUPPLY
 VFD - VARIABLE FREQUENCY DRIVE
 SB - SWITCHBOARD
 SG - SWITCHGEAR
 T - TRANSFORMER

CEILING/PENDANT/BOLLARD MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/PENDANT/BOLLARD MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

WALL MOUNTED FLOOD LUMINAIRE, LAMP TYPE AS SPECIFIED

POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

POLE/STANCHION MOUNTED FLOOR LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/PENDANT MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/PENDANT MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, ALL OR PARTIAL EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED, ALL OR PARTIAL EMERGENCY (INTERNAL OR EXTERNAL POWER SOURCE AS INDICATED)

EMERGENCY LIGHT, NUMBER OF ATTACHED HEADS AS SHOWN

EMERGENCY LIGHT, REMOTE MOUNTED HEAD

DOUBLE-FACED CEILING OR WALL MOUNTED EXIT LIGHT; DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

SINGLE-FACED CEILING OR WALL MOUNTED EXIT LIGHT; DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

LIGHTING FIXTURE SUBSCRIPTS:
 X - INDICATES LUMINAIRE TYPE PER LUMINAIRE SCHEDULE
 Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD
 Z - INDICATES CONTROLLING SWITCH (IF REQUIRED)
 NL - NIGHT LIGHT UNSWITCHED

WALL SWITCH
SUBSCRIPTS:
 X - INDICATES TYPE
 NONE - SINGLE POLE
 2 - DOUBLE POLE
 3 - THREE-WAY
 4 - FOUR-WAY
 K - KEY SWITCH
 P - PILOT LIGHT
 L - LIGHTED HANDLE
 DM - DIMMING
 MC - MOMENTARY CONTACT
 T - TIMER
 Y - INDICATES CONTROLLING SWITCH (IF REQUIRED)

MANUAL MOTOR STARTER
SUBSCRIPTS:
 X - INDICATES TYPE
 HP - HORSEPOWER RATED
 TE - HORSEPOWER RATED WITH THERMAL ELEMENT
 FT - HORSEPOWER RATED WITH FUSETRON FUSE
 Y - INDICATES SWITCH TYPE
 NONE - TOGGLE SWITCH TYPE
 R - ROTARY SWITCH TYPE

PHOTOCELL

TIME CLOCK

LIGHTING CONTROL OCCUPANCY SENSOR, WALL MOUNTED, X INDICATES SPECIFIC TYPE AS SPECIFIED

LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED, X INDICATES SPECIFIC TYPE AS SPECIFIED

ROOM/AREA LIGHTING CONTROL TYPE. SEE LIGHTING CONTROL SCHEDULE FOR REQUIREMENTS

LOW VOLTAGE DIGITAL WALL SWITCH, NUMBER INDICATES QUANTITY OF PUSH BUTTONS PER SINGLE GANG PLATE, LETTER INDICATES CONTROL ZONE WHEN SHOWN

PLUG-IN RECEPTACLE STRIP, QUANTITY AND SPACING OF RECEPTACLES AS NOTED OR SPECIFIED

SPECIAL-PURPOSE RECEPTACLE AS DEFINED ON PLANS

TWO RECEPTACLES IN 2-GANG BOX UNDER COMMON COVER PLATE

DUPLEX RECEPTACLE

SIMPLEX RECEPTACLE

RECESSED FLOOR MOUNTED BOX, QUANTITY AND TYPE OF RECEPTACLES AS INDICATED

SUBSCRIPTS:
 X - INDICATES TYPE
 GFCI - GROUND FAULT CIRCUIT INTERRUPTER
 IG - ISOLATED GROUND
 TR - TAMPER RESISTANT
 PLH - PLUG LOAD HALF CONTROLLED
 PLD - PLUG LOAD DUAL CONTROLLED
 USB - USB CHARGING STATION
 SPD - SURGE PROTECTIVE DEVICE
 Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD

CONDUIT TURNING UP

CONDUIT TURNING DOWN

HOMERUN TO SOURCE (E.G. PANELBOARD, MCC) NUMBER IN PARENTHESES REPRESENTS CONDUCTOR SIZE OTHER THAN #12 SINGLE PHASE: 2#12, 1#12G IN 3/4" C THREE PHASE: 3#12, 1#12G IN 3/4" C UNLESS OTHERWISE NOTED, CONDUCTOR SIZE IS FOR ENTIRE CIRCUIT, SOURCE TO LAST DEVICE. ALSO, SEE ONE LINE DIAGRAM FOR CIRCUIT REQUIREMENTS

CONDUIT CONNECTION TO EQUIPMENT

CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CIRCUIT HASH MARKS (WHEN INDICATED); LONG, SHORT, SINGLE DOT, AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND, AND ISOLATED EQUIPMENT GROUND, RESPECTIVELY. X REPRESENTS CONDUCTOR SIZE OTHER THAN #12 IN 3/4" CONDUIT.

CIRCUIT CONTINUATION

CONDUIT STUBBED OUT AND CAPPED

CORD AND PLUG CONNECTION

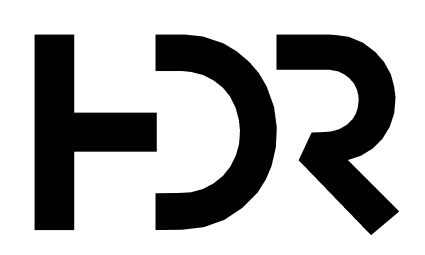
CONDUIT TAG OR CIRCUIT NUMBER - WIRE AND CONDUIT SIZE AS SPECIFIED IN CIRCUIT SCHEDULE ON THE SHEETS

GROUND CABLE

GROUND ROD

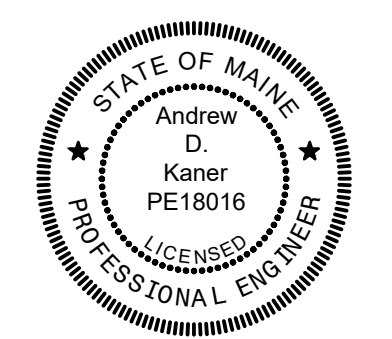
GENERAL NOTES:
 1. THIS IS A STANDARD ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
 2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
 3. SEE P&ID LEGEND SHEET FOR PROJECT SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.

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PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

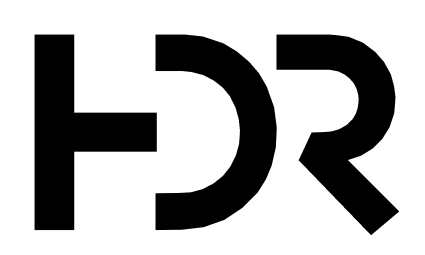
ELECTRICAL LEGEND 1

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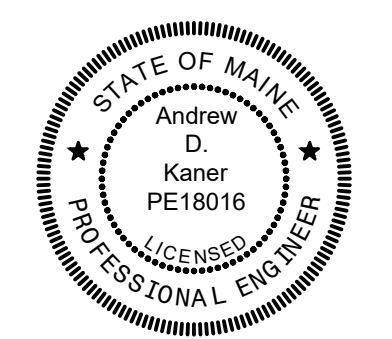
COMMUNICATION SYMBOLOGY		EMERGENCY ALARM SYMBOLOGY		CONTROL SYMBOLOGY		CONTROL SYMBOLOGY	
	WALL MOUNTED TELEPHONE OUTLET		ALARM BELL		ELECTRICAL CONNECTION		INDICATING LIGHT: X INDICATES LENS COLOR
	WALL MOUNTED DATA OUTLET		ALARM HORN		NO ELECTRICAL CONNECTION		PUSH TO TEST INDICATING LIGHT: X INDICATES LENS COLOR
	WALL MOUNTED COMBINATION TELEPHONE AND DATA OUTLET		ALARM FLASHING LIGHT		SOLENOID VALVE	LENS COLORS: R - RED Y - YELLOW G - GREEN W - WHITE B - BLUE A - AMBER	
	RECESSED FLOOR MOUNTED TELEPHONE OUTLET		ALARM BELL AND FLASHING LIGHT COMBINATION UNIT		CONTROL/RELAY COIL: X-INDICATES TYPE Y-INDICATES LOOP NUMBER, WHEN USED		THERMAL OVERLOAD ELEMENT
	RECESSED FLOOR MOUNTED DATA OUTLET		ALARM HORN AND FLASHING LIGHT COMBINATION UNIT		NORMALLY OPEN CONTACT (N.O.)		THERMAL OVERLOAD RELAY CONTACT. WHEN SHOWN X INDICATES QUANTITY.
	RECESSED FLOOR MOUNTED COMBINATION TELEPHONE AND DATA OUTLET		PUSHBUTTON OR PULLSTATION		NORMALLY CLOSED CONTACT (N.C.)		CONTROL POWER TRANSFORMER (CPT)
AUDIO/VISUAL SYMBOLOGY		SITE SYMBOLOGY			NORMALLY OPEN TIME DELAY RELAY CONTACT WITH TIME DELAY ON CLOSING AFTER COIL IS ENERGIZED		RUN TIME METER
	TELEVISION OUTLET		EXTERIOR PAD MOUNTED TRANSFORMER		NORMALLY CLOSED TIME DELAY RELAY CONTACT WITH TIME DELAY ON OPENING AFTER COIL IS ENERGIZED		
	CEILING MOUNT SPEAKER		POLE - MOUNTED TRANSFORMER		NORMALLY OPEN TIME DELAY RELAY CONTACT WITH TIME DELAY ON OPENING AFTER COIL IS DE-ENERGIZED		
	WALL MOUNT SPEAKER		ELECTRICAL HANDHOLE OR MANHOLE X - INDICATES SEQUENCE NUMBER Y - MHX OR HHX		NORMALLY CLOSED TIME DELAY RELAY CONTACT WITH TIME DELAY ON CLOSING AFTER COIL IS DE-ENERGIZED		
	SPEAKER SUBSCRIPTS: X - INDICATES HEIGHT		POLE/STANCHION MOUNTED FLOOD LUMINAIRE, LAMP TYPE AS SPECIFIED		NORMALLY OPEN TEMPERATURE SWITCH; CLOSE ON RISING TEMPERATURE		
	HORN TYPE TRANSDUCER		POLE MOUNTED AREA OR ROADWAY LUMINAIRE, LAMP TYPE AS SPECIFIED		NORMALLY CLOSED TEMPERATURE SWITCH; OPEN ON RISING TEMPERATURE		
	VOLUME CONTROL		HIGH MAST LIGHTING, NUMBER OF LUMINAIRES AS SPECIFIED		NORMALLY OPEN FLOW SWITCH; CLOSE ON INCREASING FLOW		
	HEAD END EQUIPMENT		LIGHTING FIXTURE SUBSCRIPTS: X - INDICATES LUMINAIRE TYPE PER LUMINAIRE SCHEDULE Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD		NORMALLY CLOSED FLOW SWITCH; OPEN ON INCREASING FLOW		
	FLOOR MOUNTED MICROPHONE JACK		POWER POLE		NORMALLY OPEN LEVEL SWITCH, CLOSE ON RISING LEVEL		
	WALL MOUNTED MICROPHONE JACK		DOWNGUY		NORMALLY CLOSED LEVEL SWITCH, OPEN ON RISING LEVEL		
SECURITY SYMBOLOGY			UNDERGROUND (UNO) ELECTRICAL AND COMMUNICATION SYSTEMS PATHWAY		NORMALLY OPEN PRESSURE SWITCH, CLOSE ON INCREASING PRESSURE		
	DOOR POSITION SWITCH		OVERHEAD ELECTRICAL AND COMMUNICATION SYSTEMS PATHWAY		NORMALLY CLOSED PRESSURE SWITCH, OPEN ON INCREASING PRESSURE		
	COMBINATION ELECTRIC DOOR STRIKE AND POSITION SWITCH				NORMALLY OPEN LIMIT SWITCH, CLOSE ON REACHING LIMIT		
	PROXIMITY CARD READER				NORMALLY CLOSED LIMIT SWITCH, OPEN ON REACHING LIMIT		
	PROXIMITY CARD READER WITH KEYPAD				MICROPROCESSOR (PLC, RTU, ETC.) OUTPUT		
	DUAL TECHNOLOGY MOTION DETECTOR				MICROPROCESSOR (PLC, RTU, ETC.) INPUT		
	REQUEST TO EXIT MOTION DETECTOR				FIELD WIRING EXTERNAL TO CONTROL PANEL		
	REQUEST TO EXIT PUSH BUTTON				3 POSITION SELECTOR SWITCH, MAINTAINED CONTACTS; UNLESS OTHERWISE NOTED, 2-POSITION SIMILAR		
	GLASS BREAK DETECTOR				NORMALLY OPEN PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED		
	CCTV CAMERA PAN/TILT/ZOOM WHEN INDICATED				NORMALLY CLOSED PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED		
	SECURITY EQUIPMENT CABINET						
	REMOTE KEYPAD/CONTROL STATION						

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CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

ELECTRICAL LEGEND 2



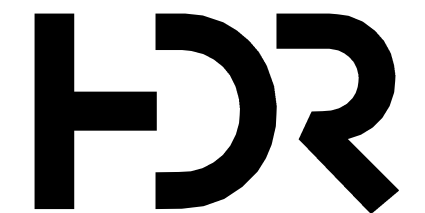
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00G-007

PRIMARY ELEMENT SYMBOLOGY		INSTRUMENT SYMBOLOGY		INSTRUMENT IDENTIFICATION LETTERS					CONTROL SWITCH NOTATION ABBREVIATIONS																																																																																																																																																																							
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- GENERAL NOTES:**
- THIS IS A STANDARD INSTRUMENTATION SYMBOLOGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.
 - SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR MISCELLANEOUS PIPING SYMBOLS.
 - SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
 - VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO INSTRUMENTATION DIAGRAMS. SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR VALVE SYMBOLS USED ELSEWHERE ON THE SHEETS.

Autodesk Docs/10353741_Main/DJF_NewGloucester_imp_r_2022/10353741-00-G.rvt 5/16/2024 8:57:24 AM

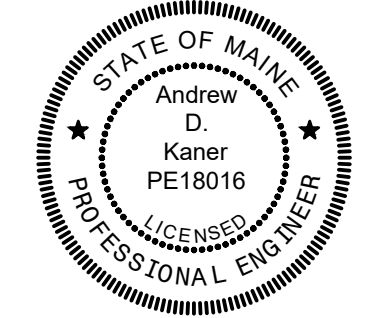


ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI

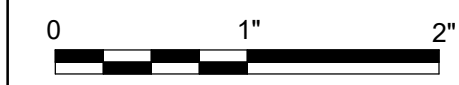
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ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

INSTRUMENTATION LEGEND



FILENAME | 10353741-00-G.rvt
SCALE | NONE

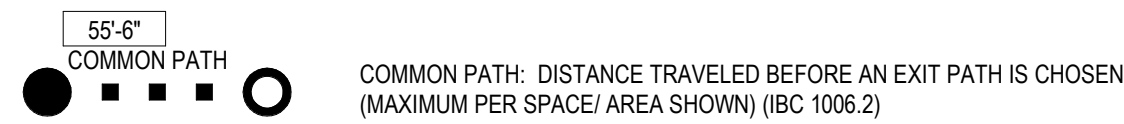
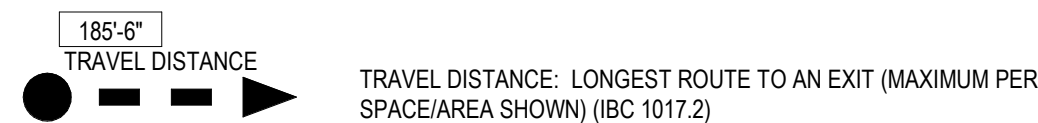
SHEET
00G-008

LIFE SAFETY LEGEND

Area Name	NAME OF AREA/SPACE
Business	FUNCTION OF SPACE (IBC TABLE 1004.5)
15,000 SF	SQUARE FOOTAGE OF AREA/SPACE
Load Factor:150	LOAD FACTOR (IBC TABLE 1004.1.2)
Calc Occ:100	CALCULATED OCCUPANT LOAD PER AREA/SPACE (IBC 1004)

DOOR	EGRESS COMPONENT - OCCUPANT LOAD AND WIDTH (IN INCHES)
Clear Width:33"	ACTUAL CLEAR WIDTH PROVIDED
Max Occ:165	MAXIMUM ALLOWED OCCUPANT LOAD PER EXIT (IBC 1005.3)
Req Width:28"	REQUIRED MINIMUM WIDTH PER OCCUPANCY (IBC 1005.3)
Calc Occ:140	CALCULATED OCCUPANT LOAD PER EXIT (IBC 1004)

STAIR	EGRESS STAIR - OCCUPANT LOAD AND WIDTH (IN INCHES)
Clear Width:44"	ACTUAL CLEAR WIDTH PROVIDED
Max Occ:146	MAXIMUM ALLOWED OCCUPANT LOAD PER STAIR (IBC 1005.3)
Req Width:28"	REQUIRED MINIMUM WIDTH PER OCCUPANCY (IBC 1005.3)
Calc Occ:93	CALCULATED OCCUPANT LOAD PER STAIR (IBC 1004)



DOOR FIRE RATING

ILLUMINATED EXIT SIGN

FIRE EXTINGUISHER & CABINET RECESSED (SCREENED IF EXISTING) MAX TRAVEL DISTANCE: 75' - (IBC TABLE 906.3(1))

FIRE EXTINGUISHER & CABINET SURFACE MOUNTED (SCREENED IF EXISTING) MAX TRAVEL DISTANCE: 75' - (IBC TABLE 906.3(1))

FIRE EXTINGUISHER SURFACE MOUNTED (SCREENED IF EXISTING) MAX TRAVEL DISTANCE: 75' - (IBC TABLE 906.3(1))

FIRE HOSE CABINET RECESSED (SCREENED IF EXISTING)

FIRE DEPARTMENT CONNECTION

STAND PIPE

SUITE

NOT IN CONTRACT

CONTROL AREA BOUNDARY

PARTITION RATING GRAPHICS

PARTITIONS REQUIRED TO BE SMOKE RESISTANT, FIRE RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT ARE SHOWN GRAPHICALLY ON PLANS WITH HATCH PATTERNS.

PARTITION RATING GRAPHIC DESIGNATION	PRIORITY
	4 HR FIRE RATING _____ 1 HIGHEST
	3 HR FIRE RATING _____ 2
	2 HR FIRE RATING & SMOKE BARRIER _____ 2
	2 HR FIRE RATING _____ 3
	1 HR FIRE RATING & SMOKE BARRIER _____ 3
	1 HR FIRE RATING _____ 4
	SMOKE PARTITION (NON-RATED) _____ 4
	NON-RATED PARTITION _____ 5 LOWEST

BUILDING INFORMATION

- ADDRESS:** New Gloucester Fish Hatchery
New Gloucester, ME
- ZONING DISTRICT:**
- OCCUPANCY:** Group U: Utility Rearing Tanks
- CONSTRUCTION TYPE:** Type 2B - NonCombustible (Table 601)
- SPRINKLERED:** N/A
- BUILDING HEIGHT:** Actual Building Height (# of Stories) 25'-10"
Allowable Building Height (# of Stories) 55'-0" (2)
- BUILDING AREAS:** Total Building Area 8,370 SF
Allowable Building Area (Parcel) 8,500 SF

APPLICABLE BUILDING CODES

THIS PROJECT HAS BEEN DESIGNED UNDER THE REQUIREMENTS OF THE APPLICABLE CODES BELOW

- 2015 International Building Code (IBC)
- 2015 International Energy Conservation Code (IECC)
- 2015 International Mechanical Code (IMC)

APPLICABLE EGRESS REQUIREMENTS

BASED ON: Type 2B - NonCombustible (Table 601) - Group U: - N/A

- MAXIMUM ALLOWABLE TRAVEL DISTANCE:** 300 FEET
Per IBC Table 1017.1 **Actual:**
- COMMON PATH OF EGRESS TRAVEL:** 100 FEET
Per IBC Table 1006.2.1 **Actual:**
- MINIMUM NUMBER OF EXITS:** 2
Per IBC Table 1006.3.1
- OCCUPANT LOAD** 3,940 SF / 300SF PER PERSON = 14 OCCUPANTS

BUILDING OCCUPANT LOAD

Name of Area/Space	Use Designation	Function of Space	Occupant Load Factor	Occupant Load
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GENERAL LIFE SAFETY NOTES

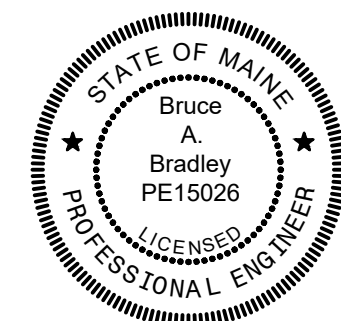
- THIS BUILDING IS AN OPEN AIR PAVILION AND IS NOT HEATED OR COOLED, AND THUS MEETS EXEMPTION C402.2 IN 2015 IECC FOR NOT HAVING TO MEET THERMAL REQUIREMENTS OF THE ENERGY CODE.
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NEW GLOUCESTER STATE FISH HATCHERY Phase III Facility Conversion



LIFE SAFETY

FILENAME
SCALE As indicated

SHEET
00G-010

GENERAL

G1. SCOPE
THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY ON STRUCTURAL SHEETS. IF THERE ARE QUESTIONS, THEY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANSWERED IN WRITING PRIOR TO CONSTRUCTION.

G2. APPLICABLE SPECIFICATIONS AND CODES
1. INTERNATIONAL BUILDING CODE (IBC) 2015 WITH APPLICABLE EDITIONS OF THE CODE REFERENCED STANDARDS.
2. ACI 350-06
3. LOCAL JURISDICTION AMENDMENTS

G3. DESIGN CRITERIA
1. APPLIES TO ALL STRUCTURES (UNO)
A. DEAD LOAD:
a. ACTUAL TRIBUTARY STRUCTURE WEIGHT
b. SUPERIMPOSED DEAD LOAD:
B. LIVE LOAD:
a. ELEVATED FLOORS: 100 PSF
b. WALKWAYS, STAIRS, GRATING: 100 PSF
c. SLAB ON GRADE: 250 PSF
d. ROOF: 20 PSF (NOT REDUCIBLE)
C. WIND:
a. BASIC WIND SPEED: 115 MPH
b. EXPOSURE: C
c. IMPORTANCE FACTOR: 1.0
d. UPPER AND LOWER PAVILIONS ARE OPEN. FILTER BUILDING IS ENCLOSED.
D. SEISMIC:
a. ABOVE GRADE, NON WATER BEARING STRUCTURES:
1. RISK CATEGORY: II
2. IMPORTANCE FACTOR: 1.0
3. SPECTRAL RESPONSE ACCELERATION, SS = 0.296
4. SPECTRAL RESPONSE ACCELERATION, S1 = 0.075
5. SITE CLASS: B
6. SEISMIC DESIGN CATEGORY: D
7. SPECTRAL RESPONSE COEFFICIENT, SDS = 0.308
8. SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.119
9. ANALYSIS PROCEDURE: ELF
E. SNOW LOAD:
a. GROUND SNOW LOAD = 70 PSF
b. FLAT ROOF SNOW LOAD
1. UPPER AND LOWER PAVILIONS = 58.8 PSF
2. FILTER BUILDING = 53.9 PSF
c. EXPOSURE FACTOR
1. UPPER AND LOWER PAVILIONS = 1.0
2. FILTER BUILDING = 1.0
d. IMPORTANCE FACTOR, ALL BUILDINGS = 1.0
e. THERMAL FACTOR
1. UPPER AND LOWER PAVILIONS = 1.2
2. FILTER BUILDING = 1.1

G4. THE FOLLOWING NON-CONTRACTUAL GEOTECHNICAL REPORT WAS DEVELOPED FOR THIS PROJECT AND IS THE BASIS OF THIS STRUCTURAL DESIGN:
GEOTECHNICAL FIRM NAME: SUMMIT GEOENGINEERING SERVICES
ADDRESS: 210 MAINE AVENUE, FARMINGDALE, MN 04344
REPORT NUMBER: 22429
REPORT DATE: MARCH 31, 2023
ALLOWABLE [NET] SOIL BEARING = 2,500

G5. SAFETY
SAFETY AND STRUCTURE STABILITY DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LIVE LOADS ONLY AS A COMPLETED STRUCTURE.

G6. OPENINGS
OPENINGS FOR PIPES, DUCTS, CONDUITS, ETC. ARE NOT ALL SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE AND PROVIDE OPENINGS AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT. REINFORCE AROUND OPENINGS PER STANDARD STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN.

G7. SPECIAL INSPECTIONS
SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 1 AND CHAPTER 17 OF THE IBC (CBC). PAYMENT FOR THESE INSPECTIONS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE FOR FULL ACCESS TO THE WORK BY THE SPECIAL INSPECTOR AND SHALL PROVIDE FOR THESE INSPECTIONS IN HIS CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE SPECIFICATIONS. A SPECIAL INSPECTION PLAN WILL BE SUBMITTED UNDER SEPARATE COVER WITH THE PERMIT APPLICATION.

G8. STANDARD DETAILS
THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT. IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWINGS THEY SHALL BE MADE SIMILAR TO THE STANDARD DETAILS. OBTAIN APPROVAL OF ENGINEER IN WRITING FOR SIMILAR CONDITIONS PRIOR TO CONSTRUCTION.

G9. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION AS REQUIRED TO COORDINATE NEW CONSTRUCTION. SUBMIT REQUIRED CHANGES FOR APPROVAL.

G10. CONTRACTOR TO SUBMIT FOR REVIEW ALL EQUIPMENT SIZES, OPERATING WEIGHTS, VIBRATION FORCES, SUPPORT LOCATIONS, ALONG WITH ANY FLOOR OPENINGS, NOTCHES, AND RECESSES REQUIRED BY SUCH EQUIPMENT. CONCRETE SUPPORT PADS AND/OR FRAMING REQUIRED TO SUPPORT SAID EQUIPMENT SHALL NOT BE FABRICATED AND PLACED UNTIL THE CONCRETE SUPPORT PADS AND/OR FRAMING IS APPROVED TO SUPPORT THE EQUIPMENT.

WOOD FRAMING

WF1. SEE SPECIFICATION FOR GRADE OF LUMBER TO BE USED FOR ALL WALL FRAMING, BLOCKING, MISC FRAMING.

WF2. FOR CONNECTIONS NOT DETAILED, REFERENCE IBC TABLE 23.04.9.1 FOR TYPICAL WOOD ADJACENT TO CONCRETE.

CONCRETE

C1. DESIGN STRENGTHS:
Fc = 4,500 PSI WATER-BEARING STRUCTURES
4,000 PSI ALL OTHER STRUCTURAL CONCRETE
Fy = 60,000 PSI

C2. CONCRETE COVER
UNLESS OTHERWISE NOTED, PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS:
CONCRETE DEPOSITED AGAINST EARTH: 3"
ALL OTHER: 2"
SEE DRAWINGS FOR EXCEPTIONS

C3. SEE SPECIFICATIONS FOR REINFORCING PLACEMENT REQUIREMENTS.

C4. REFER TO OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION FOR EMBEDDED ITEMS AND PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS. AS REQUIRED TO ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE CONTRACT DOCUMENTS AND OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNCTIONALLY COMPLETE PROJECT, REINFORCE AROUND OPENINGS PER STANDARD STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN.

C5. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDGES (AND 1/2" CHAMFERS AT JOINTS AS SHOWN.) NOT ALL CHAMFERS MAY BE SHOWN ON DRAWINGS.

C6. FIELD ADJUST REINFORCING AT OPENINGS AND EMBEDDED ITEMS AS INDICATED.

C7. ANCHOR BOLTS NOT SPECIFIED BY ENGINEER SHALL BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR. IN ACCORDANCE WITH APPLICABLE PROJECT AND CODE REQUIREMENTS. SUBMIT AS A SHOP DRAWING FOR REVIEW AND APPROVAL BY THE ENGINEER. COORDINATE LOCATION, SIZE AND EMBEDMENT PRIOR TO CASTING CONCRETE.

C8. CONTINUOUS WATERSTOP SHALL BE INSTALLED IN JOINTS SUBJECT TO STATIC WATER PRESSURE.

C9. ABSOLUTELY NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER.

C10. CONTRACTOR SHALL SUBMIT A CONCRETE PLACEMENT PLAN (PER SPECIFICATION 03311) IDENTIFYING JOINT TYPES, JOINT LOCATIONS AND CONCRETE PLACEMENT SEQUENCE.

C11. ALL CAST IN PLACE AND POST-INSTALLED ANCHORS INDICATED IN THE STRUCTURAL DOCUMENTS SHALL COMPLY WITH APPENDIX D OF ACI 318 AND CHAPTER 19 OF THE IBC. ALL EXPANSION AND ADHESIVE ANCHORS SHALL HAVE THE ICC REPORT SHOWING EQUIVALENT LOAD CAPACITY. SUBMIT AND INSTALL PER THE ICC EVALUATION REPORT.

MASONRY

M1. DESIGN STRENGTHS:
Fm= 1900 PSI
Fy = 60,000 PSI

M2. GROUT FOR FILLING MASONRY CAVITIES TO BE COARSE GROUT UNO, MAXIMUM COARSE AGGREGATE SIZE IS 3/8 INCH.

M3. GROUT POURS SHALL NOT EXCEED 4 FEET IN HEIGHT UNLESS CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF THE CELL(S) TO BE GROUTED AND WRITTEN PERMISSION IS OBTAINED FOR HIGH LIFT GROUTING.

M4. RESTRICTED BAR ANCHORAGE:
IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED AS FAR AS REQUIRED, THE BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STANDARD HOOK. SHOW ON SHOP DRAWINGS AND HIGHLIGHT WITH A BOX TO BRING TO ENGINEER'S ATTENTION.

M5. ANCHOR BOLTS:
ALL EXPANSION AND ADHESIVE ANCHORS SHALL HAVE THE ICC REPORT SHOWING EQUIVALENT LOAD CAPACITY. SUBMIT AND INSTALL PER THE ICC EVALUATION REPORT.

M6. IF BOND BEAMS AT INTERSECTING WALLS ARE SHOWN ON THE DRAWINGS TO MEET AT DIFFERENT ELEVATIONS, EXTEND REINFORCING OF BOTH BOND BEAMS AROUND INTERSECTING CORNER NOT LESS THAN 4 FEET IN EACH DIRECTION.

M7. LINTEL BLOCKS SHALL NOT BE USED AS BOND BEAM BLOCKS EXCEPT AT OPENINGS WHERE BOND BEAMS AND LINTELS COINCIDE.

ALUMINUM

A1. STRUCTURAL ALUMINUM YIELD STRENGTHS
STRUCTURAL ALUMINUM: Fy=35 KSI
STRUCTURAL ALUMINUM IS ALLOY 6061-T6 UNO

A2. DIMENSIONS:
TO CENTERLINES OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNO.

A3. ELEVATIONS:
TOP OF ALUMINUM REFERS TO TOP SURFACE OR FLANGE OF MEMBER UNO.

A4. WHEN FILLET WELD SIZE IS NOT INDICATED, PROVIDE MAXIMUM WELD SIZE FOR THE MATERIAL THICKNESS IN ACCORDANCE WITH THE LATEST EDITION OF THE "ALUMINUM DESIGN MANUAL" BY THE ALUMINUM ASSOCIATION.

A5. ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS OR CONCRETE:
CONTACT SURFACES SHALL BE PROVIDED WITH GALVANIC SEPARATION PER SPECIFICATIONS.

STAINLESS STEEL

SS1. DESIGN STRENGTHS:
STAINLESS BARS AND SHAPES - ASTM A484, Fy = 30 KSI
STAINLESS STEEL PLATE AND STRIP - ASTM A666 TYPE 316, Fy = 30 KSI

SS2. FASTENERS:
BOLTS - ASTM A193, TYPE 316
NUTS - ASTM A194, TYPE 316

SS3. WELDING MATERIALS AND PROCEDURES FOR WELDING STAINLESS STEEL SHALL BE IN ACCORDANCE WITH AWS D1.6.

STEEL

S1. DESIGN STRENGTHS:
WIDE FLANGE AND TEES: Fy=50 KSI
PIPES: Fy=35 KSI
STAINLESS STEEL Fy=33 KSI
HSS SECTIONS Fy=46 KSI
ALL OTHER PLATES AND SHAPES: Fy=36 KSI

S2. DIMENSIONS:
TO CENTERLINES OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNO.

S3. ELEVATIONS:
TOP OF STEEL REFERS TO TOP SURFACE OF MEMBER OR FLANGE UNO.

S4. WHEN FILLET WELD SIZE IS NOT INDICATED, PROVIDE MAXIMUM WELD SIZE BASED ON MATERIAL THICKNESS IN ACCORDANCE WITH AISI SPECIFICATIONS.

S5. ALL BOLTED STRUCTURAL CONNECTIONS ARE BEARING TYPE CONNECTIONS UNLESS OTHERWISE SPECIFIED TO BE SLIP-CRITICAL. PROVIDE LOAD INDICATING WASHERS AT SLIP-CRITICAL CONNECTIONS.

S6. CONFORM TO AISC 360, STEEL CONSTRUCTION MANUAL AND AISC 341, SEISMIC DESIGN MANUAL.

WOOD ROOF TRUSSES

WT1. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF CALCULATIONS AND SHOP DRAWINGS OF THE ROOF SYSTEM TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS SHALL INCLUDE THE FOLLOWING: TRUSS LAYOUT DRAWING, INDIVIDUAL TRUSS DESIGNS, TEMPORARY BRACING AND PERMANENT BRACING. SHOP DRAWINGS SHALL INDICATE THE TRUSS LAYOUT, TEMPORARY, AND PERMANENT BRACING LOCATIONS. THE CALCULATIONS AND SHOP DRAWINGS FOR THE PERMANENT BRACING SHALL INCLUDE THE BRACING MEMBER SIZE, LOCATIONS AND THE POSITIONING OF THE CONNECTOR PLATES. ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED ENGINEER.

WT2. WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER TO RESIST THE LOADS PER THE CODE AND AS SHOWN ON THE TRUSS LOADING DIAGRAMS WHERE SHOWN ON THE DRAWINGS.

WT3. TRUSSES SHALL BE DESIGNED UNDER THE FOLLOWING FORMAT:
1. LATERAL FORCES APPLIED TO THE TRUSSES SUCH AS DRAG TRUSS LOADS, COLLECTORS, ETC ARE INDICATED ON THE PLANS WHERE APPLICABLE.
2. ALL TRUSS TO TRUSS CONNECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER TO REVIEW ALL OF THE DESIGN SPECIFICATIONS, ROOF TRUSS SUPPORT CONDITIONS DRAG DETAILS AND TO INCORPORATE THESE REQUIREMENTS INTO THE ENGINEERING DESIGN OF THE TRUSS SYSTEM.

4. THE CONTRACTOR'S ENGINEER SHALL DEVELOP A TRUSS LAYOUT PLAN FOR THE TRUSS SYSTEM THAT CLEARLY INDICATES THE TRUSS VERTICAL SUPPORT CONDITIONS, TRUSS-TO-TRUSS CONNECTIONS, DRAG TRUSSES AND COLLECTORS, AND ANY OTHER FIELD INSTALLED REINFORCEMENT, INCLUDING FIELD-INSTALLED TOP CHORD REINFORCEMENT AT THE EAVES AS NECESSARY TO EXECUTE THE TRUSS SYSTEM DESIGN. THE TRUSS ROOF FRAMING PLAN SHALL BE SEALED BY THE CONTRACTOR'S ENGINEER AND SHALL BE INCLUDED WITH THE INDIVIDUAL TRUSS CT SHEETS. THE CONTRACTOR'S ENGINEER SHALL ALSO PROVIDE PROPER SUPERVISION OF ANY TRUSS COMPANY TECHNICIANS.
5. ALL TRUSS-TO-STRUCTURE (WALLS OR BEAMS) CONNECTIONS ARE THE RESPONSIBILITY OF THE ENGINEER OF RECORD.
6. TEMPORARY ERECTION BRACING AND PERMANENT WEB BRACING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER.

WT4. THE CONTRACTOR'S ENGINEER SHALL DESIGN ALL APPLIED DEAD, LIVE, WIND, AND SEISMIC LOADS PLUS THE LATERAL SUPPORT LOADS SHOWN BELOW. ADDITIONALLY, THE CONTRACTOR'S ENGINEER WILL BE RESPONSIBLE FOR DESIGNING THE TEMPORARY AND PERMANENT BRACING.

WT5. MINIMUM TRUSS GRAVITY FRAMING LOADS FOR THE TRUSS DESIGN SHALL BE PER THE TRUSS LOADING DIAGRAMS. SELF WEIGHT OF THE TRUSS OVER 3 PSF SHALL ME ADDED TO THE DEAD LOAD.

WT6. COORDINATE ADDITIONAL LOADS WITH MECHANICAL AND ELECTRICAL.

POST-INSTALLED ANCHORS

PA1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD (EOR) PRIOR TO INSTALLING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.

PA2. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

PA3. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE EOR ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PRODUCT ICC-ES CODE REPORTS SHALL BE INCLUDED WITH THE SUBMITTAL PACKAGE.

PA4. UNLESS NOTED OTHERWISE ON PLANS ACCEPTABLE CONCRETE ANCHORS PRODUCTS SHALL BE:
1. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC 193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
A. KWIK BOLT 3 (ICC-ES ESR-2302) AND KWIK BOLT TZ (ICC-ES ESR 1917) BY HILTI, INC.
B. TRUBOLT+ (ICC-ES ESR-2427) BY ITW RAMSET/REDHEAD.
C. STRONG BOLT (ICC0ES ESR-1771) AND STRONG BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG TIE ANCHOR SYSTEMS.
2. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC 308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
A. HIT-RE-500 SD (ICC-ES ESR 2322) SYSTEM ADHESIVE ANCHORS BY HILTI, INC.
B. EPOCON G5 (ICC-ES ESR-1137) ADHESIVE ANCHORING SYSTEMS BY SIMPSON STRONG TIE ANCHOR SYSTEMS.

PRE-ENGINEERED METAL BUILDING NOTES:

PMB1. THE DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY OTHERS, IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER, LICENSED IN THE PROJECT STATE. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND OR SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, AND THE SUPPLIER'S INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS OR MEMBERS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN THE DRAWINGS.

PMB2. GENERAL CONTRACTOR SHALL SUBMIT ACTUAL PRE-ENGINEERED FRAME AND COLUMN REACTIONS TO ENGINEER FOR FOUNDATION VERIFICATION PRIOR TO PLACING CONCRETE FOR FOUNDATIONS. NOTE THAT CHANGES IN FOUNDATIONS DUE TO THESE FINAL REACTIONS ARE LIKELY SINCE THE ORIGINAL FOUNDATION DESIGN IS BASED ON ASSUMED REACTIONS. THE OWNER AND ENGINEER WILL NOT ACCEPT ANY ADDITIONAL CHARGES FOR THESE FOUNDATION CHANGES.

POST-INSTALLED ANCHORS

PA1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD (EOR) PRIOR TO INSTALLING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.

PA2. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

PA3. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT DESIGN PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PRODUCT ICC-ES REPORTS SHALL BE INCLUDED WITH THE SUBMITTAL PACKAGE.

PA4. UNLESS NOTED OTHERWISE ON PLANS, ACCEPTANCE CONCRETE ANCHORS PRODUCTS SHALL BE:
1. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE ACCORDANCE WITH ACI355.2 AND ICC-ES AC 193. PRE-APPROVED MECHANICAL ANCHORS INCLUDES:
A. KWIK BOLT 3 (ICC-ES ESR-2302) AND KWIK BOLT TZ (ICC-ES ESR-1917) BY HILTI, INC.
B. TRUBOLT+ (ICC-ES ESR-2427) BY ITW RAMSET/REDHEAD.
C. STRONG BOLT (ICC-ES ESR-1771) AND STRONG BOLT 2 (ICC-ES ESR-3037) BY SIMPSON STRONG TIE ANCHOR SYSTEMS.
2. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308. ADHESIVE ANCHORS SHALL NOT BE USED IN OVERHEAD APPLICATIONS OR SUSTAINED TENSILE LOAD APPLICATIONS WHERE FAILURE WOULD RESULT IN RISK TO THE PUBLIC. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
A. HIT-RE-500 SD (ICC-ES ESR-2322) SYSTEM ADHESIVE ANCHORS BY HILTI, INC.
B. EPOCON G5 (ICC-ES ESR-1137) ADHESIVE ANCHORING SYSTEM BY ITW RAMSET/REDHEAD.
C. SET-XP (ICC-ES ESR-2508) ADHESIVE ANCHORING SYSTEMS BY SIMPSON STRONG TIE ANCHOR SYSTEMS.

STAINLESS STEEL

SS1. DESIGN STRENGTH:
STAINLESS BARS AND SHAPES - ASTM A484, Fy = 30 KSI
STAINLESS STEEL PLATE AND STRIP - ASTM A666 TYPE 316, Fy = 30 KSI

SS2. FASTENERS:
BOLTS - ASTM A193, TYPE 316
NUTS - ASTM A194, TYPE 316

SS3. WELDING MATERIALS AND PROCEDURES FOR WELDING STAINLESS STEEL SHALL BE IN ACCORDANCE WITH AWS D1.6.

DEFERRED SUBMITTALS

DS1. DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK.

DS2. THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS PER IBC SECTION 107.3.4.1 THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OF SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS, PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE THE CONTRACTOR SHALL SUBMIT THE REQUIRED ENGINEER CERTIFICATION SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S COMMENT FORM, ALONG WITH THE COMPLETED FINAL SUBMITTAL SHALL THEN BE FILED BY THE CONTRACTOR AND ACKNOWLEDGED AS ACCEPTED BY THE PERMITTING AGENCY PRIOR TO INSTALLATION OF THESE ITEMS.

Table with 2 columns: SPECIFICATION SECTIONS, ITEM. Rows include: 03 41 33 PRECAST AND PRESTRESSED CONCRETE, 06 17 53 METAL PLATE CONNECTED WOOD TRUSSES, 05 52 02 WELDED ALUMINUM RAILINGS, 05 52 43 FIBERGLASS REINFORCED PLASTIC FABRICATIONS

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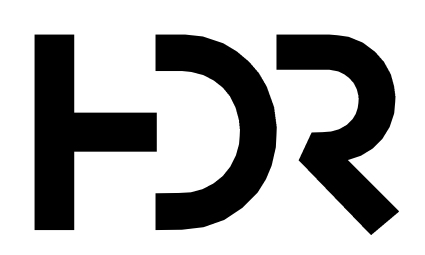
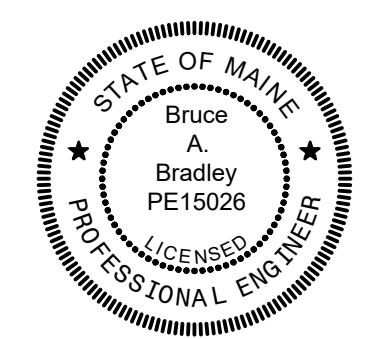


Table with 3 columns: ISSUE, DATE, DESCRIPTION. Row: 05/03/2024 ISSUED FOR BID

Table with 2 columns: PROJECT MANAGER ANDREW GURSKI, PROJECT NUMBER 10353741. Roles include CIVIL, STRUCTURAL, ARCHITECTURAL, PROCESS, MECHANICAL, ELECTRICAL.

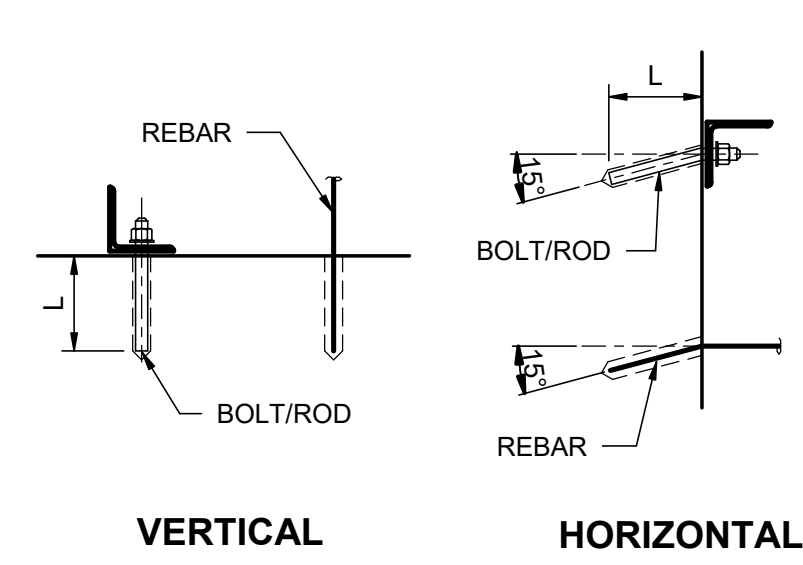


NEW GLOUCESTER STATE FISH HATCHERY Phase III Facility Conversion

GENERAL STRUCTURAL NOTES

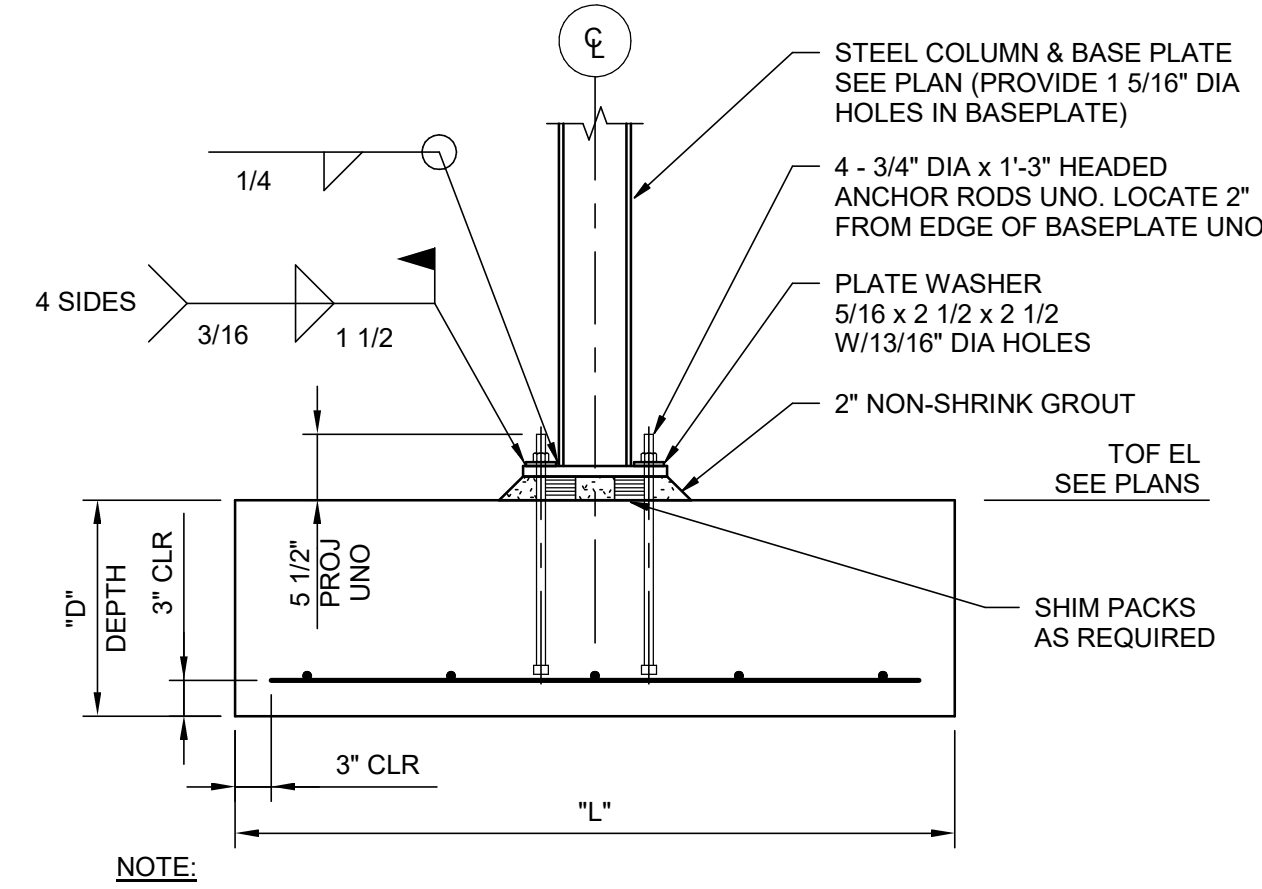
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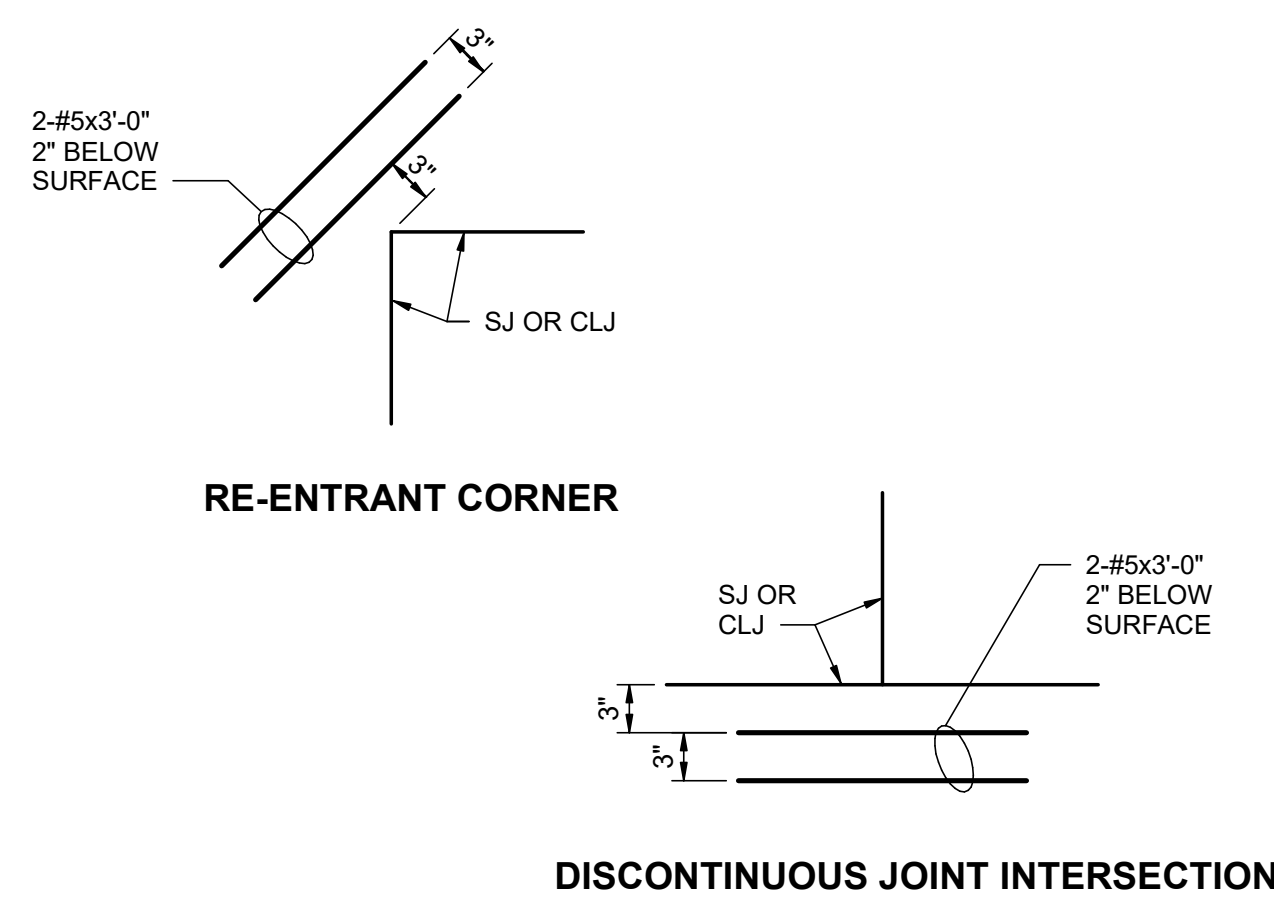
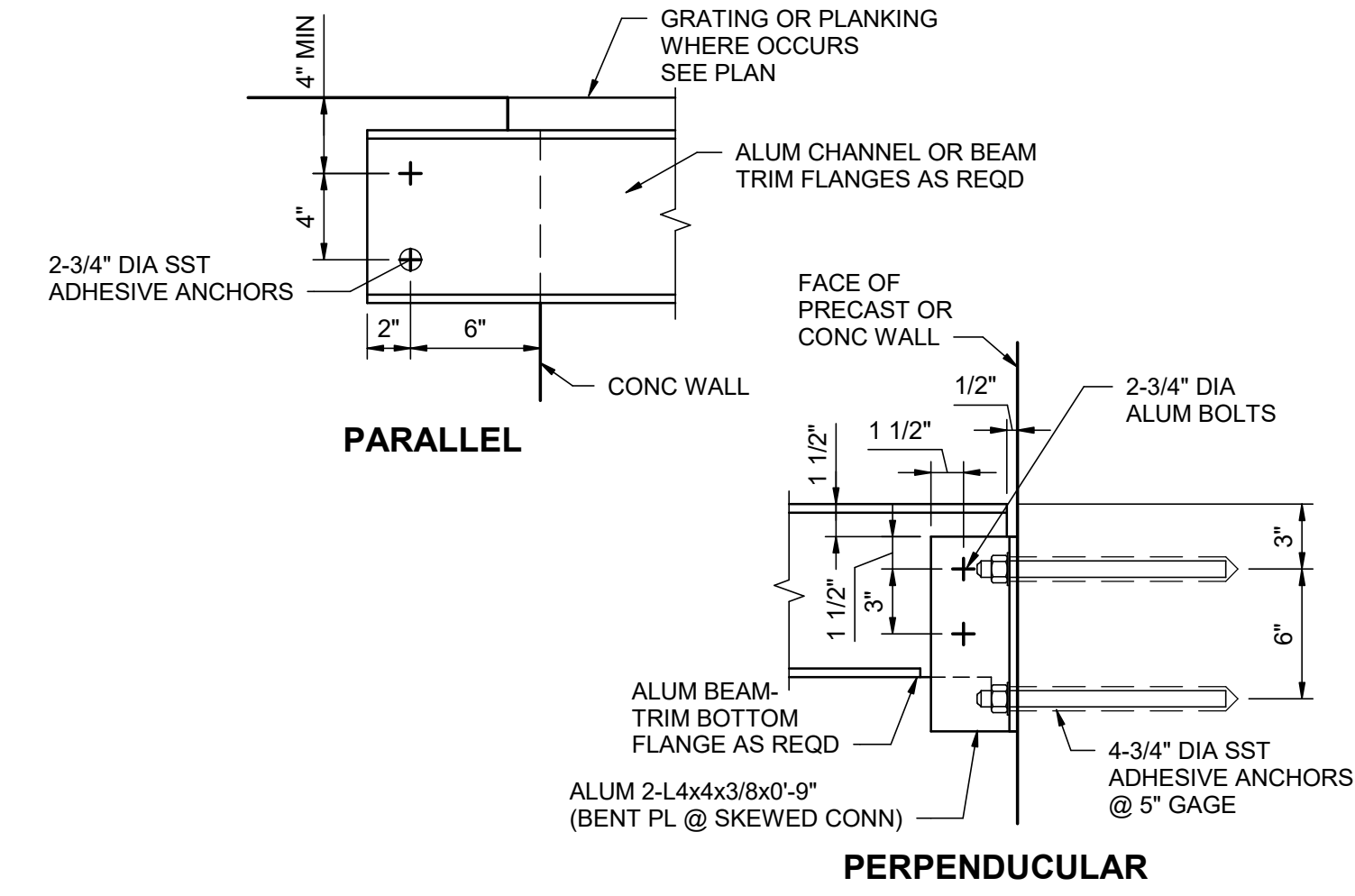


REINFORCING BARS	ANCHOR BOLTS/RODS	
	BAR SIZE	EMBED LENGTH (L)
#3	4"	3/8"
#4	5"	1/2"
#5	6"	5/8"
#6	7"	3/4"
#7	8"	7/8"
#8	9"	1"
#9	10"	
#10	12"	

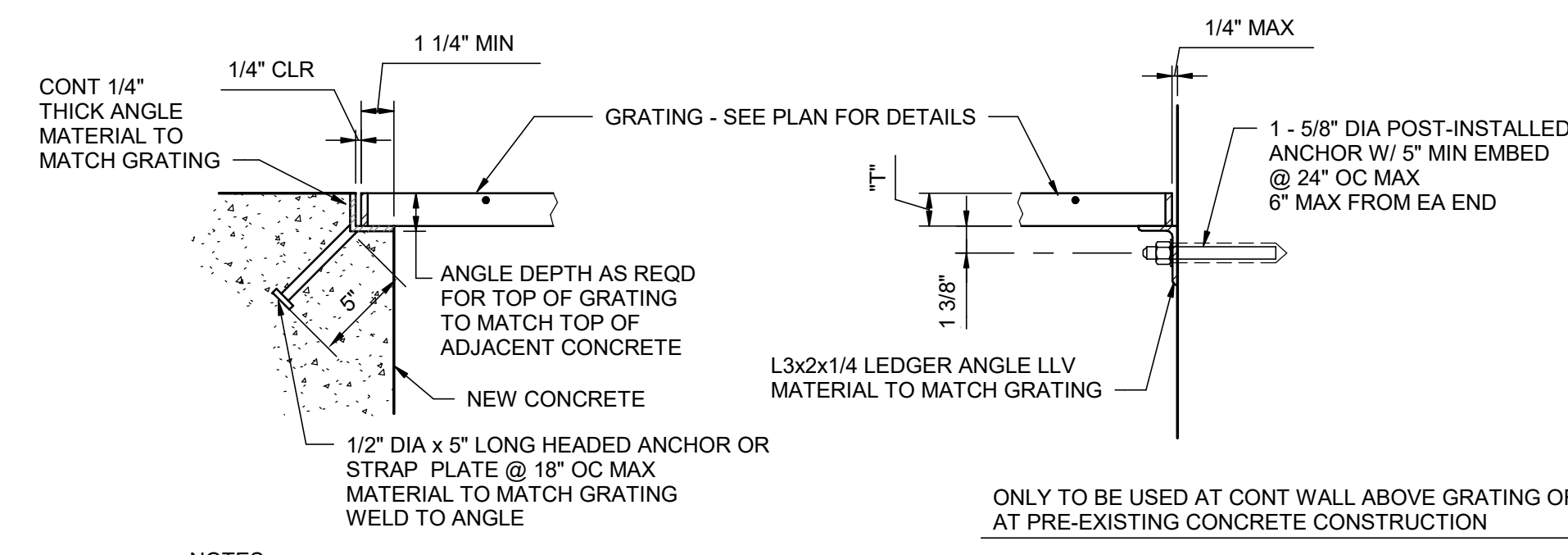
- NOTES:**
- ADHESIVE TYPE IS SUBJECT TO APPROVAL OF THE ENGINEER OF RECORD.
 - EMBEDMENT LENGTHS SHOWN ARE MINIMUM UNLESS NOTED OTHERWISE ON DRAWINGS OR AS OTHERWISE REQUIRED BY SPECIFICATIONS.
 - FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATION SECTION 03 15 19.



- NOTE:**
- FOR FOOTING, SEE PLAN AND SCHEDULE FOR SIZE AND REINFORCING.

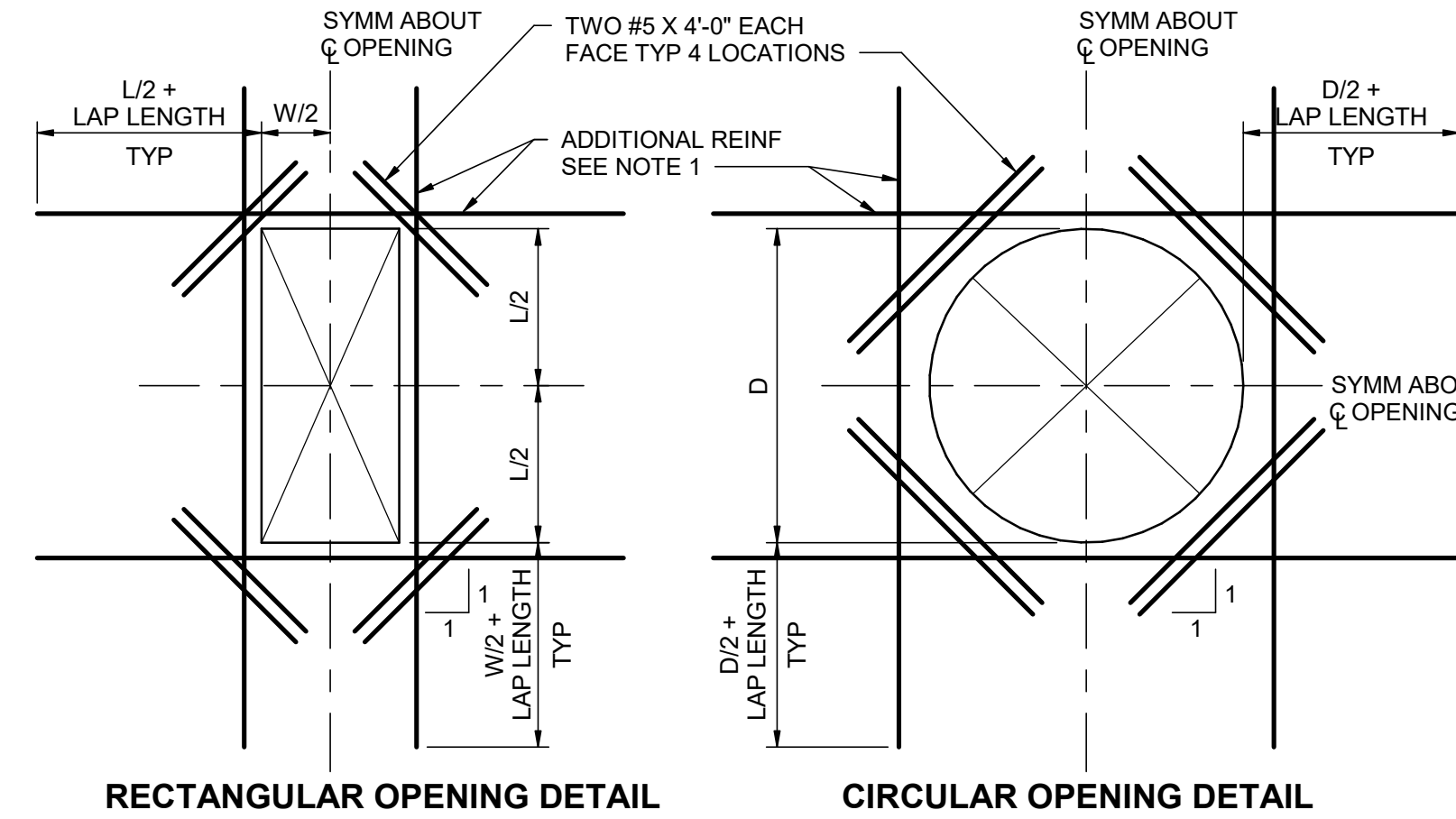


1 ADHESIVE ANCHOR DETAIL AND SCHEDULE
NOT TO SCALE



- NOTES:**
- GRATING SIZE PER CONTRACT DOCUMENTS.
 - ALL ENDS AND OPENINGS SHALL BE BANDED, SEE SPECIFICATION.
 - ATTACH GRATING TO ALL SUPPORT ANGLES WITH BOLTED CLIPS, SPACED AT 2'-0" MAX CENTERS.
 - PROVIDE DISSIMILAR MATERIAL PROTECTION FOR ALUMINUM IN CONTACT WITH CONCRETE PER SPECIFICATION.

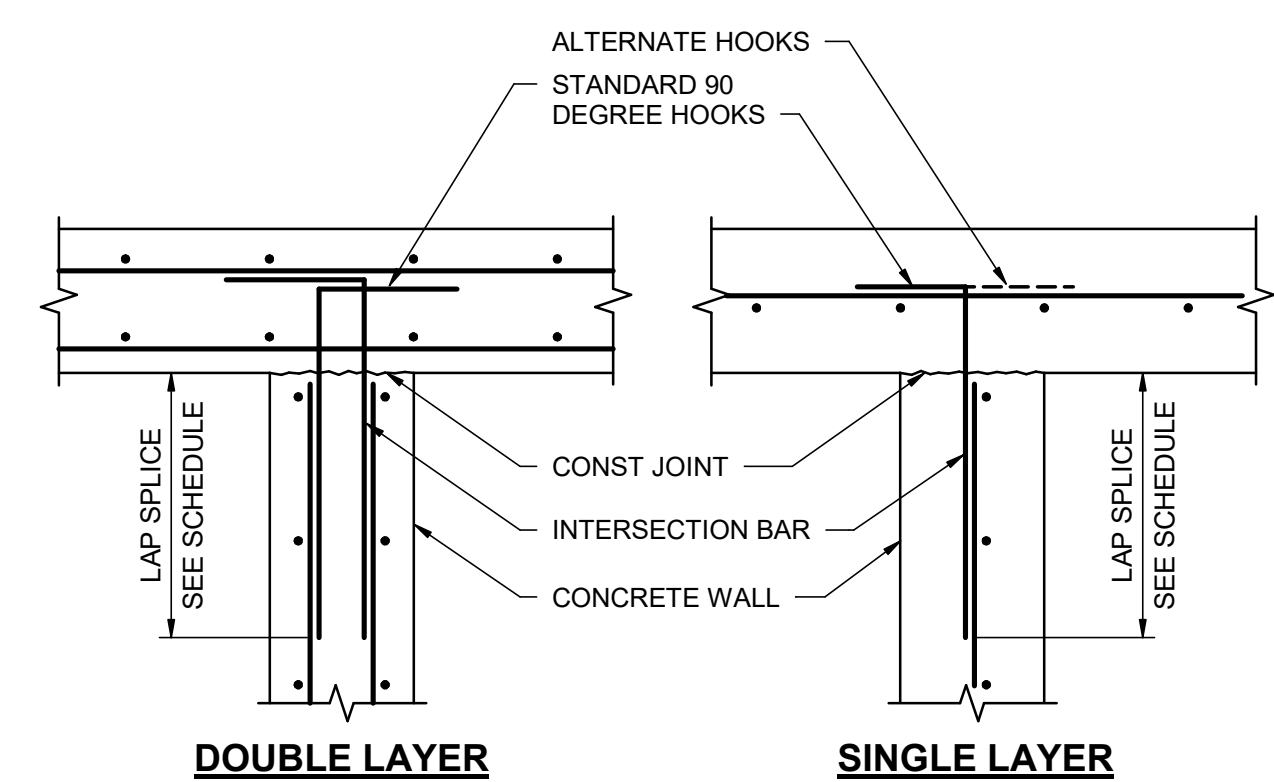
2 SPREAD FOOTING
NOT TO SCALE



- NOTES:**
- PROVIDE ADDITIONAL REINFORCING THE SAME SIZE AS DISCONTINUOUS REINFORCEMENT AT OPENING. QUANTITY OF REINFORCING IN EACH DIRECTION SHALL BE EQUAL TO OR ONE GREATER THAN THE NUMBER OF DISCONTINUOUS BARS. PLACE 1/2 OF ADDITIONAL REINFORCING BARS EACH SIDE OF OPENING. PLACE ADDITIONAL REINFORCEMENT AT 3" OC (TYPICAL BOTH DIRECTIONS AND ALL LAYERS OF REINFORCEMENT). START FIRST BAR 2" CLEAR TO OPENING.
 - EXTEND ADDITIONAL REINFORCING BEYOND EDGE OF OPENING AS SHOWN ABOVE. ADDITIONAL BARS MAY TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK WHERE THE LENGTH OF THE WALL WILL NOT PERMIT BARS TO EXTEND AS SHOWN ABOVE.
 - TYPICAL WALL OR SLAB REINFORCING NOT SHOWN FOR CLARITY. TERMINATE TYPICAL REINFORCING 2" CLEAR TO OPENING.
 - OPENINGS 12" OR LESS IN SLABS AND WALLS, NO EXTRA REBARS ARE REQUIRED UNLESS SHOWN OTHERWISE. TYPICAL REINFORCING SHALL BE RESPACED (NOT CUT) TO ALLOW FOR OPENINGS TO BE MADE.
 - UNLESS SHOWN OTHERWISE ON DRAWINGS, PROVIDE EXTRA REINFORCING AROUND OPENINGS AS SHOWN AND INDICATED ABOVE.
 - PROVIDE ADDITIONAL DOWELS PER NOTE 1 ABOVE FOR ALL OPENINGS NEAR THE FLOOR SLAB, BASE SLAB, OR CORNERS.

3 ALUMINUM BEAM TO WALL CONNECTION
NOT TO SCALE

5 GRATING AND SUPPORT
NOT TO SCALE

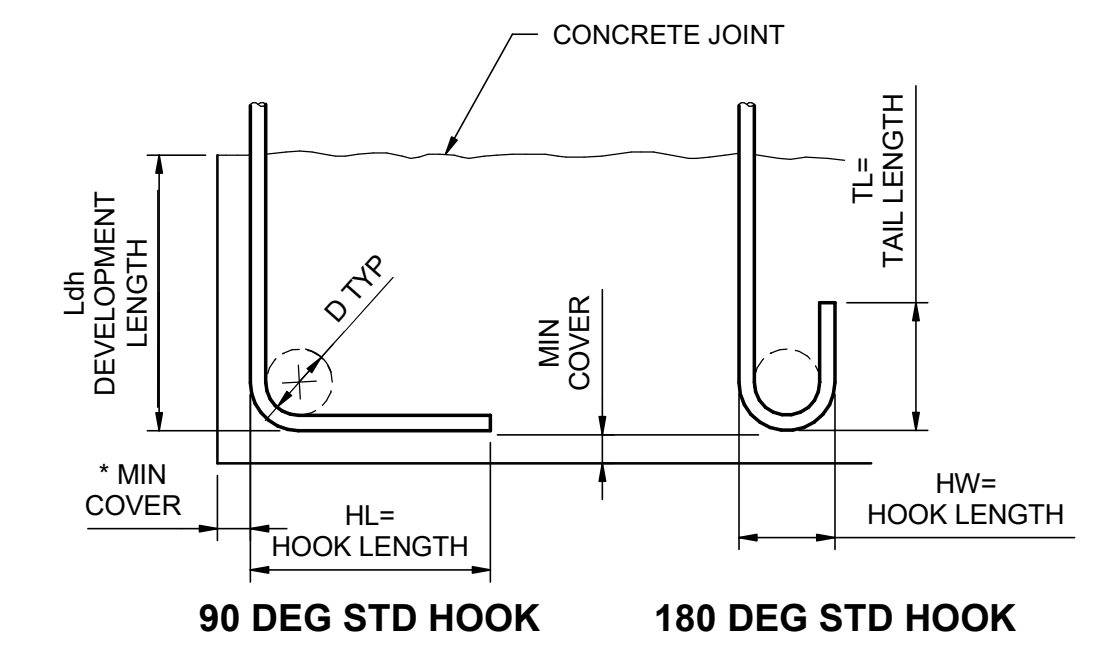


- NOTE:**
- INTERSECTION BARS TO BE SAME SPACING AS HORIZONTAL BARS.

6 EXTRA REINFORCING AROUND OPENINGS
NOT TO SCALE

LAP SPLICE AND EMBEDMENT LENGTHS		
BAR	BARS SPACED GREATER THAN 4"	BARS SPACED LESS THAN OR EQUAL TO 4"
#3	14"	20"
#4	19"	32"
#5	29"	46"
#6	39"	62"
#7	55"	87"
#8	69"	107"
#9	76"	116"
#10	97"	140"
#11	120"	146"

- NOTES:**
- PROVIDE MINIMUM LAP SPLICE LENGTHS AND EMBEDMENTS PER TABLE UNLESS NOTED OTHERWISE. EMBEDMENT LENGTH EQUALS THE LAP SPLICE LENGTH UNLESS OTHERWISE NOTED.
 - BAR SPACING AT LAP SPLICE IS THE MINIMUM CLEAR DISTANCE BETWEEN LAPPED BARS PLUS ONE BAR DIAMETER.
 - ALL SPLICES TO BE CONTACT SPLICES AND WIRED TOGETHER UNLESS OTHERWISE APPROVED BY THE ENGINEER.



BAR SIZE GRADE 60	HL	HW	TL	D	f _c =4.0 OR 4.5 KSI	
					L _{dh} *	L _{dh} *
#3	6"	3"	3"	2 1/4"	6"	6"
#4	8"	4"	4 1/2"	3"	7"	7"
#5	10"	5"	5"	3 3/4"	9"	9"
#6	1'-0"	6"	6"	4 1/2"	10"	10"
#7	1'-2"	7"	7"	5 1/4"	12"	12"
#8	1'-4"	8"	8"	6"	14"	14"
#9	1'-7"	11 3/4"	10 1/2"	9 1/2"	15"	15"
#10	1'-10"	1'-1 1/4"	11 1/2"	10 3/4"	17"	17"
#11	2'-0"	1'-2 3/4"	1'-1"	12"	19"	19"

* COMPLYING WITH MINIMUM COVER REQUIREMENTS OF ACI 318, 12.5.3. OTHERWISE L_{dh} MUST BE RE-CALCULATED.

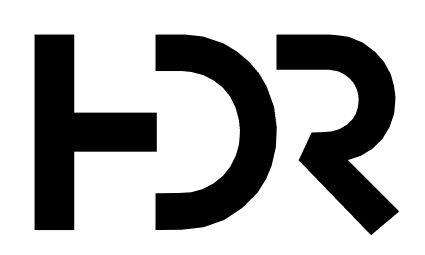
7 WALL REINFORCING AT INTERSECTION
NOT TO SCALE

8 WALL REINFORCING AT CORNER
NOT TO SCALE

9 CONCRETE REINFORCING LAP AND EMBEDMENT SCHEDULE
NOT TO SCALE

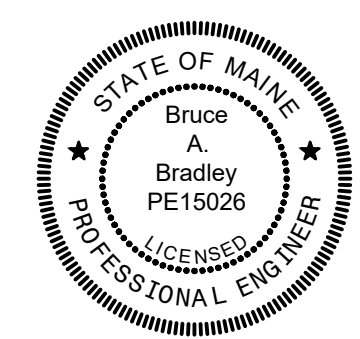
10 REINFORCING HOOK SCHEDULE
NOT TO SCALE

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ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



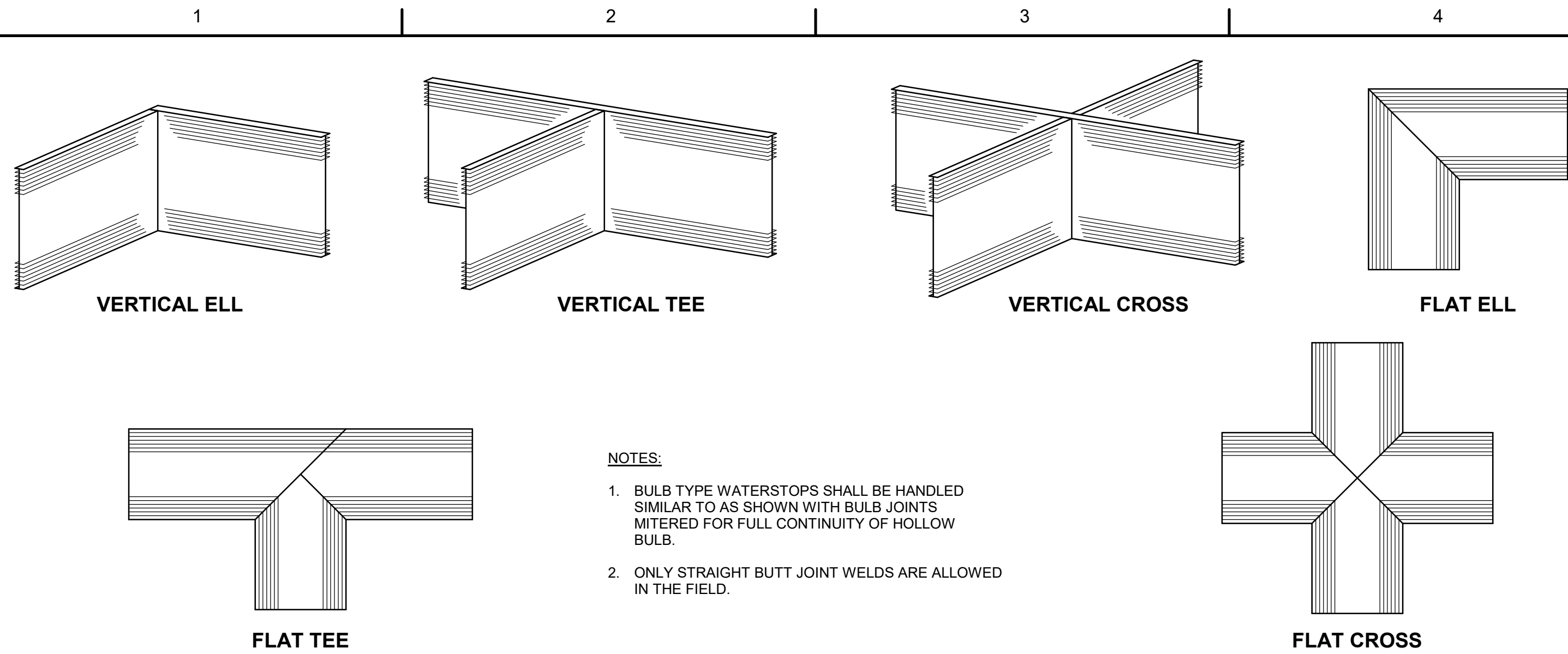
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL STRUCTURAL DETAILS 1



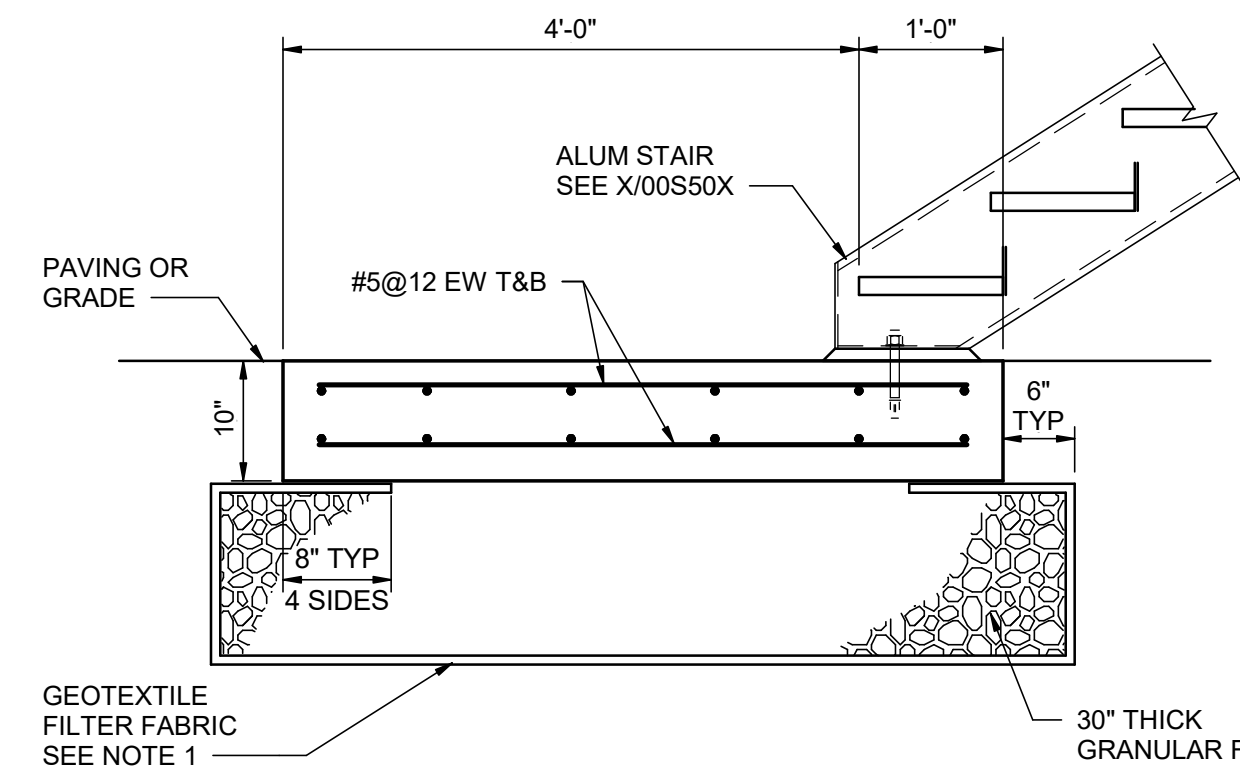
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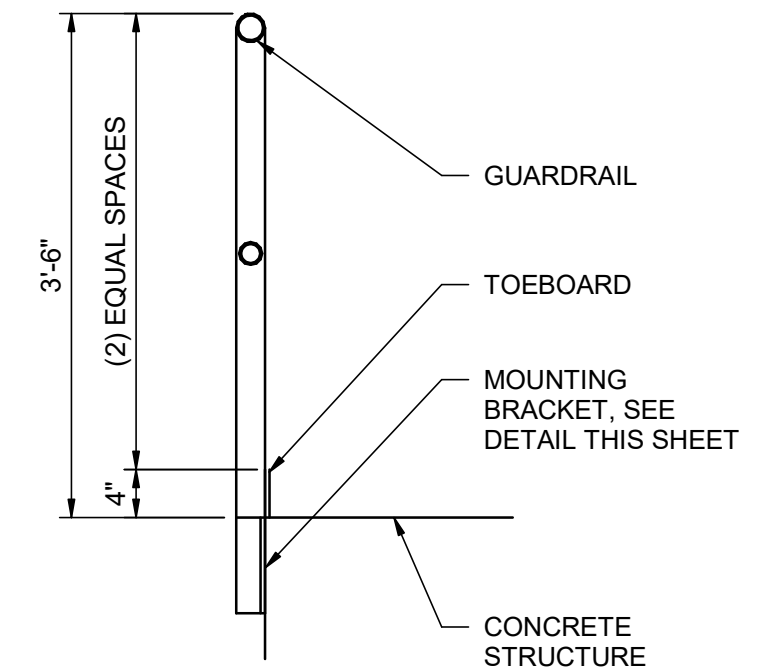
- NOTES:**
- BULB TYPE WATERSTOPS SHALL BE HANDLED SIMILAR TO AS SHOWN WITH BULB JOINTS MITERED FOR FULL CONTINUITY OF HOLLOW BULB.
 - ONLY STRAIGHT BUTT JOINT WELDS ARE ALLOWED IN THE FIELD.

1 SHOP FABRICATED WATERSTOP
NOT TO SCALE

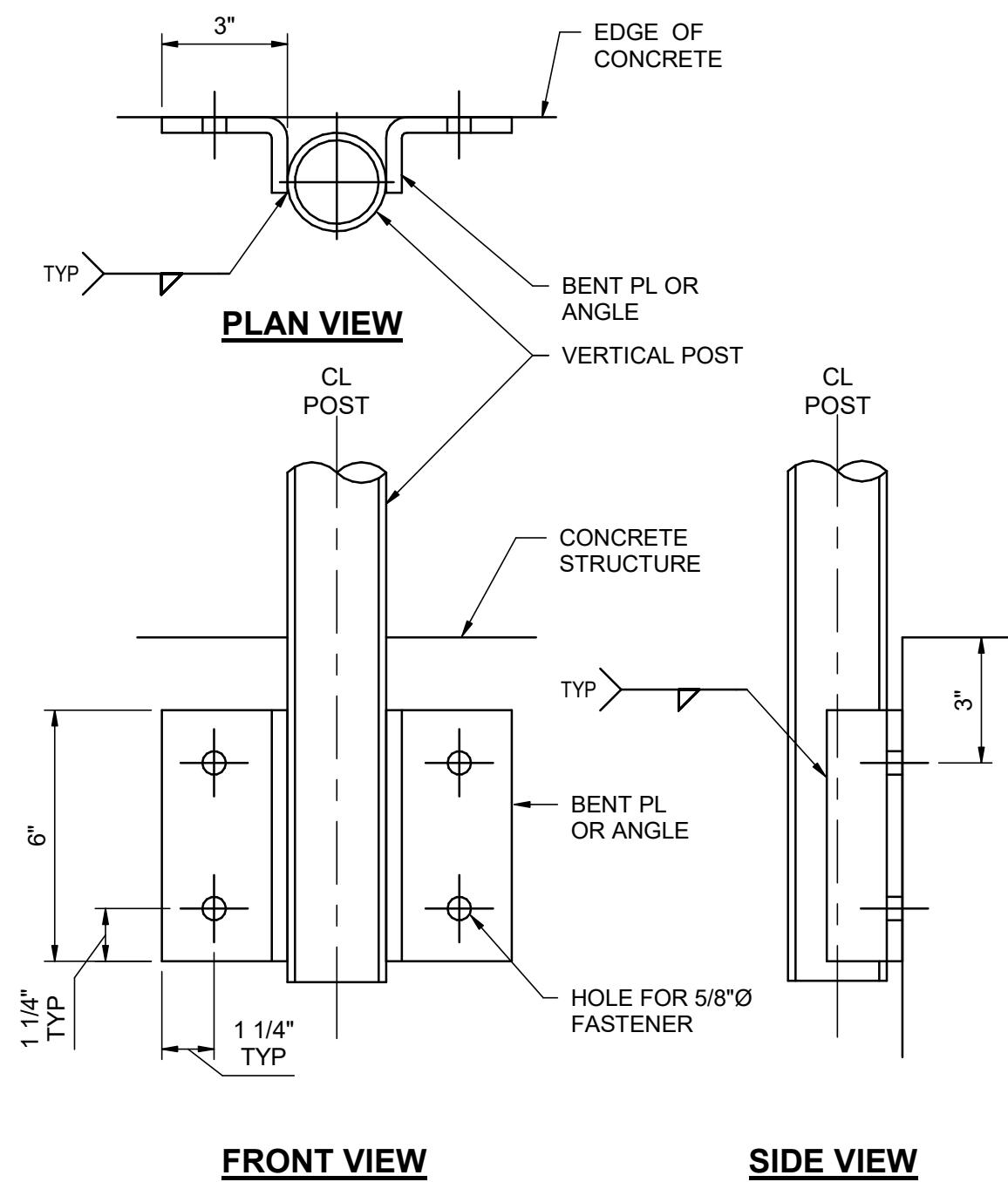


- NOTES:**
- LAP FILTER FABRIC 12" AT SPLICES AND COVER PUNCTURES AND TEARS WITH AN ADDITIONAL LAYER OF FABRIC LAPPED 12" ALL AROUND.

2 STAIR PAD
NOT TO SCALE

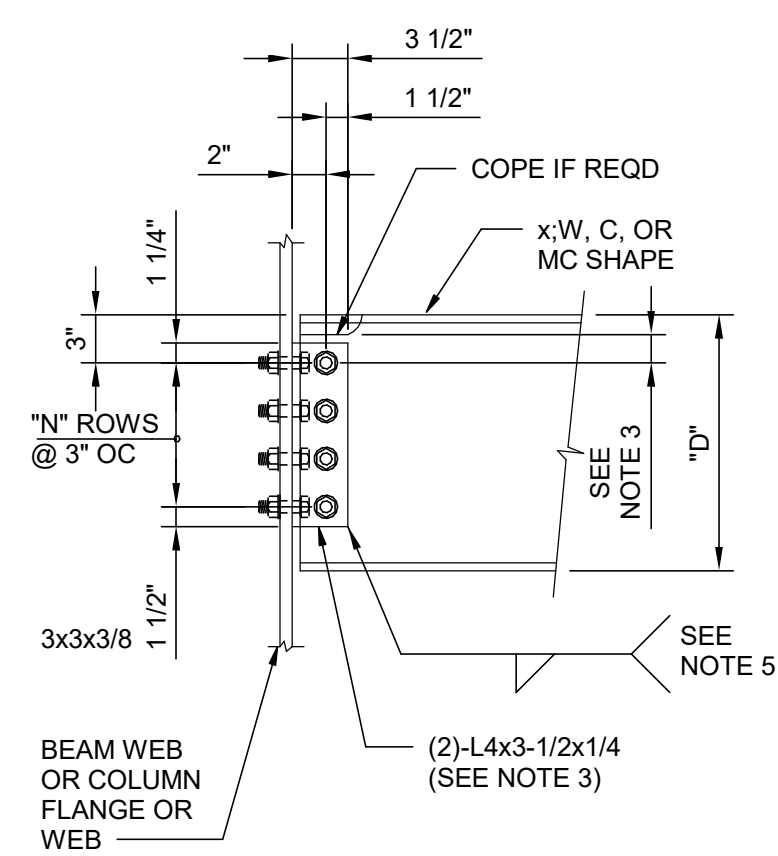


3 MTL-GUARDRAIL - SIDE MOUNTED - CONC
NOT TO SCALE



- NOTES:**
- TOEBOARD NOT SHOWN.

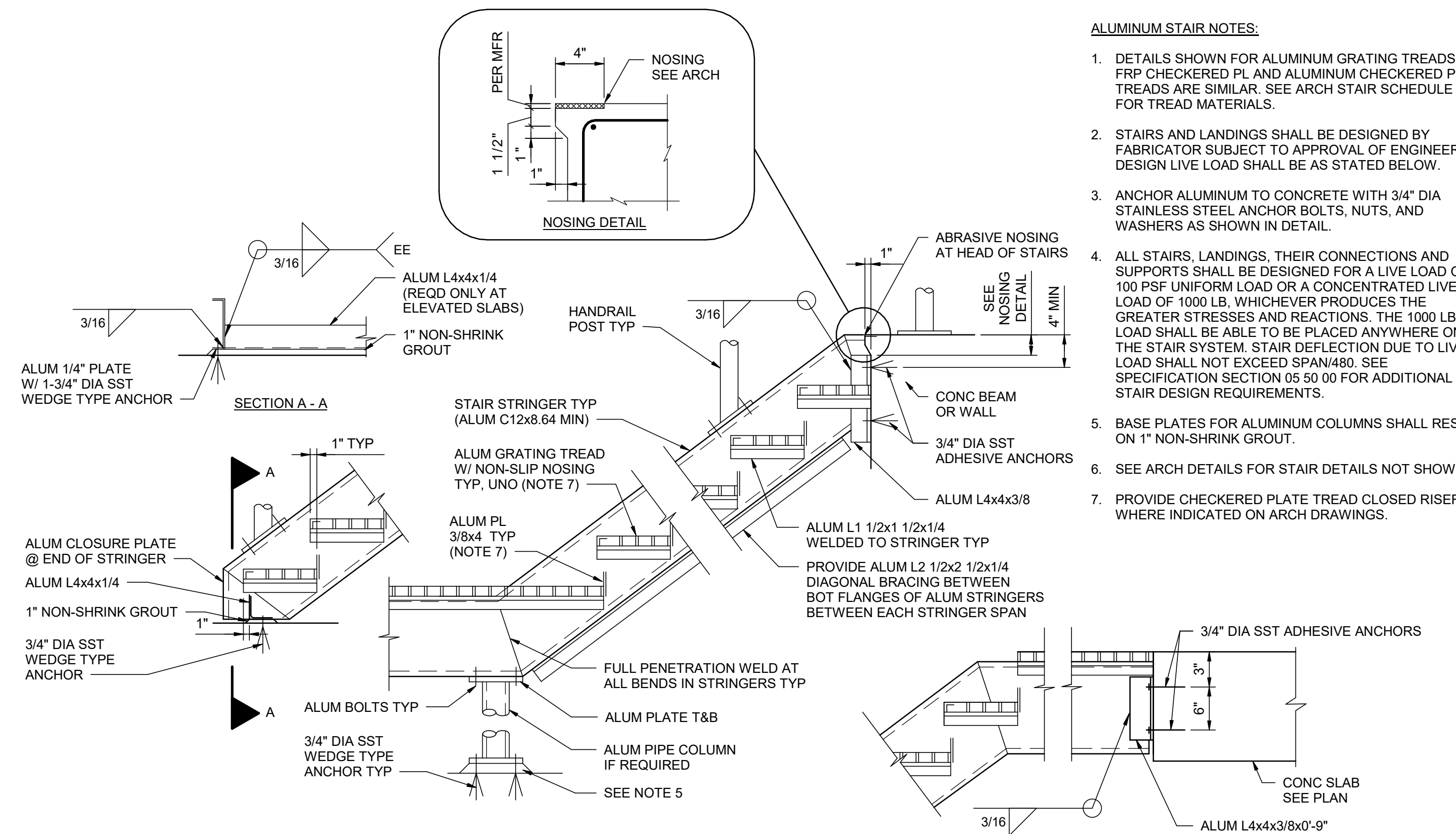
4 MTL-GUARDRAIL - SIDE MOUNTED BRACKET - CONC
NOT TO SCALE



- NOTES:**
- ALL BOLTS SHALL BE 3/4" Ø A325-N FOR STEEL CONSTRUCTION. ALL BOLTS SHALL BE 3/4" Ø SST FOR ALL OTHER CONSTRUCTION.
 - PROVIDE MINIMUM NUMBER OF BOLT ROWS "N" SHOWN AS THE TYPICAL CONN. INCREASE NUMBER OF ROWS AND / OR BOLT DIA. IF INDICATED ON PLANS.
 - MIN. DISTANCE FROM ϵ OF TOP BOLT TO A COPE SHALL BE 1-1/2". WHERE DEEP COPES ARE REQD., INCREASE DISTANCE FROM TOP OF BEAM TO ϵ OF TOP BOLT.
 - USE STANDARD OR SHORT HORIZONTAL SLOTTED HOLES AS REQUIRED.
 - WELD DOUBLE ANGLES TO BEAM WEB IN LIEU OF BOLTING AT CONTRACTORS OPTION.

5 TYPICAL BEAM CONNECTION
NOT TO SCALE

STANDARD BOLTED CONNECTION SCHEDULE		
NOMINAL BEAM SIZE "D"	NUMBER OF BOLT ROWS "N"	WELD SIZE
W8	2	3/16
W10	2	3/16
W12	3	3/16
W14	3	3/16
W16	3	1/4
W18	4	1/4
W21	4	1/4
W24	4	1/4
W27	5	1/4
W30	5	5/16
W33	6	5/16
W36	6	5/16

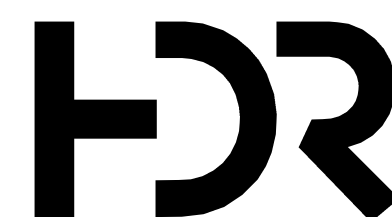


- ALUMINUM STAIR NOTES:**
- DETAILS SHOWN FOR ALUMINUM GRATING TREADS. FRP CHECKERED PL AND ALUMINUM CHECKERED PL TREADS ARE SIMILAR. SEE ARCH STAIR SCHEDULE FOR TREAD MATERIALS.
 - STAIRS AND LANDINGS SHALL BE DESIGNED BY FABRICATOR SUBJECT TO APPROVAL OF ENGINEER. DESIGN LIVE LOAD SHALL BE AS STATED BELOW.
 - ANCHOR ALUMINUM TO CONCRETE WITH 3/4" DIA STAINLESS STEEL ANCHOR BOLTS, NUTS, AND WASHERS AS SHOWN IN DETAIL.
 - ALL STAIRS, LANDINGS, THEIR CONNECTIONS AND SUPPORTS SHALL BE DESIGNED FOR A LIVE LOAD OF 100 PSF UNIFORM LOAD OR A CONCENTRATED LIVE LOAD OF 1000 LB, WHICHEVER PRODUCES THE GREATER STRESSES AND REACTIONS. THE 1000 LB LOAD SHALL BE ABLE TO BE PLACED ANYWHERE ON THE STAIR SYSTEM. STAIR DEFLECTION DUE TO LIVE LOAD SHALL NOT EXCEED SPAN/480. SEE SPECIFICATION SECTION 05 50 00 FOR ADDITIONAL STAIR DESIGN REQUIREMENTS.
 - BASE PLATES FOR ALUMINUM COLUMNS SHALL REST ON 1" NON-SHRINK GROUT.
 - SEE ARCH DETAILS FOR STAIR DETAILS NOT SHOWN.
 - PROVIDE CHECKERED PLATE TREAD CLOSED RISERS WHERE INDICATED ON ARCH DRAWINGS.

- NOTE:**
- FOR ADDL INFORMATION, SEE 1A

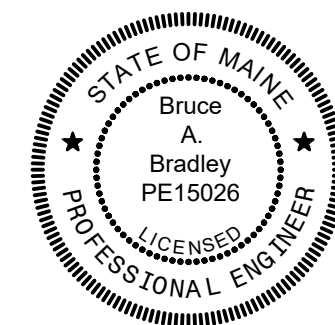
6 ALUMINUM STAIR
NOT TO SCALE

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ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

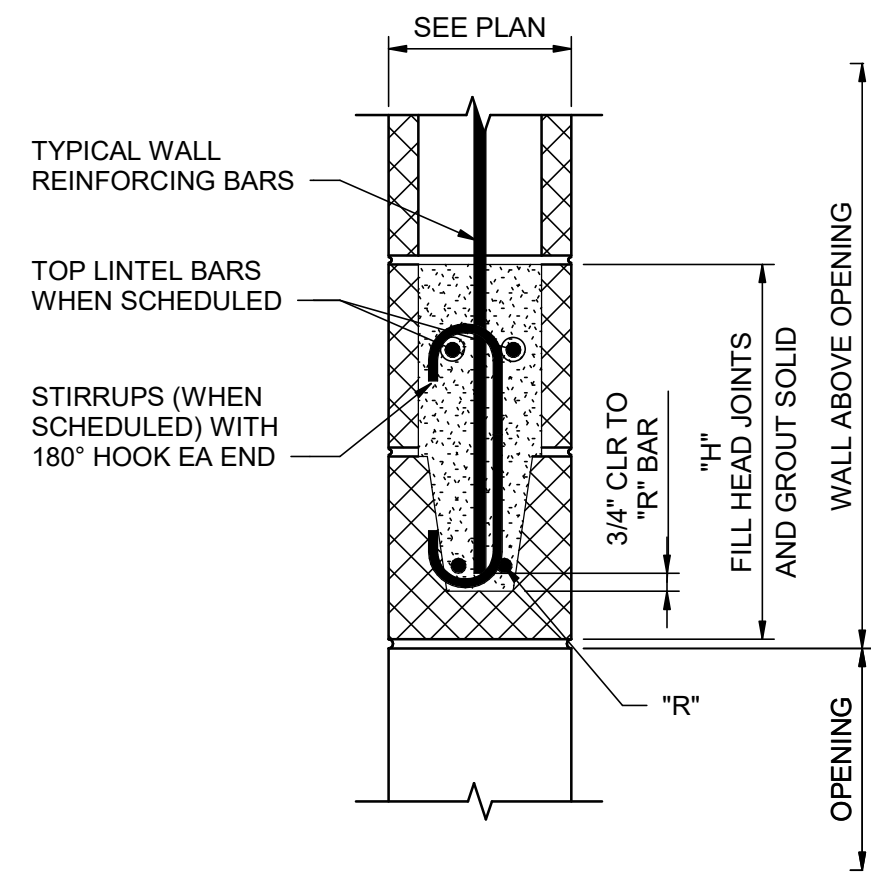
GENERAL STRUCTURAL DETAILS 3



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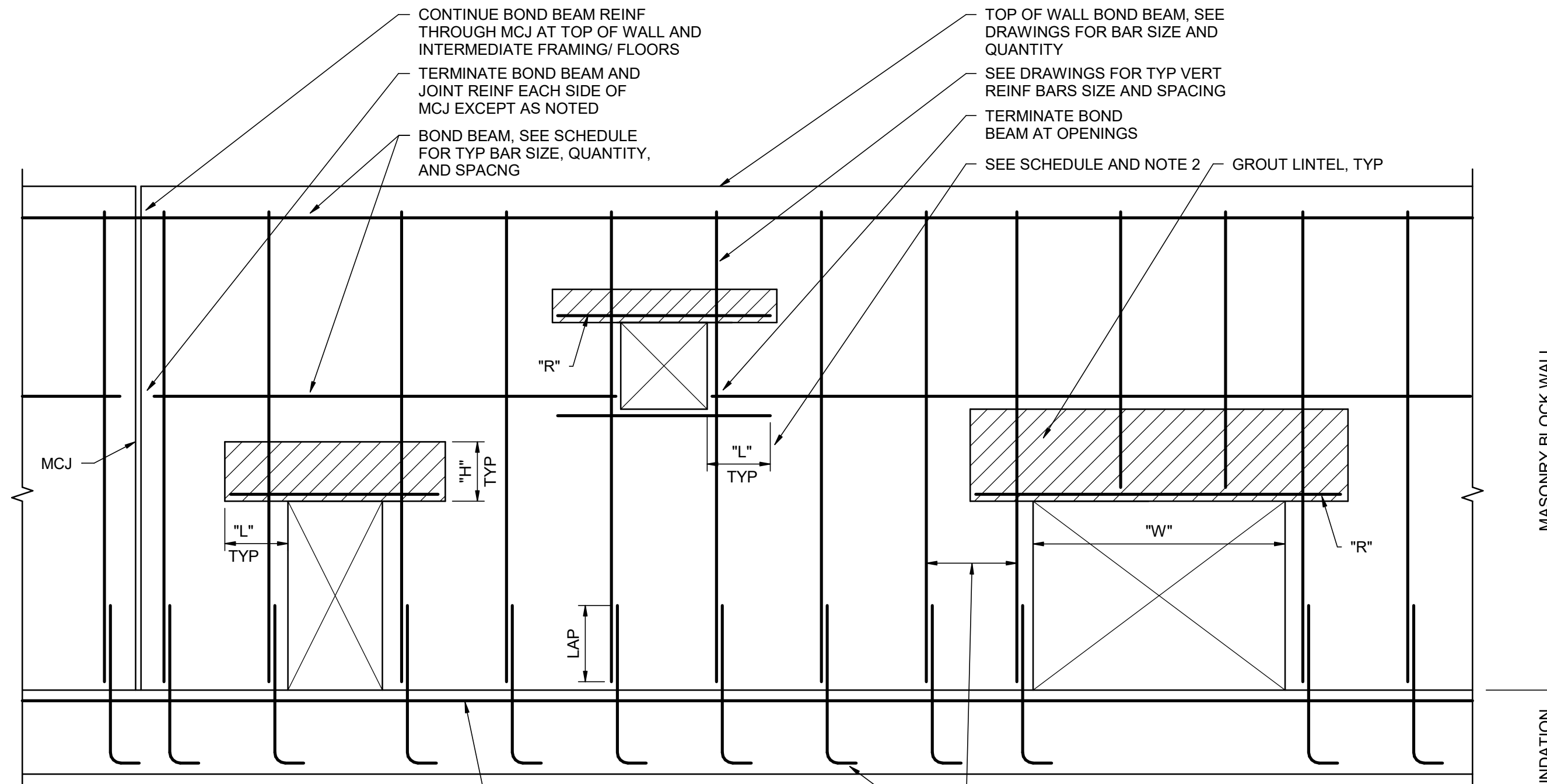
LINTEL REINFORCEMENT SCHEDULE						
MARK	"W"	"R"	"L"	"H"	STIRRUPS	REMARKS
ML-1	1'-4" THRU 3'-4"	(1) #5	25"	8"	-	-
ML-2	1'-4" THRU 3'-4"	(2) #5	25"	16"	-	-
ML-3	3'-5" THRU 6'-8"	(2) #5	25"	24"	-	-
ML-4	6'-9" THRU 10'-0"	(2) #6	30"	32"	-	-
ML-5	10'-1" THRU 12'-0"	(2) #7	35"	32"	#3@16"	-



LINTEL AT OPENING

NOTES:

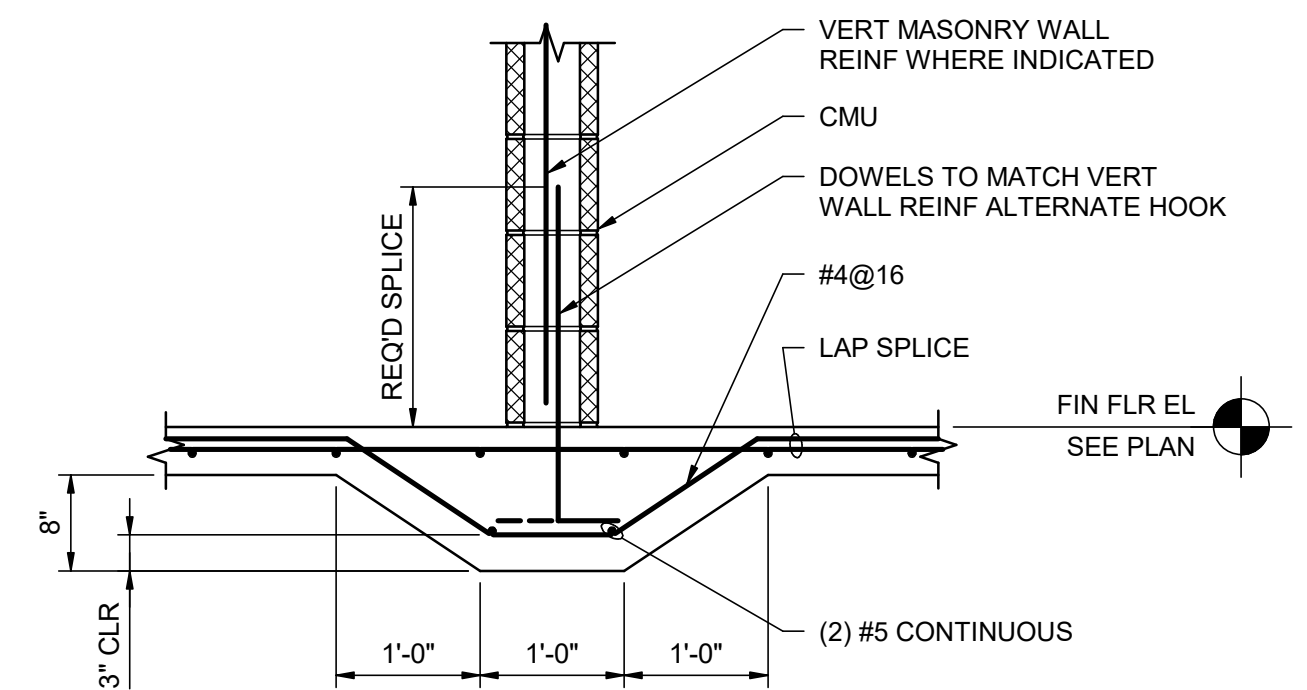
1. OPENINGS 8" OR LESS WIDE MAY OCCUR WITHOUT LINTEL REINFORCING AS LONG AS NO REINFORCINGS IS INTERRUPTED.
2. ML-1 TO BE USED ONLY AT NON-LOAD BEARING SITUATIONS.
3. SEE DRAWINGS FOR LINTEL TYPES. WHERE LINTEL TYPES ARE NOT SHOWN, PROVIDE LINTELS FROM THE ABOVE SCHEDULE BASED ON THICKNESS OF WALL AND MAX CLEAR OPENING WIDTH AND VERIFY LINTEL TYPE W/ ENGINEER PRIOR TO CONSTRUCTION.



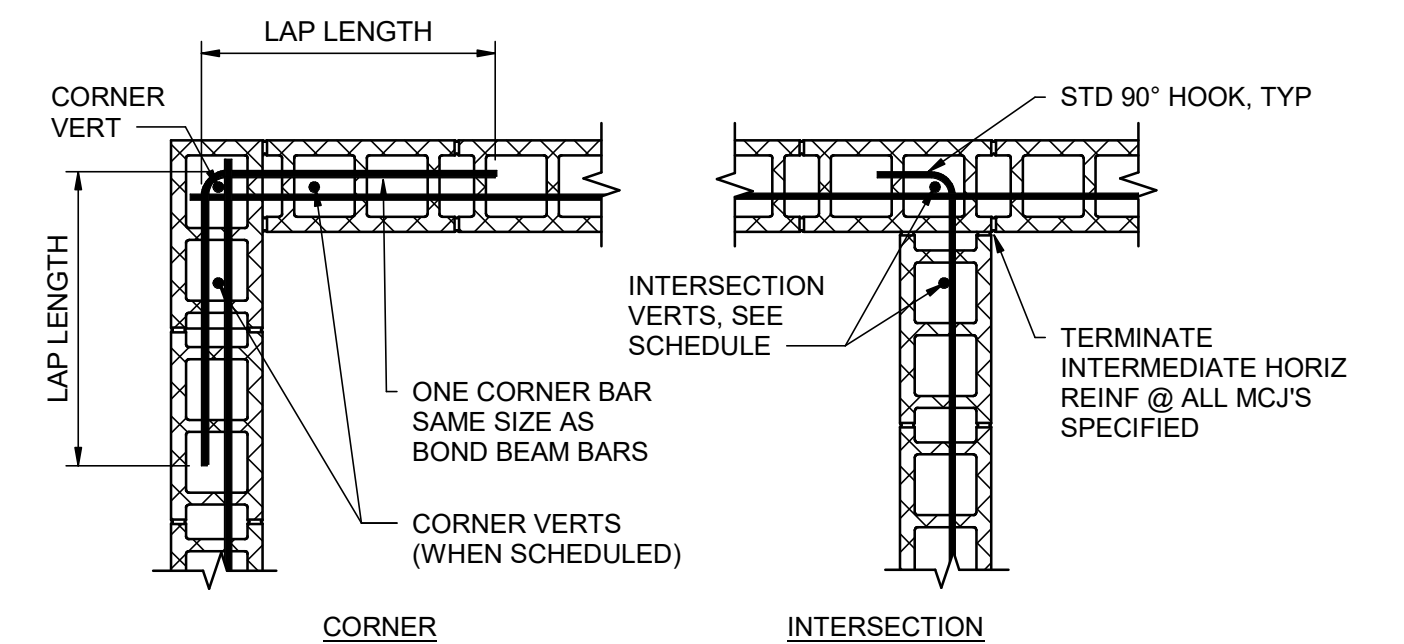
WALL ELEVATION

NOTES:

1. ONLY LINTEL GROUT IS SHOWN. GROUT SOLID ALL REINFORCED CELLS. SEE CMU WALL REINFORCING SCHEDULE.
2. WHERE OTHER DRAWING DETAILS INDICATE SOLID MASONRY SILL, PLACE BOND BEAM REINF IN FIRST COURSE BELOW SOLID CMU.
3. PROVIDE BOND BEAM AT ALL ELEVATED FLOORS WITH SAME REINFORCING AS TOP OF WALL. UNO.
4. STRAIGHT BARS EMBEDDED ONE CONCRETE LAP LENGTH INTO CONC FOUNDATION MAY BE USED AT CONTRACTOR'S OPTION.
5. LINTEL REINFORCING AND BARS PASSING THROUGH "H" SHALL NOT BE SPLICED.
6. SHORE LINTEL MINIMUM 7 DAYS AFTER GROUTING OR UNTIL GROUT ATTAINS FULL DESIGN STRENGTH.

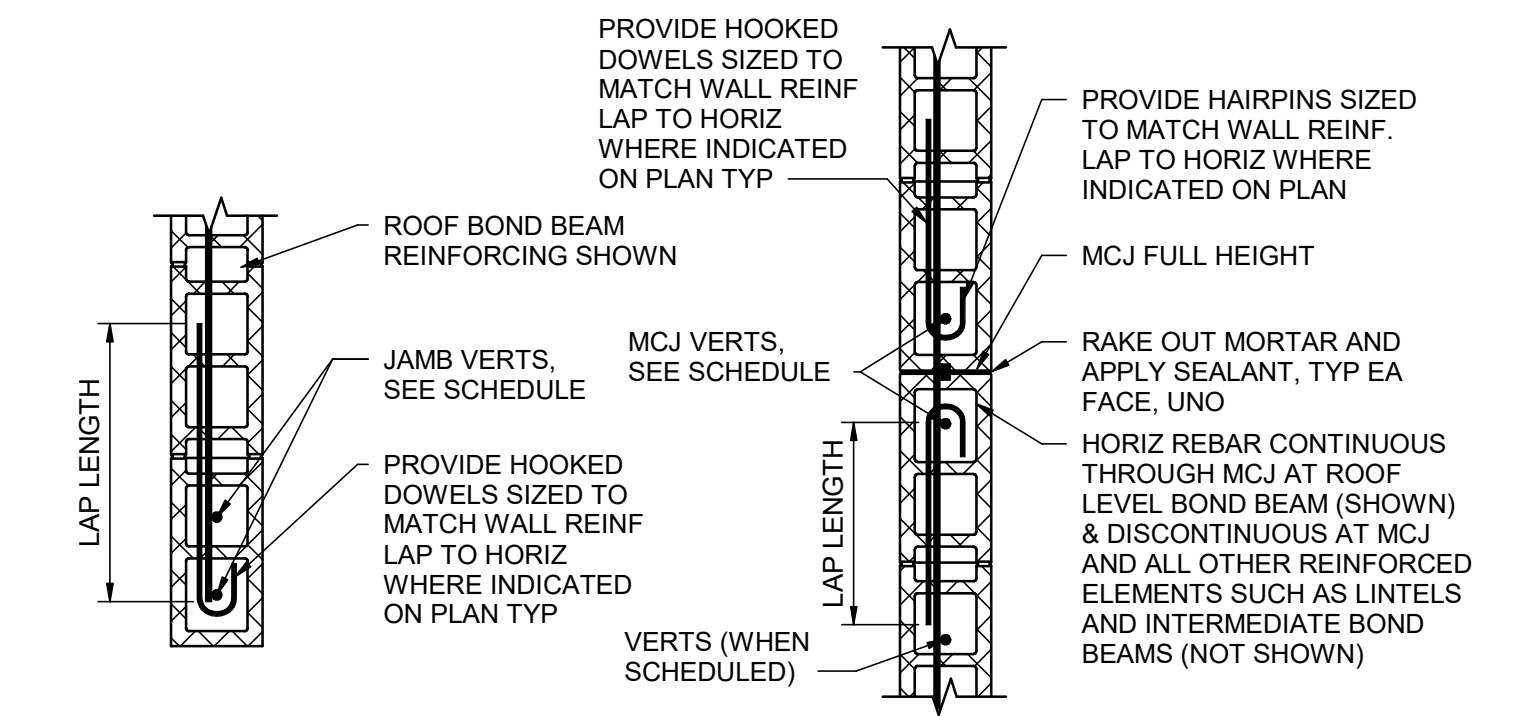


THICKENED SLAB DETAIL
3/4" = 1'-0"



CORNER

INTERSECTION



JAMB OR END OF WALL

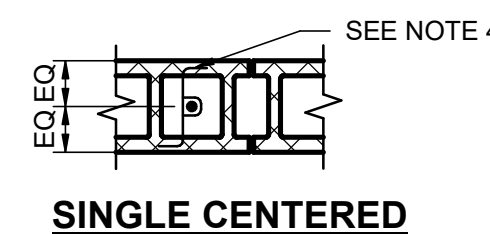
MASONRY CONTROL JOINT (MCJ)

NOTES:

1. FOR REINFORCING, SEE CMU WALL REINFORCING SCHEDULE.
2. INDICATES LOCATION OF VERTICAL BARS AT CENTERLINE OF WALL. UNO IN SCHEDULE.
3. EXTEND MCJ FULL HEIGHT OF MASONRY BOND BEAM.
4. LIMIT DISTANCE BETWEEN MCJ TO MAX 24'-0". SEE DRAWINGS FOR LOCATIONS.
5. HORIZONTAL JOINT REINFORCING NOT SHOWN.
6. MODIFY BAR CONFIGURATION SHOWN AS REQUIRED WHERE TWO VERTICAL REINFORCING BARS ARE SHOWN ON THE SCHEDULE.
7. SEE ARCHITECTURAL DRAWINGS FOR MCJ DETAILS AND REMAINDER OF JOINT DETAILS.

1 CMU REINFORCING SEISMIC DESIGN CATEGORY "C" AND LOWER
NOT TO SCALE

TYPE	REINFORCING LOCATION	8" WALL THK
VERTS	VERTICAL BARS	#5 @ 48" CTS, SINGLE CENTERED
	JAMBS/ENDS/MCJ	2 - #5
	CORNERS / INTERSECTIONS	1 - #5
HORIZ	TOP OF WALL BOND BEAMS	2 - #5
	INTERMEDIATE BOND BEAMS	N/A
	HORIZ JOINT REINF	9 GAGE WIRE, TRUSS TYPE JOINT REINF @ 16" OC BETWEEN BOND BEAMS
	BELOW OPENINGS	1 - #5
	LINTELS	1 - #5



SINGLE CENTERED

NOTES:

1. PROVIDE THE ABOVE SCHEDULED MINIMUM WALL REINFORCING IN ALL CMU. UNO. SEE CMU WALL REINFORCING SCHEDULE.
2. GROUT ONLY THE CELLS WITH REINFORCING.
3. MAINTAIN MINIMUM 3" X 3" CONTINUOUS VERTICAL CELL AT EACH REBAR. PLACE WALLS TO MAXIMUM 4'-0" HEIGHT BEFORE GROUTING.
4. PROVIDE WIRE REBAR POSITIONERS TO HOLD BARS IN PLACE.
5. STOP GROUT POUR 1/2" BELOW TOP OF COURSE AT EACH GROUT LIFT.

MASONRY LAP SPLICE LENGTHS : f _m =1900 psi, f _y =60000 psi				
BAR SIZE	8" BLOCK		12" BLOCK	
	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE
#3	19"	19"	19"	19"
#4	25"	31"	25"	28"
#5	31"	48"	31"	43"
#6	57"	-	52"	-

WHEN REQD SPLICE LENGTH EXCEEDS 4'-0" USE HIGH LIFT GROUTING WITH NO SPLICES OR USE MECHANICAL TENSION SPLICES WITH LOW LIFT GROUTING.

MASONRY REINFORCING SPLICE TABLE				
BAR SIZE	6" BLOCK		8" BLOCK	
	BAR @ CL	BAR @ CL	BAR @ CL	BAR @ EDGE
#4	2'-1"	2'-1"	2'-7"	
#5	3'-3"	2'-7"	4'-0"	
#6	-	4'-9"	8'-2"	
#7	-	6'-7"	-	

WHEN REQUIRED SPLICE LENGTH EXCEEDS 4'-8" - USE MECHANICAL TENSION SPLICES WITH LOW LIFT GROUTING.

2 CMU REINFORCING LAP SCHEDULE
NOT TO SCALE

3 MASONRY REINFORCING SPLICE TABLE
NOT TO SCALE

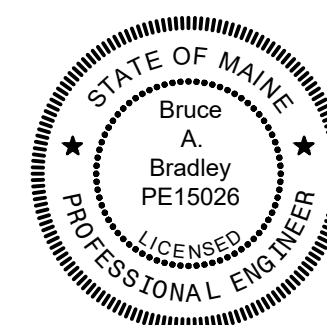
4 CMU REINFORCING SCHEDULE
NOT TO SCALE

5 CMU WALL REINFORCING
NOT TO SCALE

PROJECT MANAGER ANDREW GURSKI

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PROJECT NUMBER 10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL STRUCTURAL DETAILS 4

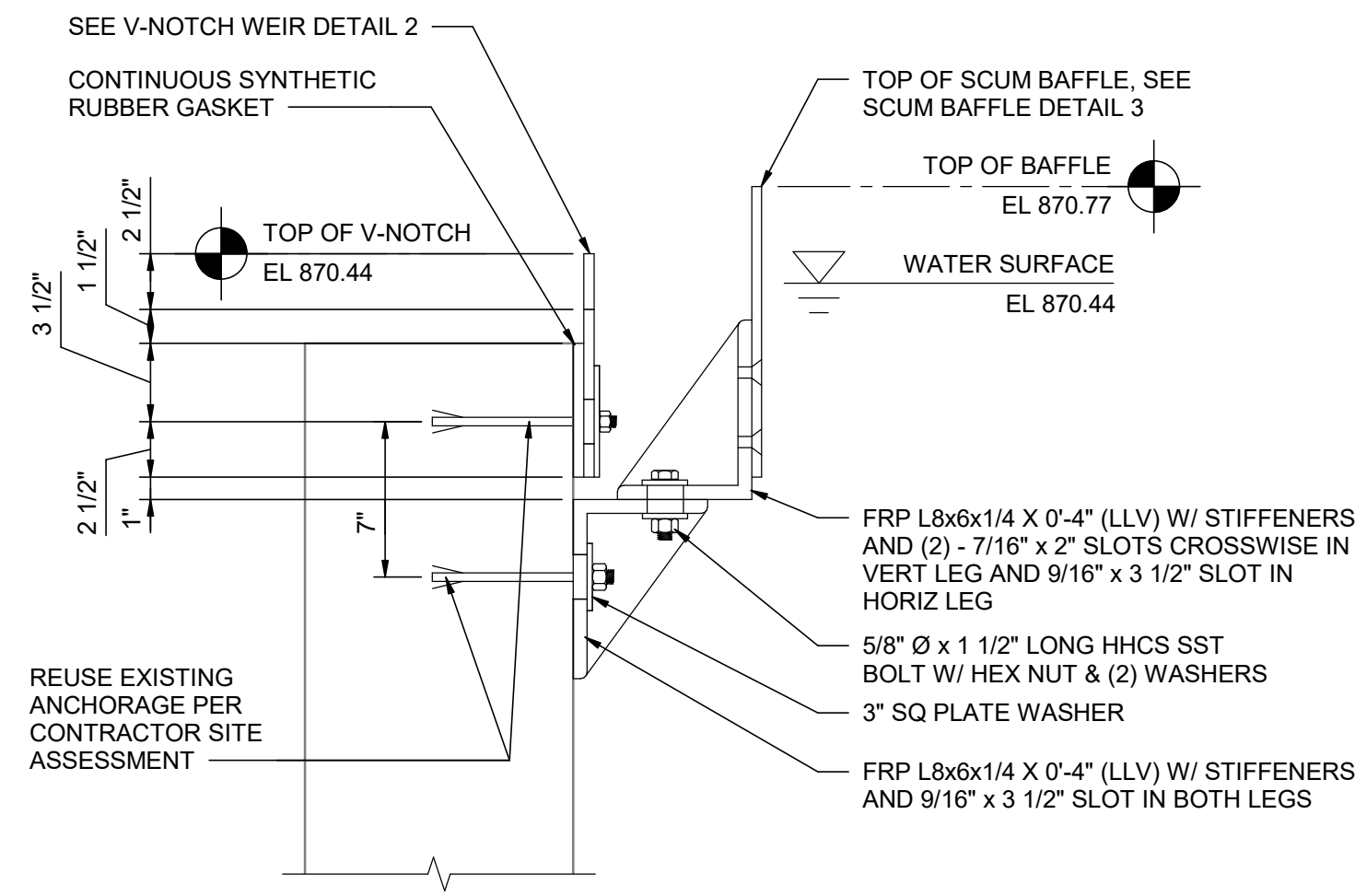


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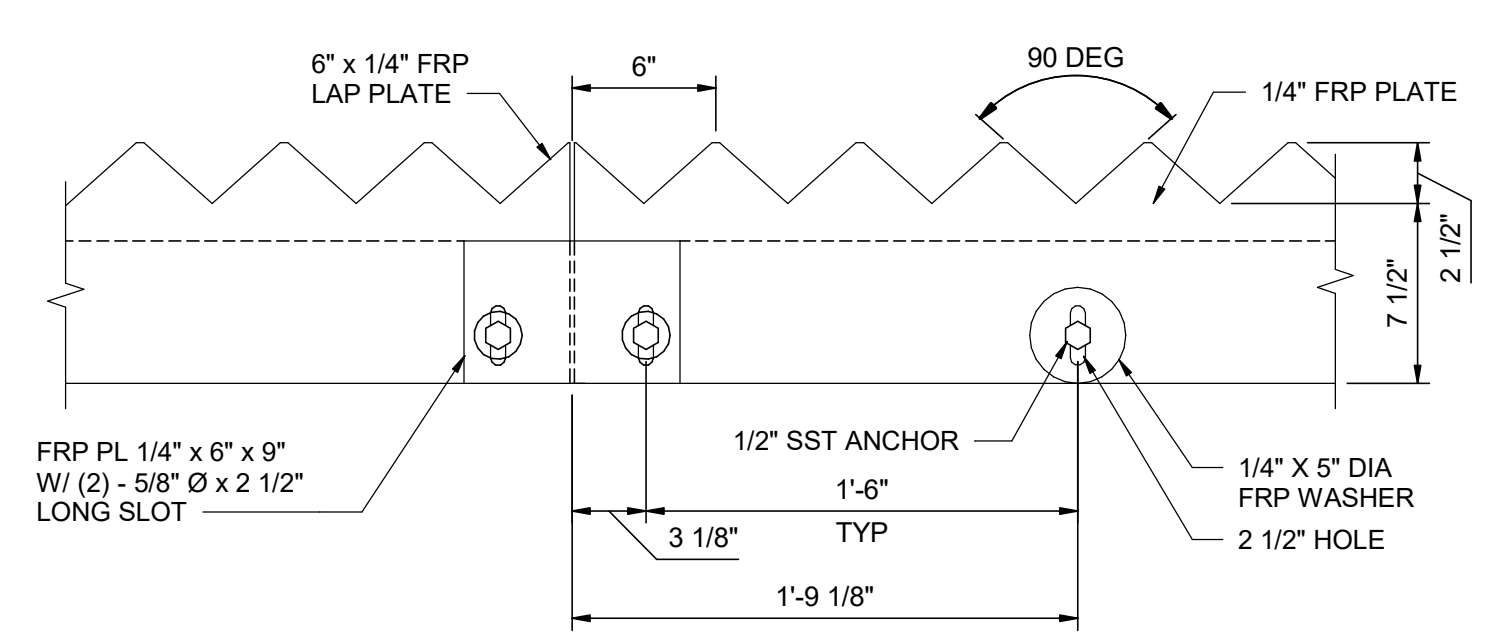
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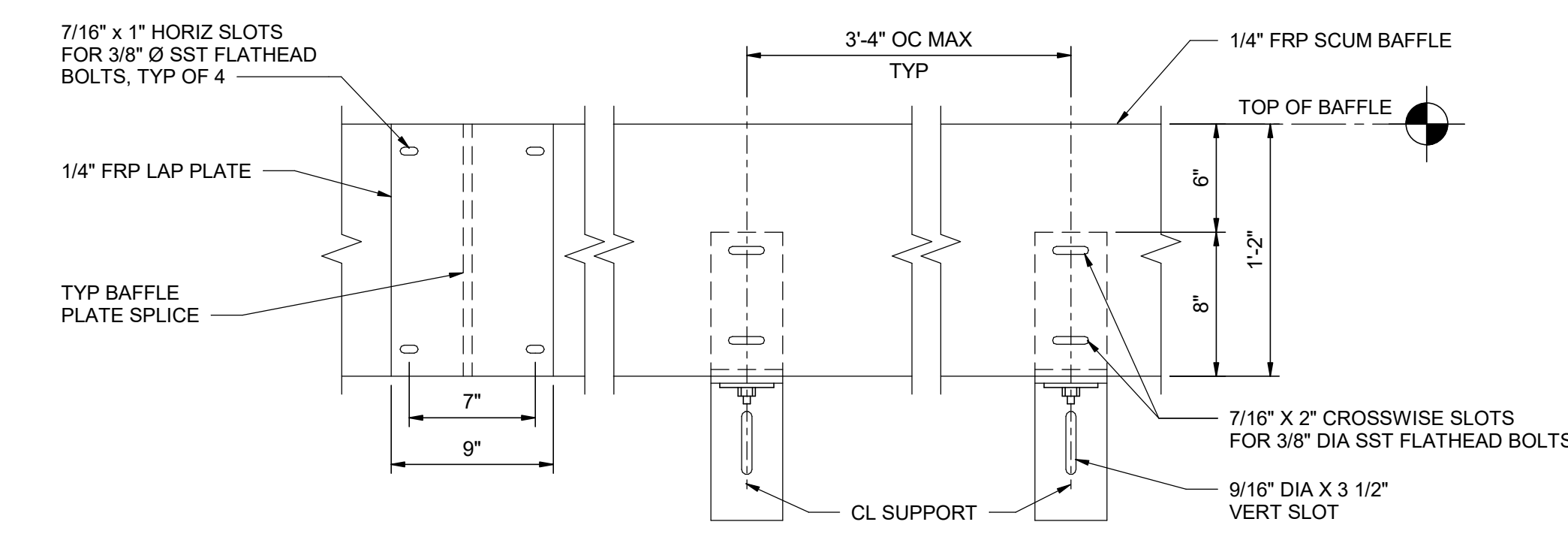
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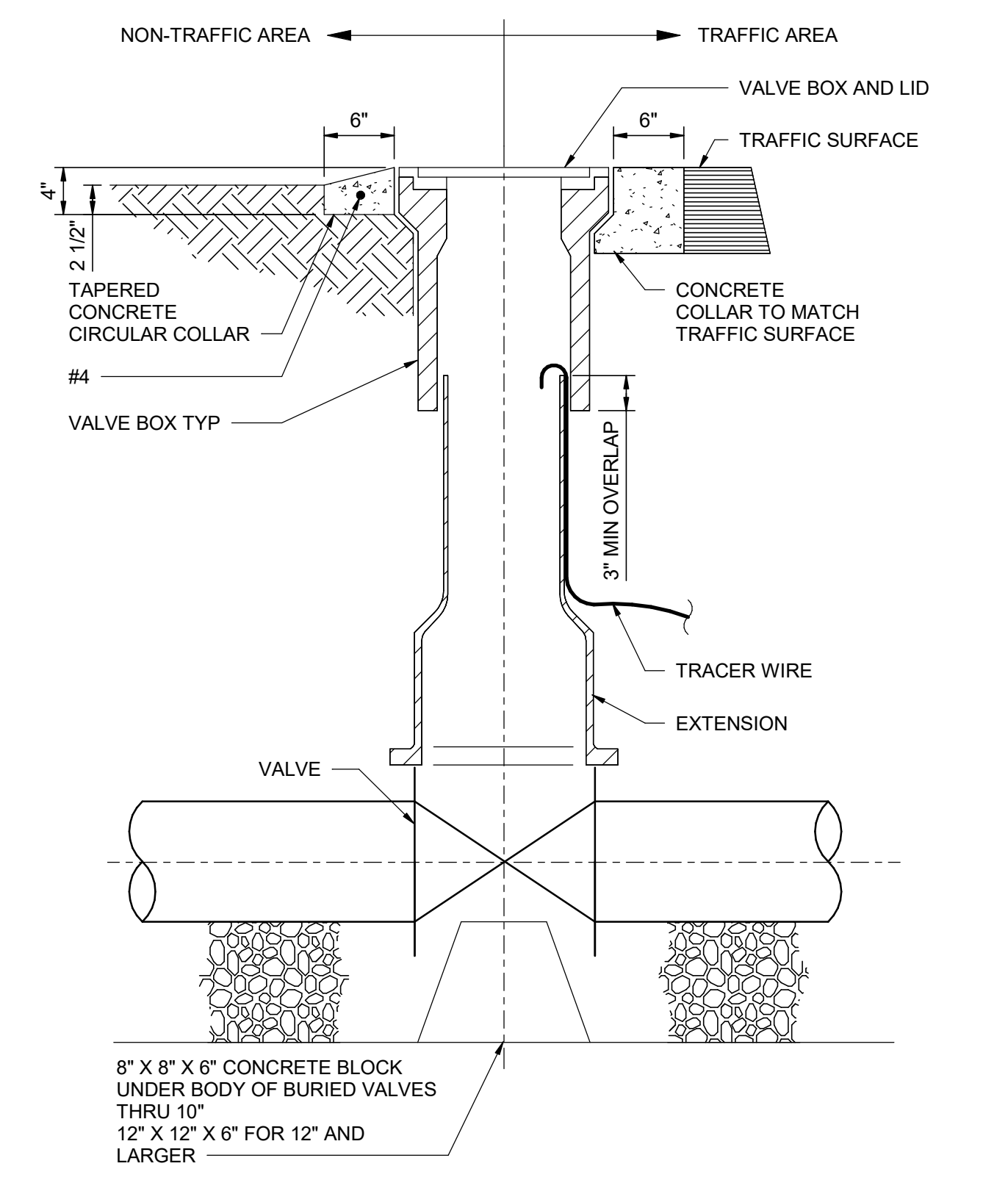
1 FRP SCUM BAFFLE & WEIR PLATE DETAIL
00D-501 NOT TO SCALE



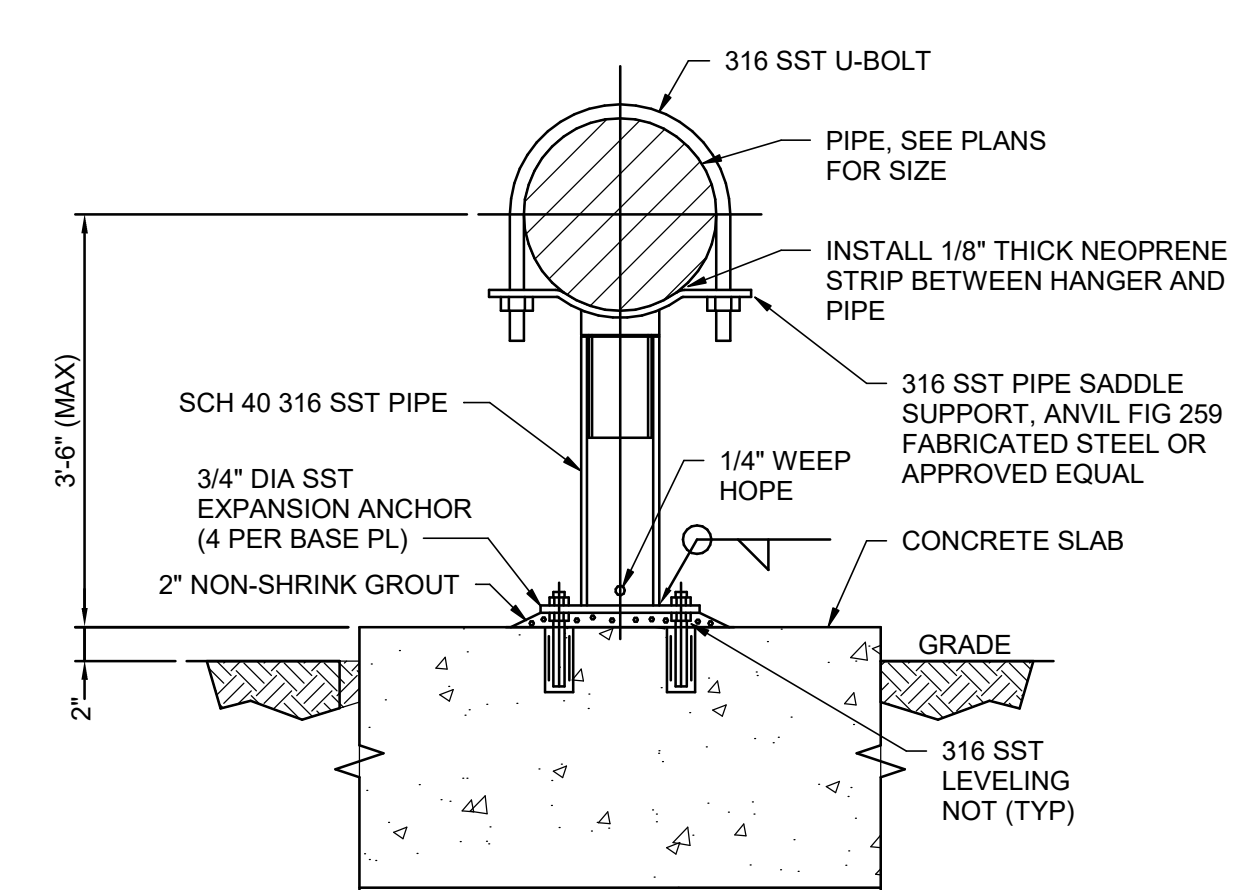
2 FRP V-NOTCH WEIR PLATE
00D-501 NOT TO SCALE



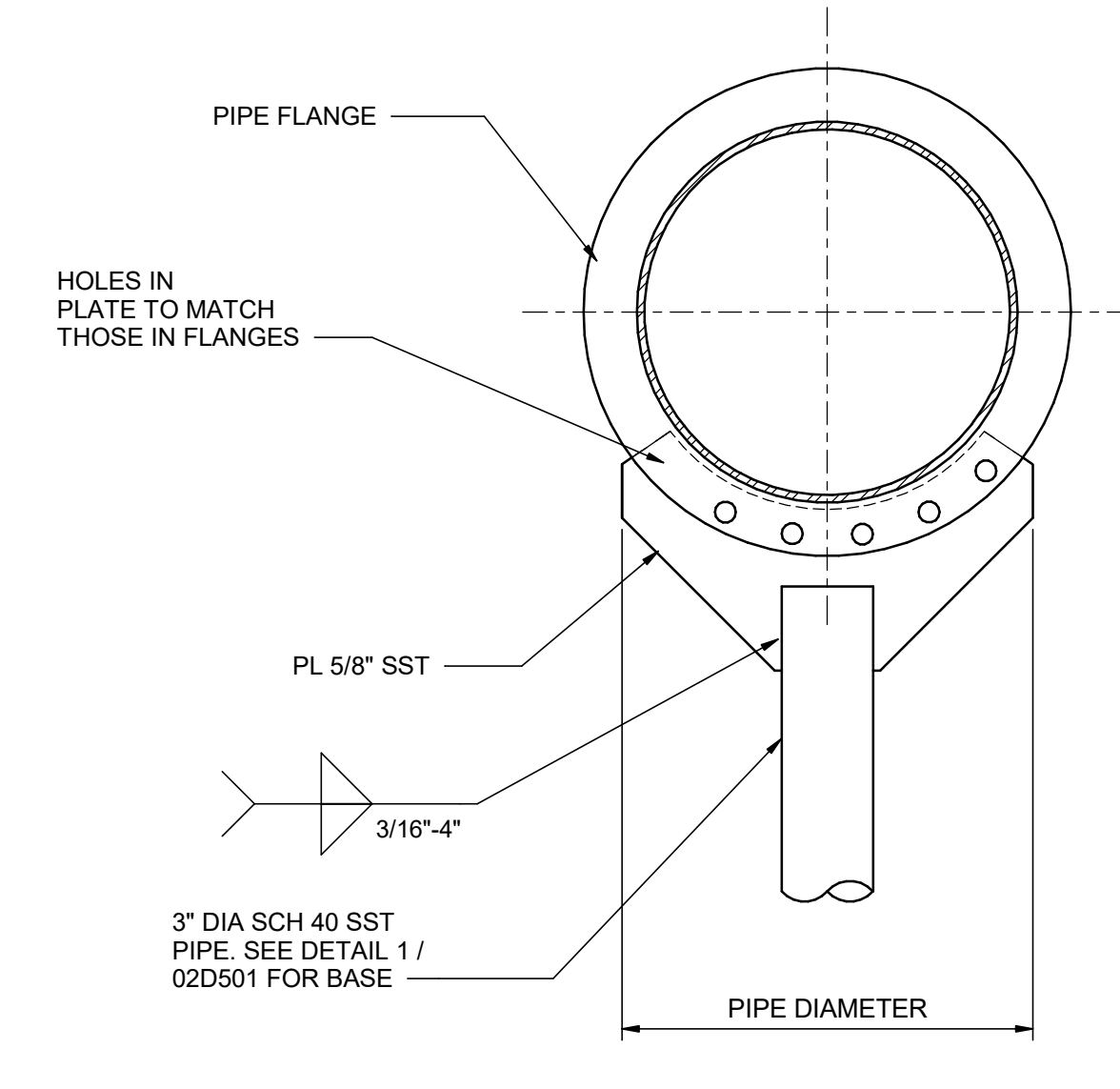
3 FRP SCUM BAFFLE DETAIL
00D-501 NOT TO SCALE



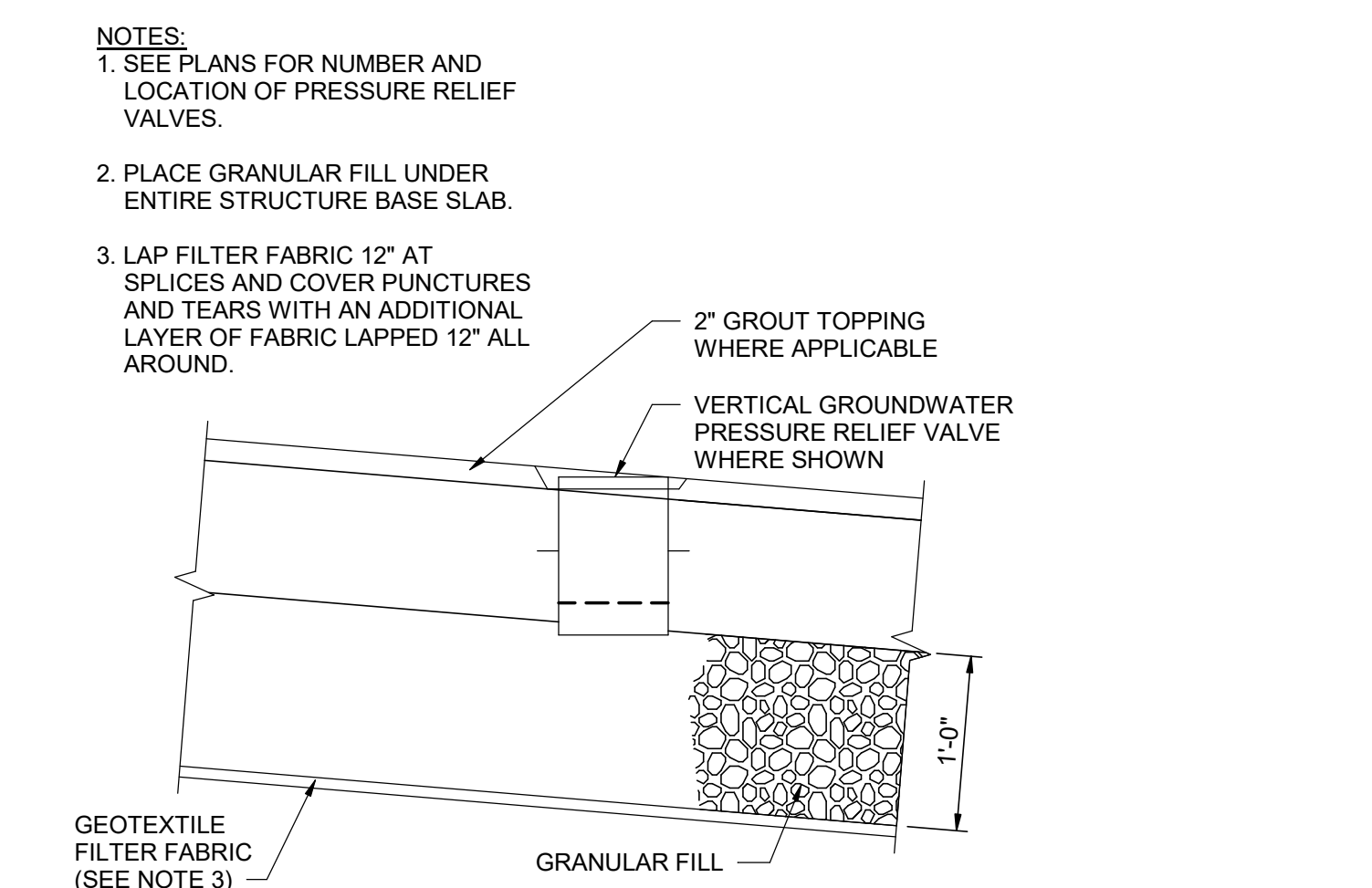
7 BURIED VALVE BOX W/ TRACER WIRE DETAIL
00D-501 NOT TO SCALE



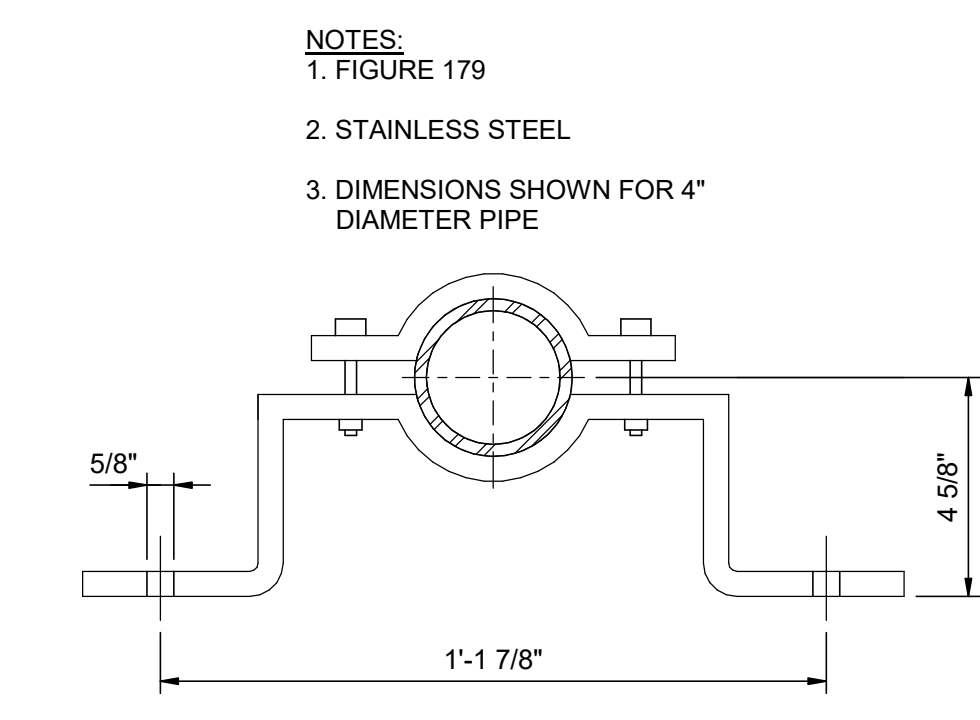
4 PIPE SUPPORT
00D-501 NOT TO SCALE



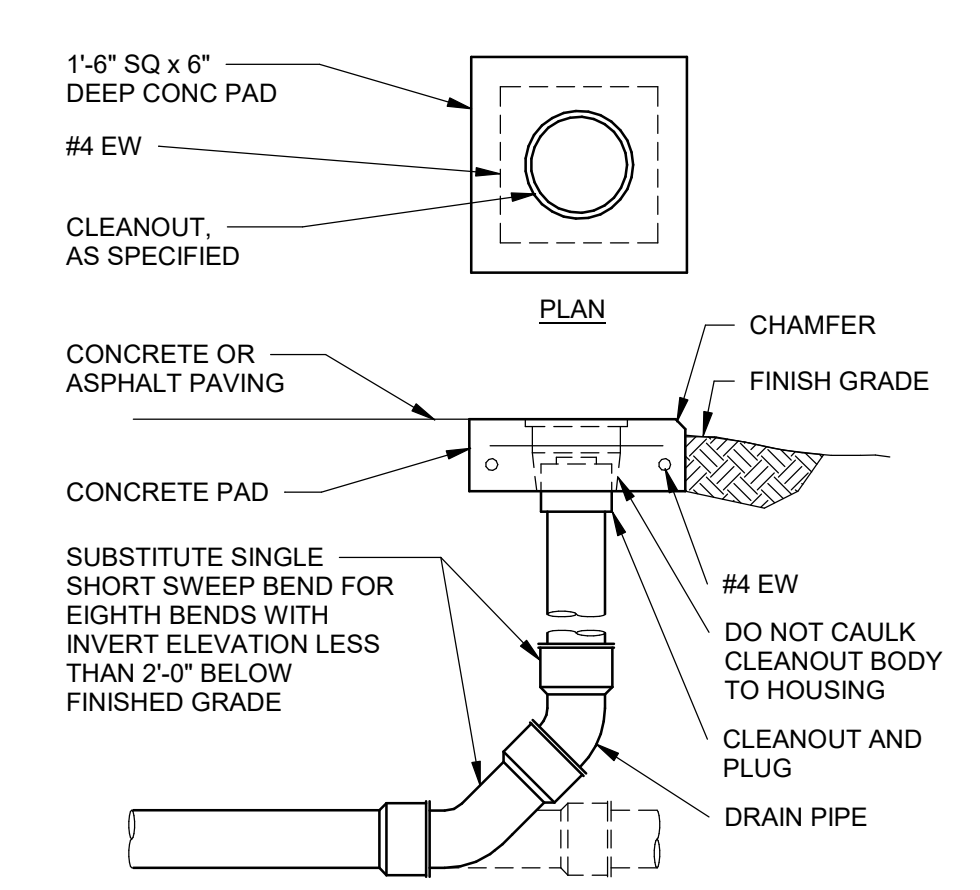
5 FLANGED PIPE SUPPORT
00D-501 NOT TO SCALE



6 TYPICAL GROUNDWATER PRESSURE RELIEF VALVE DETAIL
00D-501 NOT TO SCALE



8 OFFSET PIPE CLAMP
00D-501 NOT TO SCALE



9 GRADE CLEANOUT
00D-501 NOT TO SCALE

NOTES:
1. SEE PLANS FOR NUMBER AND LOCATION OF PRESSURE RELIEF VALVES.
2. PLACE GRANULAR FILL UNDER ENTIRE STRUCTURE BASE SLAB.
3. LAP FILTER FABRIC 12" AT SPLICES AND COVER PUNCTURES AND TEARS WITH AN ADDITIONAL LAYER OF FABRIC LAPPED 12" ALL AROUND.

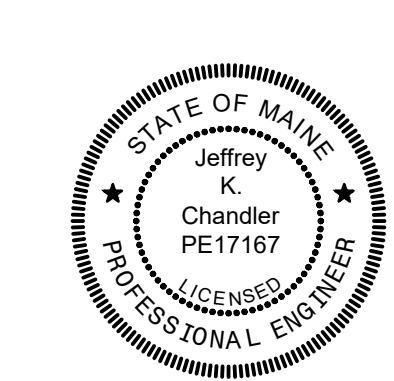
NOTES:
1. FIGURE 179
2. STAINLESS STEEL
3. DIMENSIONS SHOWN FOR 4" DIAMETER PIPE

NOTES:
1. FIGURE 179
2. STAINLESS STEEL
3. DIMENSIONS SHOWN FOR 4" DIAMETER PIPE



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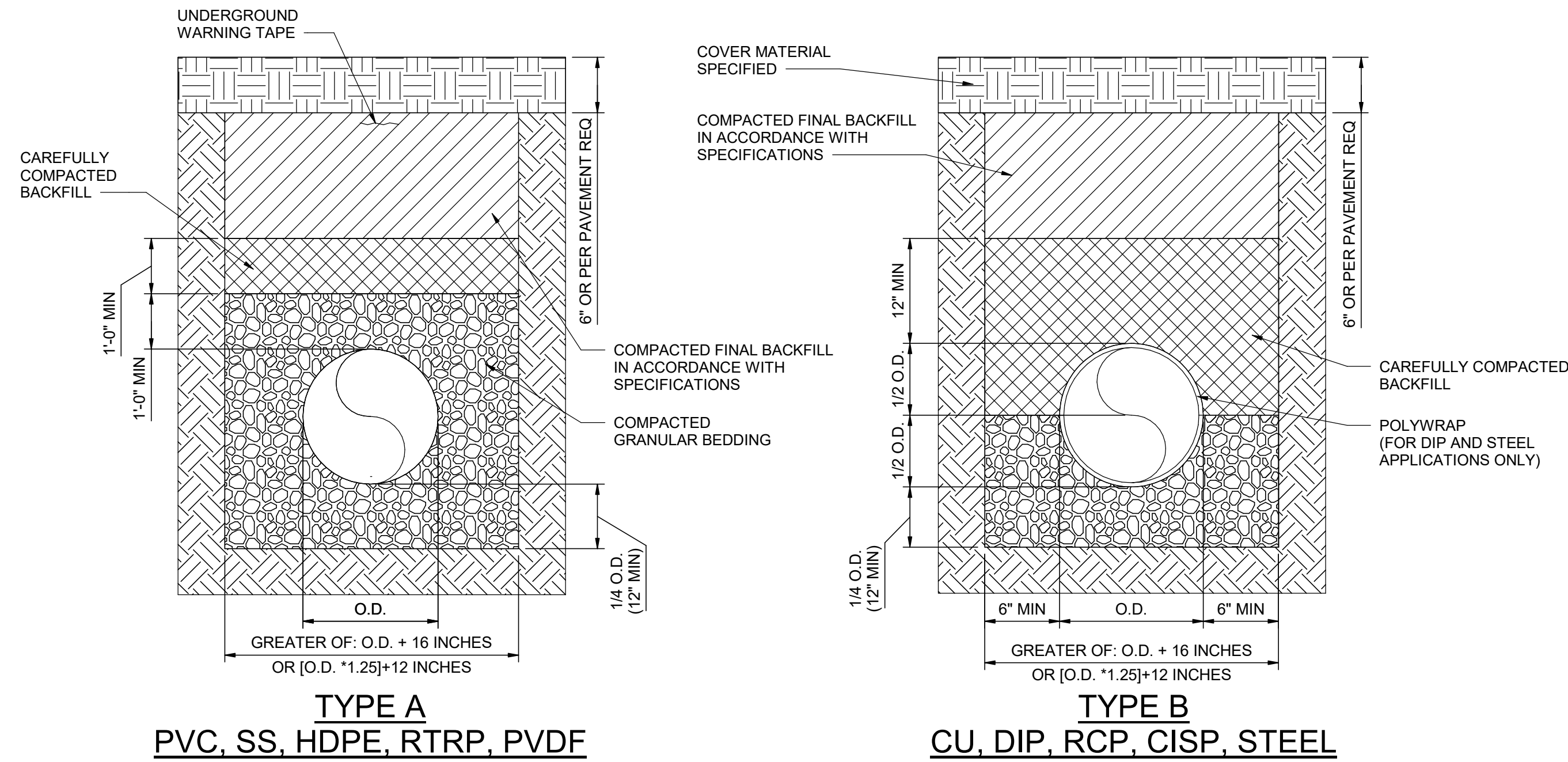


NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

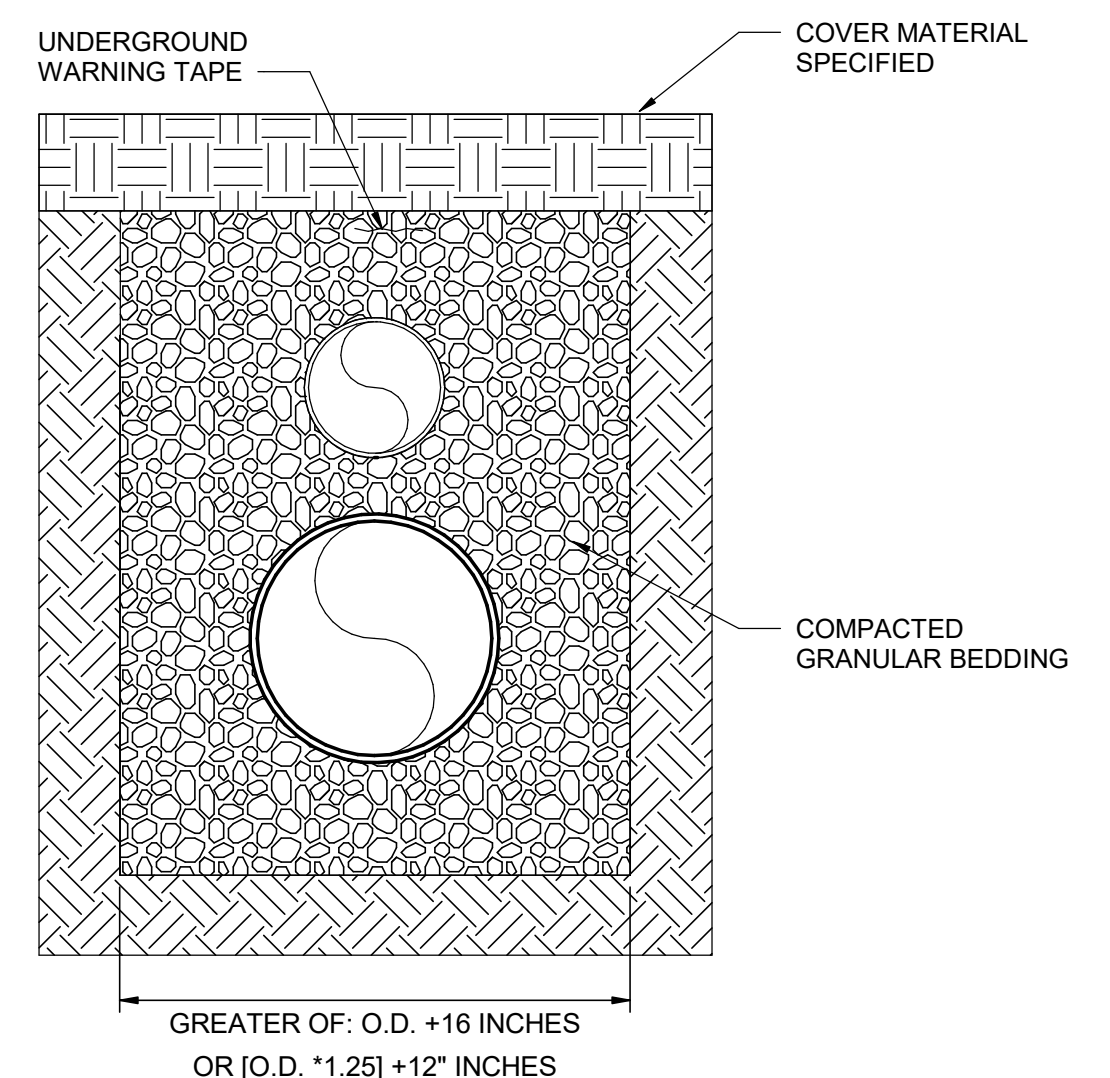
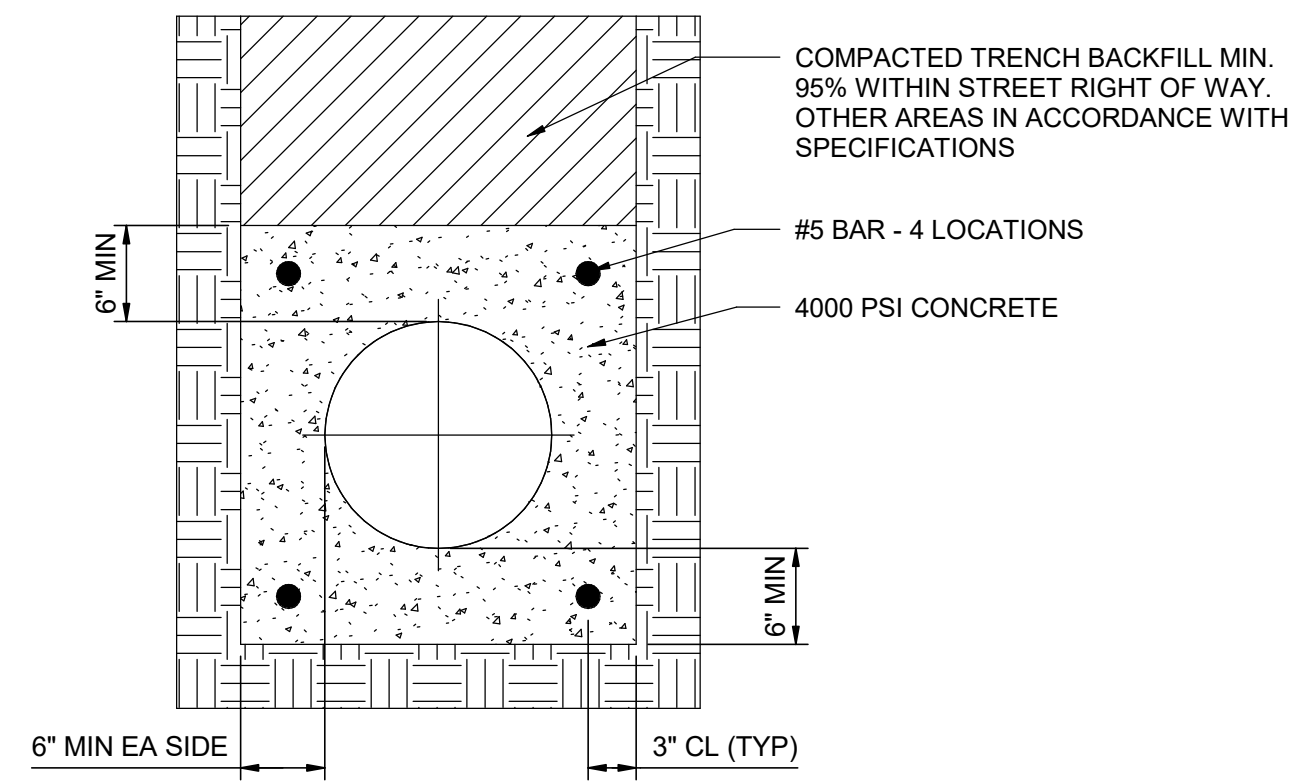
GENERAL PROCESS DETAILS

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NOTE: BEDDING UP TO SPRING LING OF TYPE B PIPE SHALL BE COMPACTED GRANULAR BEADING. UNDER STRUCTURES ALL FILL ABOVE THE COMPACTED GRANULAR BEDDING SHALL BE STRUCTURAL FILL.



NOTES:
1. CONTRACTOR SHALL BLOCK UP PIPE TO GIVE MINIMUM PIPE CLEARANCE INDICATED.
2. CONTRACTOR SHALL PROVIDE PIPE TIE DOWNS AS NECESSARY TO PREVENT FLOATING.
3. PROVIDE PIPE ENCASEMENT FOR ALL.

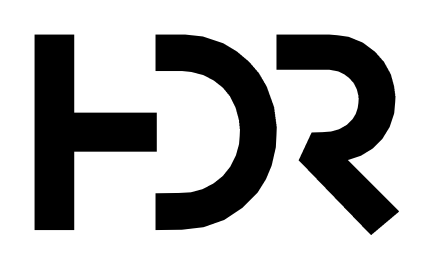


1 PIPE INSTALLATION DETAILS
00D-502 NOT TO SCALE

2 CONCRETE ENCASEMENT DETAIL
00D-502 NOT TO SCALE

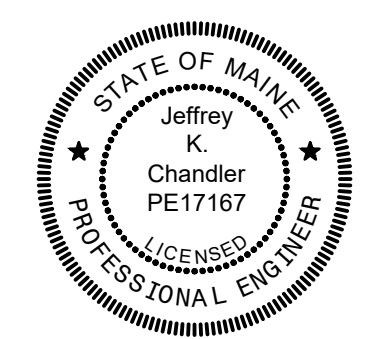
3 STACKED PIPE TRENCH DETAIL
00D-502 NOT TO SCALE

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ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



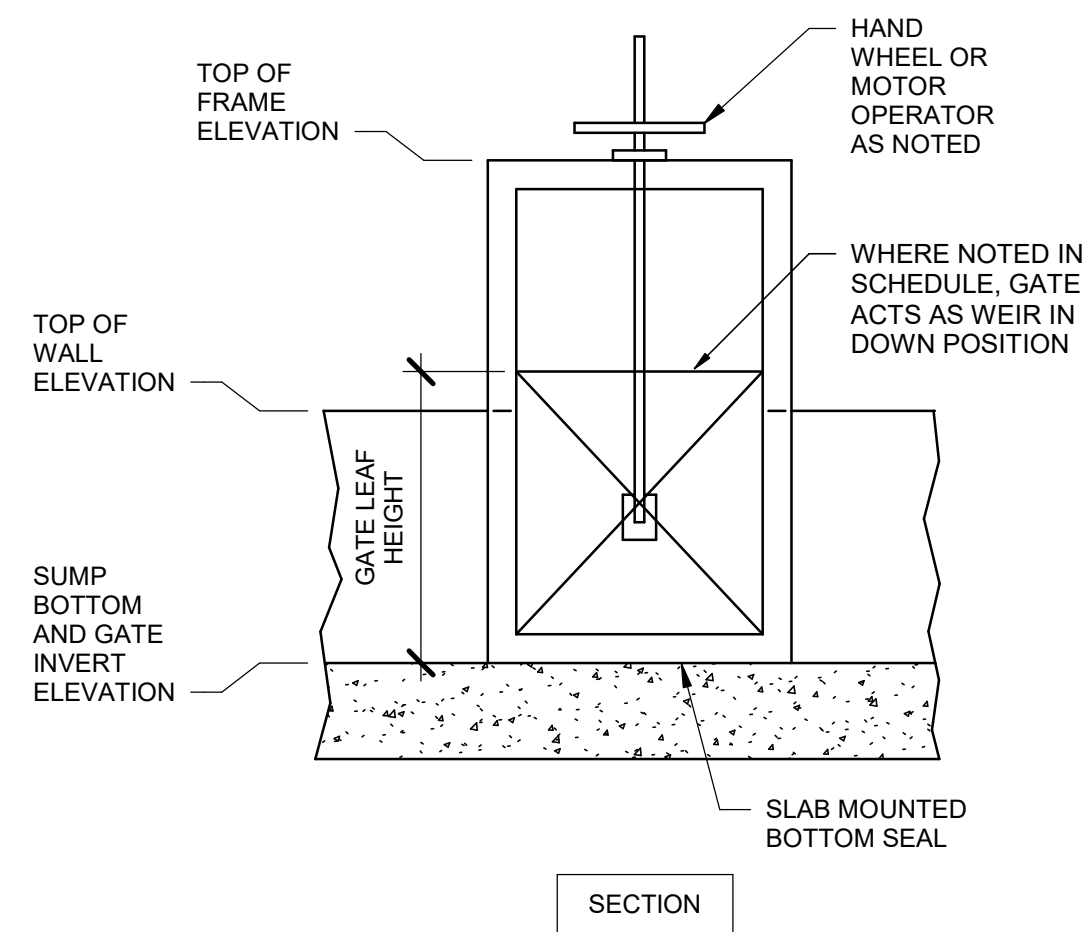
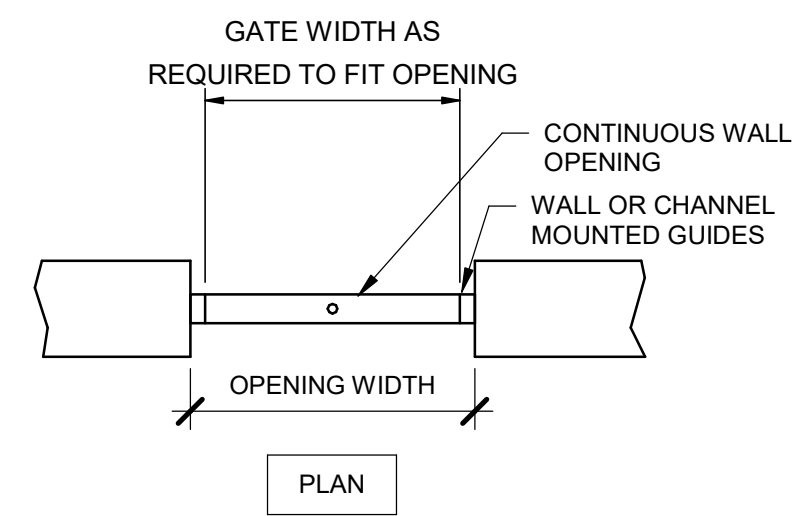
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL PROCESS DETAILS



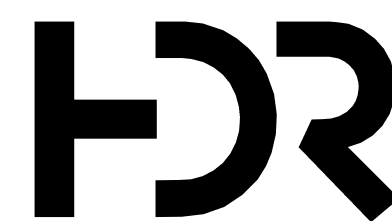
SHEET
00D-502

GENERAL NOTES:
 1. WHERE NOTED, THE ACTUAL GATE OPENING OR GATE LEAF HEIGHT WILL BE REDUCED BY THE HEIGHT OF THE BOTTOM SEAL.



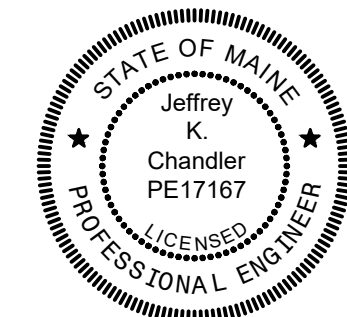
1 TYPE 5 GATE MOUNTING DETAIL
 00D-503 NOT TO SCALE

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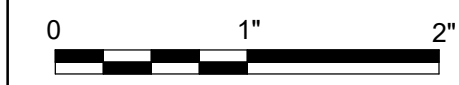
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	05/03/2024	ISSUED FOR BID

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CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

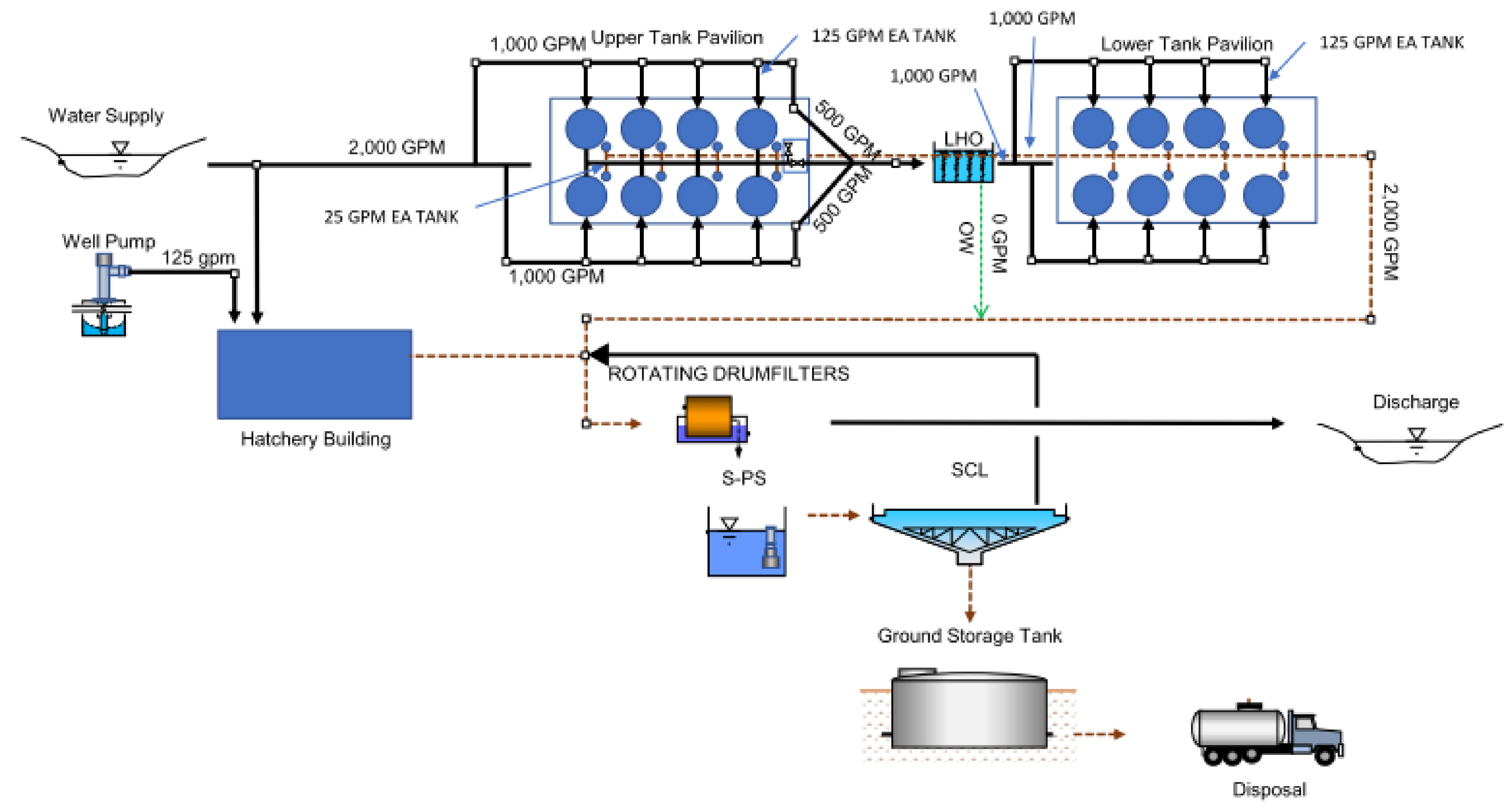
GATE MOUNTING DETAILS



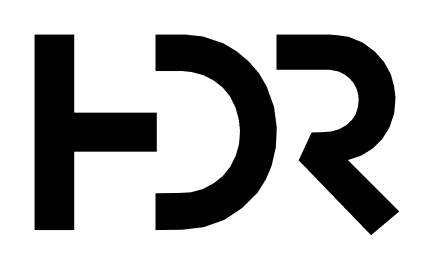
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SHEET
00D-503

NEW GLOUCESTER: NORMAL FLOW SCHEMATIC

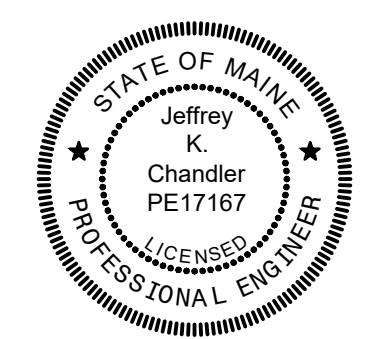


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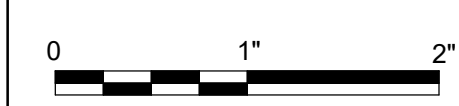
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NEW GLOUCESTER STATE FISH HATCHERY
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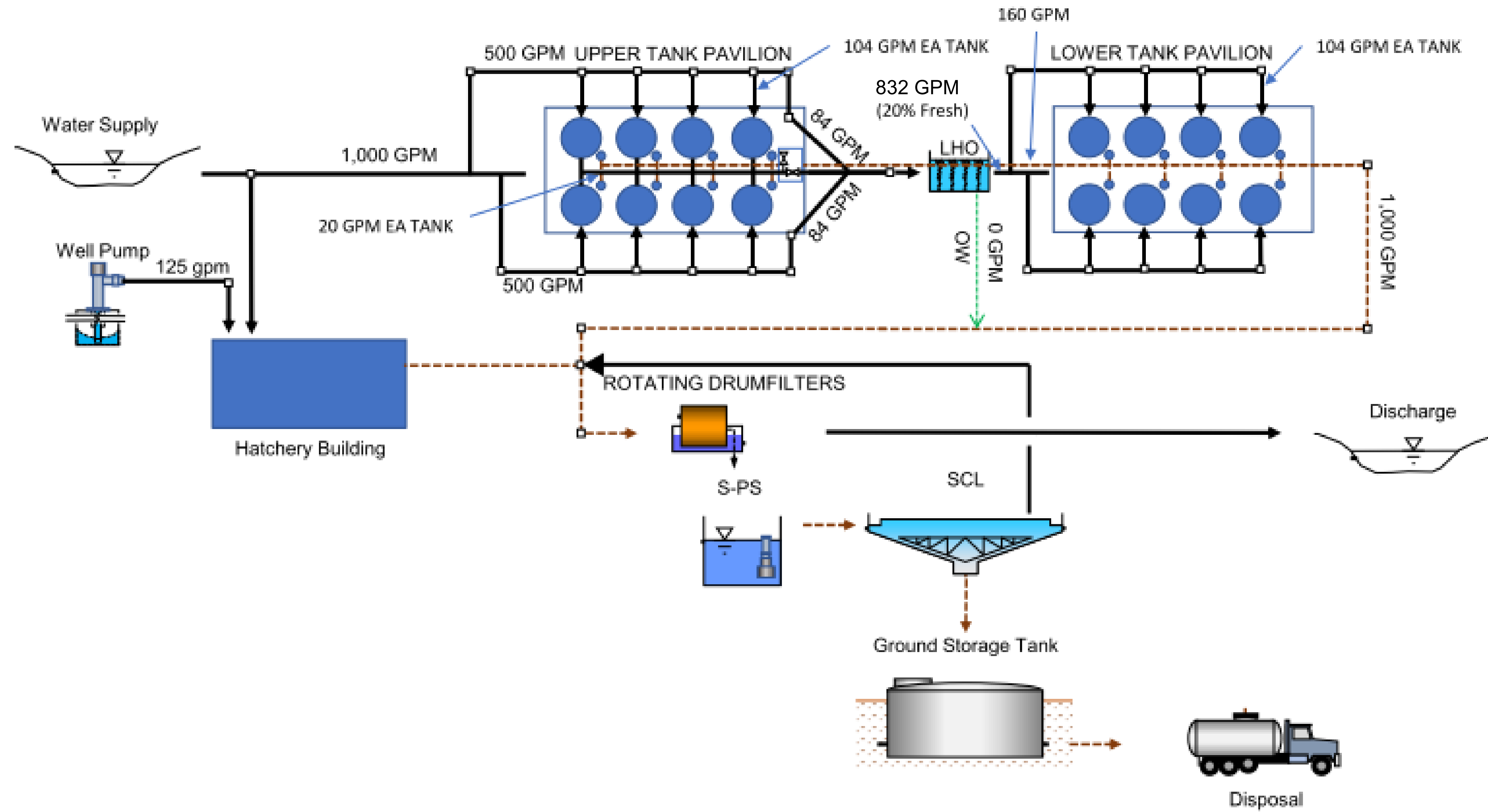
NORMAL WATER FLOW SCHEMATIC



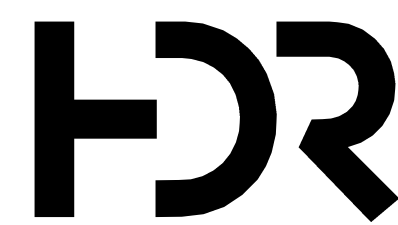
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SHEET
00D-601

NEW GLOUCESTER: LOW FLOW SCHEMATIC

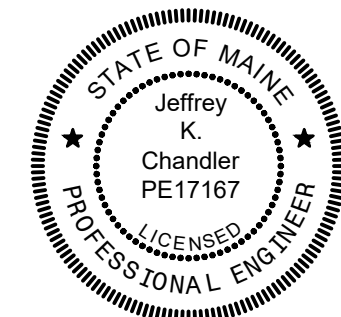


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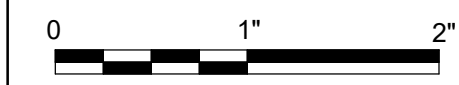
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NEW GLOUCESTER STATE FISH HATCHERY Phase III Facility Conversion

LOW WATER FLOW SCHEMATIC

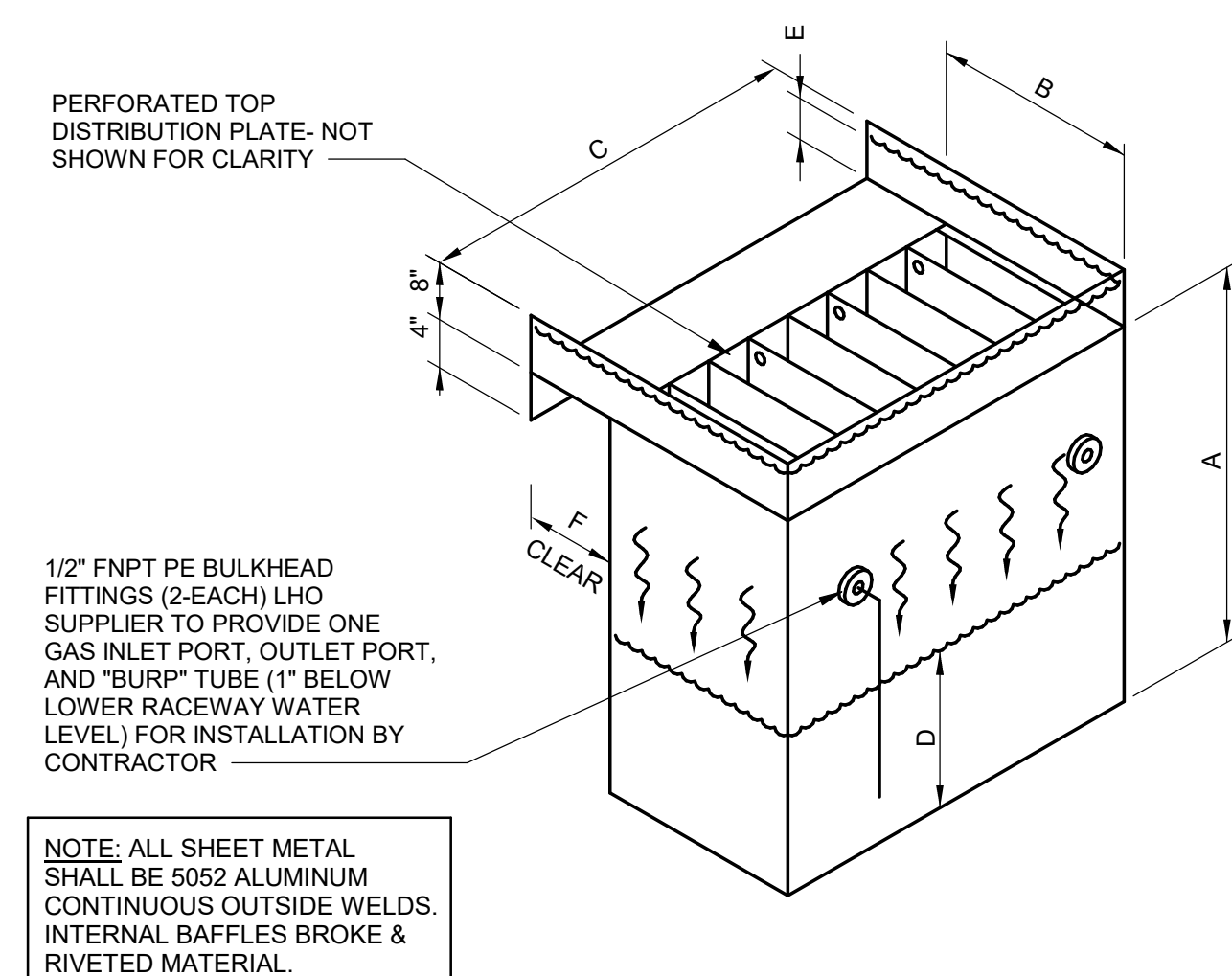


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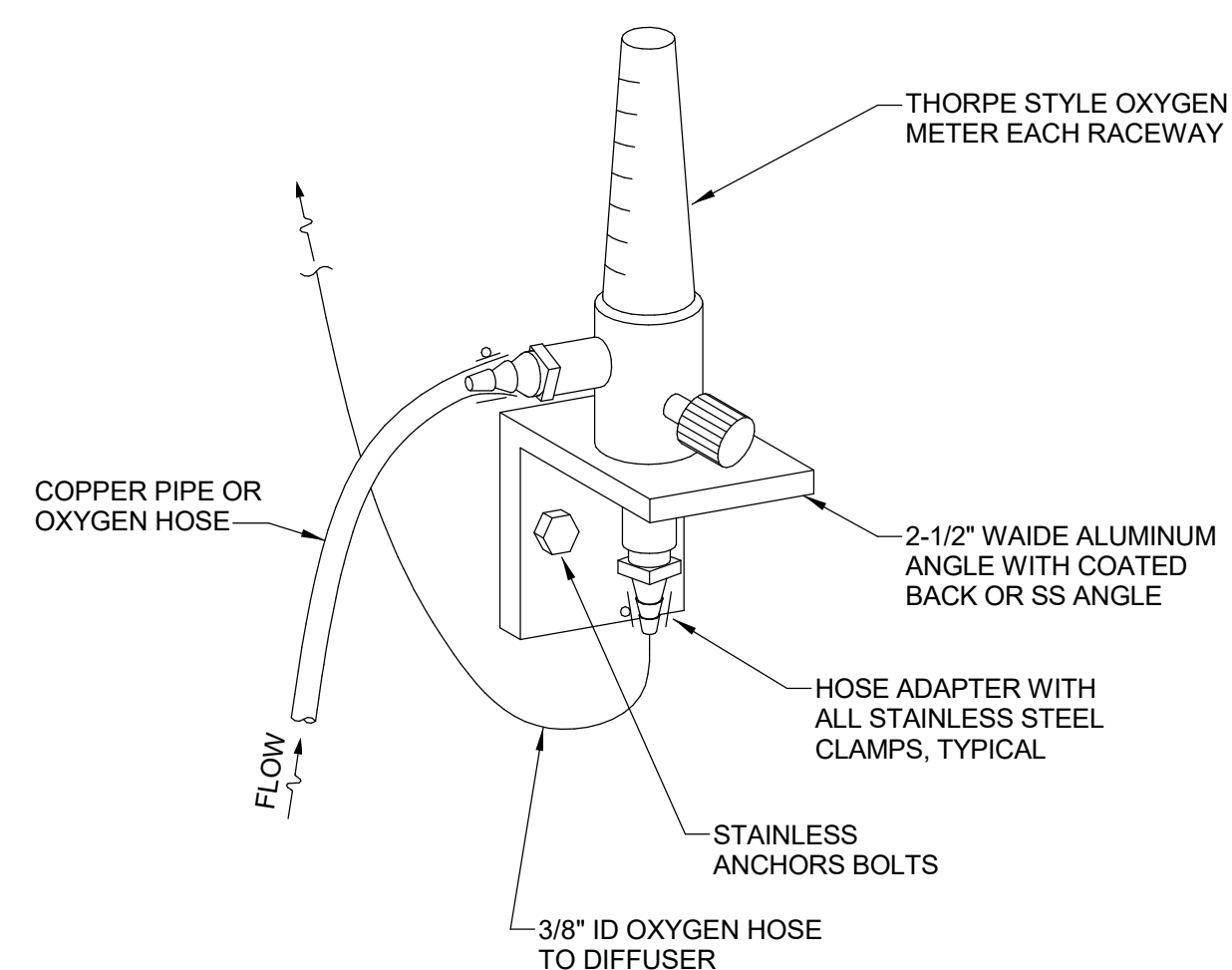
SHEET
00D-602

LHO & DIFFUSER SCHEDULE																
Water Supply	DEVICE	LOCATION	Tag	Dimension A (feet)	Dimension B (feet)	Dimension C (feet)	Dimension D (feet)	Dimension E (inches)	Dimension F (inches)	Approx Floor Elevations	Plate Area (sqft)	Oxygen Flow Rate (lpm)	Flow Meter Range (lpm)	Water Flow Rate (gpm)	Upstream WS (feet)	Downstream WS (feet)
Reuse	LHO	LOWER PAVILION	LHO0201	NA	3.35	8.00	NA	6	8	234.33	26.78	29.52	0-70	833.6	246.24	244.74
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0201	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0202	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0203	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0204	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0205	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0206	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0207	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
FRESH	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	UPPER PAVILION	CD0208	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0301	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0302	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0303	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0304	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0305	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0306	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0307	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA
REUSE	CERAMIC DIFFUSER (POINT FOUR MODEL:1DMBDC100)	LOWER PAVILION	CD0308	NA	NA	NA	NA	NA	NA	NA	NA	4.00	0-7	125	NA	NA

- General...
- CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS BEFORE PROVIDING LHO.
 - BASIS OF DESIGN IS POINT FOUR FOR DIFFUSERS AND NP INNOVATIONS FOR LHO.



1 LHO DETAIL
00D-604 NOT TO SCALE



2 OXY METER DETAIL
00D-604 NOT TO SCALE

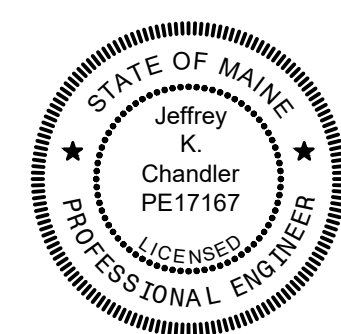
PROCESS MANHOLE SCHEDULE											
MANHOLE TAG	INSIDE DIMENSION (FT)	CENTERLINE ELEVATION (FT)	PIPE	IN OR OUT	DIRECTION	ORIGIN OR DESTINATION	VALVE	LID TYPE	RIM ELEVATION	STEPS & LID	NOTES
MH1	4	243.13	12" SCH80	IN	W	PAVILION 1 OVERFLOW WATER	PLUG	24" ID CAST IRON VENTED FRAME & LID	247.00	S	PAVILION 1 LOW FLOW PLUG VALVE PIT. PIPE RUNS STRAIGHT THROUGH THIS MANHOLE. ENSURE LID IS INSTALLED IN SUCH A WAY AS TO BE ABLE TO ACCESS THE MANHOLE STEPS AND THE 2"NUT OPERATOR FROM ABOVE.
		243.08	12" SCH80	OUT	E	MHFM2					
MH2	4	241.49	8" SCH80	IN	N	PAVILION 1 OVERFLOW WATER	BUTTERFLY	24" ID CAST IRON VENTED FRAME & LID	247.00	S	PAVILION 1 HIGH FLOW COMBO PIT. ENSURE LID IS INSTALLED IN SUCH A WAY AS TO BE ABLE TO ACCESS THE MANHOLE STEPS AND THE 2"NUT OPERATOR FROM ABOVE.
		243.14	8" SDR26	IN	W	PAVILION 1 UNDER DRAIN					
		241.44	12" SDR26	OUT	E	MH3					
MH3	4	238.74	12" SDR26	IN	NW	MH2		24" ID CAST IRON VENTED FRAME & LID	243.25	SW	MANHOLE BETWEEN PAVILION 1 & 2 DUE TO LONG RUN
		238.74	12" SDR26	OUT	SE	MH4					
MH4	4	237.25	12" SDR26	IN	NW	MH3		24" ID CAST IRON VENTED FRAME & LID	242.00	S	MANHOLE BEFORE PAVILION 2 FOR SIZE CHANGE
		237.25	12" SDR26	IN	NNE	LHO OVERFLOW					
		236.92	15" SDR26	OUT	E	MH5					
MH5	8'	237.80	6" PVC	IN	SSW	HATCHERY BUILDING		24" ID CAST IRON VENTED FRAME & LID	242.00	SW	REMOVE EXISTING HATCHERY WASTE MANHOLE AND CAP AND ABANDON 15" PIPE AT NNE AND 15" AT NW AND CUT BACK OTHER EXISTING PIPES AND EXTEND INTO NEW MH 5
		238.26	10" PVC	IN	SE	HATCHERY BUILDING					
		236.42	24" SDR26	IN	WNW	MH4					
		236.03	24" SDR35	OUT	ESE	MH6					
MH6	4	N/A	15" N/A	OUT	NNE	SITE DRAINAGE MANHOLE	PLUG	SLAB TOP WITH EMBEDDED 24-INCH CLEAR IRON FRAME AND LID	239.00	N	CLARIFIER MANHOLE
		235.52	24" SDR35	IN	W	MH5					
		234.77	6" SCH80	IN	SE	CLARIFIER OVERFLOW					
MH7	4	235.52	24" SDR35	OUT	ESE	MH7		SLAB TOP WITH EMBEDDED 24-INCH CLEAR IRON FRAME AND LID	238.65	E	SPLITTER MANHOLE
		235.43	24" SDR35	IN	W	MH6					
		235.10	16" SDR26	OUT	NE	DRUMFILTER DF-1	PLUG				
MH8	4	235.10	16" C905	OUT	SE	DRUMFILTER DF-2	PLUG	24" ID CAST IRON VENTED FRAME & LID	238.86	S	SLUDGE & BACKWASH COMBO MANHOLE
		230.50	6" SCH80	IN	N	DRUMFILTER BUILDING BW					
		230.35	6" SCH80	IN	E	SLUDGE STORAGE OVERFLOW					
MHFM1	6					SEE UPPE LEFT CORNER OF 02D-102		24" ID CAST IRON FRAME & LID	SEE 02D-102	E	
MHFM2	6								SEE 1 & 2/03D-402		

- General Notes:
- Any pump stations, pump station valve vaults, valve basins and air release valve vaults are not included in this manhole schedule. See individual drawings.
 - All Manholes on this schedule will be precast.
 - All manholes lids to be HS20 rated.



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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

PROCESS SCHEDULES 2

0 1" 2" FILENAME 10353741-00-G.rvt
SCALE NOT TO SCALE

SHEET 00D-604

PROPANE UNIT HEATER SCHEDULE	
TAG	UH-1
BTUH INPUT MINIMUM	30,000
AFUE	82
VOLTS	120
PHASE	1
FULL LOAD AMPS	3.7
MOCP (AMPS)	15
TEMPERATURE RISE (F)	45
BLOWER HP	1/6
MOUNTING HEIGHT (FT)	9
THROW 50 FPM DISTANCE	32
WEIGHT	300 LB
ACCESSORIES	1, 2, and 3
MAKE & MODEL	REZNOR UBX-30

- ACCESSORIES
- BUILT-IN DISCONNECT
 - 24 VOLT TRANSFORMER
 - HORIZ. AIR/VENT KIT, INCL. CONCENTRIC ADAPTER

SCHEDULE OF EXHAUST FANS																	
MARK:	BUILDING	FAN TYPE	DRIVE TYPE	AIRFLOW (CFM)	STATIC PRES ("W.C)	MOTOR					MIN DAMPER DIMENSIONS	MARKS		WEIGHT (LB)	ACCESSORIES	MANUF.	MODEL
						HP	RPM	VOLTS	PH	ENCL		DAMPER	CURB				
WEF-1	EFFLUENT	WALL	DIRECT	1,400	0.25	0.250	1,250	120	1	ODP	12"X12"	D-1	N/A	64	1,2,3	GREENHECK	CW-121-VG
WEF-2	UPPER PAVILION	WALL	DIRECT	50 (MIN)	0.1	0.375	3,100	120	1	ODP	4" DIA	DP-3	N/A	7.4	2,3	FANTECH	RVF 4
WEF-3	LOWER PAVILION	WALL	DIRECT	50 (MIN)	0.1	0.375	3,100	120	1	ODP	4" DIA	DP-4	N/A	8.4	2,3	FANTECH	RVF 4
WEF-4	UPPER PAVILION	WALL	DIRECT	50 (MIN)	0.1	0.375	3,100	120	1	ODP	4" DIA	DP-5	N/A	9.4	2,3	FANTECH	RVF 4
WEF-5	LOWER PAVILION	WALL	DIRECT	50 (MIN)	0.1	0.375	3,100	120	1	ODP	4" DIA	DP-6	N/A	10.4	2,3	FANTECH	RVF 4

- ACCESSORIES
- ALUMINIUM BIRD SCREEN
 - NEMA-1 DISCONNECT FACTORY MOUNTED AND WIRED
 - THERMAL OVERLOADS IN MOTOR OR FACTORY MOUNTED DISCONNECT

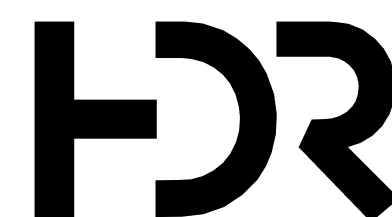
DAMPER SCHEDULE											
MARK:	BUILDING	ASSOCIATED EQUIPMENT	AIRFLOW (CFM)	WIDTH (IN)	HEIGHT (IN)	LEAKAGE (CFM/SF@1"W.C.)	ACTUATOR		DAMPER MATERIALS	ACCESSORIES	MAKE & MODEL
							MAX OPERATING TIME (S)	FAIL POSITION			
DP-1	EFFLUENT TREATMENT BUILDING	L-1	2,000	24	24	3	60	CLOSED	ALUM.	1,2,3,4	TAMCO 9000-BF
DP-2	EFFLUENT TREATMENT BUILDING	WEF-1	2,000	15	15	3	60	CLOSED	ALUM.	1,2,3,4	VENTEX 1900 SERIES
DP-3	UPPER PAVILION	WEF-2	50 (MIN.)	4" DIA	4" DIA	3	60	CLOSED	ALUM.	NA	FANTECH RSK 4
DP-4	LOWER PAVILION	WEF-3	50 (MIN.)	4" DIA	4" DIA	3	60	CLOSED	ALUM.	NA	FANTECH RSK 4
DP-5	UPPER PAVILION	WEF-4	50 (MIN.)	4" DIA	4" DIA	3	60	CLOSED	ALUM.	NA	FANTECH RSK 4
DP-6	UPPER PAVILION	WEF-5	50 (MIN.)	4" DIA	4" DIA	3	60	CLOSED	ALUM.	NA	FANTECH RSK 4

- ACCESSORIES
- THERMALLY BROKEN FRAMES AND BLADES
 - ACTUATOR OPERATING AND/OR HOLDING POWER REQUIREMTNS SHALL NOT EXCEED 25 WATTS PER ACTUATOR
 - INSULATED AND BROKEN AIRFOIL BLADES, 304 SS AXLE AND LINKAGE, SYNTHETIC AXLE BEARINGS, SILICONE BLADE, AND JAMB SEALS
 - REMOVABLE FRAMED ALUMINIUM OR SS INSECT SCREEN

HEAT RECOVERY VENTILATOR SCHEDULE										
TAG	MINIMUM SENSIBLE EFFICIENCY AT 32 F OUTSIDE AIR	ROOM OR SPACE SERVED	FAN DATA		MOTOR DATA		CONTROL	WEIGHT (LB)	MAKE & MODEL	NOTES
			FLOW (CFM)	SP (IN OF H2O)	MAX POWER (WATT)	V/PH				
HRV-1	75% AT 64 CFM	EFFLUENT TREATMENT BUILDING	132	0.4	163	120/1	REMOTE WALL	44	FANTECH VHR 150R ES	1

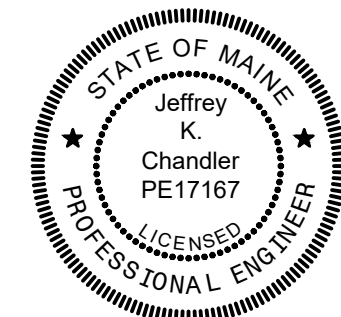
- NOTES:
- AIR CONNECTIONS 4" ROUND OR 5" OVAL WITH PLASTIC ALUMINUM OR STAINLESS TRANSITIONS TO 4" ROUND PVC DUCT

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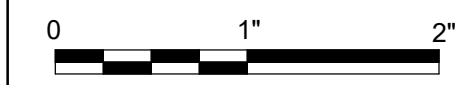
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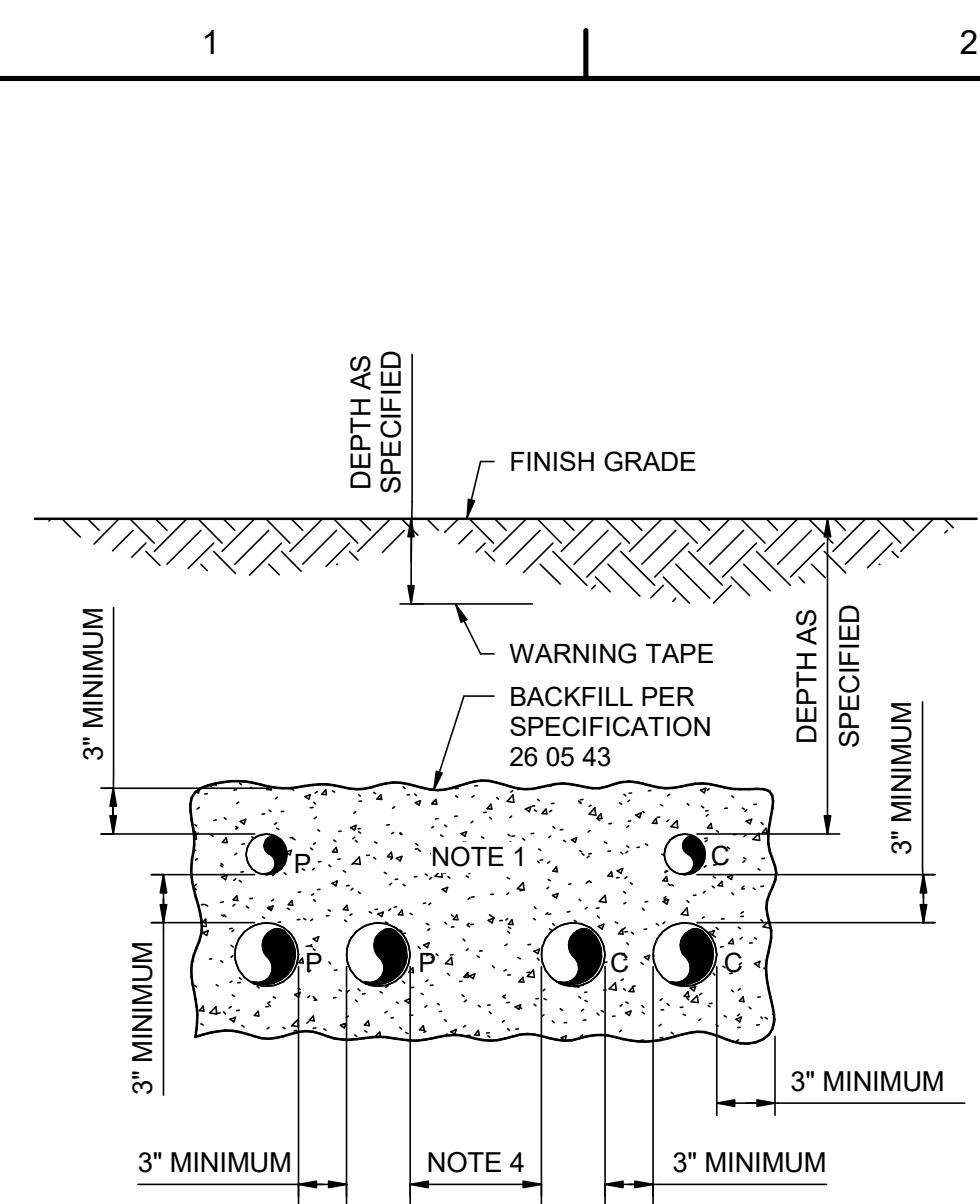
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

MECHANICAL SCHEDULES



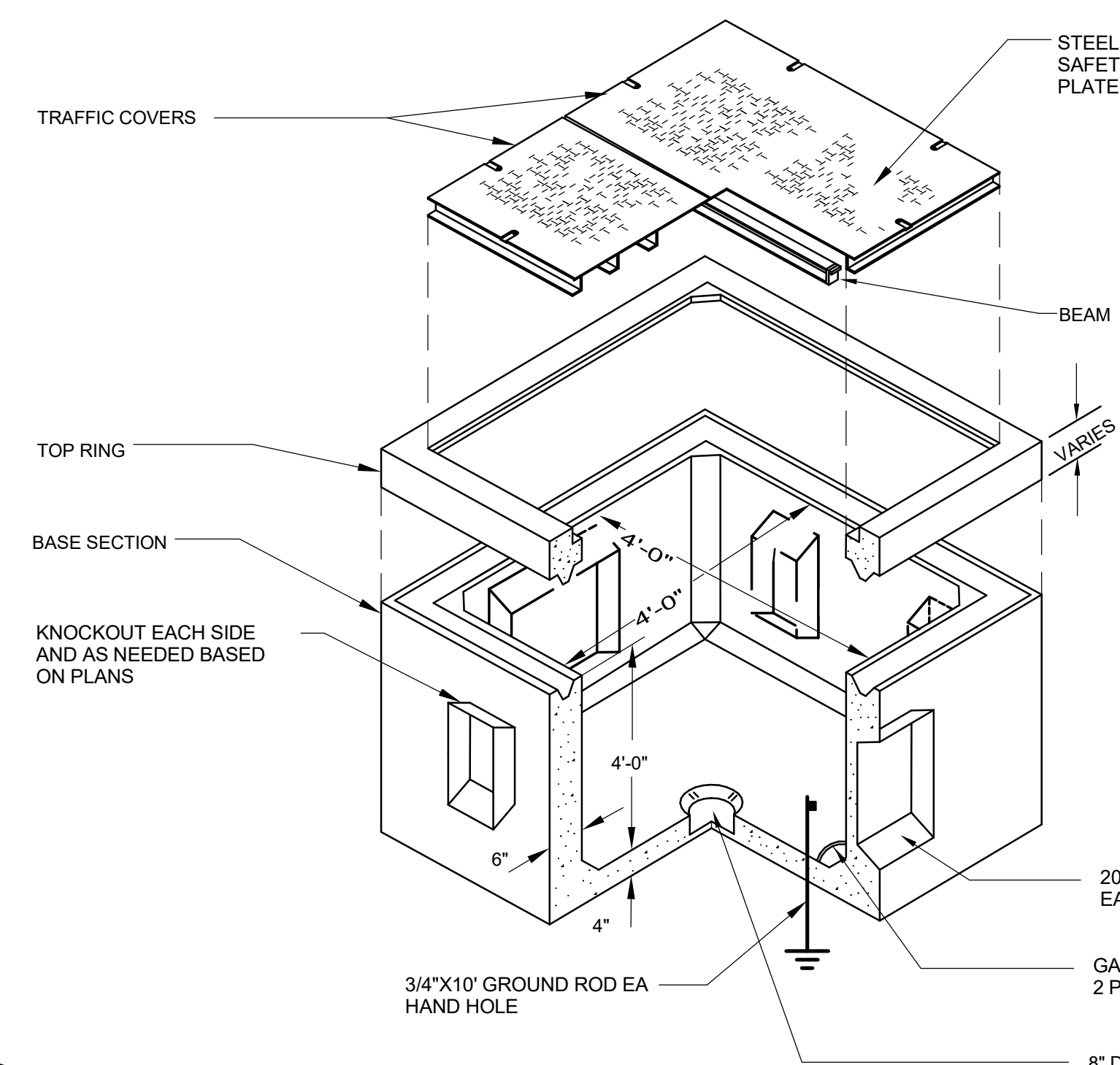
FILENAME | 10353741-00-G.rvt
SCALE

SHEET
00M-601



- NOTES:**
1. NUMBER OF CONDUITS AS REQUIRED FOR THE APPLICATION.
 2. P SUBSCRIPT ELECTRICAL POWER OR CONTROL CONDUIT.
 3. C SUBSCRIPT COMMUNICATION (TELEPHONE, DATA, INSTRUMENTATION) CONDUIT.
 4. 6" MINIMUM WHEN POWER CONDUIT CONTAINS LESS THAN 1000V. 12" MINIMUM WHEN POWER CONDUIT CONTAINS MORE THAN 1000V.

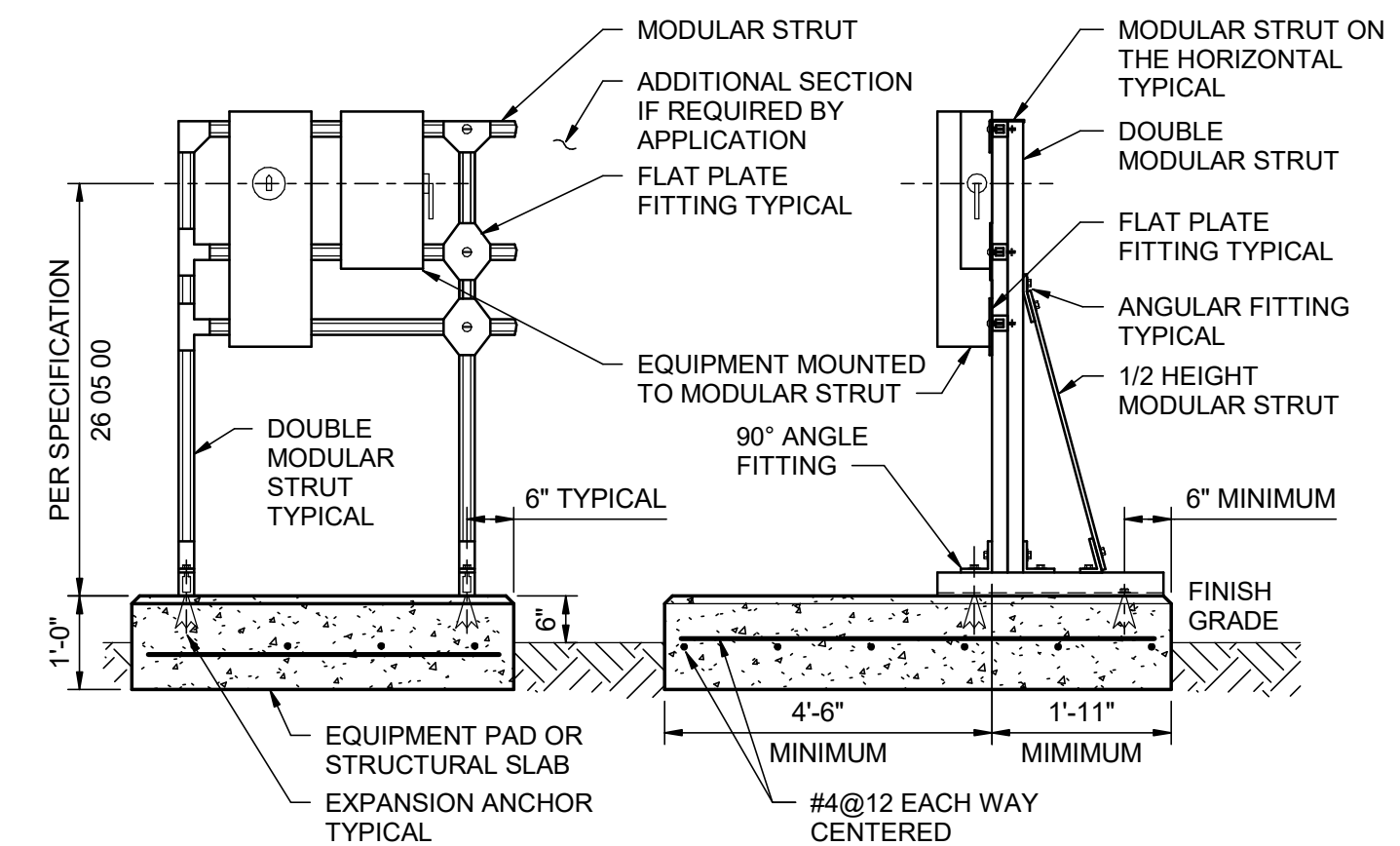
1 DIRECT BURIED CONDUIT(S) SECTION
NOT TO SCALE



INSTALLATION
PLACE A HANDHOLE ON A FOUNDATION OF COMPACTED 1/4 TO 1/2 IN CRUSHED ROCK OR GRAVEL A MINIMUM OF 8 IN THICK AND 6 IN LARGER THAN MANHOLE'S OR HANDHOLE'S FOOTPRINT ON ALL SIDES

REINFORCEMENT FOR H-20 TRAFFIC BRIDGE LOADING.

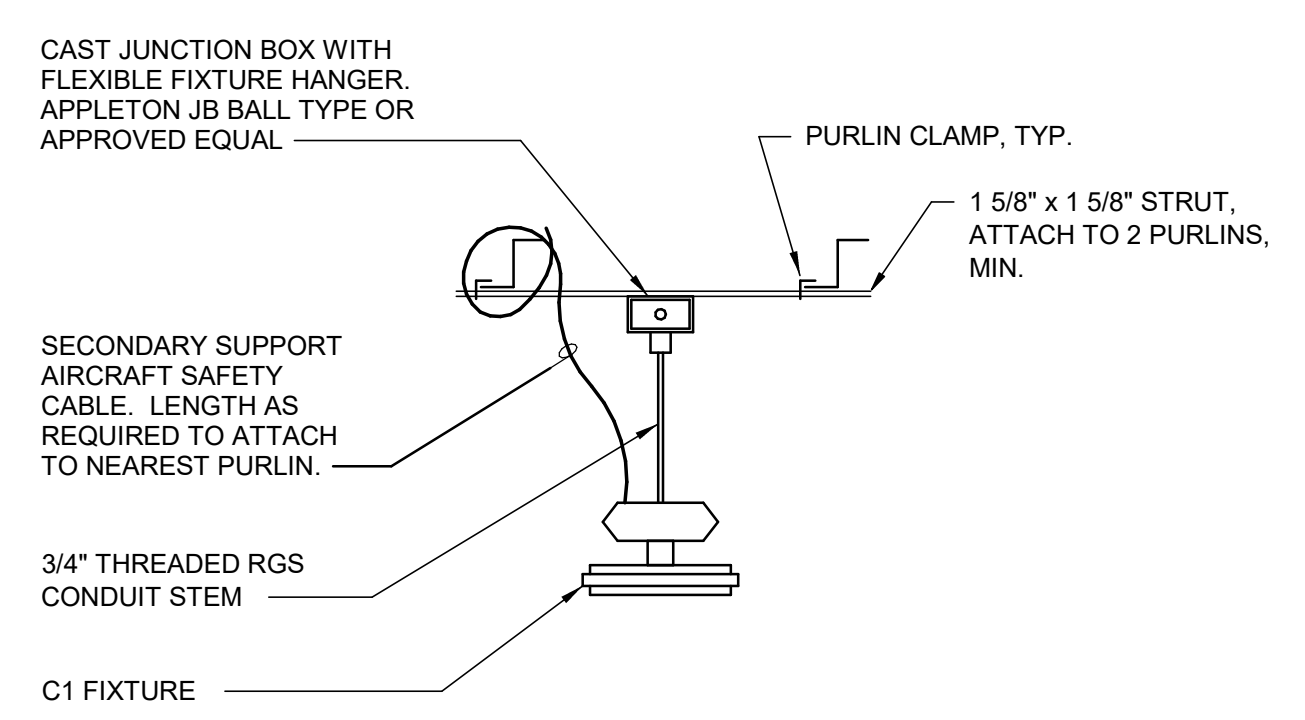
2 HANDHOLE DETAIL
NOT TO SCALE



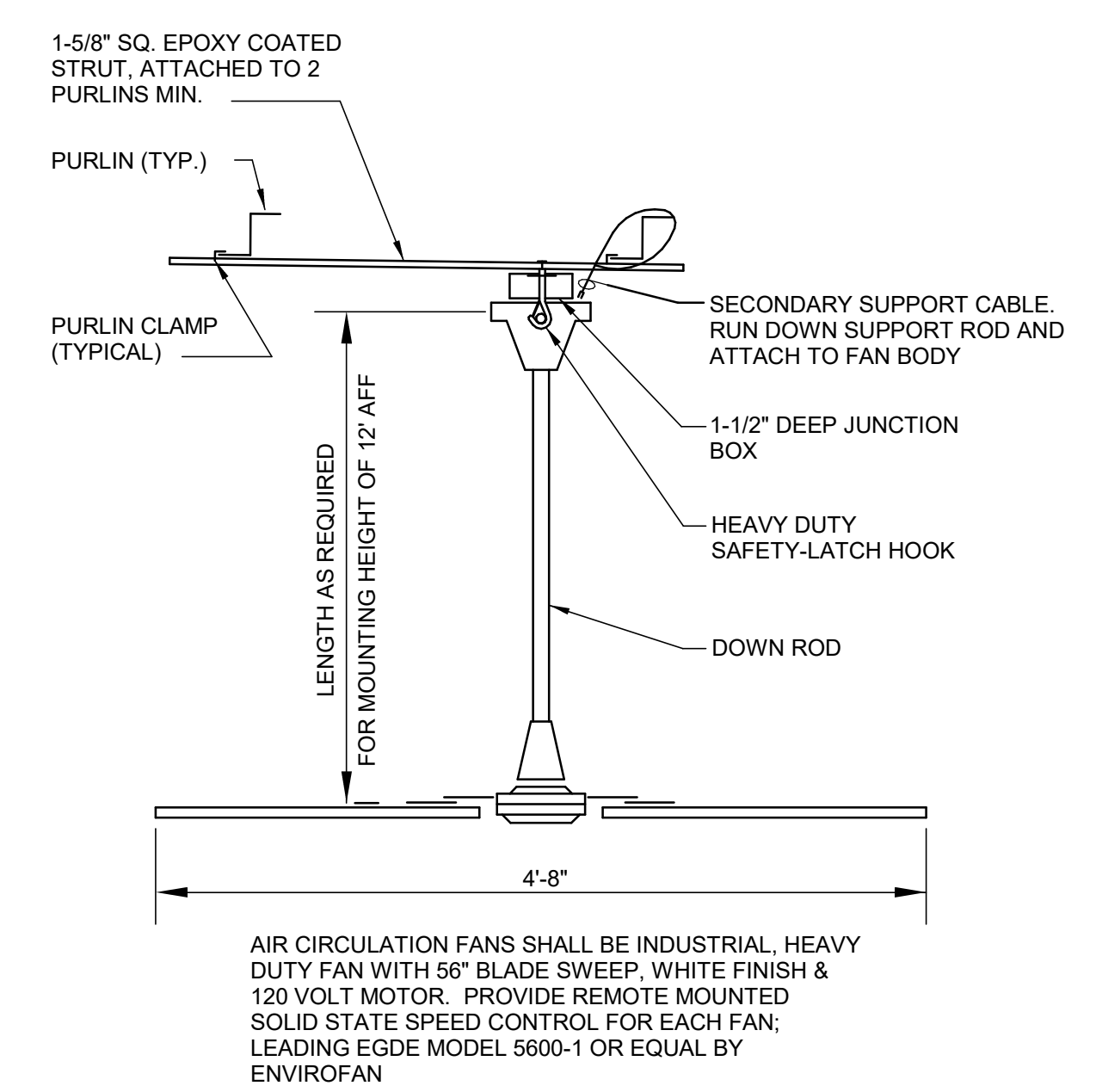
FRONT VIEW **SIDE VIEW**

- NOTES**
1. COMBINED EQUIPMENT LOADS PER 36" SPAN SHALL NOT EXCEED 500LBS.
 2. PROVIDE GROUNDING FOR OUTDOOR INSTALLATIONS, PER SPECIFICATION 26 05 00.
 3. MODULAR STRUT WIDTH: 1 5/8"
 4. RACK ASSEMBLY MATERIAL: GALVANIZED PER SPECIFICATION 26 05 00.
 5. ANCHORS: STAINLESS STEEL, 1/2" DIAMETER, 3 1/2" EMBEDMENT, PER SPECIFICATION 03 15 19.
 6. REPAIR CUT ENDS AND DAMAGED SURFACES IN ACCORDANCE WITH SPECIFICATION 05 50 00.

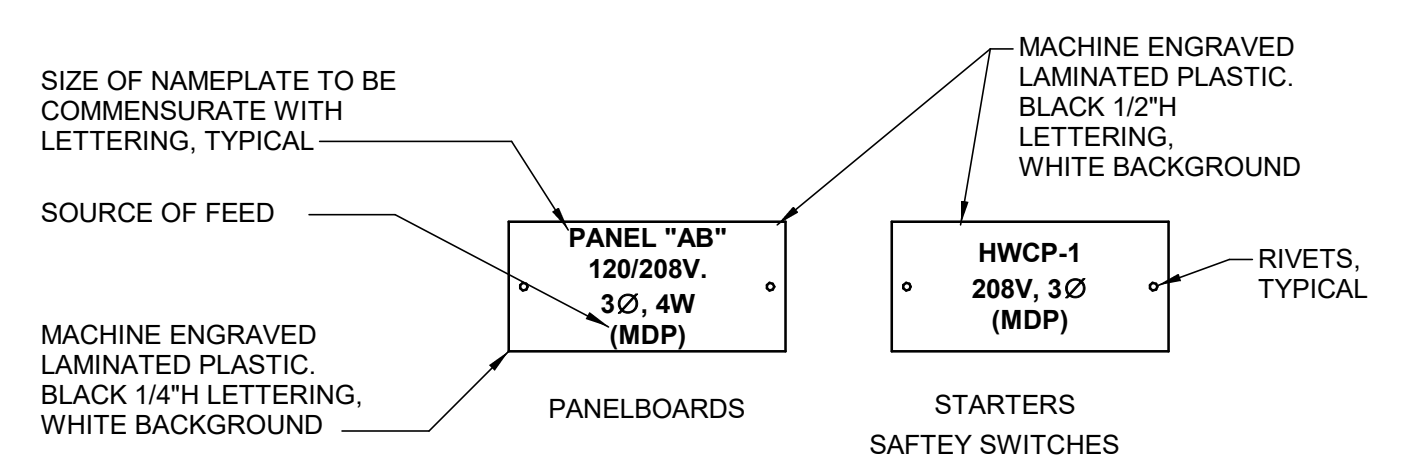
3 MODULAR EQUIPMENT RACK ON CONCRETE PAD
NOT TO SCALE



5 C1 FIXTURE MOUNTING DETAIL
NOT TO SCALE

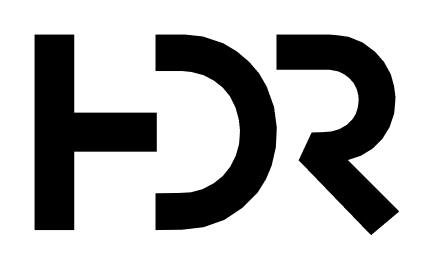


6 AIR CIRCULATING FAN MOUNTING DETAIL
NOT TO SCALE



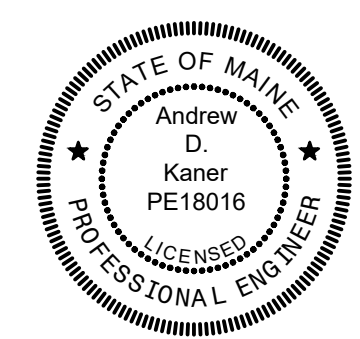
7 NAME PLATES DETAIL
NOT TO SCALE

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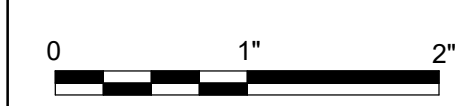
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



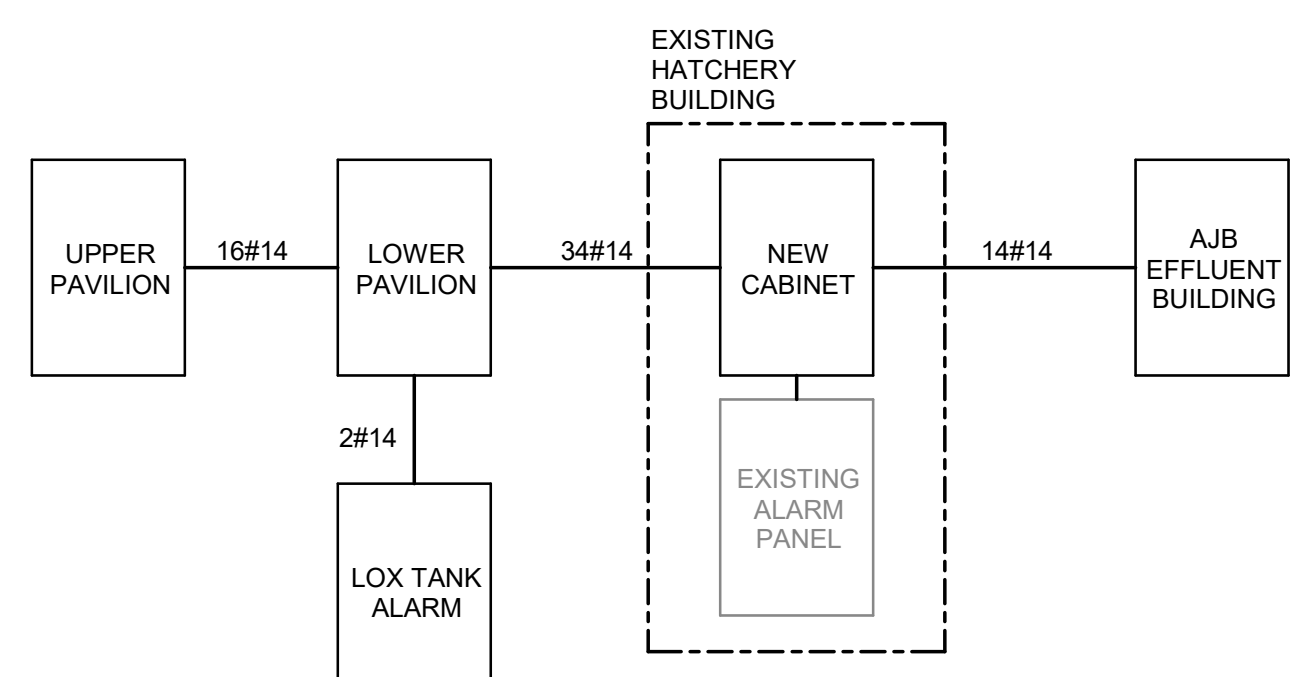
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL ELECTRICAL DETAILS 1



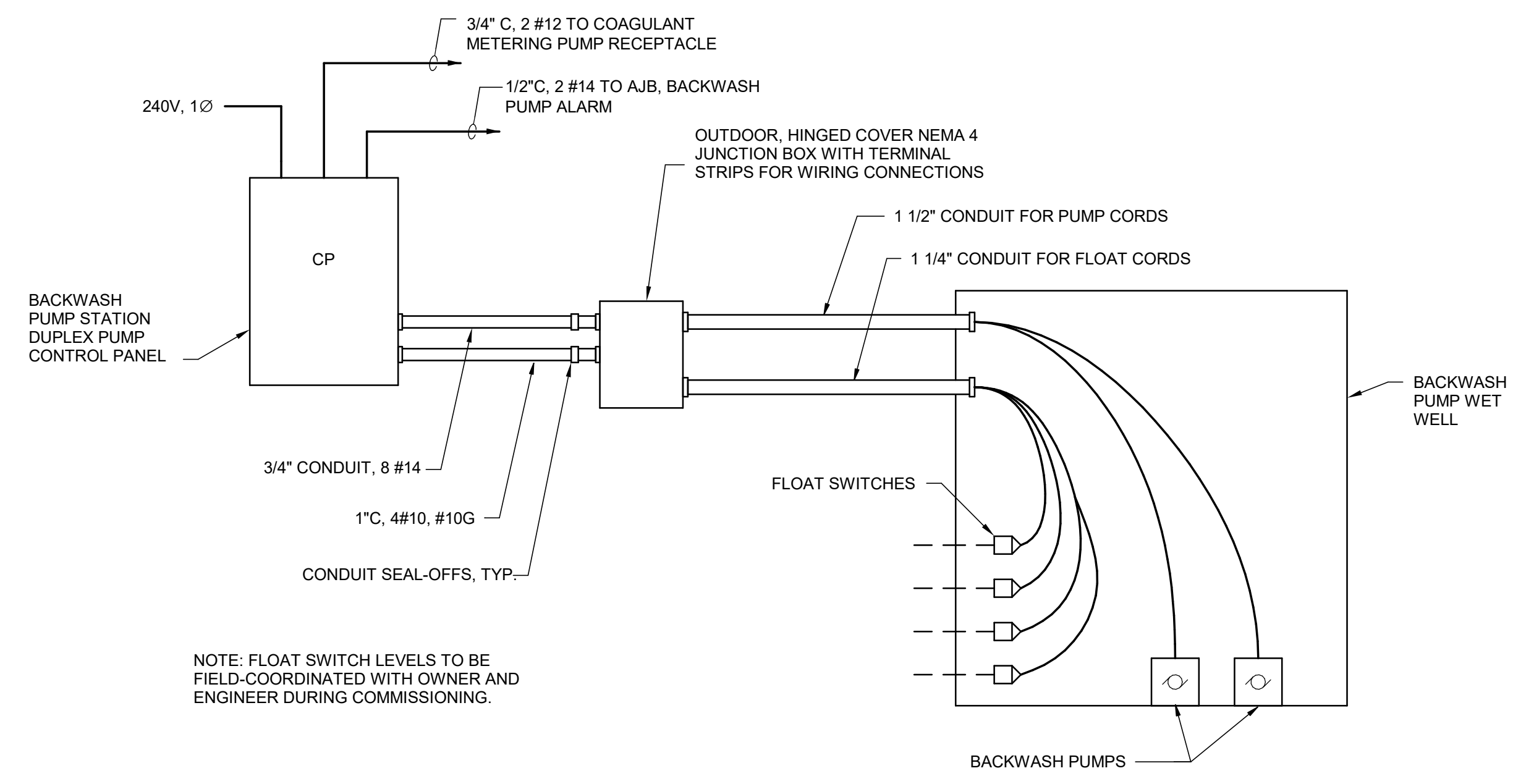
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- NOTES:**
- COORDINATE WITH SEACOAST SECURITY FOR DETAILED REQUIREMENTS.
 - PROVIDE NEW CABINET NEXT TO EXISTING SECURITY PANEL. PANEL TO INCLUDE TWO 8-INPUT EXPANSION MODULES.
 - PROVIDE 6 SPARE #14 WIRES BACK TO EFFLUENT TREATMENT BUILDING.

1 ALARM BLOCK DIAGRAM
NOT TO SCALE



NOTE: FLOAT SWITCH LEVELS TO BE FIELD-COORDINATED WITH OWNER AND ENGINEER DURING COMMISSIONING.

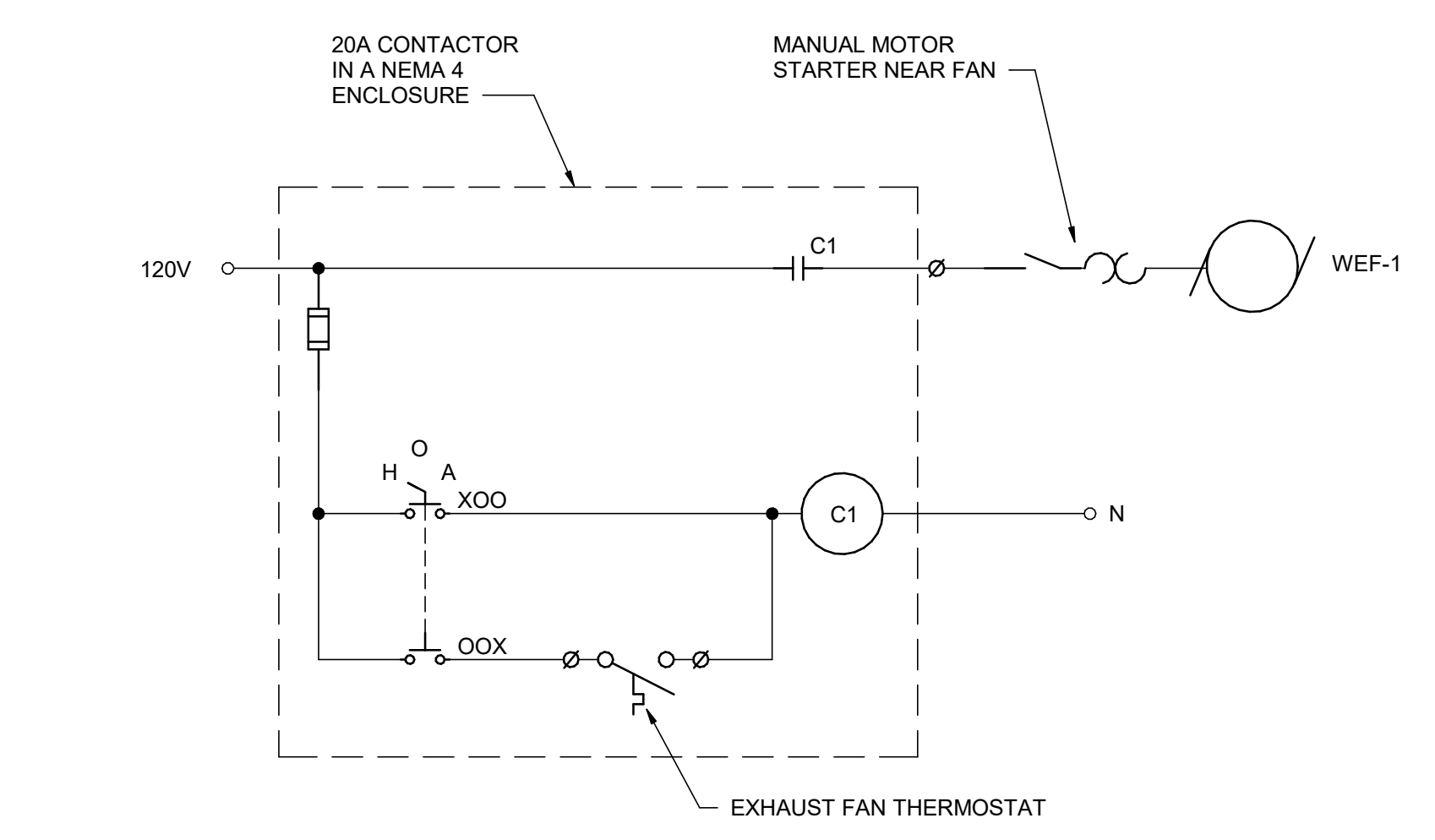
2 BACKWASH PUMP SYSTEM - BLOCK DIAGRAM
NOT TO SCALE

ALARM JUNCTION BOX TERMINALS - EFFLUENT BUILDING	
TERMINALS	DESCRIPTION
1a - 1b	CLARIFIER PANEL ALARM
2a - 2b	SLUDGE PUMP TRIP
3a - 3b	EDF-1 ALARM
4a - 4b	EDF-2 ALARM
5a - 5b	BACKWASH PUMP STATION ALARM
6a - 6b	HEAT TRACE 1
7a - 7b	HEAT TRACE 2
8a - 8b	

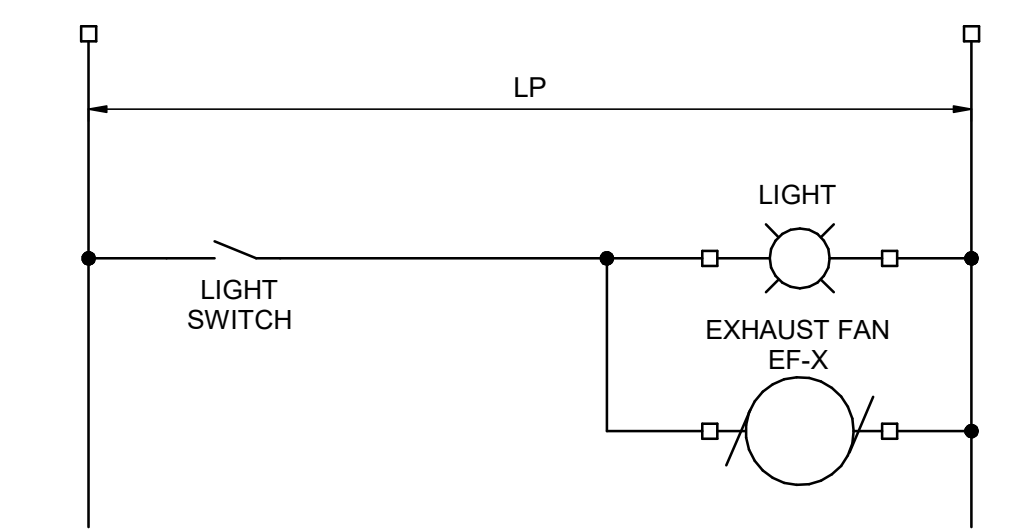
ALARM JUNCTION BOX TERMINALS - LOWER PAVILION	
TERMINALS	DESCRIPTION
1a - 1b	TANK 1 - LOW LEVEL
2a - 2b	TANK 2 - LOW LEVEL
3a - 3b	TANK 3 - LOW LEVEL
4a - 4b	TANK 4 - LOW LEVEL
5a - 5b	TANK 5 - LOW LEVEL
6a - 6b	TANK 6 - LOW LEVEL
7a - 7b	TANK 7 - LOW LEVEL
8a - 8b	TANK 8 - LOW LEVEL
9a - 9b	LOX TANK ALARM

ALARM JUNCTION BOX TERMINALS - UPPER PAVILION	
TERMINALS	DESCRIPTION
1a - 1b	TANK 1 - LOW LEVEL
2a - 2b	TANK 2 - LOW LEVEL
3a - 3b	TANK 3 - LOW LEVEL
4a - 4b	TANK 4 - LOW LEVEL
5a - 5b	TANK 5 - LOW LEVEL
6a - 6b	TANK 6 - LOW LEVEL
7a - 7b	TANK 7 - LOW LEVEL
8a - 8b	TANK 8 - LOW LEVEL

3 ALARM JUNCTION BOX SCHEDULES
NOT TO SCALE

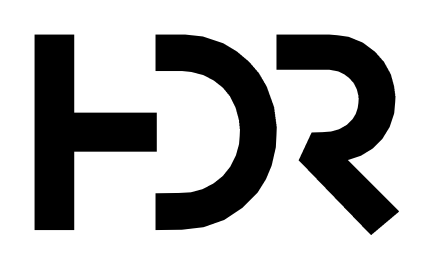


6 WIRING DIAGRAM - EXHAUST FAN
NOT TO SCALE



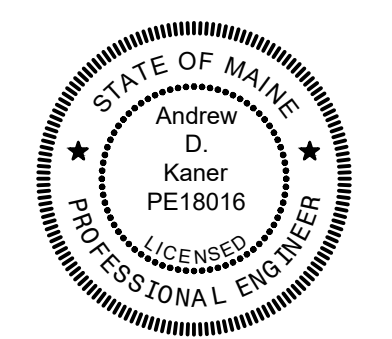
5 CONTROL DIAGRAM: PAVILION FEED STORAGE FAN/LIGHT
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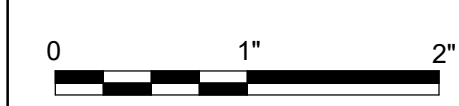
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
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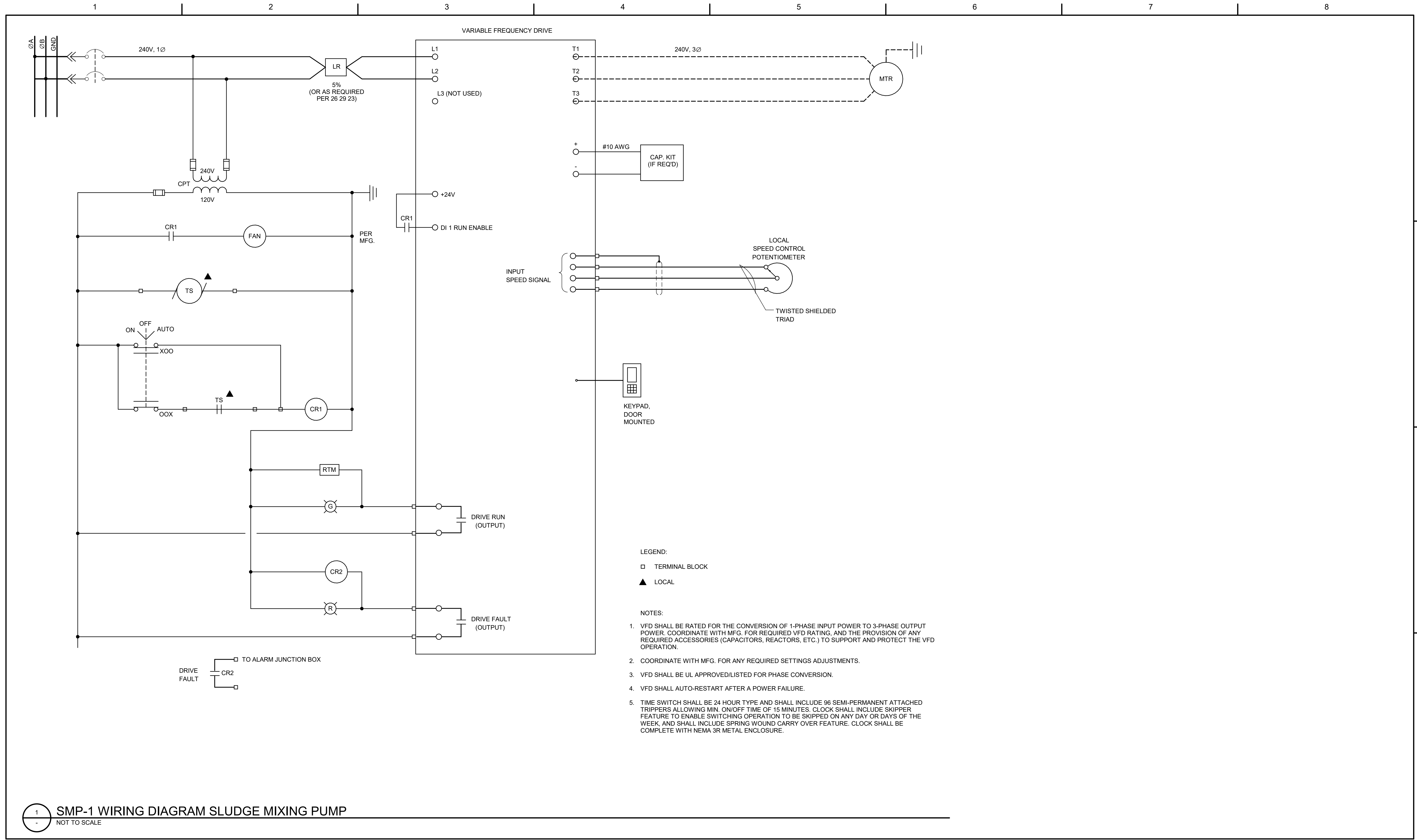
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL ELECTRICAL DETAILS 2



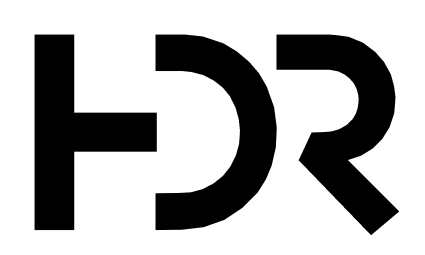
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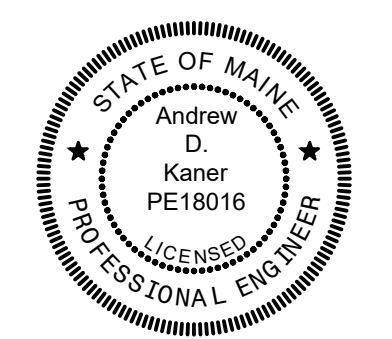
1 SMP-1 WIRING DIAGRAM SLUDGE MIXING PUMP
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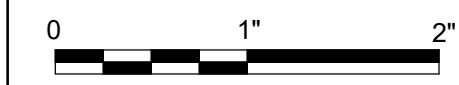
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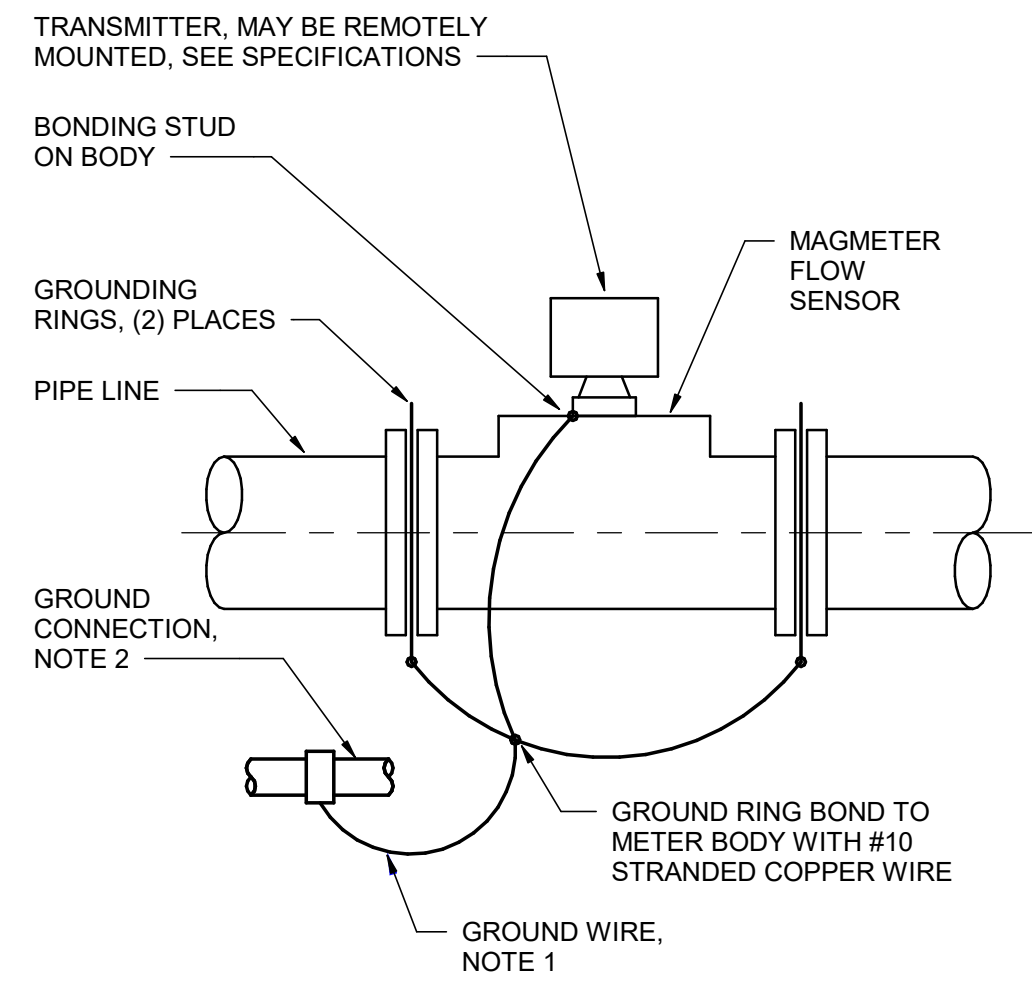
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL ELECTRICAL DETAILS 3



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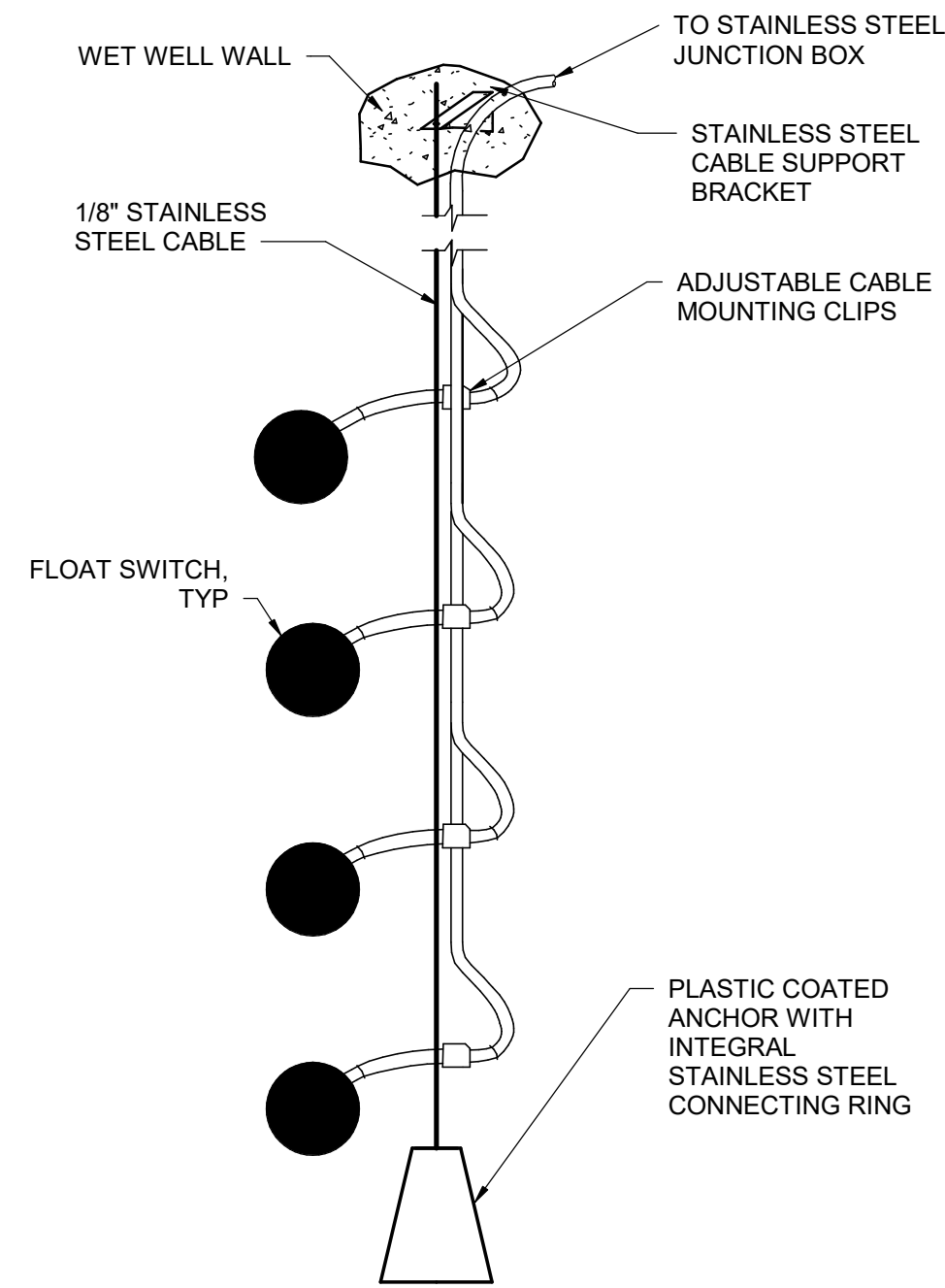
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NOTES:

1. NO. 10 AWG INSULATED IF LENGTH IS LESS THAN 6'. IF MORE THAN 6', INSTALL CONDUCTOR IN 3/4" CONDUIT.
2. BOND MAGMETER TO ONE OF THE FOLLOWING ACCEPTABLE GROUNDS:
 - A. POWER CIRCUIT GROUND CONDUCTOR AT TRANSMITTER.
 - B. NEAREST AVAILABLE EQUIPMENT GROUND CONNECTION POINT.
 - C. SEPARATE TAIL FROM EMBEDDED GROUND MAT.

1
MAGNETIC FLOW METER
GROUNDING RING BONDING
NOT TO SCALE

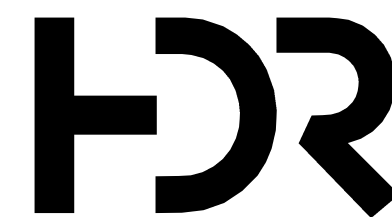


NOTES:

1. LEVEL FLOATS TO BE MOUNTED WITHIN 18" TO ONE SIDE OF ACCESS OPENING.
2. WHEN FLOATS ARE SET CLOSER THAN 18" OF LEVEL DIFFERENCE, ROTATE FLOATS AROUND PIPE TO AVOID INTERFERENCE.

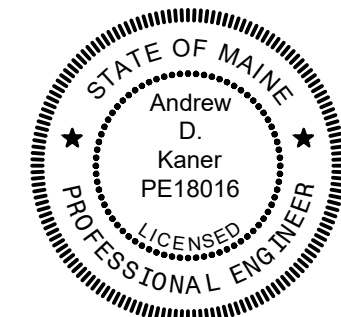
2
TYPICAL WET WELL LEVEL FLOATS
INSTALLATION DETAIL
NOT TO SCALE

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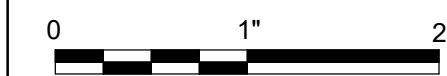
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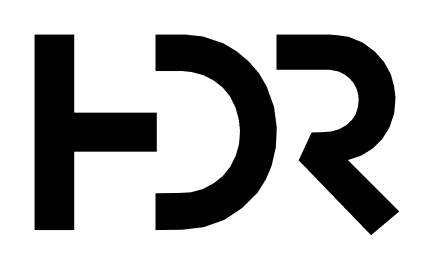
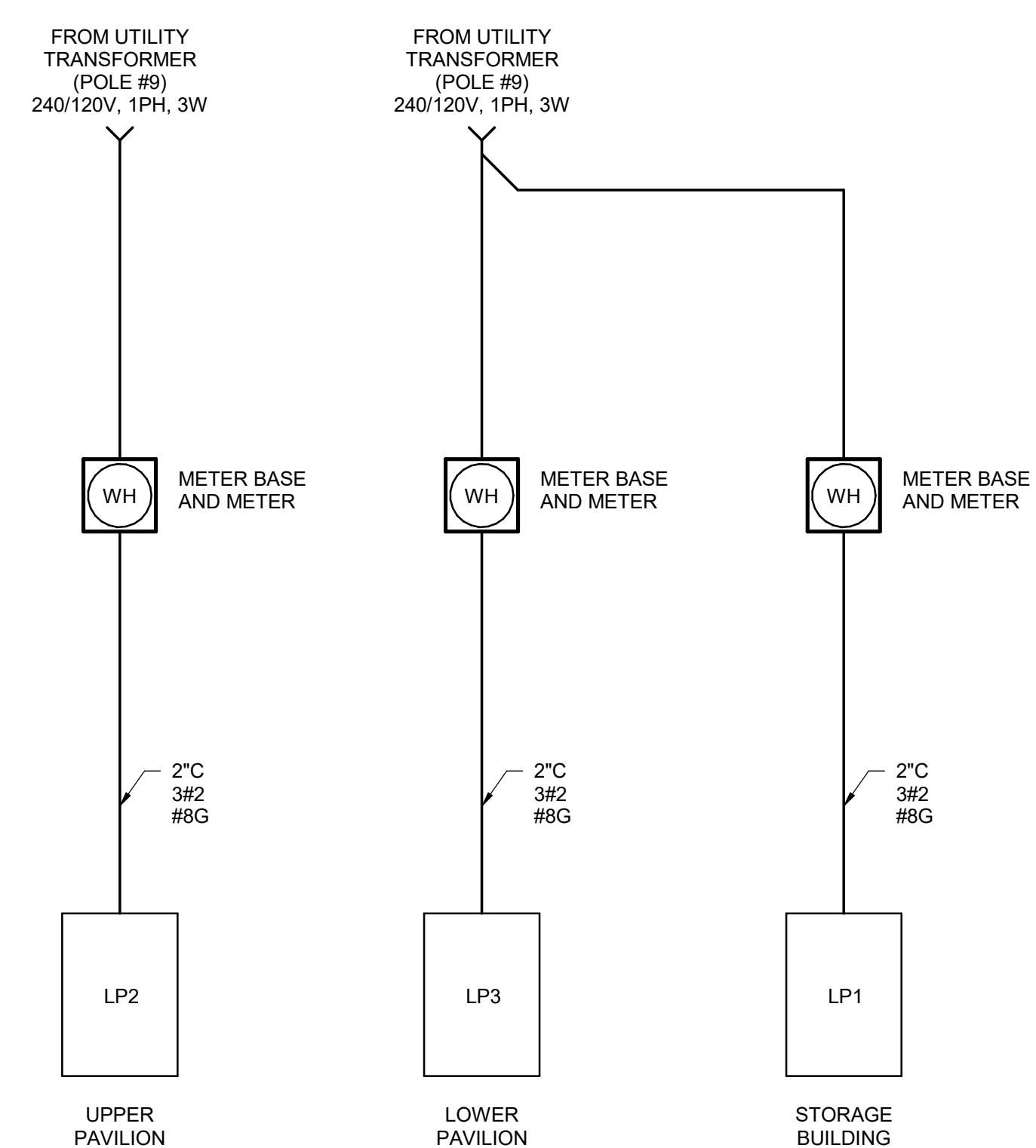
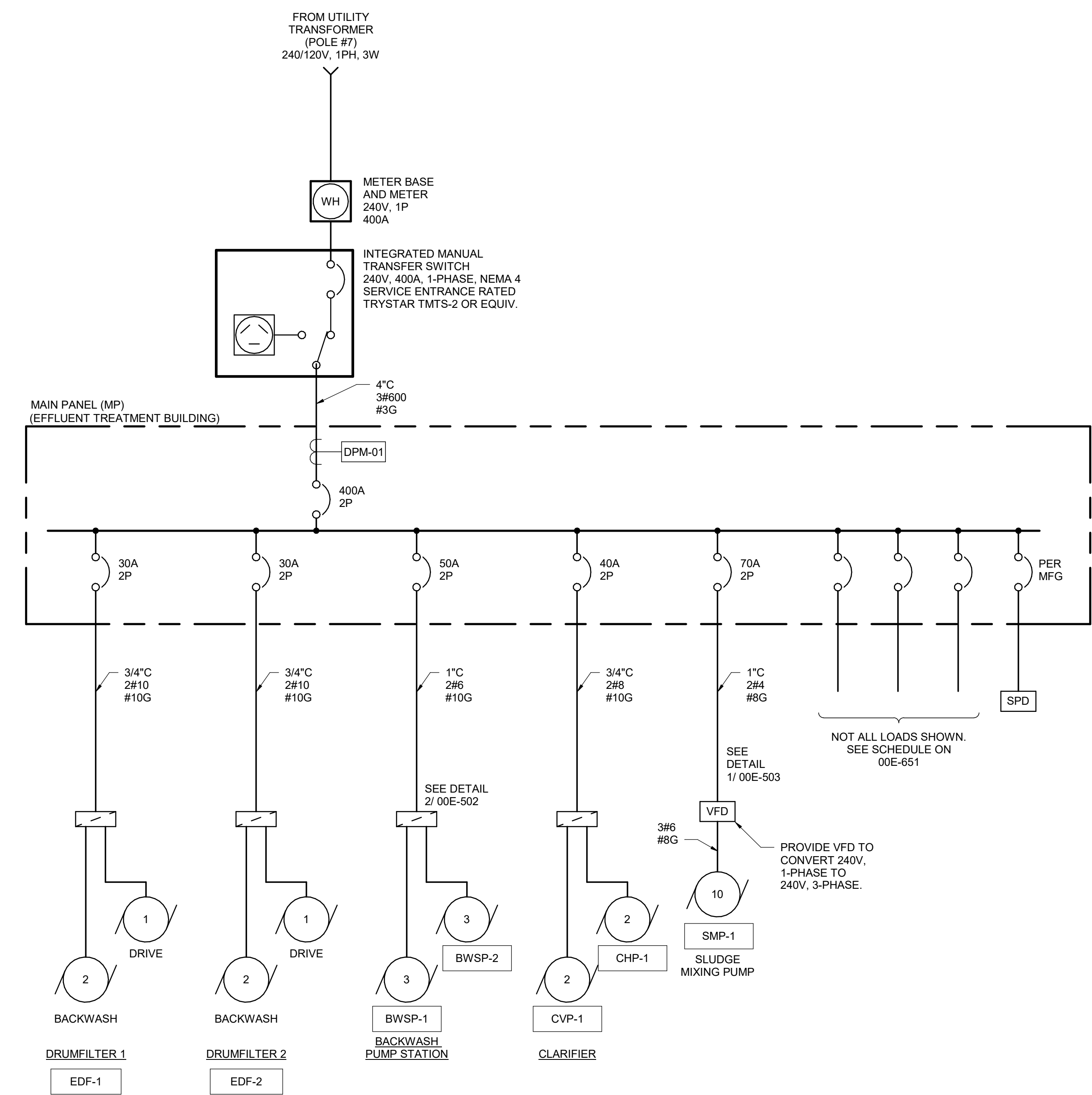
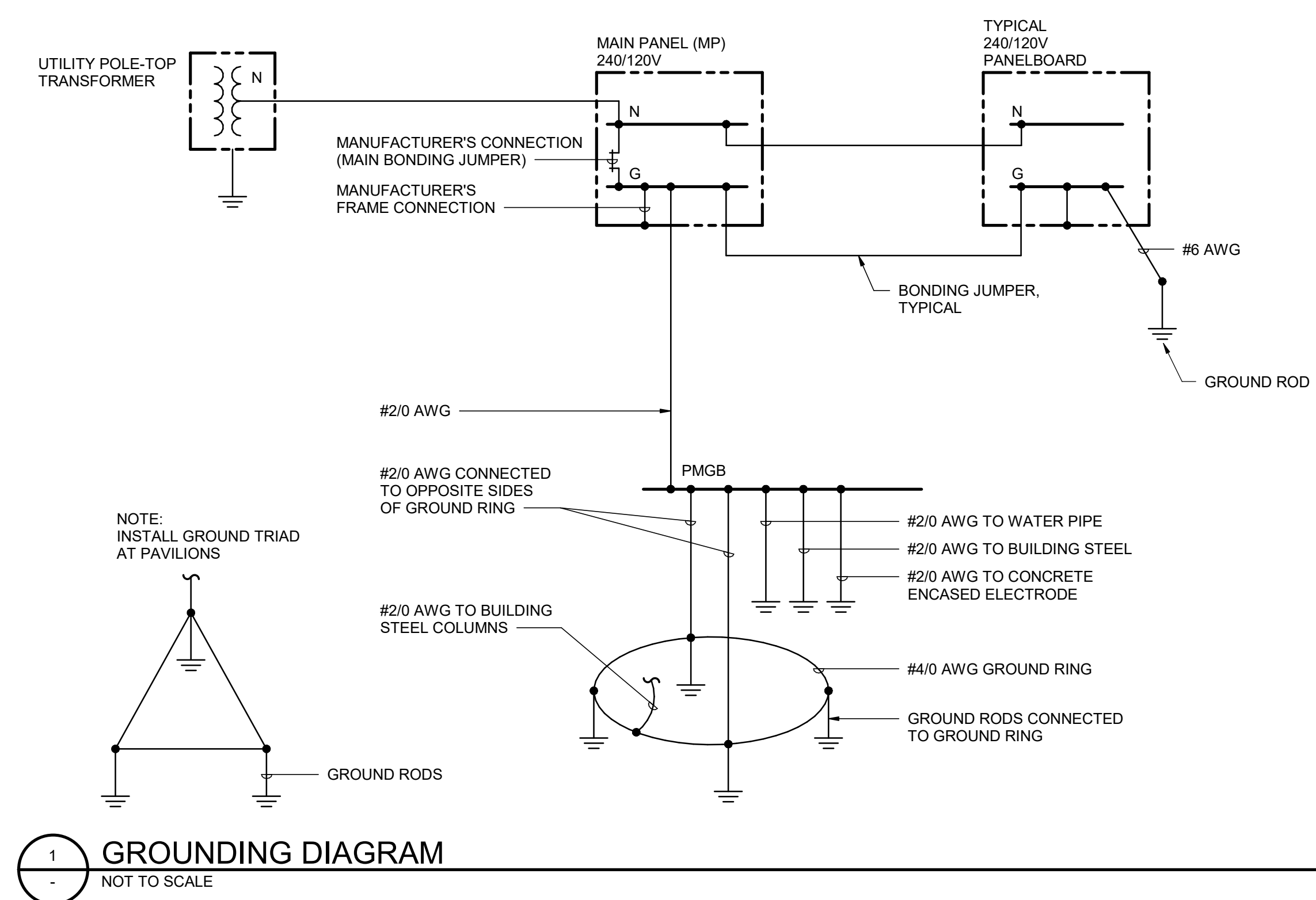
**NEW GLOUCESTER STATE FISH
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Phase III Facility
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GENERAL INSTRUMENTATION DETAILS



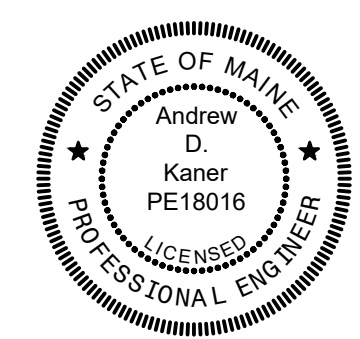
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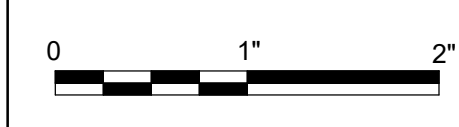
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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

DIAGRAMS



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PANELBOARD NO: LP2
VOLTAGE: 240/120
PHASE: 1
WIRE: 3+GND
200% NEUTRAL: NO
BUS RATING...: 100
MAIN OC DEVICE: 40/2
INTERRUPTING RATING (KA): 10
SERVICE ENTRANCE LABEL: NO
ENCLOSURE: NEMA 4
MOUNTING: SURFACE
LOCATION: UPPER PAVILION

LOAD SUMMARY
CONNECTED LOAD (KVA) 1.8
DEMAND FACTOR 1.25
DESIGN LOAD (KVA) 2.3

PANELBOARD NO: LP3
VOLTAGE: 240/120
PHASE: 1
WIRE: 3+GND
200% NEUTRAL: NO
BUS RATING...: 100
MAIN OC DEVICE: 40/2
INTERRUPTING RATING (KA): 10
SERVICE ENTRANCE LABEL: NO
ENCLOSURE: NEMA 4
MOUNTING: SURFACE
LOCATION: LOWER PAVILION

LOAD SUMMARY
CONNECTED LOAD (KVA) 1.9
DEMAND FACTOR 1.25
DESIGN LOAD (KVA) 2.4

ELECTRICAL EQUIPMENT INSTALLATION SCHEDULE
BUILDING: EFFLUENT TREATMENT BUILDING, LOWER PAVILION, UPPER PAVILION
AREA DESIGNATION: DAMP, WET
MOUNTING: SURFACE
MATERIAL: RGS
SAFETY SWITCH, STARTERS, CONTROL STATIONS, ETC.: NEMA 4

PANELBOARD NO: MAIN PANEL (MP)
VOLTAGE: 240/120
PHASE: 1
WIRE: 3+GND
200% NEUTRAL: NO
BUS RATING...: 400
MAIN OC DEVICE: 100/2
INTERRUPTING RATING (KA): 10
SERVICE ENTRANCE LABEL: NO
ENCLOSURE: NEMA 4
MOUNTING: SURFACE
LOCATION: EFFLUENT TREATMENT

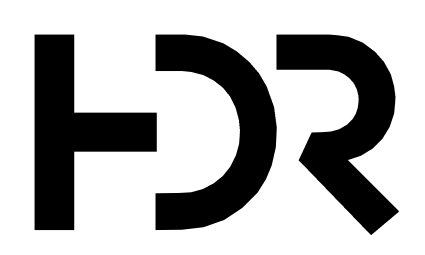
LOAD SUMMARY
CONNECTED LOAD (KVA) 0.4
DEMAND FACTOR 1.25
DESIGN LOAD (KVA) 0.5

LUMINAIRE SCHEDULE
ID: B1, C1, F1, W1, W2
DESCRIPTION: STRIP LIGHT (4'), HIGH BAY, ARCHITECTURAL GRADE AREA LIGHT, WEATHER-PROOF WALLPACK W/ EMERGENCY BACKUP, COLD-WEATHER RATED OCCUPANCY SENSOR WITH BI-LEVEL DIMMING
MANUFACTURER: LITHONIA, MANUFACTURER STANDARD
SOURCE: LED, 5,000, 34.8, 120, 12,000, 83, 8,360, 69, 3,000, 25, 6,500, 25, 120
VOLTS: 120
MOUNTING: AIRCRAFT CABLE, PENDANT, POLE, WALL
CONTROL: A, B, C

GENERAL NOTES:
1. WHERE LUMINAIRES ARE SHOWN ON THE DRAWINGS AS EMERGENCY TYPE, PROVIDE INTEGRAL BATTERY AND EMERGENCY DRIVER.
LIGHTING CONTROL STRATEGY DESCRIPTION:
A. MANUAL ON / MANUAL OFF: OCCUPANT MANUALLY TURNS THE LIGHTS ON WHEN ENTERING SPACE...

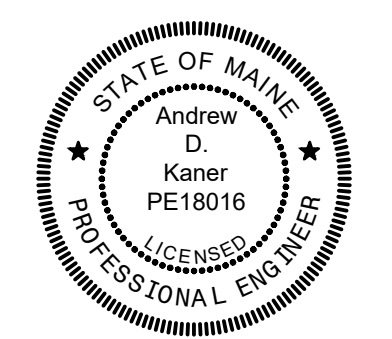
GENERAL NOTES:
1. REFER TO 05E-101 FOR STORAGE BUILDING PANEL LP1 SCHEDULE

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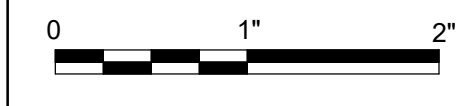
PROJECT MANAGER ANDREW GURSKI
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PROCESS J. CHANDLER
MECHANICAL J. CHANDLER
ELECTRICAL A. KANER
05/03/2024 ISSUED FOR BID
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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

ELECTRICAL SCHEDULES 1



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MECHANICAL / ELECTRICAL COORDINATION SCHEDULE

MECHANICAL / ELECTRICAL COORDINATION SCHEDULE														
ABBREVIATIONS:														
A	AMPS		C	CONTACTOR		E	ELECTRICAL CONTRACTOR		N1	NEMA 1				
ENCL	ENCLOSURE		CB	CIRCUIT BREAKER		M	MECHANICAL CONTRACTOR		N3R	NEMA 3R				
HP	HORSEPOWER		CP	CONTROL PANEL		NF	NON-FUSED		N4	NEMA 4				
KW	KILOWATTS		IN	INTEGRAL WITH EQUIPMENT					N4X	NEMA 4X				
PH	PHASE		S	HP RATED TOGGLE SWITCH OR ROTARY SWITCH					N7	NEMA 7				
V	VOLTAGE		SS	SAFETY SWITCH					N9	NEMA 9				
W	WATTS		VFD	VARIABLE FREQUENCY DRIVE					N12	NEMA 12				

EQUIPMENT			ELECTRICAL SYSTEM				DISCONNECT				CONTROLLER			REMARKS
TAG	DESCRIPTION	LOAD	V	PH	WIRE, CONDUIT	PANEL: CIRCUIT	FURNISHED BY/ INSTALLED BY	TYPE	RATING (AMPS)	ENCL	FURNISHED BY/ INSTALLED BY	TYPE	ENCL	
WEF-1	EFFLUENT TREATMENT FAN	0.25 HP	120	1	2#12, 1#12G, 3/4"C	MP-5	M/IN	-	-	-	M/IN	-	-	1
WEF-2	UPPER PAVIL, NORTH FEED FAN	0.375 HP	120	1	2#12, 1#12G, 3/4"C	-	M/IN	-	-	-	M/IN	-	-	3
WEF-3	LOWER PAVIL, NORTH FEED FAN	0.375 HP	120	1	2#12, 1#12G, 3/4"C	-	M/IN	-	-	-	M/IN	-	-	3
WEF-4	UPPER PAVIL, SOUTH FEED FAN	0.375 HP	120	1	2#12, 1#12G, 3/4"C	-	M/IN	-	-	-	M/IN	-	-	3
WEF-5	LOWER PAVIL, SOUTH FEED FAN	0.375 HP	120	1	2#12, 1#12G, 3/4"C	-	M/IN	-	-	-	M/IN	-	-	3
UH-1	PROPANE UNIT HEATER	3.7 A	120	1	2#12, 1#12G, 3/4"C	MP-7	M/IN	-	-	-	M/IN	-	-	1
HRV-1	HEAT RECOVERY VENTILATOR	163 W	120	1	2#12, 1#12G, 3/4"C	MP-8	E/E	S	20	N4	M/IN	-	-	2

MEP SCHEDULE NOTES AND REMARKS

GENERAL NOTES:

- A. VERIFY/COORDINATE RATINGS FOR EQUIPMENT SUPPLIED BY THE SELECTED MANUFACTURER. WHERE RATINGS ARE OTHER THAN AS REQUIRED FOR SPECIFIED UNIT, DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS SHALL BE PROVIDED ACCORDINGLY. THE CONTRACTOR THAT FURNISHES EQUIPMENT WITH RATINGS OTHER THAN AS NOTED SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR REVISIONS TO ACCOMMODATE SELECTED...
- B. FRACTIONAL HORSEPOWER SINGLE PHASE MOTORS SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION.
- C. SAFETY SWITCHES SHALL BE FUSIBLE UNLESS NOTED OTHERWISE. PROVIDE FUSES SIZED PER MANUFACTURERS RECOMMENDATIONS.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO EQUIPMENT AS INDICATED.
- E. WHERE DISCONNECT IS NOT SHOWN ON PLANS, LOCATE AT EQUIPMENT PER NEC.
- F. MOTORS RATED 120 VOLT AND LESS THAN 1/3 HP SHALL HAVE 15/1 BRANCH CIRCUIT BREAKER IN PANEL. MOTORS RATED 120 VOLT, 1/3 HP AND LARGER SHALL HAVE 20/1 BRANCH CIRCUIT BREAKER IN PANEL.
- G. REFER TO SPECIFICATION 23 09 00 FOR ADDITIONAL WIRING REQUIREMENTS.
- H. REFER TO SPECIFICATIONS FOR SHORT CIRCUIT CURRENT RATING (SCCR) FOR EQUIPMENT.

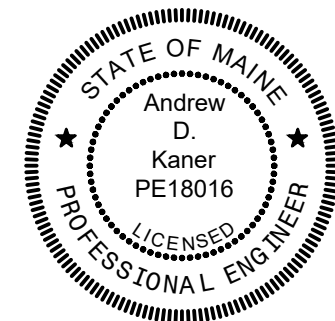
REMARKS

- 1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING TO THERMOSTATS FURNISHED BY MECHANICAL CONTRACTOR. SEE 04M-101 FOR T-STAT LOCATIONS.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND WIRING TO VENTILATOR CONTROLLER FURNISHED BY MECHANICAL CONTRACTOR. SEE 04M-101 FOR LOCATION.
- 3. INTERLOCK FAN WITH LIGHT SWITCH SO THAT FAN COMES ON WHEN LIGHT SWITCH IS ON.



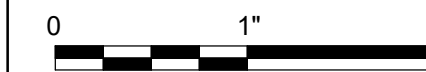
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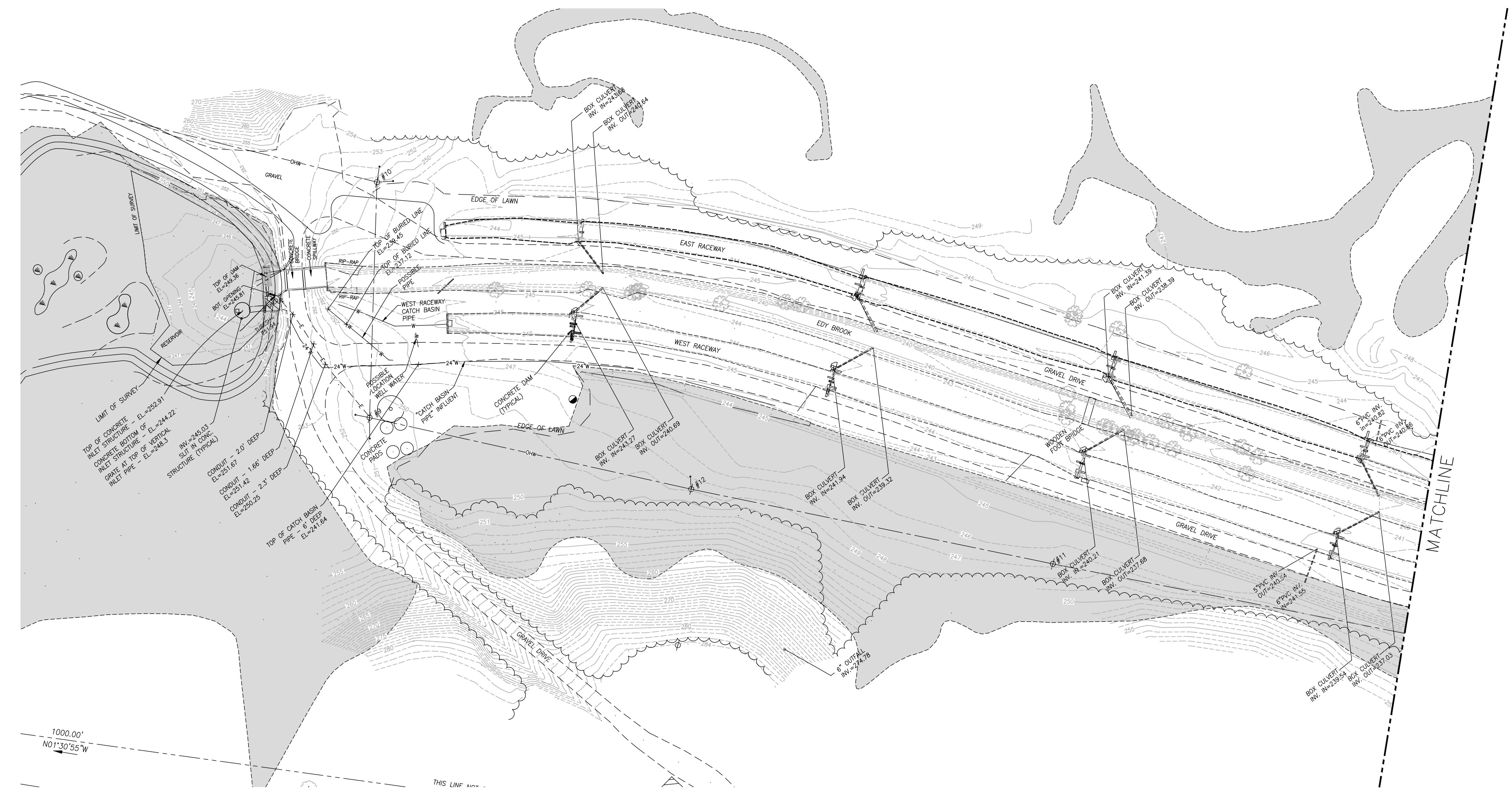
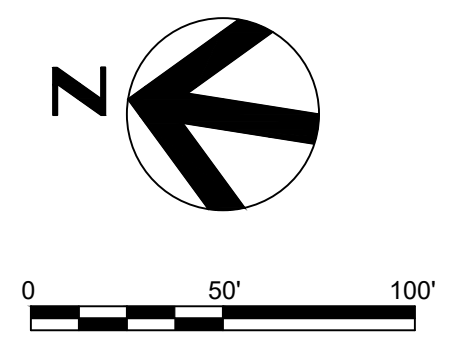
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ELECTRICAL SCHEDULES 2



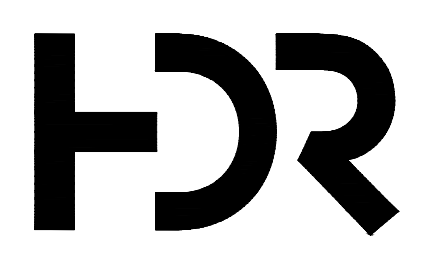
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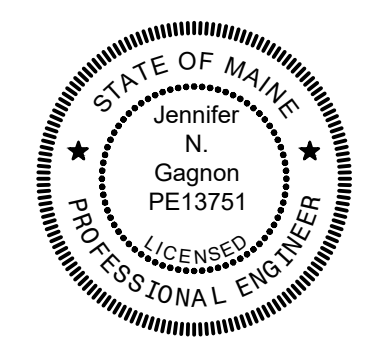
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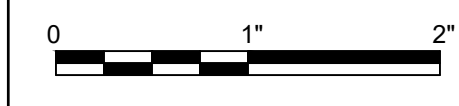
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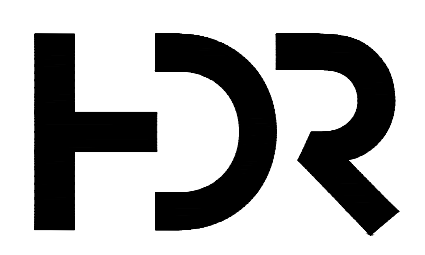
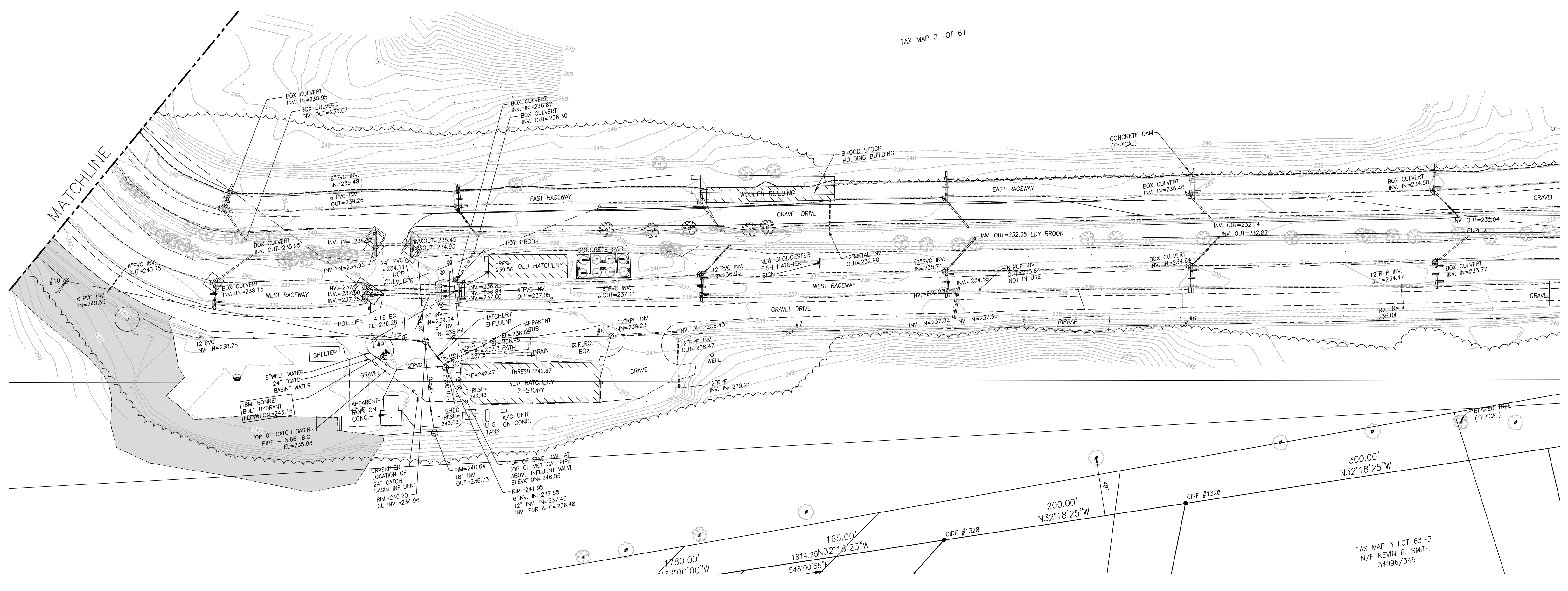
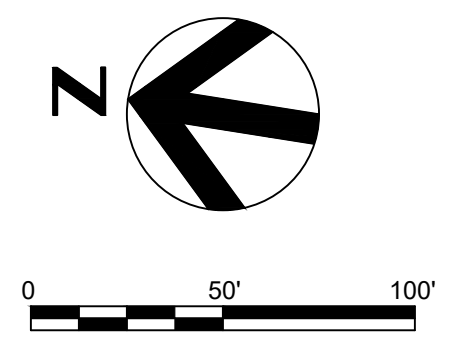
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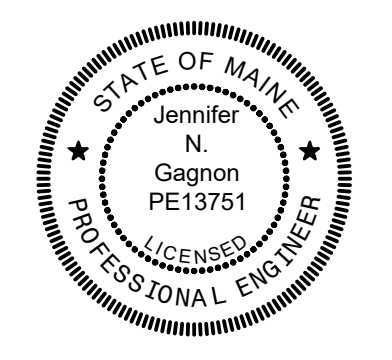
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05/03/2024	ISSUED FOR BID	
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER ANDREW GURSKI	
CIVIL	A. GURSKI
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



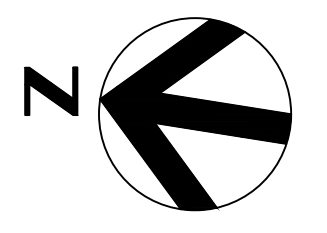
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EXISTING TOPOGRAPHIC SURVEY 2

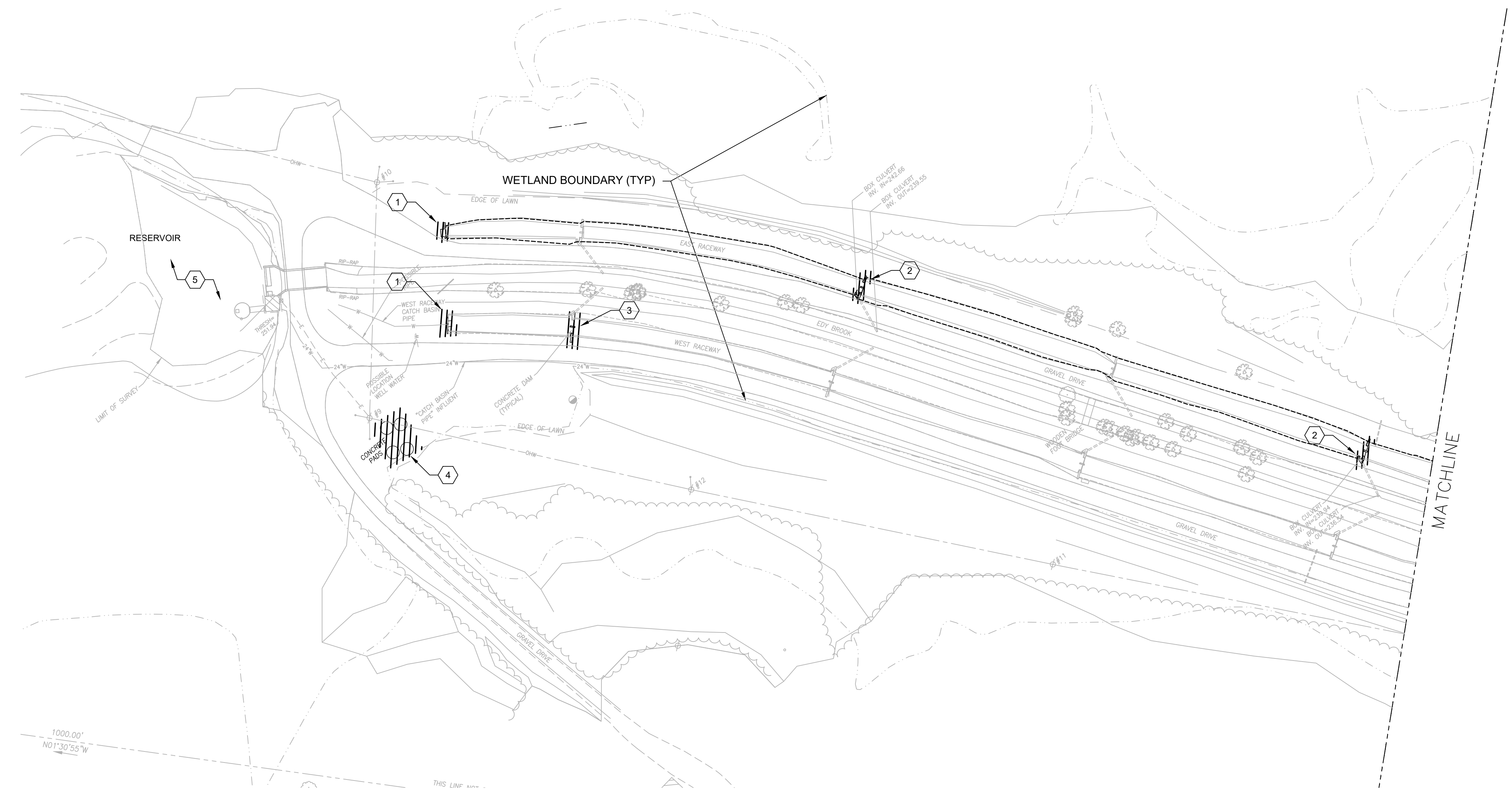
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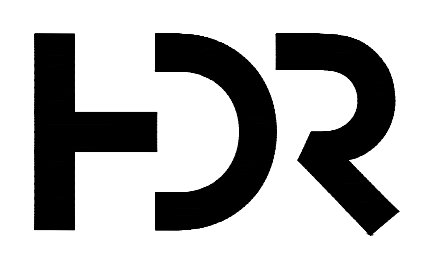
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- KEYED NOTES:** #
1. REMOVE WOODEN WEIR STRUCTURE.
 2. REMOVE PCC WEIR STRUCTURE AND CAP EXISTING BOX CULVERT.
 3. REMOVE CENTER PIER AND WEST BANK CONCRETE WEIR STRUCTURE. PROTECT CULVERT FROM DAMAGE.
 4. EXISTING 9'-10" DIA X 12" THICK CONCRETE PADS TO BE DEMOLISHED.
 5. SEE SHEET 01C-117 FOR RESERVOIR DREDGE.

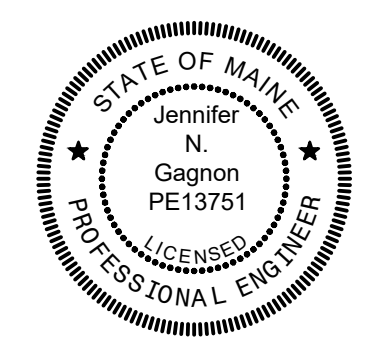


0 50' 100' **1** EXISTING SITE DEMOLITION PLAN 1
01C-101 SCALE: 1" = 50'-0"



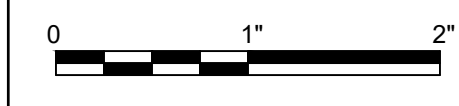
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
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ELECTRICAL	A. KANER
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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

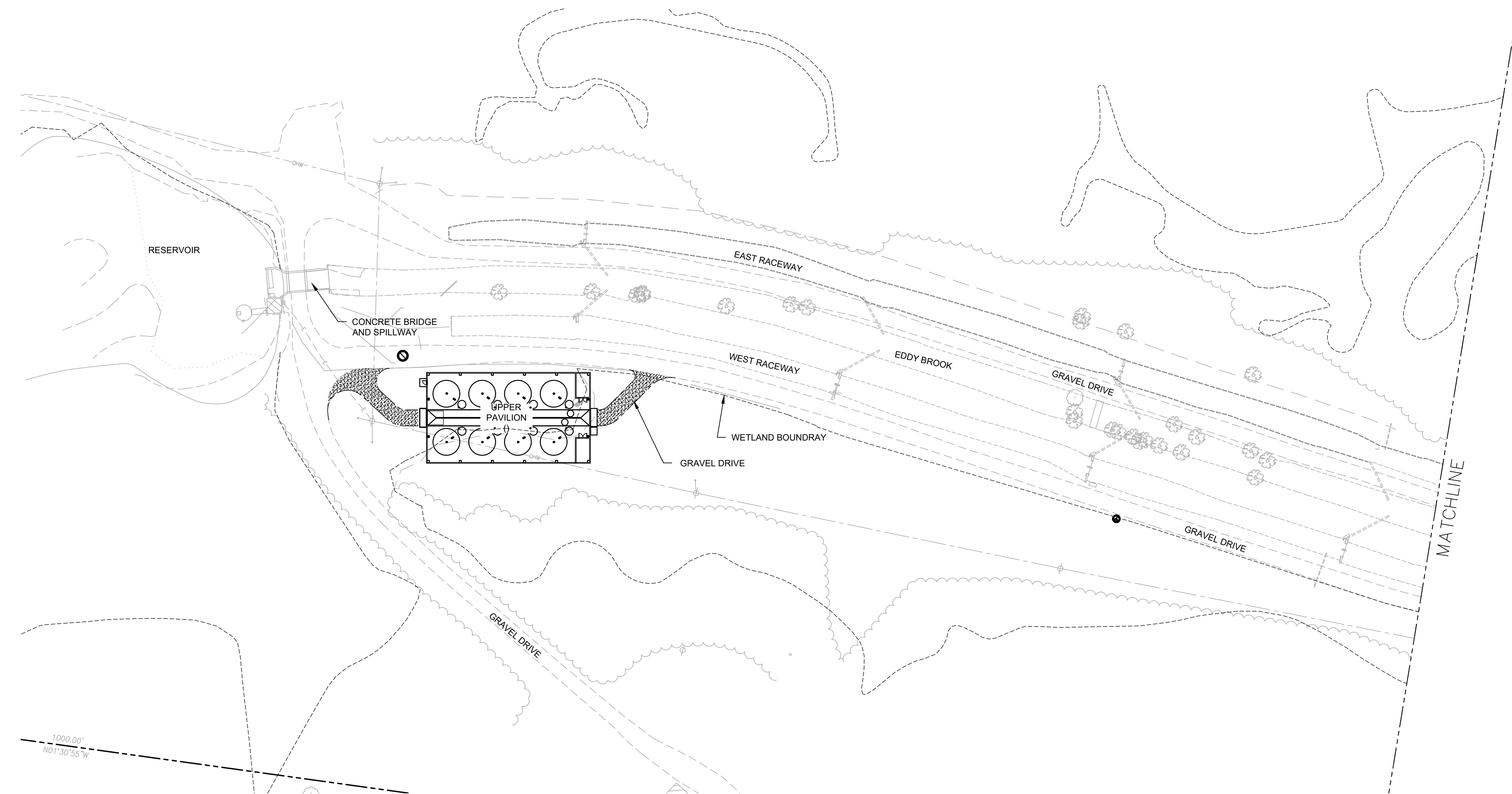
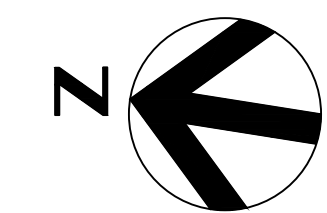
EXISTING SITE DEMOLITION PLAN 1



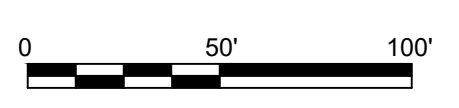
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SHEET
01C-101

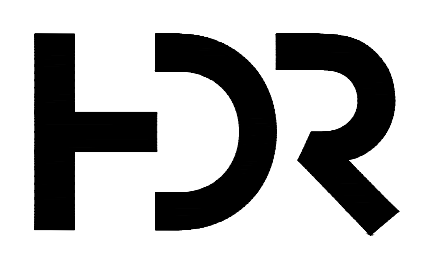
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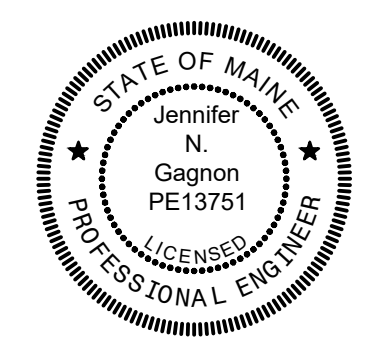


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01C-101 GENERAL CIVIL SITE PLAN 1
SCALE: 1" = 50'-0"



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**NEW GLOUCESTER STATE FISH
HATCHERY
Phase III Facility
Conversion**

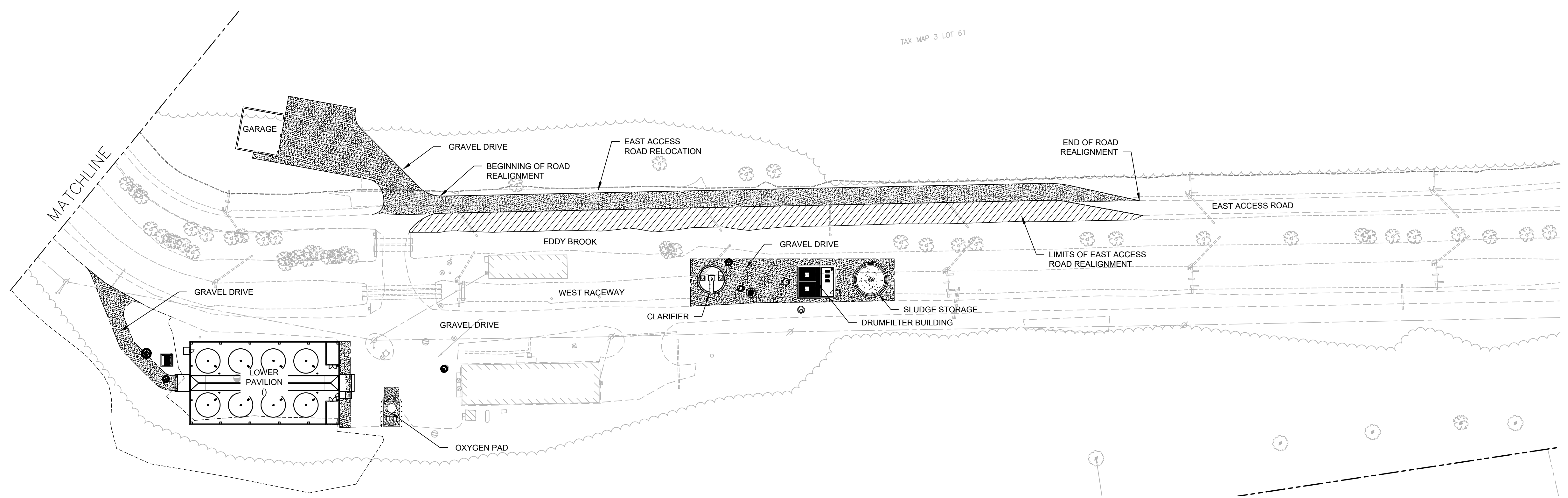
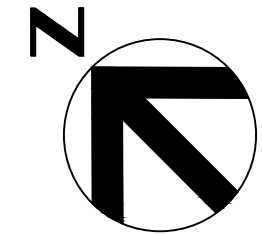
GENERAL CIVIL SITE PLAN 1



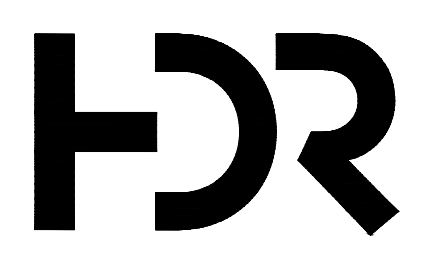
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SHEET
01C-111

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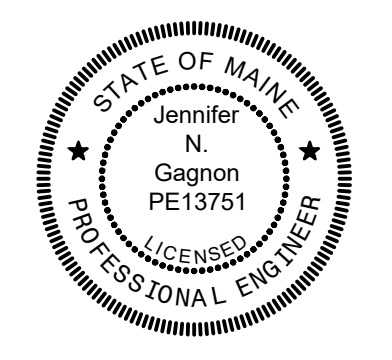


0 50' 100' **1** GENERAL CIVIL SITE PLAN 2
01C-101 SCALE: 1" = 50'-0"



ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



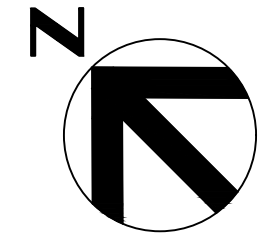
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GENERAL CIVIL SITE PLAN2

0 1" 2" SCALE: 1" = 50'-0"

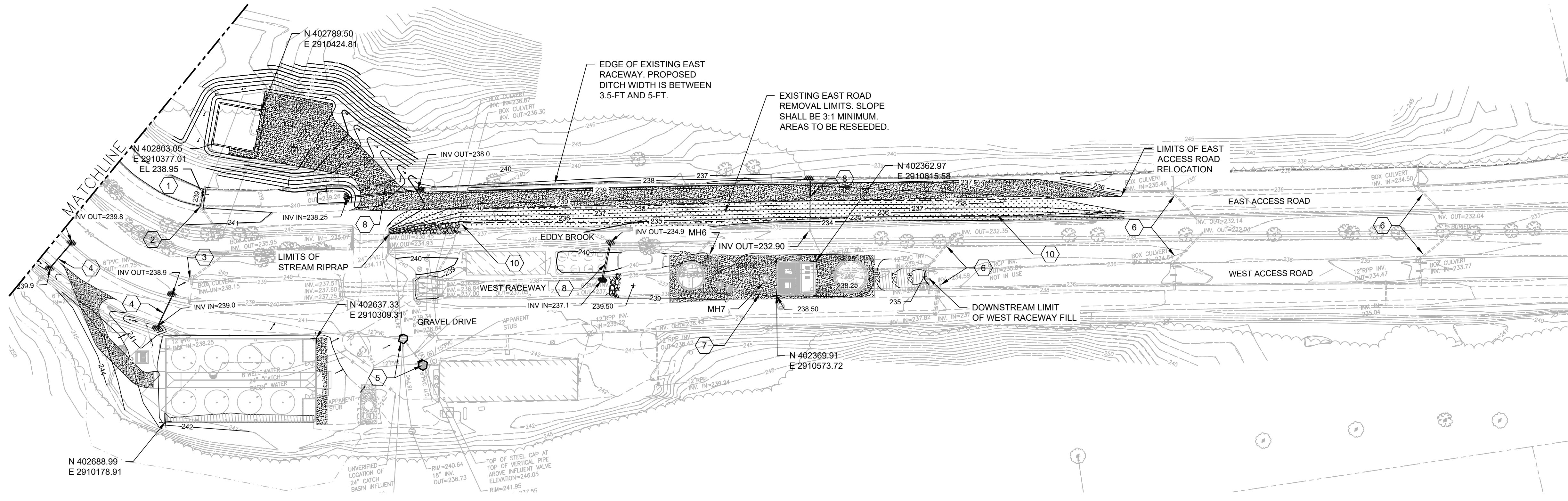
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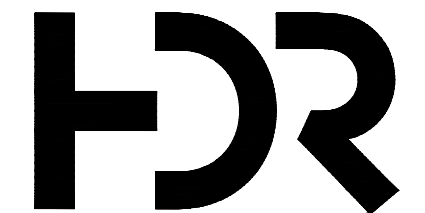
KEYED NOTES: #

1. EAST RACEWAY TO BE FILLED WITH NATIVE MATERIAL DREGED FROM RESERVOIR TO CREATE SLOPING DRAINAGE SWALE
2. MAINTAIN EXISTING CULVERT INLET.
3. EXISTING CULVERT TO REMAIN FOR STORMWATER CONVEYANCE.
4. INSTALL NEW 6" PVC RIPRAP INLET AND OUTLET.
5. EXISTING DRAINAGE INLET TO REMAIN. TEMPORARY COMPOST SOCK RING FOR EROSION CONTROL.
6. EXISTING CULVERTS TO REMAIN FOR STORMWATER CONVEYANCE DOWNSTREAM OF FILLED RACEWAY SECTION
7. WEST RACEWAY SECTION TO BE FILLED WITH STRUCTURAL FILL MATERIAL
8. 12" PVC CULVERT WITH RIPRAP EACH END.
9. REMOVE CONCRETE, EXTEND EXISTING PIPE TO LOCATION INDICATED AND ADD RIPRAP.
10. ALL WORK WITHIN EDDY BROOK SHOULD BE COMPLETED WHILE RESERVOIR DREDGE IS BEING PERFORMED SO WORK WITHIN EDDY BROOK WILL BE PERFORMED IN THE DRY CONDITION.



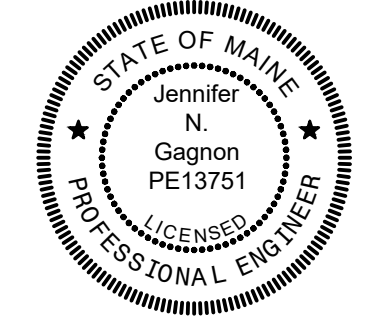
0 50' 100' **GENERAL CIVIL SITE PLAN 2**
 1
 01C-101 SCALE: 1" = 50'-0"

REFERENCE COORDINATE SYSTEM
 PROJECTION - MAINE STATE PLANE
 DATUM - NAD83
 ZONE - EAST
 UNITS - U.S. SURVEY FEET
 VERTICAL DATUM IS REFERENCED TO NAVD 88.



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05/03/2024	ISSUED FOR BID	

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

GRADING PLAN 2



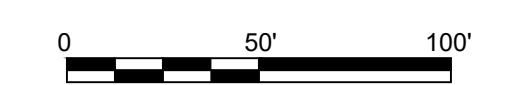
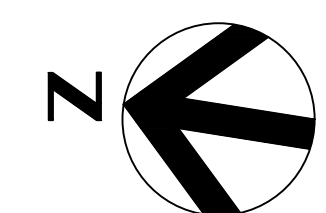
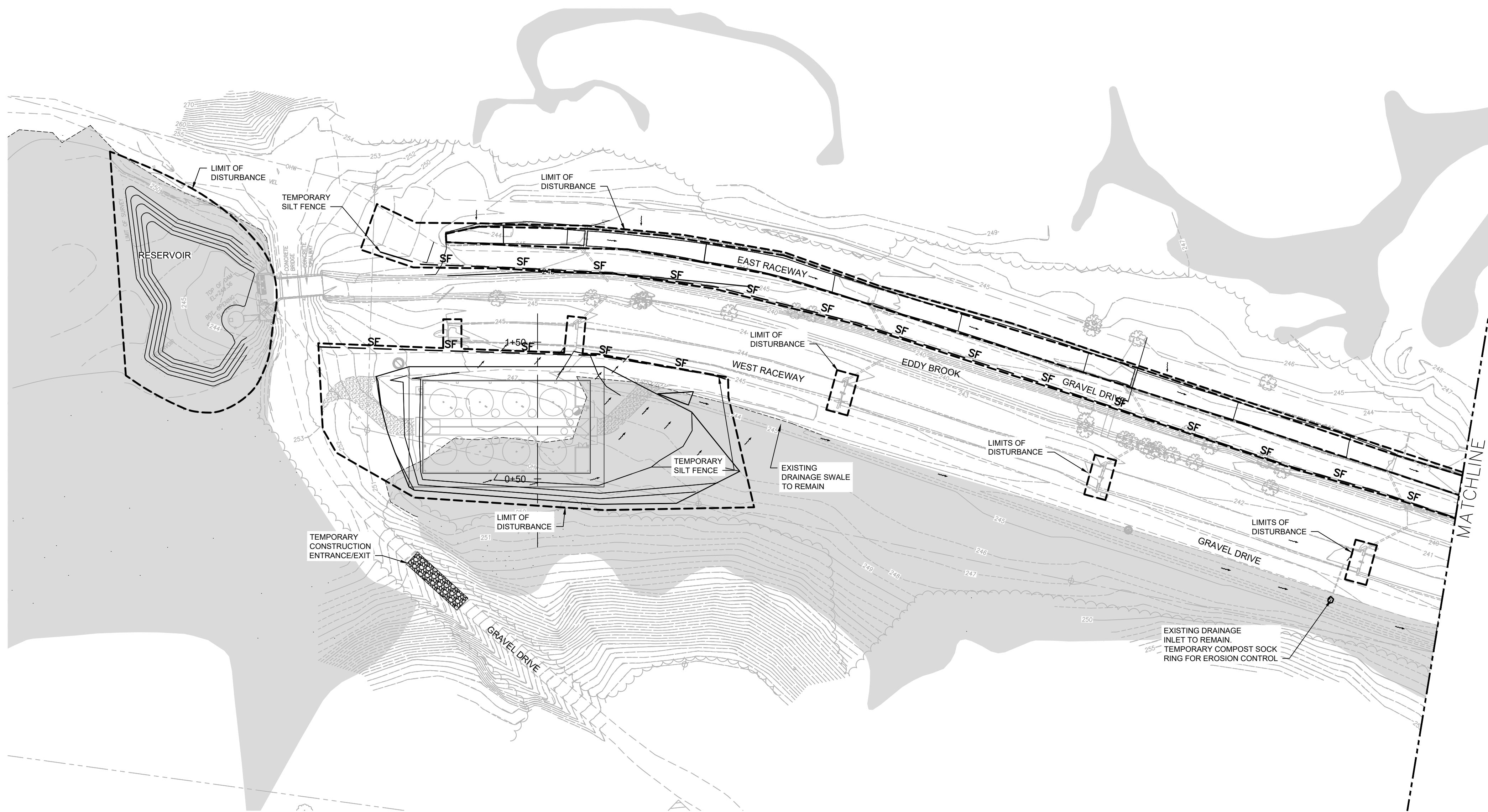
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SHEET
01C-114

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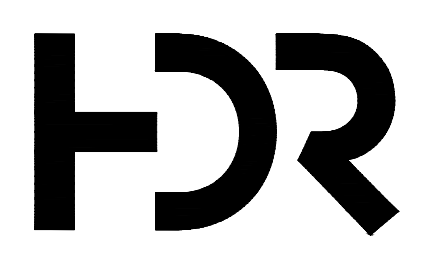
EROSION AND EDIMENTATION CONTROL NOTES:

1. FOR GENERAL NOTES, SEE 00G-004.
2. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED E&S PLAN MUST BE AVAILABLE AT THE PROPOSED PROJECT SITE AT ALL TIMES. THE MDEP SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE MDEP MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
3. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES INCLUDING CLEARING AND GRUBBING, CONTRACTOR TO CLEARLY DELINEATE THE LIMITS OF DISTURBANCE (LOD) AS SHOWN ON THE PLANS. INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE.
4. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE E&S PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
 - b. **CONSTRUCTION MATERIALS INSPECTION:** CONSTRUCTION MATERIAL SUCH AS SEED MIXES, MULCH, TOPSOIL, FILL, SAND, GRAVEL, CRUSHED STONE, AND ROCK BROUGHT TO THE SITE FROM AN OUTSIDE SOURCE WILL BE FREE OF INVASIVE PLANT MATERIALS. IN ADDITION, DURING ALL ASPECTS OF CONSTRUCTION, SOIL AND/OR SPOIL MATERIALS WILL ONLY BE TEMPORARILY STOCKPILED (I.E., WILL BE SPREAD AND GRADED TO MATCH ORIGINAL CONTOURS AT THE EARLIEST PRACTICABLE TIME FOLLOWING CONSTRUCTION ACTIVITIES), PROPER METHODS FOR SEGREGATING STOCKPILED AND SPOIL MATERIAL WILL BE IMPLEMENTED, AND EXCAVATED SOIL WILL BE REUSED TO THE MAXIMUM EXTENT POSSIBLE ON THE SITE THAT IT WAS EXCAVATED FROM, AS A MEANS TO LIMIT OPPORTUNITIES FOR PROLIFERATION OF NON-NATIVE FLORA AND OTHER INVASIVE SPECIES. APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES, SUCH AS SITE STABILIZATION VIA MULCHING AND RESEEDING AREAS OF EXPOSED SOIL AS SOON AS PRACTICABLE, WILL BE IMPLEMENTED.
 - c. **CONSTRUCTION EQUIPMENT SANITATION:** THE INTRODUCTION OF NON-NATIVE INVASIVE PLANT SPECIES WILL BE CONTROLLED BY ASSURING THAT ALL CONSTRUCTION EQUIPMENT (E.G., HEAVY MACHINERY, AND CONSTRUCTION MATS) IS CLEAN UPON ARRIVAL ON SITE, AS WELL AS CLEAN PRIOR TO LEAVING THE SITE. IN ORDER TO PREVENT THE SPREAD OF INVASIVE WEEDS THAT COULD BE TRANSPORTED FROM RELATIVELY DISTANT LOCATIONS, EFFECTIVE WASHING OF EQUIPMENT PRIOR TO ARRIVAL AT THE SITE WILL BE DONE WITH COMPRESSED AIR, HIGH-PRESSURE WATER, OR A HIGH-PRESSURE STEAM CLEANER, ON A HARD SURFACE WITH CONTROLLED DRAINAGE. ADDITIONALLY, ANY EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES WILL BE CLEANED PRIOR TO MOVING TO ANOTHER SITE. THE INTENT IS THAT EQUIPMENT SHOULD ARRIVE AT THE SITE CLEAN AND LEAVE THE SITE CLEAN. THE LOCATION OF ANY PROJECT EQUIPMENT CLEANING STATIONS WILL BE IDENTIFIED BY THE CONTRACTOR. IF AN EQUIPMENT CLEANING STATION IS ESTABLISHED ON THE SITE, IT SHALL BE LOCATED SUCH THAT ANY INVASIVE SPECIES SEEDS AND OTHER VIABLE PLANT PARTS CANNOT ESCAPE IN RUNOFF OR THROUGH OTHER MEANS.
 - d. **INVASIVE SPECIES CONTROL AND REMOVAL:** IF INVASIVE SPECIES ARE OBSERVED AT THE SITE FOLLOWING CONSTRUCTION ACTIVITIES, THEN APPROPRIATE TREATMENT, CONTROL, AND REMOVAL METHODS WILL BE DEVELOPED THROUGH CONSULTATION WITH APPROPRIATE STATE AND FEDERAL AGENCIES.
5. AT LEAST THREE DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITY, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL NOTIFY DIGSAFE BEFORE STARTING CONSTRUCTION ACTIVITIES. GLHA REQUIRES THAT DIGSMART SCAN FOR BURIED UTILITIES BEFORE ANY EXCAVATION IS PERFORMED.
6. SITE ACCESS IS THE FIRST LAND DISTURBANCE ACTIVITY TO TAKE PLACE AT THE SITE AND CONTRACTOR SHALL INSTALL B MPS PER THE ESC PLAN: ENTRANCE TO THE SITE (GRAVEL CONSTRUCTION ENTRANCE AT CONSTRUCTION LAYDOWN YARD EXISTING), CONSTRUCTION ROUTES, AND AREAS DESIGNATED FOR EQUIPMENT OR OTHER USE AT THE SITE INCLUDING PARKING AND STOCKPILES. SOIL STOCKPILES SHALL BE PLACED IN THE AREAS SPECIFIED ON THE E&S PLAN SHEETS AND SIZED IN ACCORDANCE WITH MDEP STANDARDS SPECIFIED ON THE DETAIL SHEETS.
7. PERFORM MAINTENANCE AT EXISTING CULVERTS, REMOVING ACCUMULATED SEDIMENT IN EXISTING DITCHES AND DRAINAGE AS INDICATED ON EROSION AND SEDIMENT CONTROL PLANS.
8. FOR ALL EXISTING ACCESS ROADS, MEASURES SHALL BE TAKEN TO MAINTAIN COVER ON EXISTING SURFACES, AND KEEPING PUBLIC ROADS CLEAR FROM DEBRIS.
9. INSTALL PERIMETER B MPS (SILT FENCING) IN ACCORDANCE WITH INSTALLATION METHODS SPECIFIED ON PLAN AND DETAIL SHEETS AFTER THE CONSTRUCTION SITE IS ACCESSED, KEEPING ASSOCIATED CLEARING AND GRUBBING LIMITED TO ONLY THAT AMOUNT REQUIRED FOR INSTALLING PERIMETER B MPS.
10. IMPLEMENT CONSTRUCTION ACTIVITIES ONLY AFTER ALL DOWNSLOPE E&S B MPS HAVE BEEN CONSTRUCTED AND STABILIZED. NO ADDITIONAL CLEARING AND GRADING OF UPLAND AREAS ARE PLANNED.
11. INSTALL SILT FENCE WITHIN THE LOD PRIOR TO FILL.
12. AFTER CONSTRUCTION IS COMPLETED, REGRADE THE EXISTING GRAVEL SURFACES, IF NEEDED.
13. REMOVAL OF TEMPORARY SILT FENCING CAN OCCUR FOLLOWING SITE CLEANUP OF THE GRAVEL AND PAVED AREAS. STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE B MPS, USING GRAVEL OR CRUSHED STONE.
14. ANY WASTE OR EXCESS MATERIALS NOT SUITABLE FOR ON-SITE USAGE SHALL BE DISPOSED OF AT A MDEP APPROVED WASTE SITE. MATERIALS WILL BE REUSED OR RECYCLED IF POSSIBLE. ANY OFF-SITE STOCKPILE/SPOIL AREAS SHALL BE A MDEP-APPROVED SITE WITH AN APPROVED E&S.
15. PREVENTION OF INVASIVES
 - a. NO CULTIVARS, INVASIVE OR OTHER UNACCEPTABLE PLANT SPECIES MAY BE USED FOR ANY MITIGATION, BIOENGINEERING, VEGETATIVE BANK STABILIZATION OR ANY OTHER WORK AUTHORIZED BY THIS GP. HOWEVER, NON-NATIVE SPECIES AND CULTIVARS MAY BE USED WHEN IT IS APPROPRIATE AND SPECIFIED IN A WRITTEN VERIFICATION, SUCH AS USING SECALE CEREALE (ANNUAL RYE) TO QUICKLY STABILIZE A SITE. ALL PCNS SHOULD EXPLAIN THE REASON FOR USING NON-NATIVE SPECIES OR CULTIVARS.
16. **RESTORATION:** AREAS WHERE SOIL IS TEMPORARILY DISTURBED DURING CONSTRUCTION WILL BE GRADED, STABILIZED, AND RESTORED IN ACCORDANCE WITH THE SITE-SPECIFIC EROSION AND SEDIMENTATION CONTROL PLAN. FOLLOWING CONSTRUCTION ACTIVITIES, TEMPORARILY DISTURBED AREAS WILL BE STABILIZED USING APPROPRIATE EROSION AND SEDIMENT CONTROL METHODS.
17. THERE IS A DRAINAGE EASEMENT AGREEMENT WITH ABUTTERS FOR STORMWATER FLOW, ACCESS, AND MAINTENANCE.



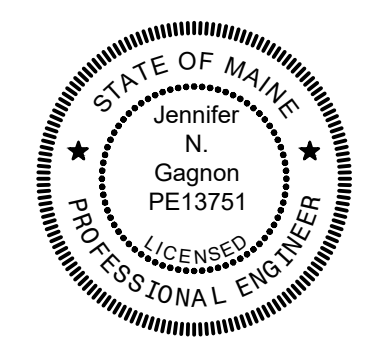
EROSION CONTROL PLAN 1
 01C-101 SCALE: 1" = 50'-0"

REFERENCE COORDINATE SYSTEM
 PROJECTION - MAINE STATE PLANE
 DATUM - NAD83
 ZONE - EAST
 UNITS - U.S. SURVEY FEET
 VERTICAL DATUM IS REFERENCED TO NAVD 88.



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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



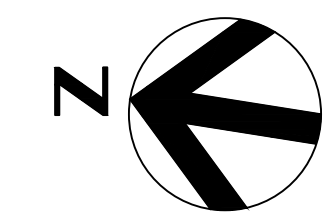
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Phase III Facility Conversion



EROSION CONTROL PLAN 1
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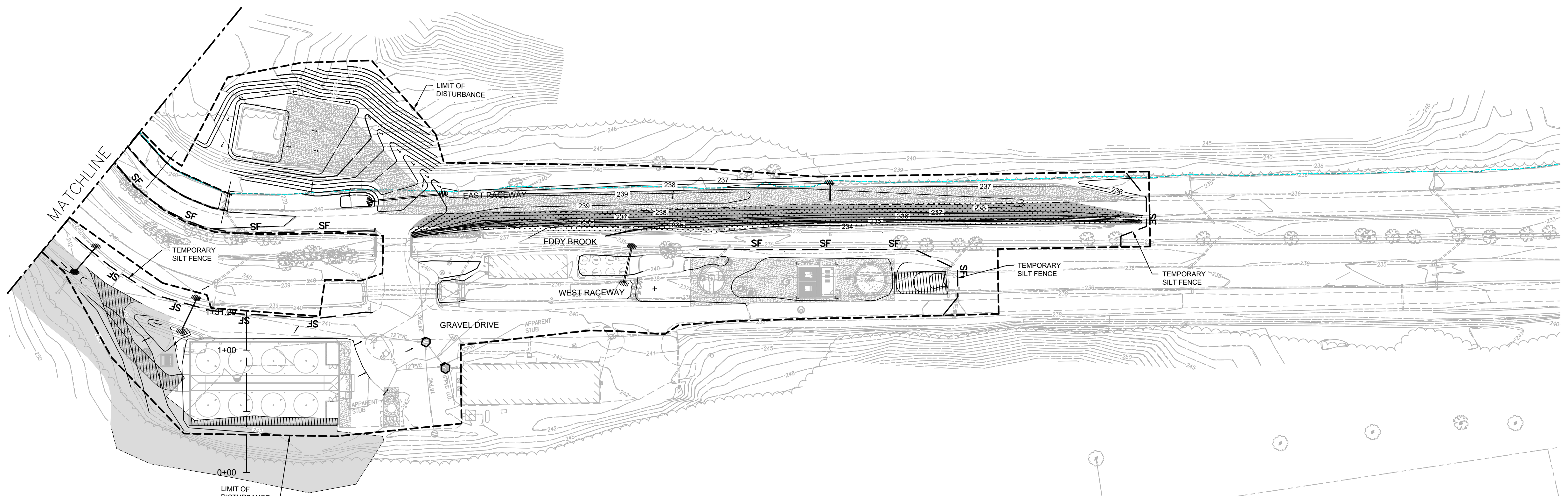
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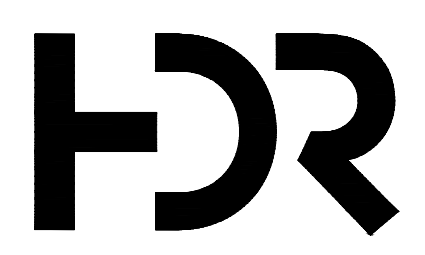
EROSION AND SEDIMENTATION CONTROL NOTES:

- FOR NOTES, SEE 01C-115.



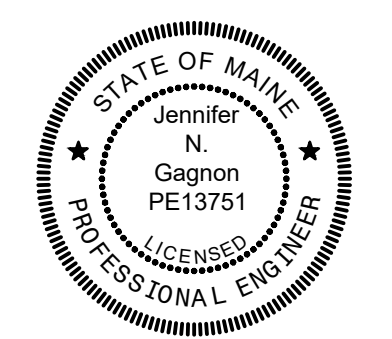
0 50' 100' **EROSION CONTROL PLAN 2**
 01C-101 SCALE: 1" = 50'-0"

REFERENCE COORDINATE SYSTEM
 PROJECTION - MAINE STATE PLANE
 DATUM - NAD83
 ZONE - EAST
 UNITS - U.S. SURVEY FEET
 VERTICAL DATUM IS REFERENCED TO NAVD 88.



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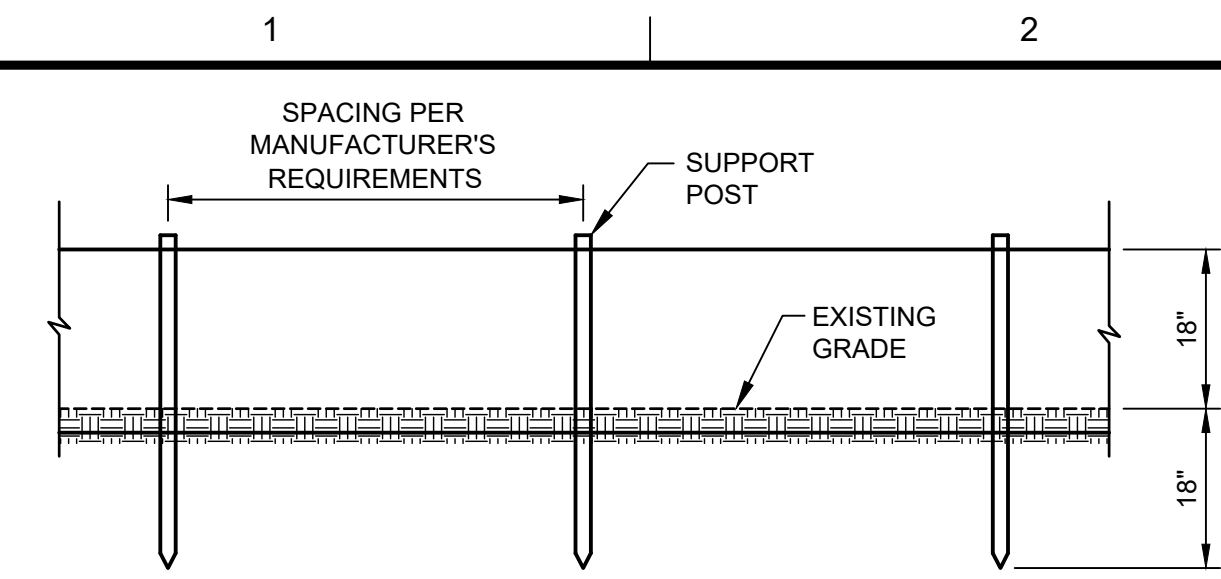
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EROSION CONTROL PLAN 2

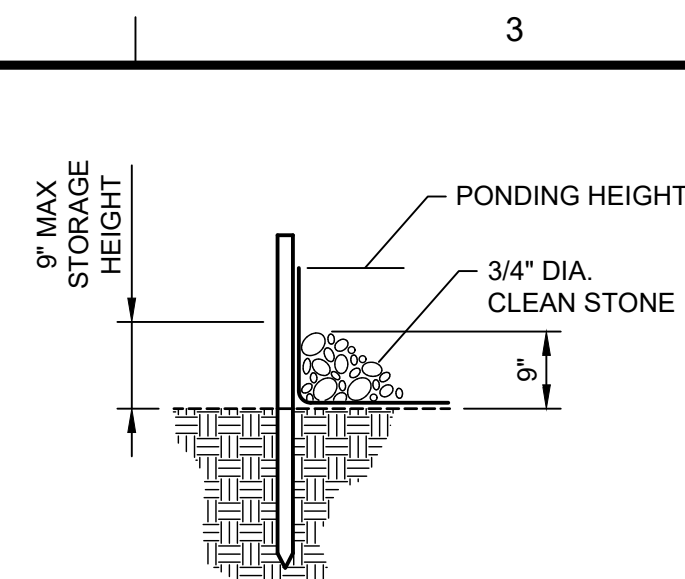
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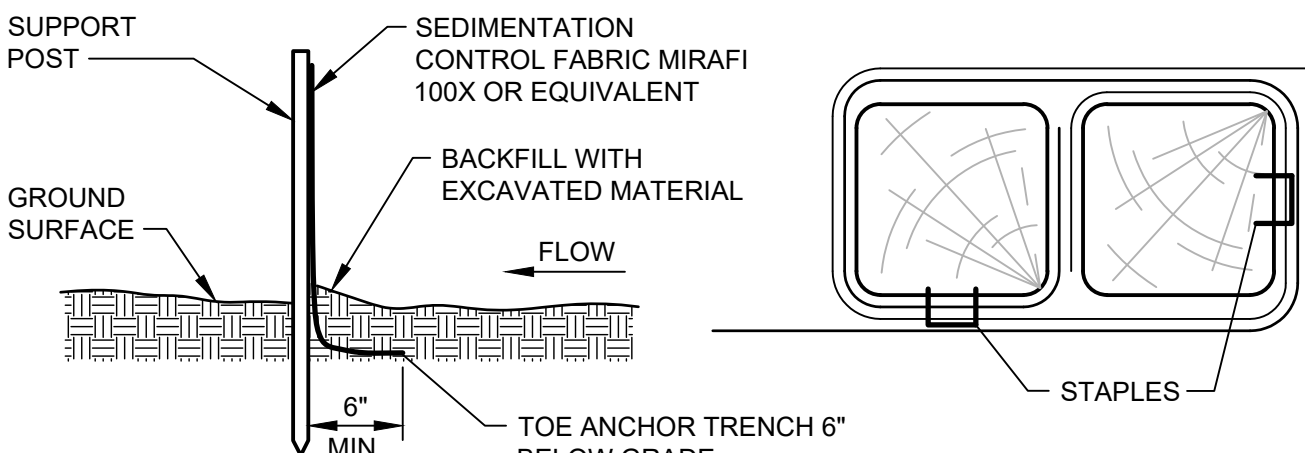
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PLAN VIEW



WITHOUT TRENCHING



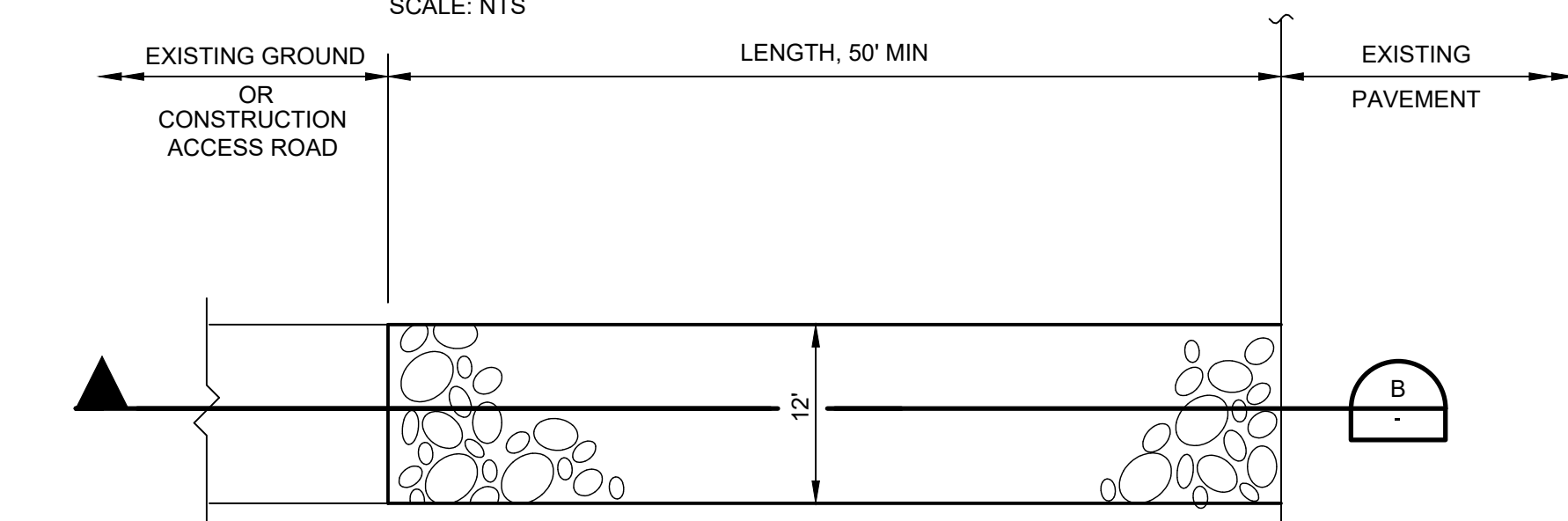
SECTION VIEW

JOINING FENCE SECTIONS

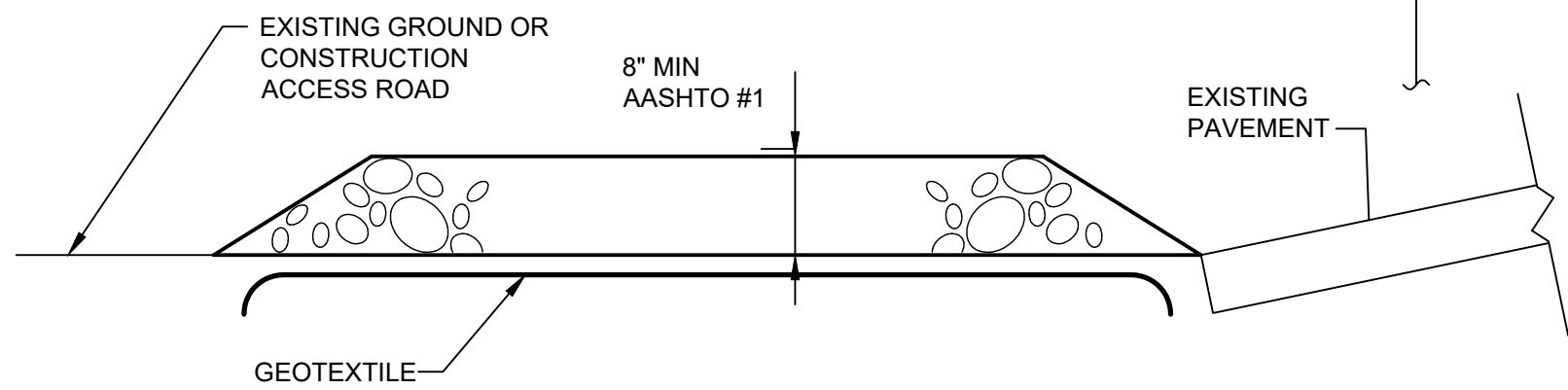
- NOTES:
- FABRIC SHALL MEET/EXCEED PROPERTIES IN MDEP BMP.
 - STAKES SHALL BE HARDWOOD OR STEEL EQUIVALENT.
 - SILT FENCE SHALL BE PLACED ON LEVEL EXISTING GRADE WITH BOTH ENDS OF THE FENCE RUN UPSLOPE 8 FEET AT 45 DEGREES TO PREVENT FLOW RUN-AROUND.
 - REMOVE SEDIMENT WHEN ACCUMULATIONS ARE HALF THE ABOVE-GROUND HEIGHT OF THE FENCE.

SILT FENCE DETAIL

SCALE: NTS



PLAN VIEW

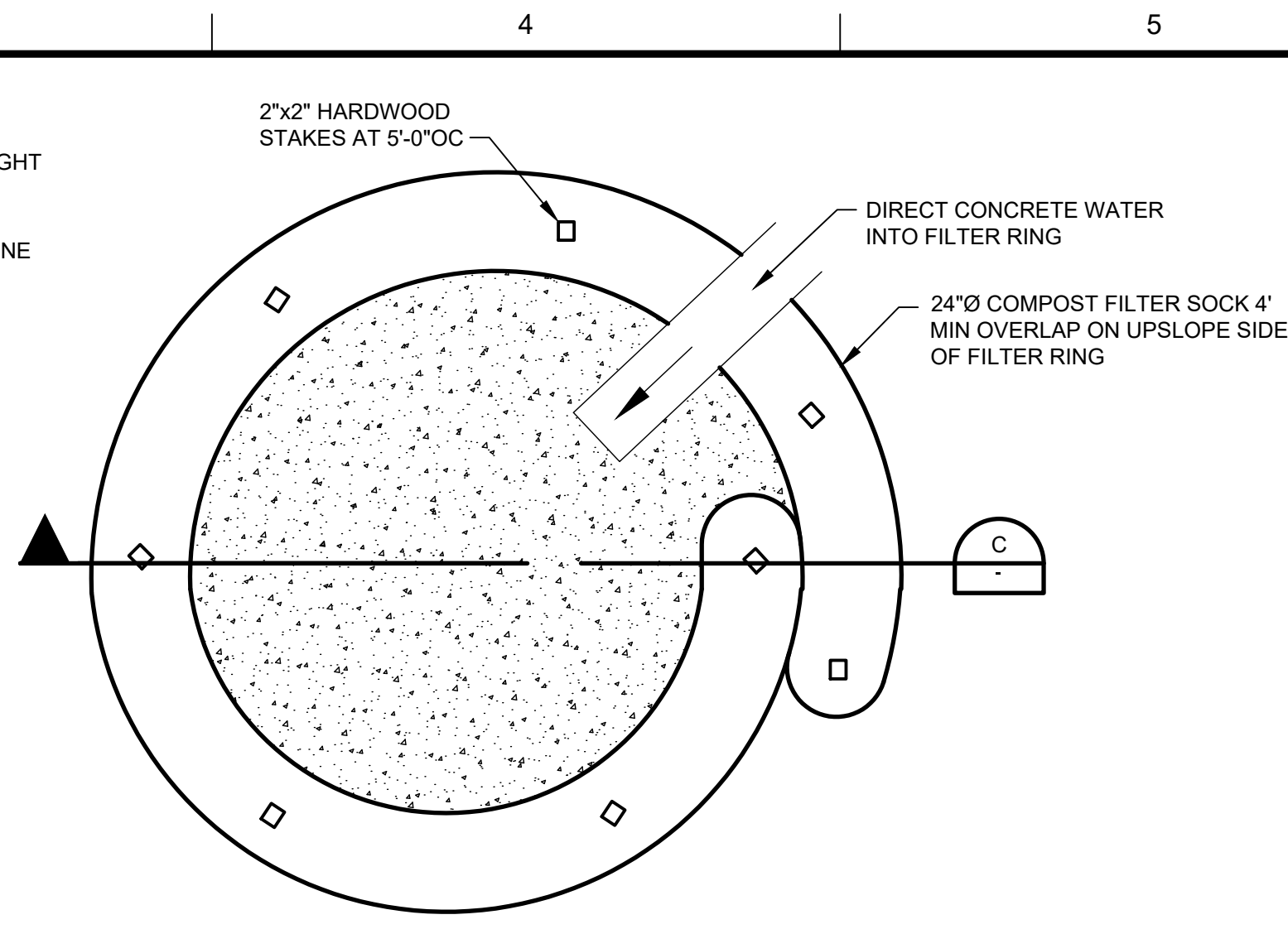


SECTION

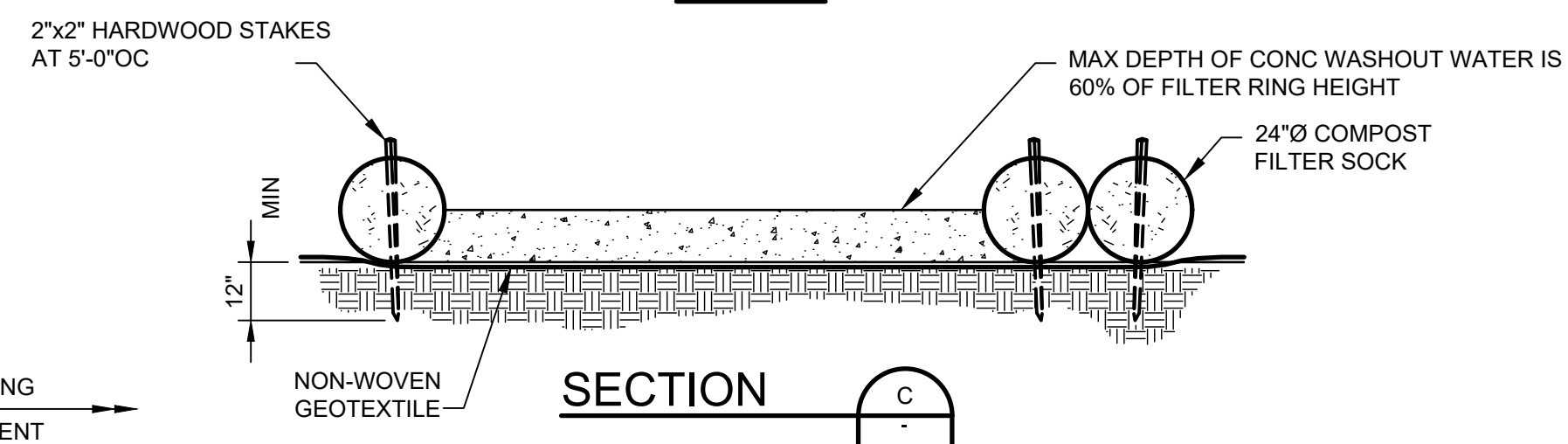
- NOTES:
- AGGREGATE: AGGREGATE SUBBASE
 - AGGREGATE THICKNESS: NOT LESS THAN 6 INCHES OF AASHTO #1.
 - WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - LENGTH: AS REQUIRED, BUT NOT LESS THAN 50 FEET. GEOTEXTILE: MIRAFI 600X, OR EQUIVALENT TO BE PLACED OVER THE ENTIRE AREA TO BE COVERED WITH AGGREGATE. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO EXISTING DRIVES OR PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO TMI ACCESS ROAD SHALL BE REMOVED IMMEDIATELY.
 - A STOCKPILE OF AASHTO #1 STONE SHALL BE MAINTAINED NEARBY FOR USE.
 - IF EXCESS SEDIMENT IS BEING DEPOSITED ON TMI ACCESS ROAD EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE OR ADD WASH RACK.

ROCK CONSTRUCTION ENTRANCE

SCALE: NTS



PLAN

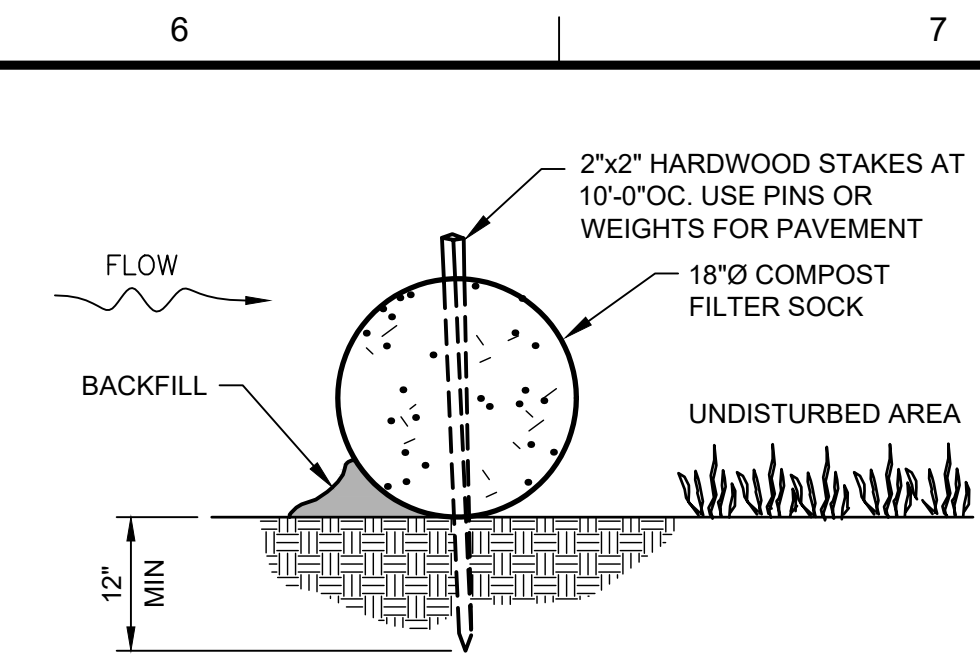


SECTION

TYPICAL COMPOST SOCK CONCRETE WASHOUT RING

SCALE: NTS

- NOTES:
- IF NEEDED, INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
 - NON-WOVEN GEOTEXTILE SHALL MEET THE FOLLOWING EQUIVALENT REQUIREMENTS:
 PHYSICAL PROPERTY (TEST METHOD) WITH MINIMUM PERMISSIBLE VALUE
 GRAB TENSILE STRENGTH (ASTM D 4632) - 120 POUNDS
 GRAB TENSILE ELONGATION (ASTM D 4632) - 50%
 TRAPEZOID TEAR STRENGTH (ASTM D 4533) - 50 POUNDS
 CBR PUNCTURE STRENGTH (ASTM D 6241) - 310 POUNDS
 APPARENT OPENING SIZE (ASTM D 4751) - 0.212 MM (US #70 SIEVE)
 UV RESISTANCE (500 HOURS) (ASTM D 4355) - 70% STRENGTH RETENTION
 - 18"Ø FILTER SOCK MAY BE STACKED ONTO DOUBLE 24"Ø SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



COMPOST FILTER SOCK

SCALE: NTS

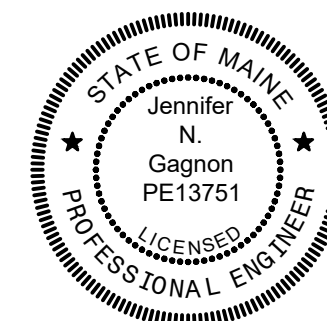
NOTES:

- MATERIAL TO BE MULTI-FILAMENT POLYPROPYLENE.
- COMPOST FILTER SOCK SHALL BE PLACED ALONG THE BOUNDARY OF ANY TEMPORARY STOCKPILES A MINIMUM OF 4 DAYS AFTER CESSATION OF ACTIVITY.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- SOCKS SHALL BE REPLACED AFTER TWELVE MONTHS OF USE.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES AND SOCK SHALL BE REMOVED.



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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



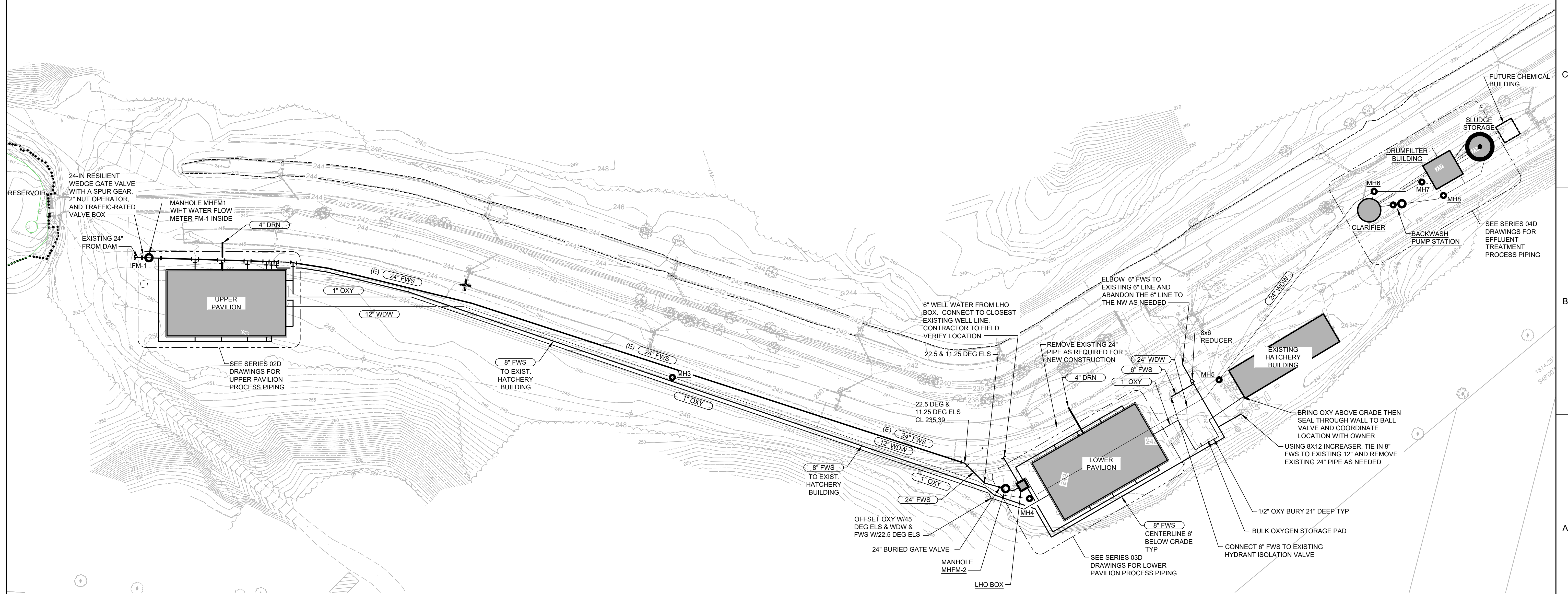
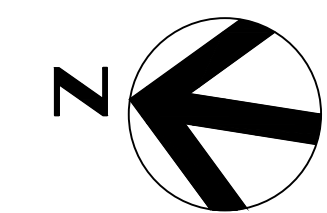
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EROSION CONTROL DETAILS

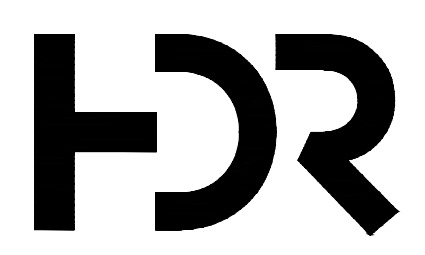


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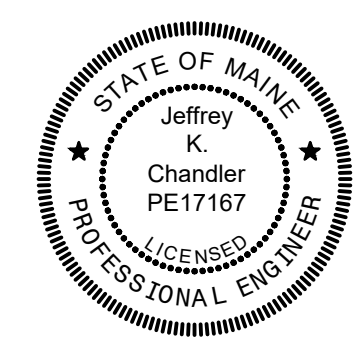


0 50' 100' 1 OVERALL SITE PROCESS PIPING PLAN
 01D-101 SCALE: 1" = 50'-0"



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ELECTRICAL	A. KANER
PROJECT NUMBER	10353741

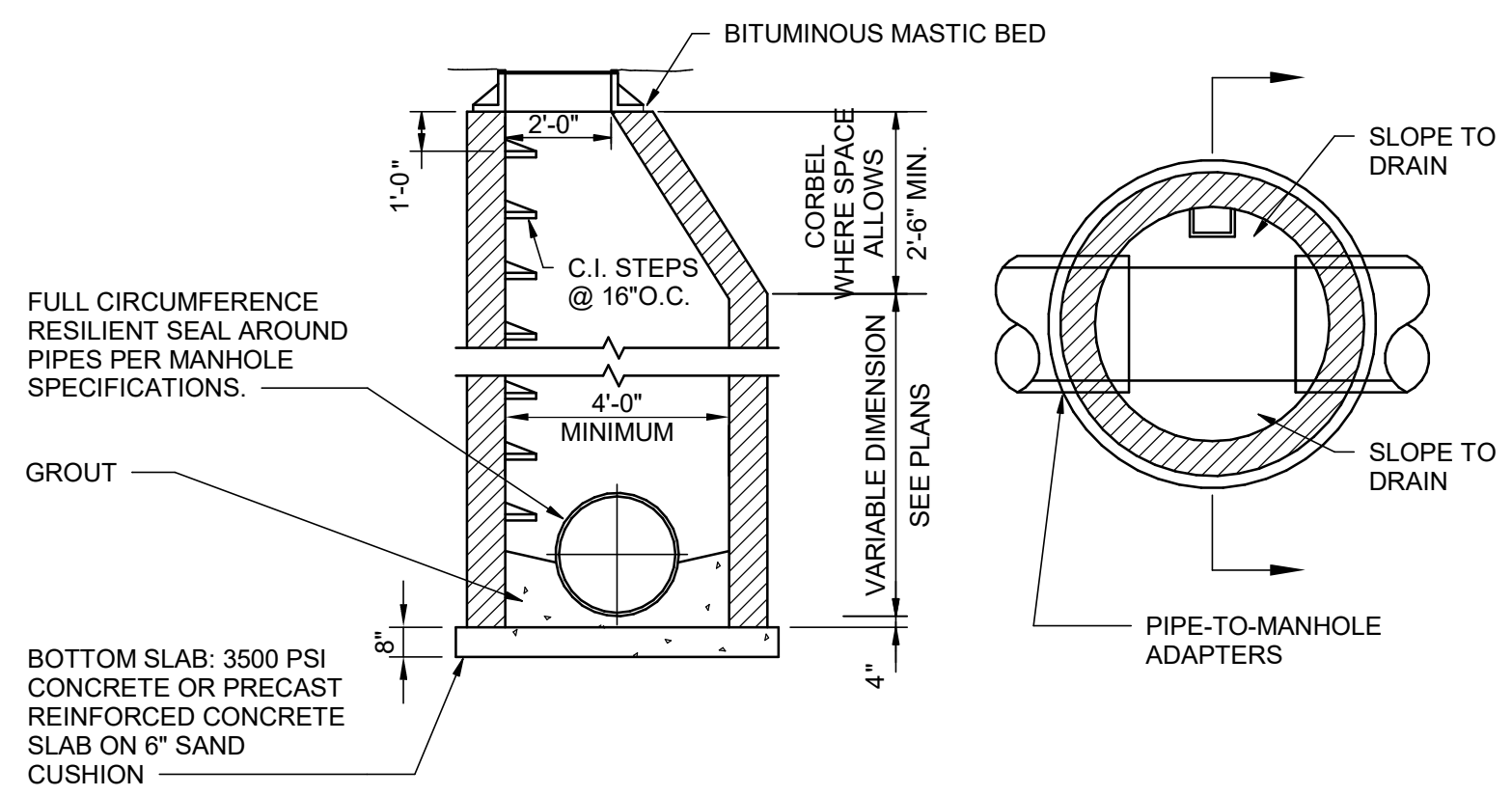


NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

OVERALL SITE PROCESS PIPING PLAN

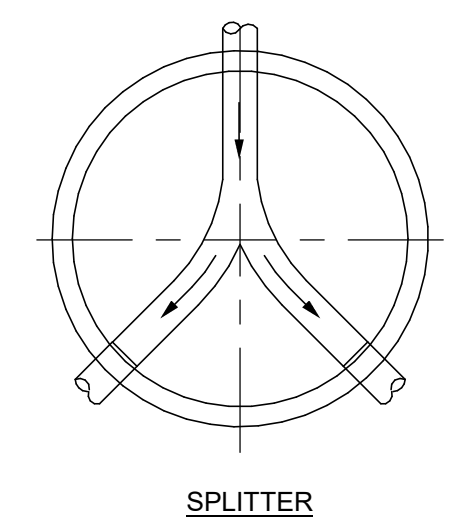
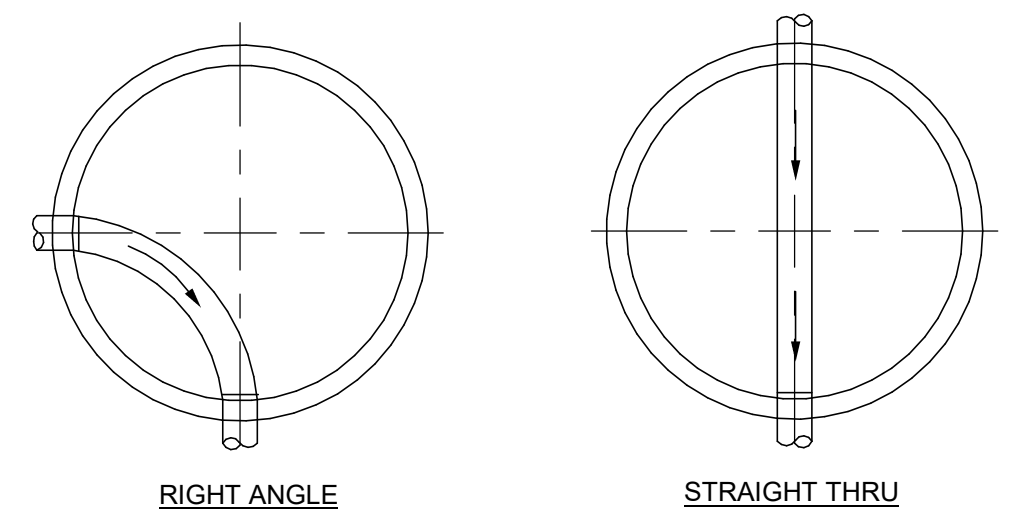
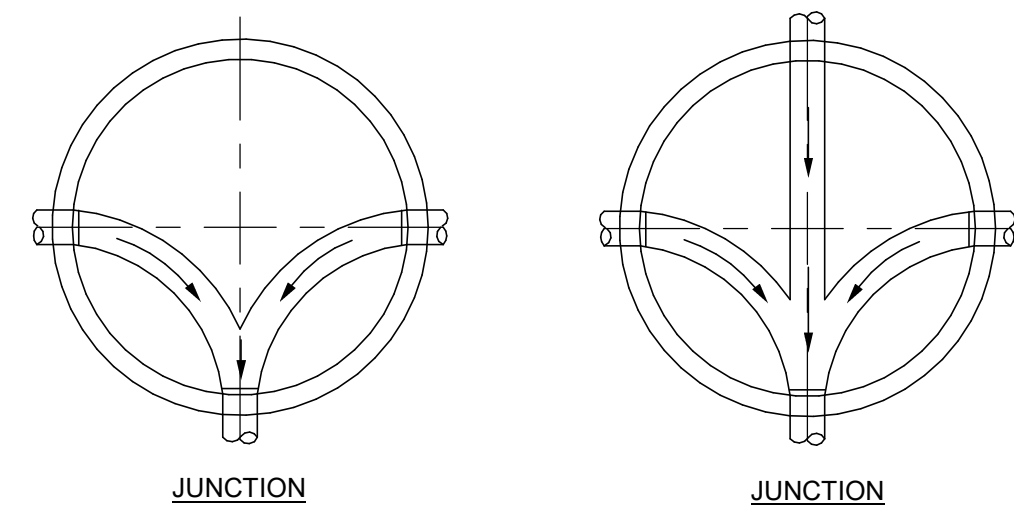
0 1" 2"

FILENAME | 10353741-01D-100.DWG SHEET | **01D-101**
 SCALE | 1" = 50'-0"



MANHOLE NOTES:

1. CORBEL TO BE REPLACED WITH REINFORCED FLAT TOP, WHERE REQUIRED FOR CLEARANCE.
2. STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS.
3. UNLESS NOTED OTHERWISE, PROVIDE GROUT (SO THAT RESULTING TROUGH DIRECTS WATER FROM ALL PIPES) AT LEAST UP TO THE SPRING LINE OF THE DEEPEST PIPE. GROUT TROUGHS IN THE SHAPE OF CURVES, CROSSES, CONVERGING & DIVERGING WYES AND TEES DEPENDING ON THE PIPING PROPOSED. FORM TROUGHS TO THE O.D. OF PIPE-TO-MANHOLE ADAPTERS.

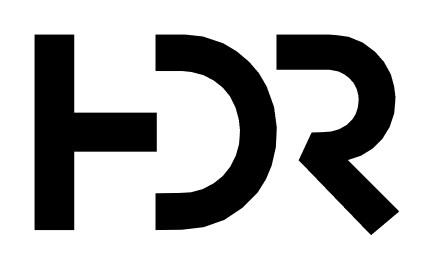


- NOTES:
1. DEPTH OF CHANNELS TO BE 1/2 I.D. OF PIPE.
 2. PROVIDE SMOOTH FLOW ACROSS BOTTOM OF MANHOLE.
 3. FLOW CHANNEL SHALL HAVE TROWELED FINISH.

1 MANHOLE DETAIL
12" = 1'-0"

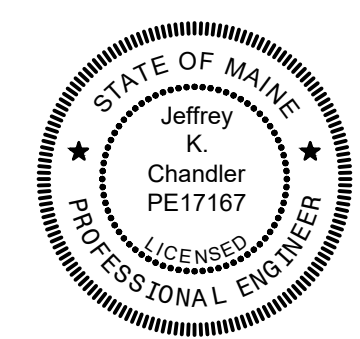
2 MANHOLE BOTTOM
12" = 1'-0"

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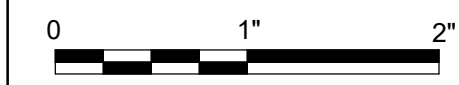
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357541



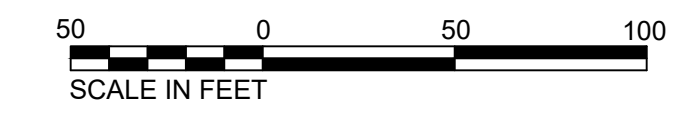
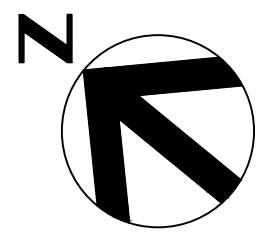
NEW GLOUCESTER STATE FISH HATCHERY
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STANDARD PIPING DETAILS



FILENAME | 10357541-01-U.rvt
SCALE | 12" = 1'-0"

SHEET
01D-501

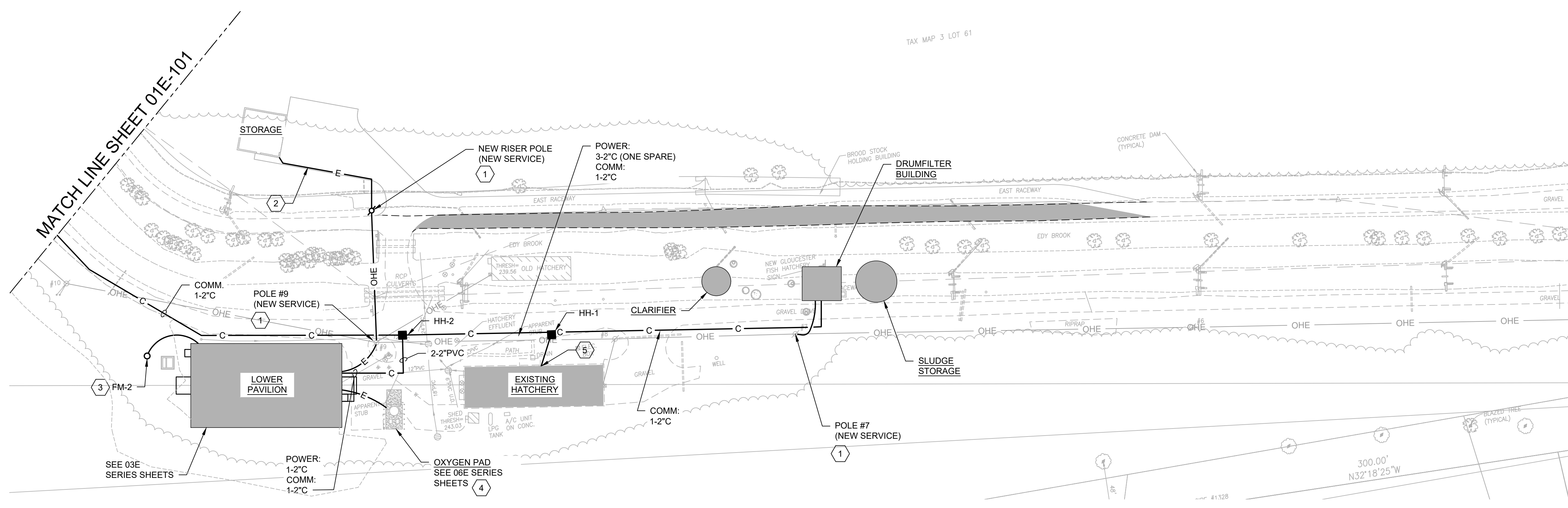


GENERAL NOTES:

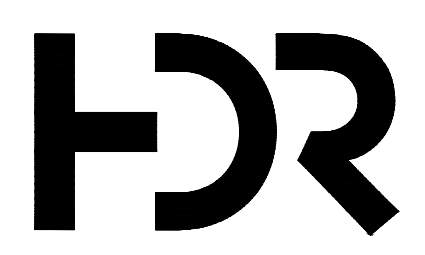
1. REFER TO 00E601 FOR CONDUIT AND WIRE DETAILS.
2. UNDERGROUND CONDUITS SHALL BE ROUTED IN PVC CONDUIT BURIED IN EARTH. REFER TO 00E501 FOR TRENCH SECTION DETAILS.
3. COORDINATE SITE DUCT BANK ROUTINGS WITH SITE UTILITIES (I.E. PIPING) AND PHYSICAL SITE TO AVOID CONFLICT.
4. SPARE CONDUITS SHALL BE EQUIPPED WITH PULL CORD AND CAPPED AT EACH END. LABEL EACH END OF CONDUIT WITH SOURCE.
5. PROVIDE SEPARATE HANDHOLES FOR POWER AND COMM. ONE SHOWN FOR CLARITY.

KEYED NOTES: (#)

1. RISER POLE FOR NEW UTILITY SERVICE BY UTILITY COMPANY.
2. INSTALL SERVICE CABLE/CONDUIT AND METER SOCKET PER UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT ROUTE AND REQUIREMENTS WITH UTILITY COMPANY.
3. INSTALL FLOW METER FM-2 REMOTE DISPLAY IN LOWER PAVILION. PROVIDE 120V, 20A CIRCUIT FROM PANEL LP3. PROVIDE 1/2" C WITH METER SIGNAL WIRE FROM SENSOR TO REMOTE-DISPLAY.
4. PROVIDE TWO 3/4" C FROM LOWER PAVILION PANEL LP3 TO OXYGEN TANK FOR LIGHT AND RECEPTACLE. PROVIDE ONE 1/2" C FOR ALARM CABLES. SEE 06E-101 FOR DETAILS.
5. CONNECT ALARM SIGNAL CABLES TO EXISTING SECURITY PANEL IN HATCHERY BUILDING. FIELD-VERIFY LOCATION, AND COORDINATE REQUIREMENTS WITH OWNER AND SECURITY COMPANY PRIOR TO INSTALLATION. REFER TO 00E-502 FOR ADDITIONAL DETAILS.

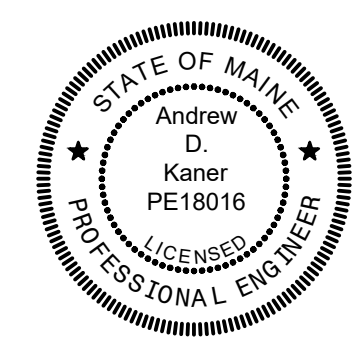


1
01E-102 **PARTIAL ELECTRICAL SITE PLAN**
SCALE: 1" = 50'-0"



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Phase III Facility Conversion

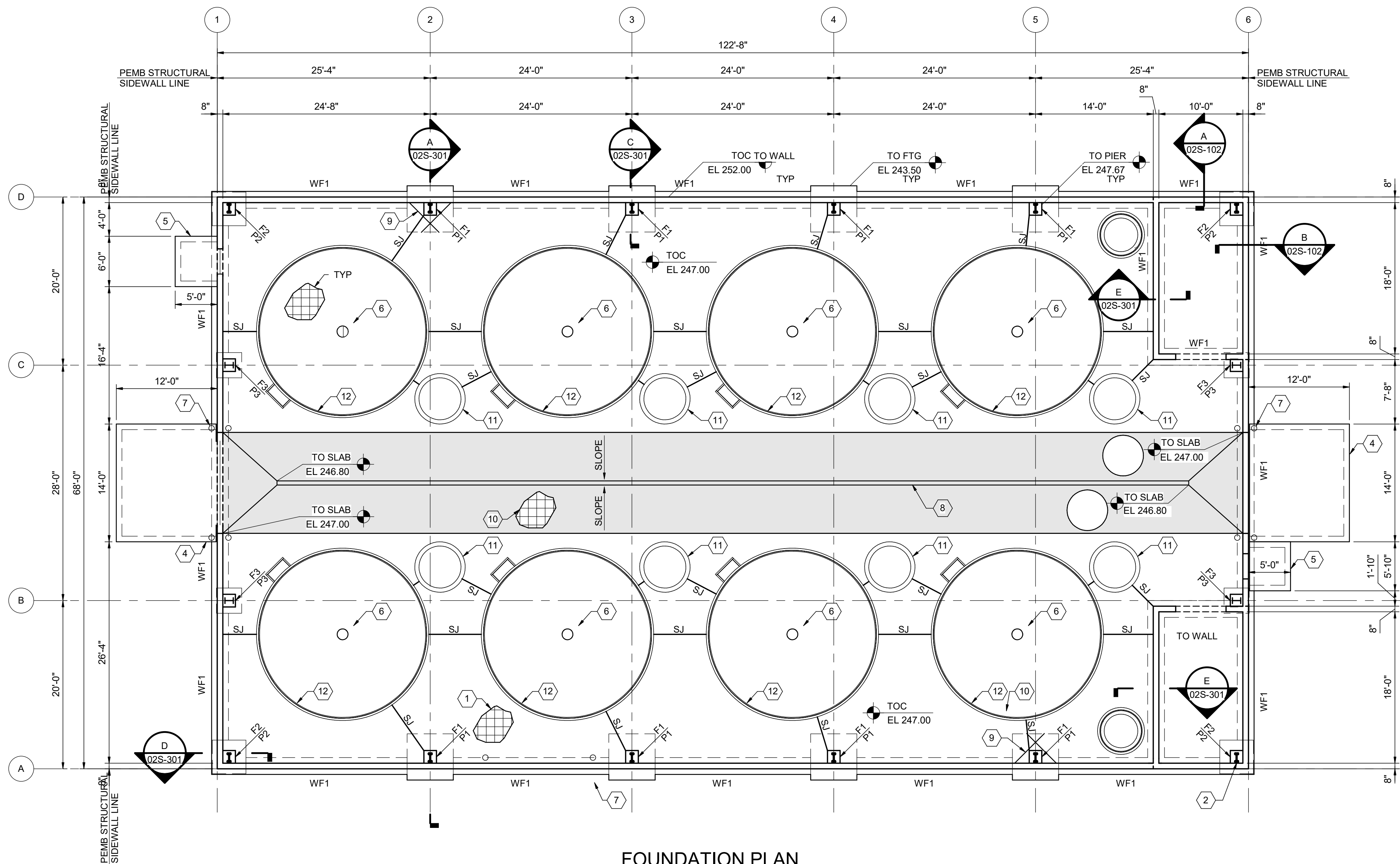
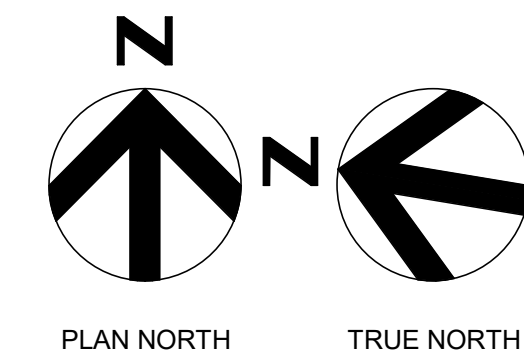
PARTIAL ELECTRICAL SITE PLAN 2



FILENAME | 10353741-01C-110.DWG
SCALE | 1" = 50'-0"

SHEET
01E-102

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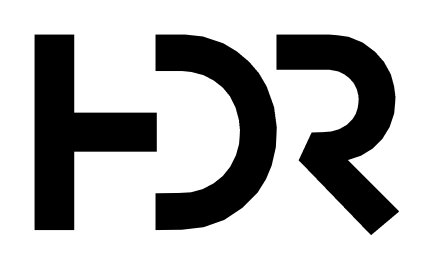
- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
 - SEE SHEETS 00S-101 THROUGH 00S-104 FOR TYPICAL STRUCTURAL DETAILS.
 - COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. (PEMB)
 - REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.
- KEYNOTES: #**
- 4" CONCRETE SLAB WITH #4@12" OC, EW MID-DEPTH IN SLAB OVER COMPACTED CLEAN FREE-DRAINING GRANULAR FILL.
 - COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER (MBM).
 - PRECAST WATER CONTROL STRUCTURE, SEE PLUMBING DRAWINGS.
 - CONCRETE APPROACH SLAB AT OVERHEAD DOOR. SEE DETAIL 3/00S-102.
 - CONCRETE STOOP, SEE DETAIL 5/00S-102. STOOP GRADE BEAM SHALL BE TIED INTO PERIMETER GRADE BEAM.
 - SEE SHEET 02S-103 FOR TANK SLAB.
 - 8" DIAMETER SCHEDULE 40 STEEL PIPE BOLLARD FILLED WITH CONCRETE (PAINT YELLOW). TYPICAL OF 8. SEE DETAIL 5/02S-302.
 - PREMOLDED TRENCH DRAIN, SEE PLUMBING DRAWINGS.
 - (2) #4x5'-0" LONG CAST IN SLAB AT ALL RE-ENTRANT CORNERS. PLACE BARS 2" FROM CORNER. BEND BARS AS NECESSARY FOR PROPER PLACEMENT.
 - 8" CONCRETE SLAB WITH #4@12" OC EACH WAY OVER COMPACTED FILL. (DRIVE AILES SHOWN SHADED).
 - PRECAST CONCRETE MANHOLE. SEE PROCESS SHEETS.
 - 20'-0" DIA. STEEL TANK. SEE PROJECT SPECIFICATIONS.

FOUNDATION PLAN
1/8" = 1'-0"

FOOTING SCHEDULE - TANK PAVILION					
TYPE	SIZE	REINFORCEMENT	T.O. FOOTING ELEVATION	T.O. PIER ELEVATION	REMARKS
F1	5'-6"x5'-6"x1'-2"	(7)#6 EACH WAY BOTTOM	243.50'	247.67'	SEE DETAIL 1/02S-302
F2	4'-0"x4'-0"x1'-2"	(5)#6 EACH WAY BOTTOM	243.50'	247.67'	SEE DETAIL 1/02S-302
F3	3'-0"x3'-0"x1'-2"	(4)#6 EACH WAY TOP & BOTTOM	243.50'	247.67'	SEE DETAIL 1/02S-302
WF1	2'-0"x1'-0"x CONT.	(3)#5 CONTINUOUS	243.50'	NA	SEE DETAIL 1/02S-302

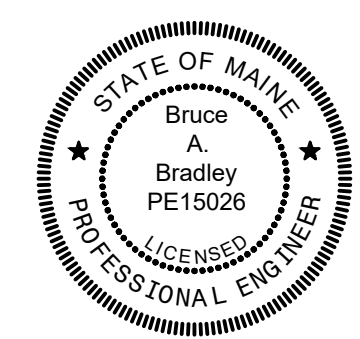
FOOTING SCHEDULE
1/4" = 1'-0"

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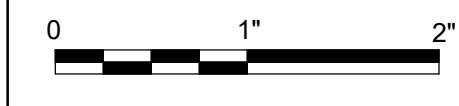


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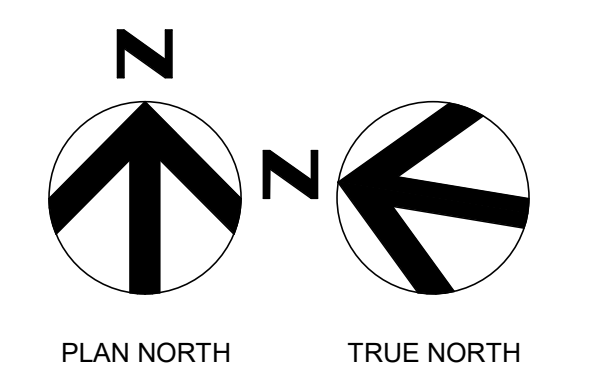
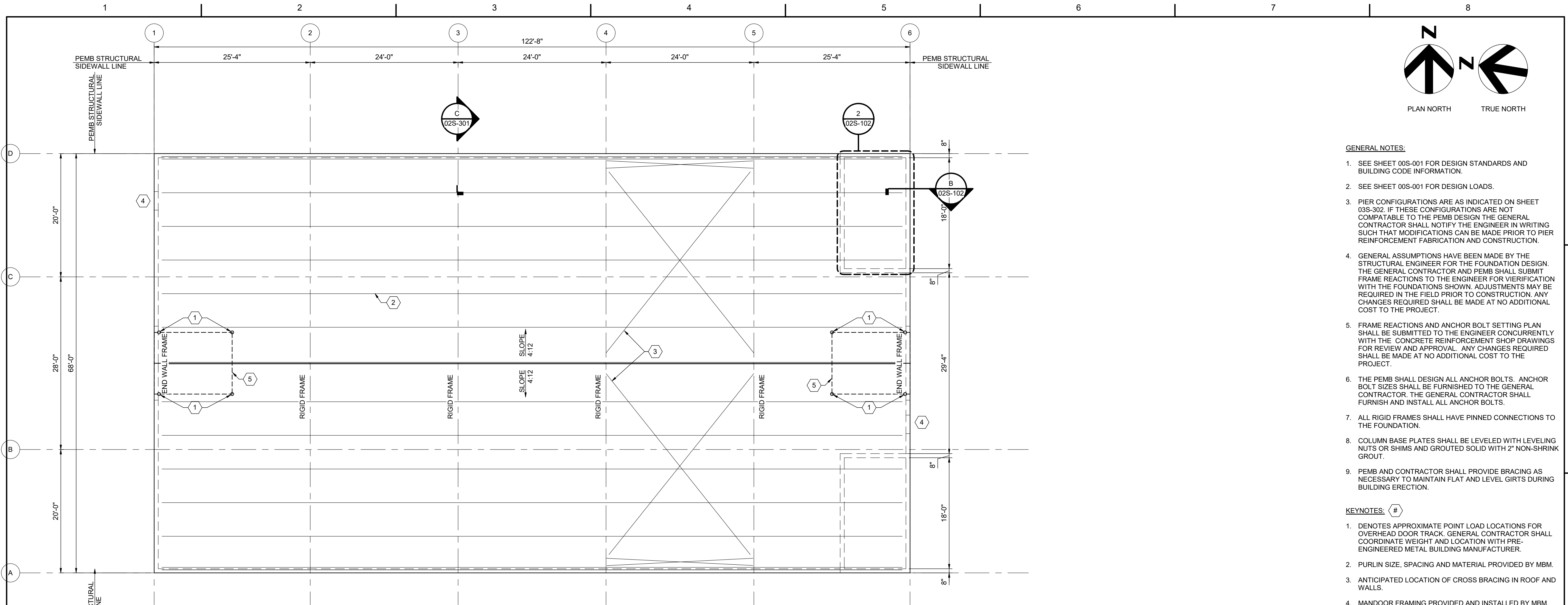
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Phase III Facility Conversion



UPPER PAVILION FOUNDATION PLAN

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SCALE | As indicated

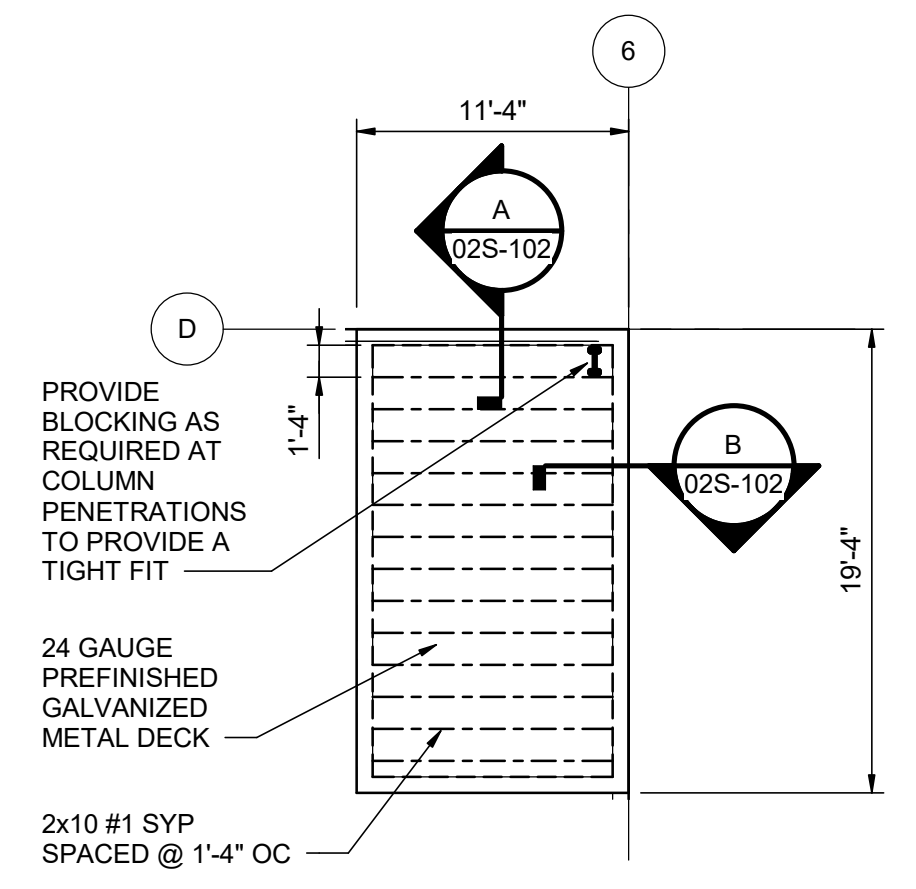
SHEET
02S-101



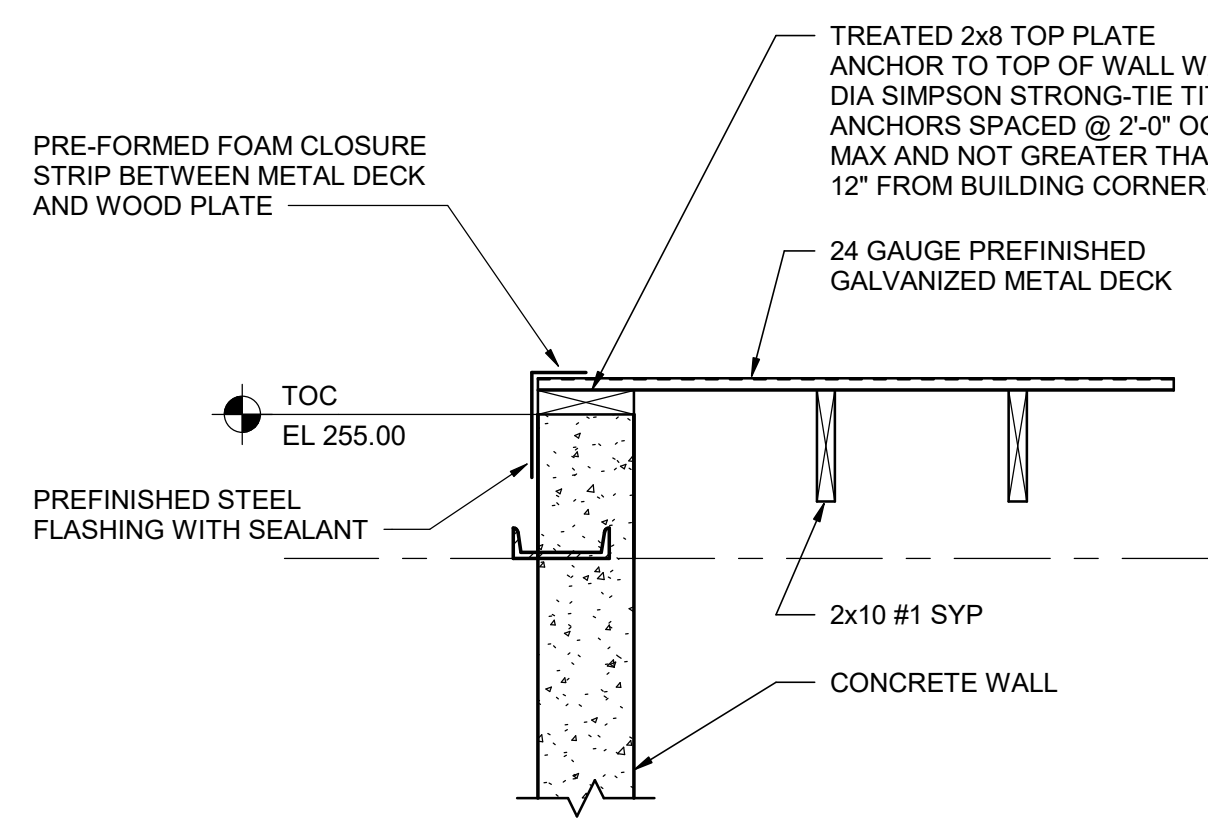
- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR DESIGN STANDARDS AND BUILDING CODE INFORMATION.
 - SEE SHEET 00S-001 FOR DESIGN LOADS.
 - PIER CONFIGURATIONS ARE AS INDICATED ON SHEET 03S-302. IF THESE CONFIGURATIONS ARE NOT COMPATIBLE TO THE PEMB DESIGN THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SUCH THAT MODIFICATIONS CAN BE MADE PRIOR TO PIER REINFORCEMENT FABRICATION AND CONSTRUCTION.
 - GENERAL ASSUMPTIONS HAVE BEEN MADE BY THE STRUCTURAL ENGINEER FOR THE FOUNDATION DESIGN. THE GENERAL CONTRACTOR AND PEMB SHALL SUBMIT FRAME REACTIONS TO THE ENGINEER FOR VERIFICATION WITH THE FOUNDATIONS SHOWN. ADJUSTMENTS MAY BE REQUIRED IN THE FIELD PRIOR TO CONSTRUCTION. ANY CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
 - FRAME REACTIONS AND ANCHOR BOLT SETTING PLAN SHALL BE SUBMITTED TO THE ENGINEER CONCURRENTLY WITH THE CONCRETE REINFORCEMENT SHOP DRAWINGS FOR REVIEW AND APPROVAL. ANY CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
 - THE PEMB SHALL DESIGN ALL ANCHOR BOLTS. ANCHOR BOLT SIZES SHALL BE FURNISHED TO THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANCHOR BOLTS.
 - ALL RIGID FRAMES SHALL HAVE PINNED CONNECTIONS TO THE FOUNDATION.
 - COLUMN BASE PLATES SHALL BE LEVELED WITH LEVELING NUTS OR SHIMS AND GROUTED SOLID WITH 2" NON-SHRINK GROUT.
 - PEMB AND CONTRACTOR SHALL PROVIDE BRACING AS NECESSARY TO MAINTAIN FLAT AND LEVEL GIRTS DURING BUILDING ERECTION.

- KEYNOTES: #**
- DENOTES APPROXIMATE POINT LOAD LOCATIONS FOR OVERHEAD DOOR TRACK. GENERAL CONTRACTOR SHALL COORDINATE WEIGHT AND LOCATION WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 - PURLIN SIZE, SPACING AND MATERIAL PROVIDED BY MBM.
 - ANTICIPATED LOCATION OF CROSS BRACING IN ROOF AND WALLS.
 - MANDOOR FRAMING PROVIDED AND INSTALLED BY MBM.
 - OVERHEAD DOOR FRAMING PROVIDED AND INSTALLED BY MBM.

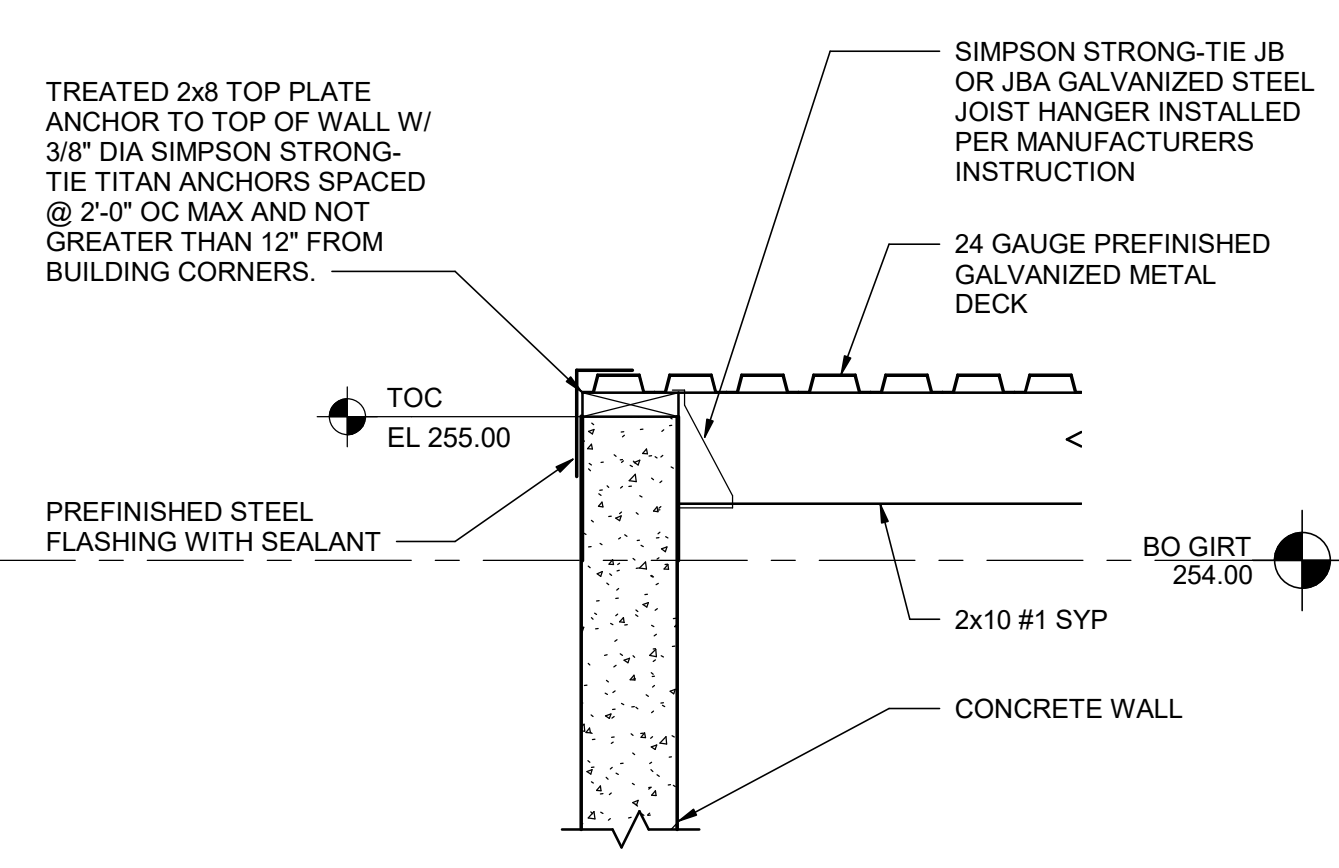
ROOF FRAMING PLAN
1/8" = 1'-0"



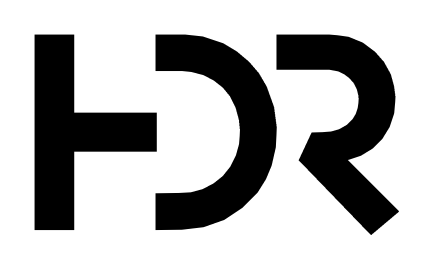
2 STORAGE ROOM CEILING FRAMING PLAN
02S-102 1/8" = 1'-0"



A SECTION
02S-101 3/4" = 1'-0"

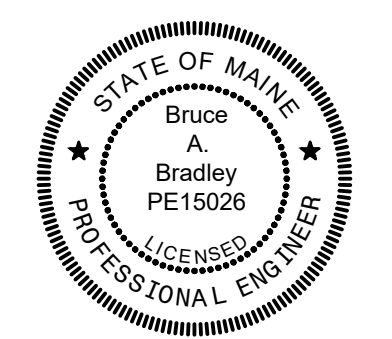


B SECTION
02S-101 3/4" = 1'-0"



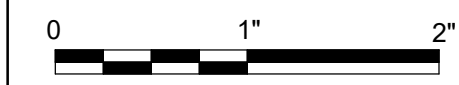
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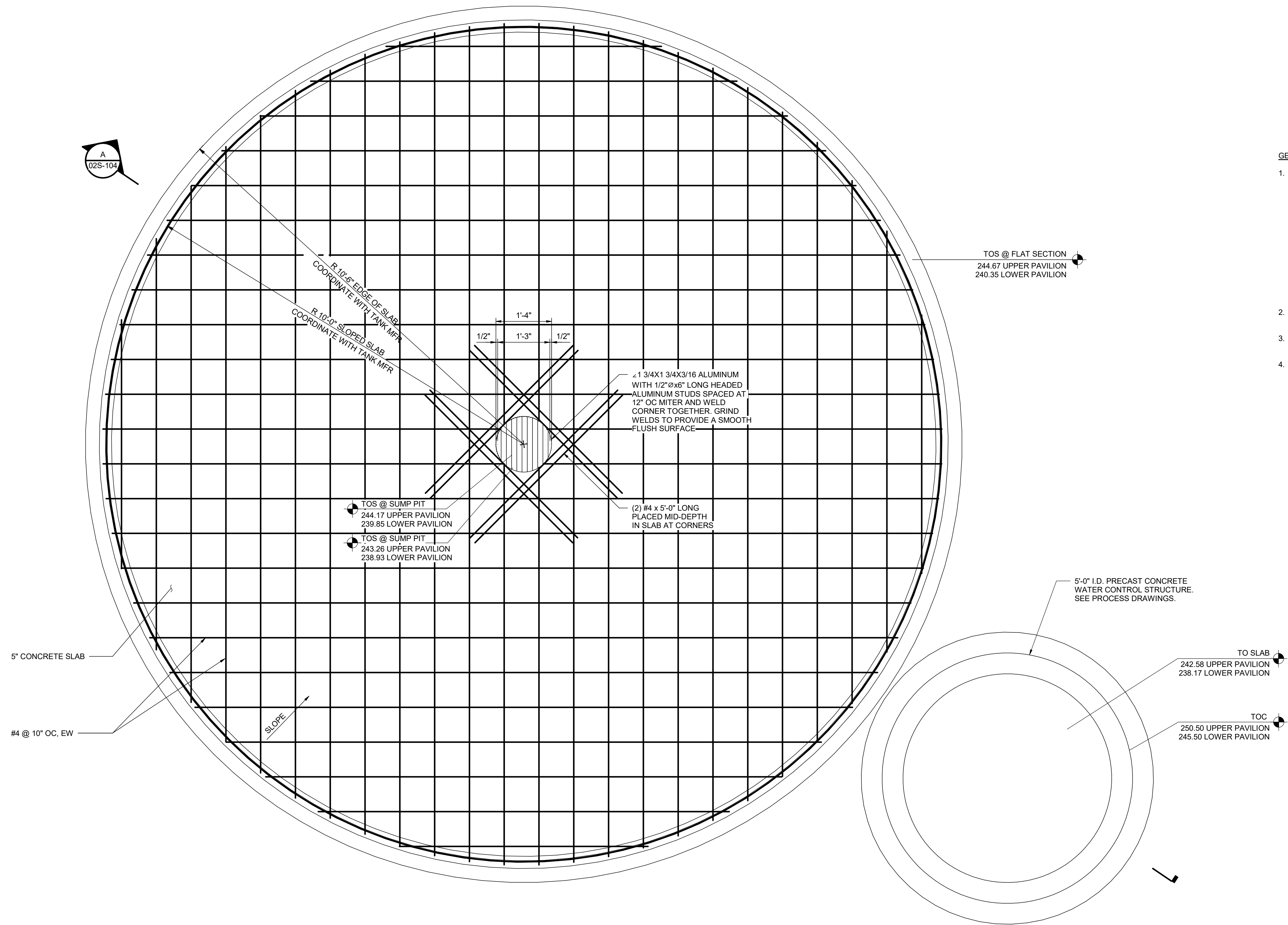
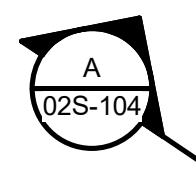
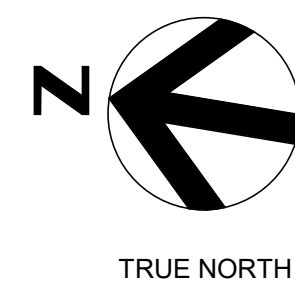
UPPER PAVILION ROOF FRAMING PLAN



FILENAME | 10353741-02-S.rvt
SCALE | As indicated

SHEET
02S-102

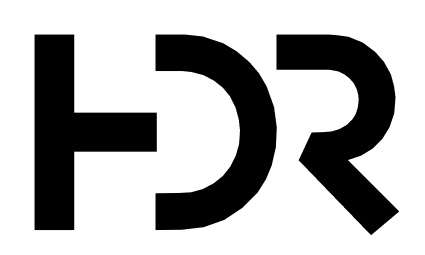
Autodesk_Docs/10353741_Main/DWG_NewGloucester_Impr_2022/10353741-02-S.rvt 5/16/2024 9:01:13 AM



- GENERAL NOTES:**
- BACKFILL AROUND PERIMETER OF STAINLESS STEEL TANKS SHALL BE PER TANK MANUFACTURER'S WRITTEN INSTRUCTIONS. AT A MINIMUM, NON-ANGULAR, FINE CRUSHED GRAVEL SHALL BE USED PER SPECIFICATION SECTION 02220. EXTERIOR FACE OF TANK WALLS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC PRIOR TO BACKFILL. BACKFILLING OPERATIONS AROUND TANKS SHALL BE PERFORMED ONLY WHEN TANKS ARE FILLED WITH WATER UNLESS WRITTEN PERMISSION IS GIVEN BY MANUFACTURER FOR DRY BACKFILL OPERATIONS. CONTRACTOR SHALL COORDINATE BACKFILL TYPE AND GEOTECHNICAL FABRIC MATERIAL WITH TANK MANUFACTURER.
 - SEE SHEET 00S-001 SERIES FOR GENERAL STRUCTURAL NOTES.
 - SEE SHEETS 00S-101 THROUGH 00S-104 FOR TYPICAL STRUCTURAL DETAILS.
 - REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES, AND DRAINS.

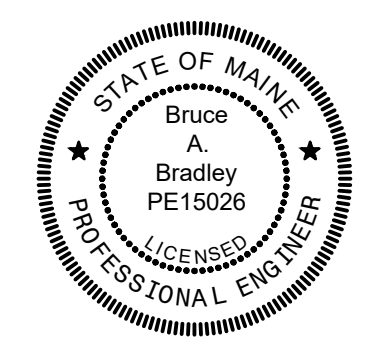
20' TANK SLAB PLAN
3/4" = 1'-0"

Autodesk_Docs/10353741_Main/DIF_NewGloucester_Impr_2022/10353741-02-S.rvt 5/16/2024 9:01:09 AM



ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



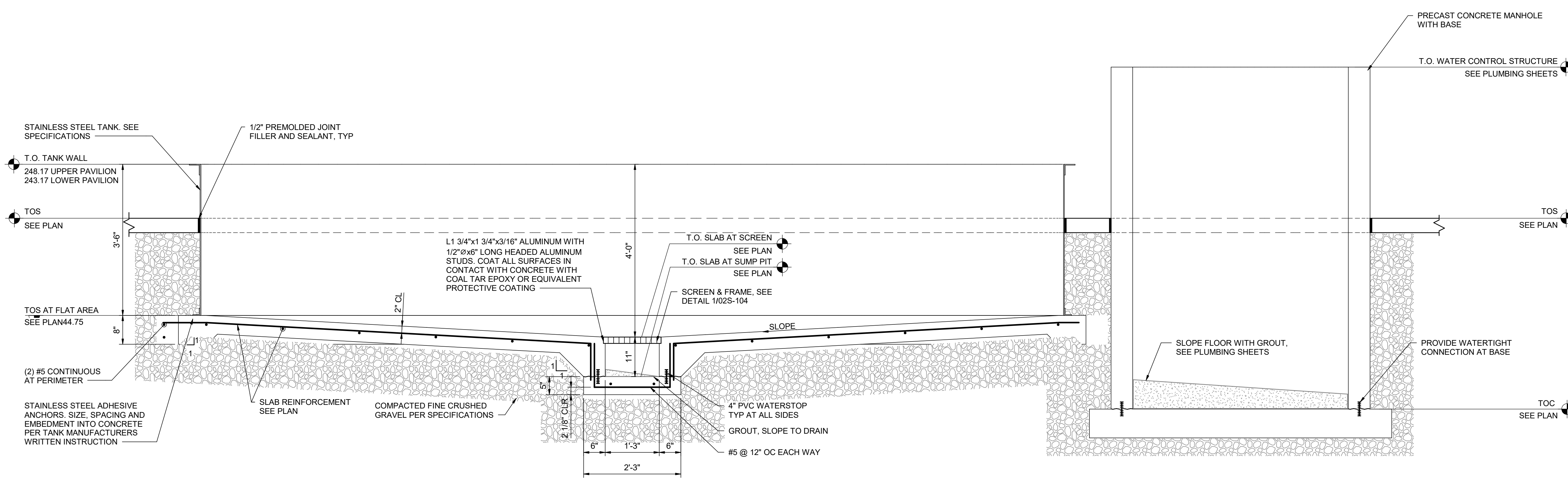
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER / LOWER PAVILION
20' DIAMETER TANK FOUNDATION



FILENAME | 10353741-02-S.rvt
SCALE | 3/4" = 1'-0"

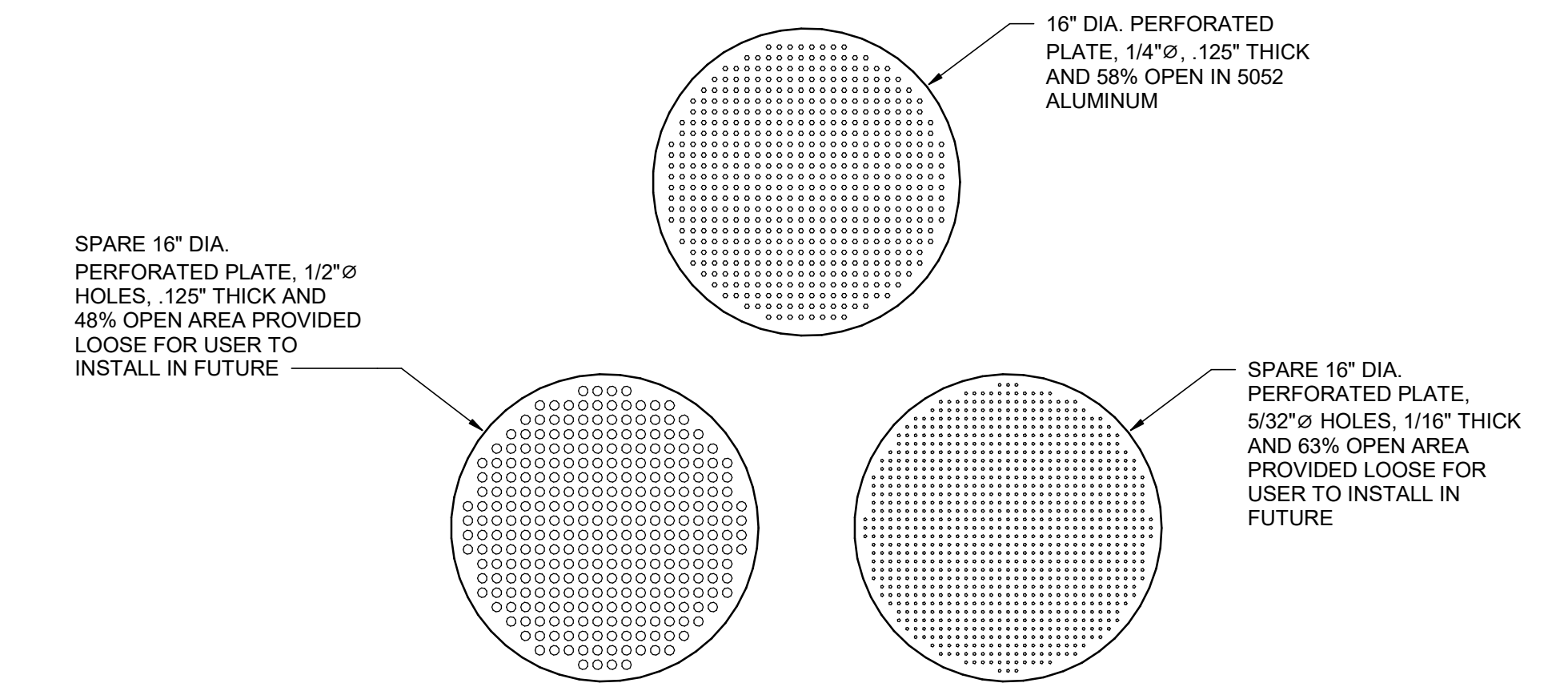
SHEET
02S-103



GENERAL NOTES:

1. WATERTIGHT CONNECTION OF TANK TO CONCRETE SLAB SHALL BE DESIGNED AND PROVIDED BY TANK MANUFACTURER. ALL MATERIAL USED FOR ANCHORAGE SHALL BE STAINLESS STEEL.

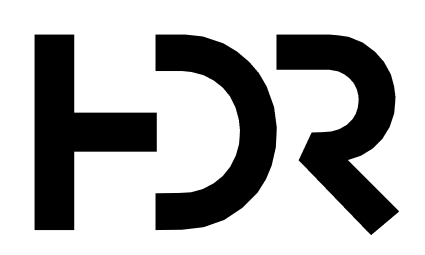
20' DIAMETER TANK SECTION
A
02S-103 3/4" = 1'-0"



- NOTES:**
1. ONE (1) SCREEN REQUIRED AT EACH TANK - 8 SCREENS TOTAL.
 2. SCREENS SHALL BE FABRICATED TO BE FLAT. SCREENS SHALL FIT SMOOTHLY INTO RECESSED CONCRETE RIM WITHOUT BENDING.

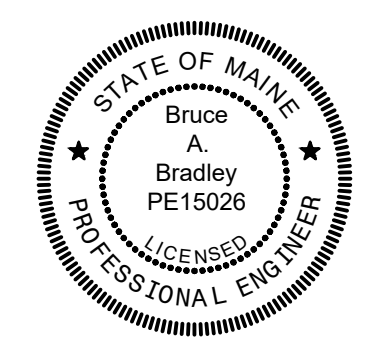
SCREEN DETAILS
1
1 1/2" = 1'-0"

Autodesk_Docs/10353741_Main/DIF_NewGloucester Impr_2022/10353741-02-S.rvt 5/16/2024 9:01:06 AM



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	05/03/2024	ISSUED FOR BID

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CIVIL	J. GAGNON
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



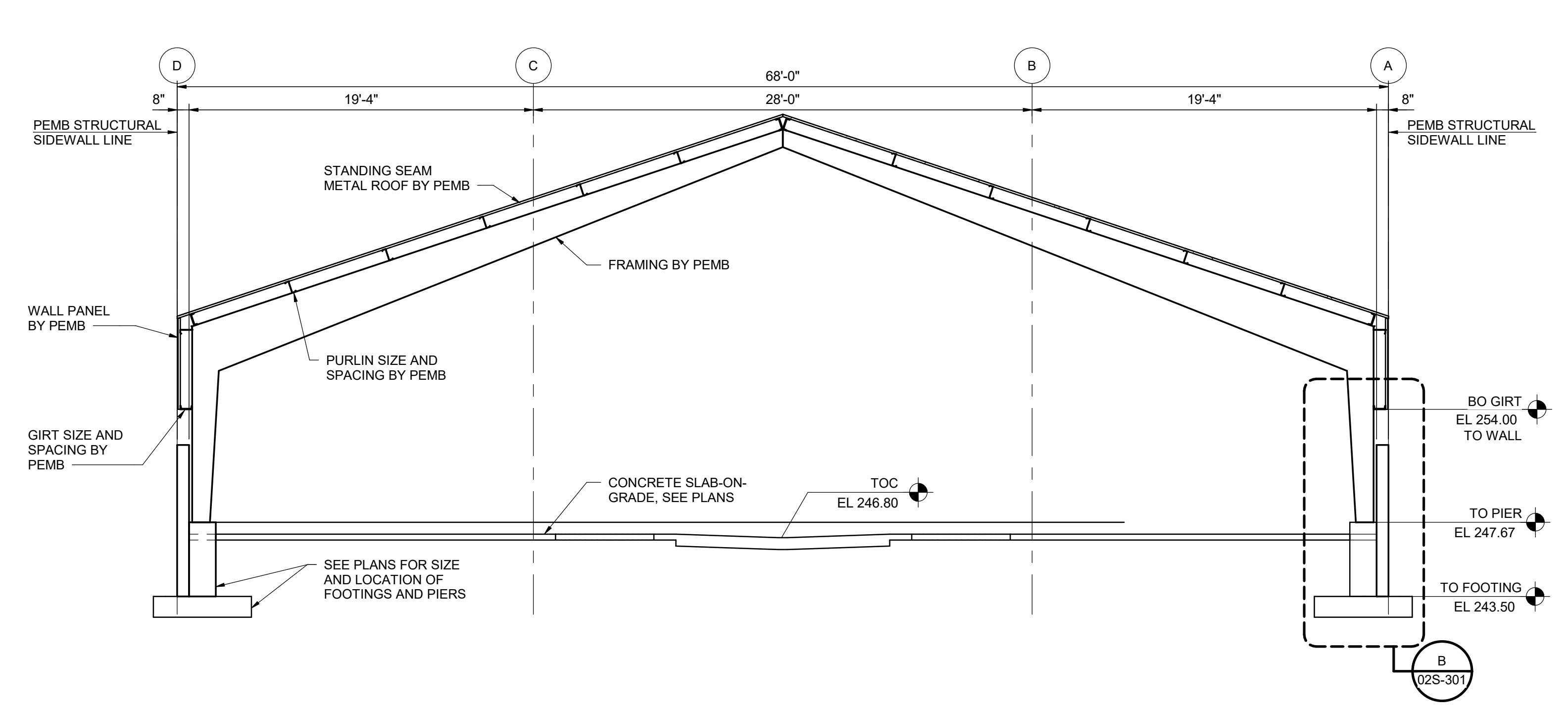
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER / LOWER PAVILION 20' TANK FOUNDATION DETAILS

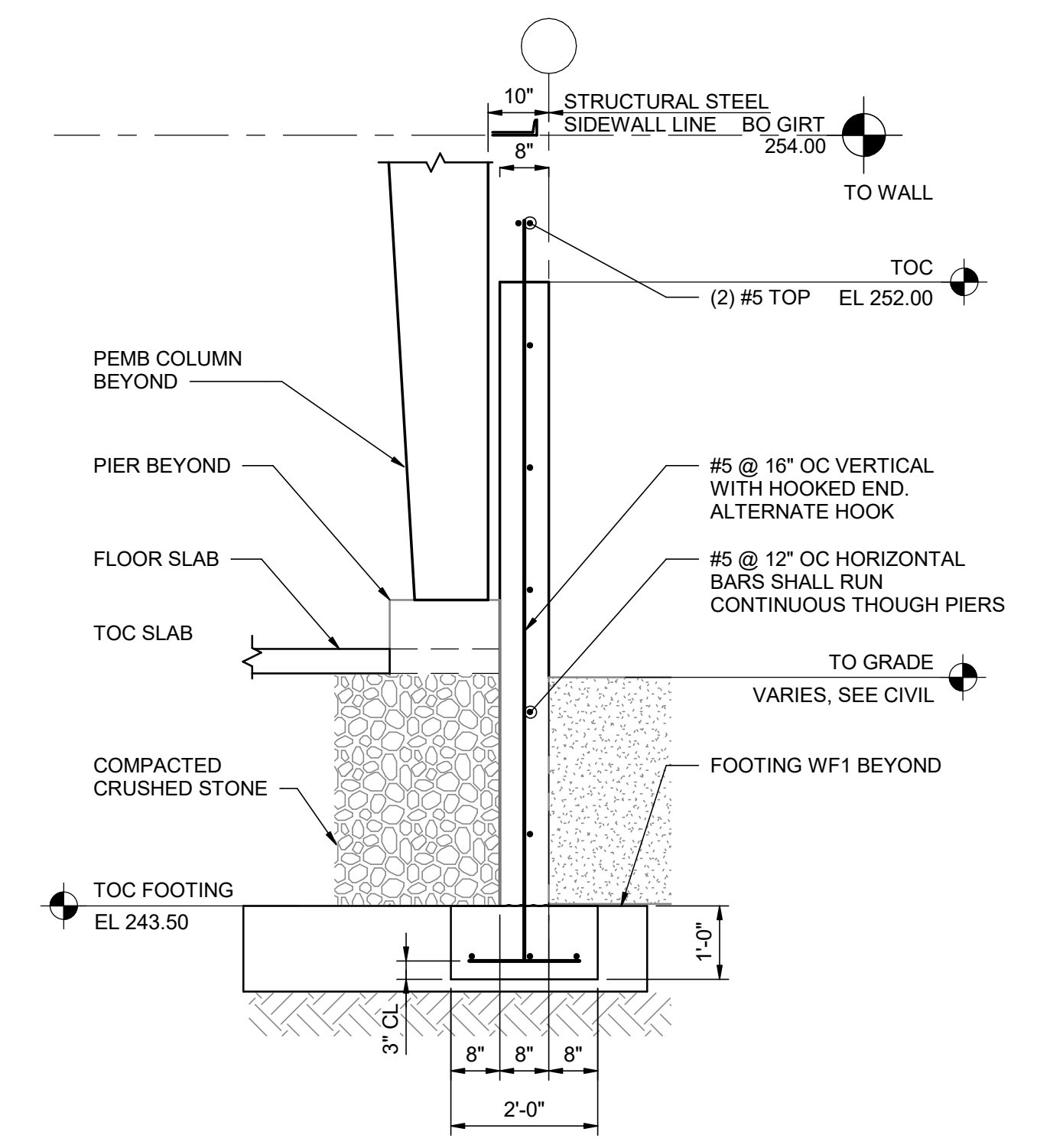
0 1" 2"

FILENAME | 10353741-02-S.rvt
SCALE | As indicated

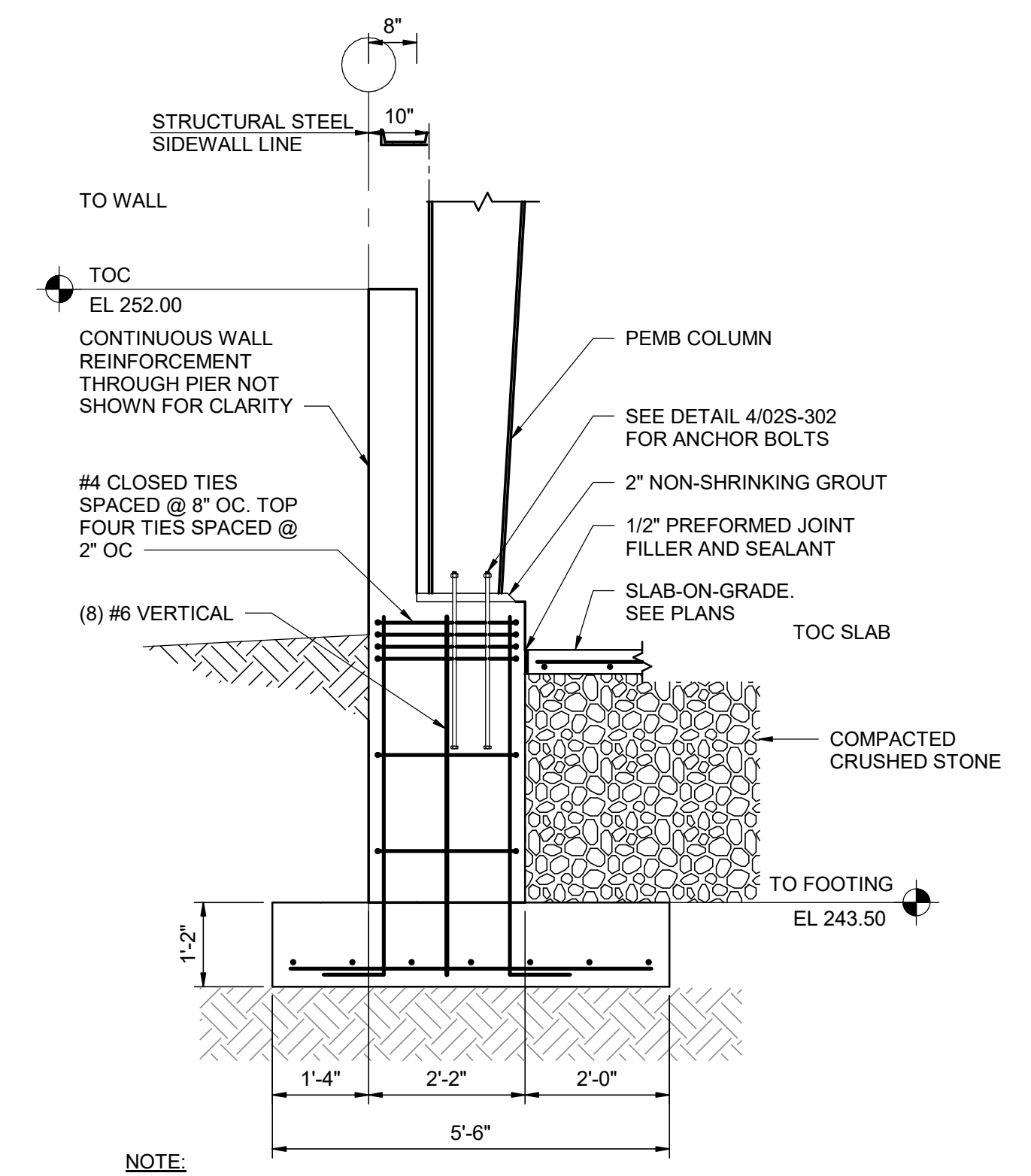
SHEET
02S-104



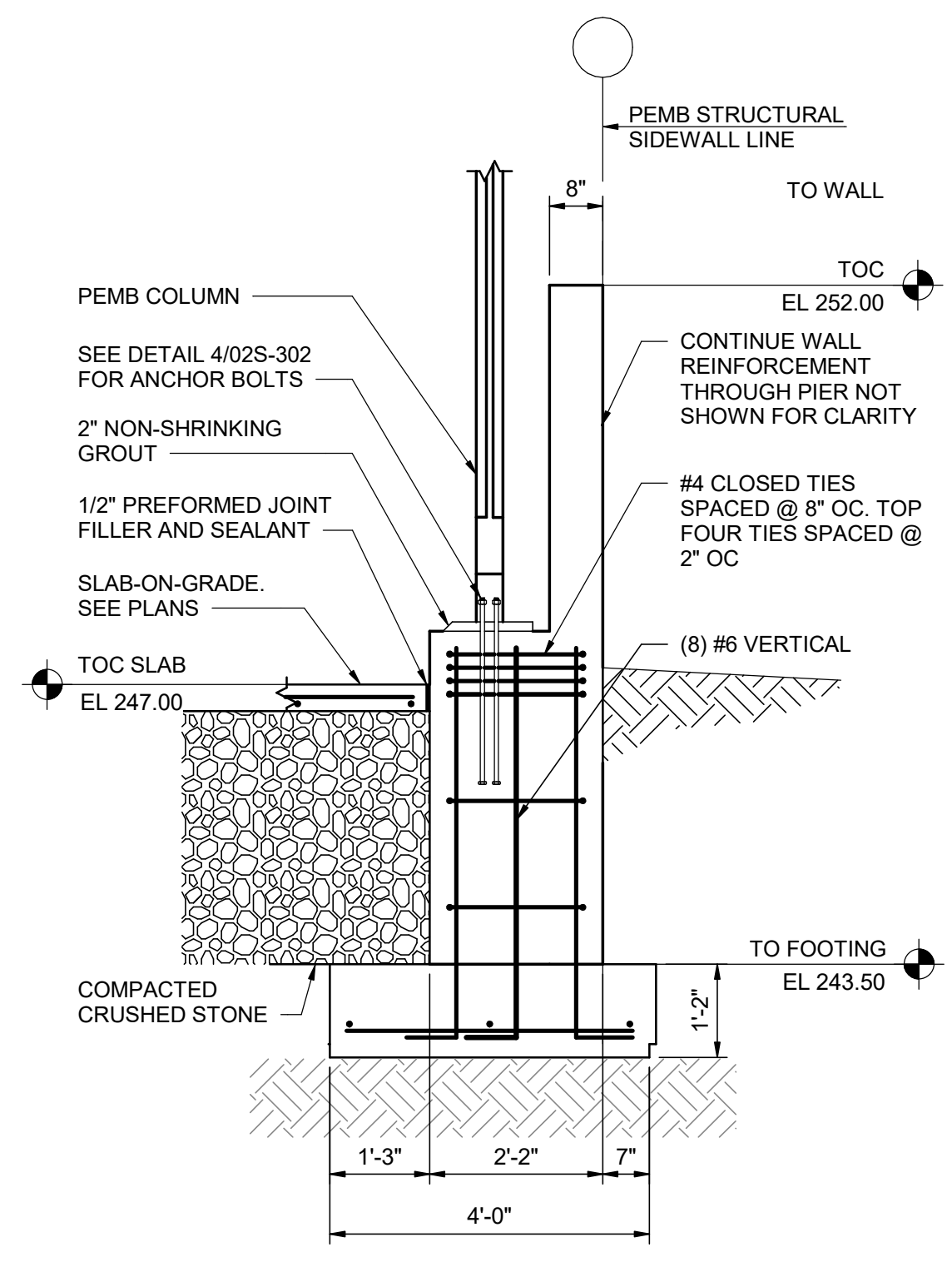
A PEMB SCHEMATIC SECTION
 02S-101 3/16" = 1'-0"



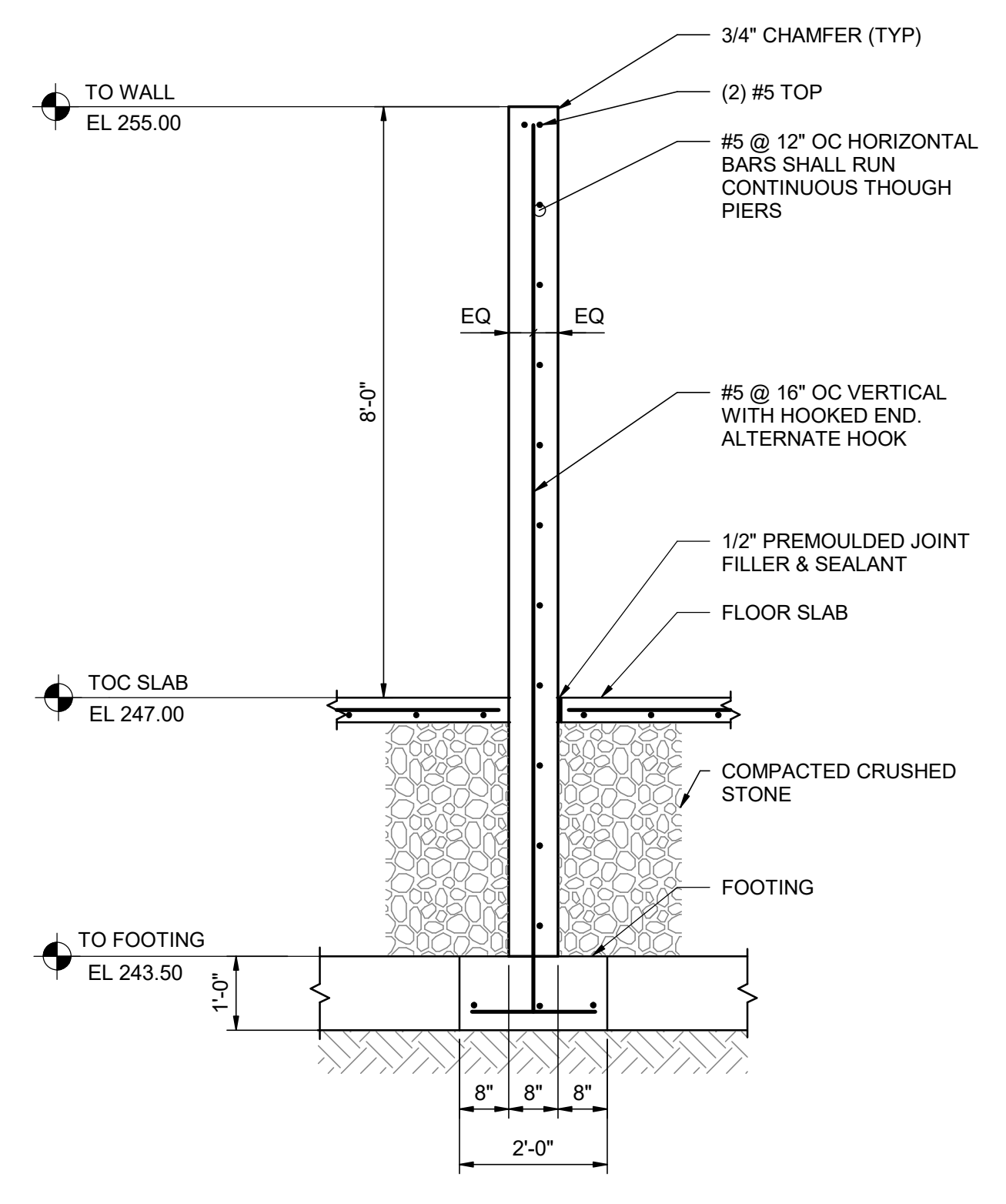
B TYPICAL WALL SECTION
 02S-301 1/2" = 1'-0"



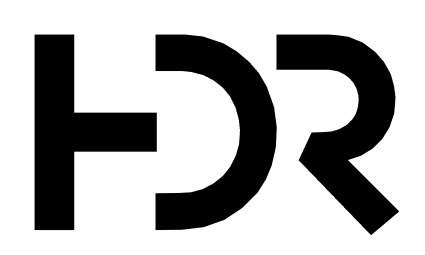
C PIER AT WALL SECTION
 02S-101 1/2" = 1'-0"



D PIER AT CORNER WALL SECTION
 02S-101 1/2" = 1'-0"

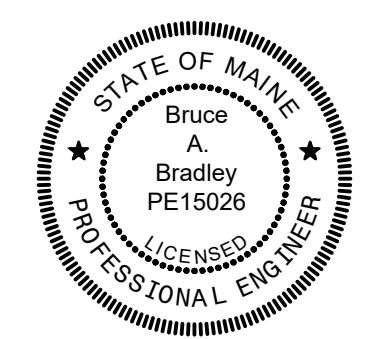


E WALL SECTION
 02S-101 1/2" = 1'-0"

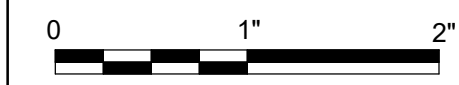


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PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741

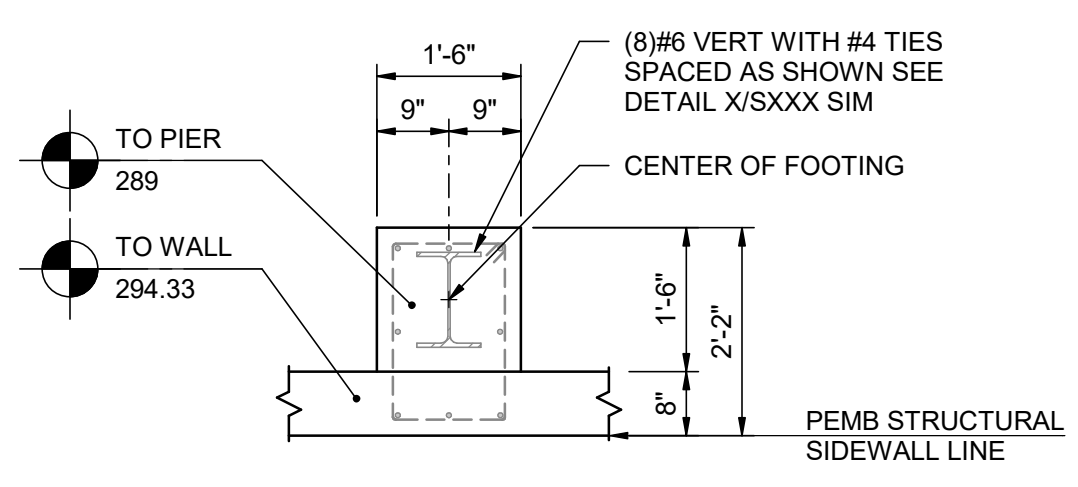


NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion



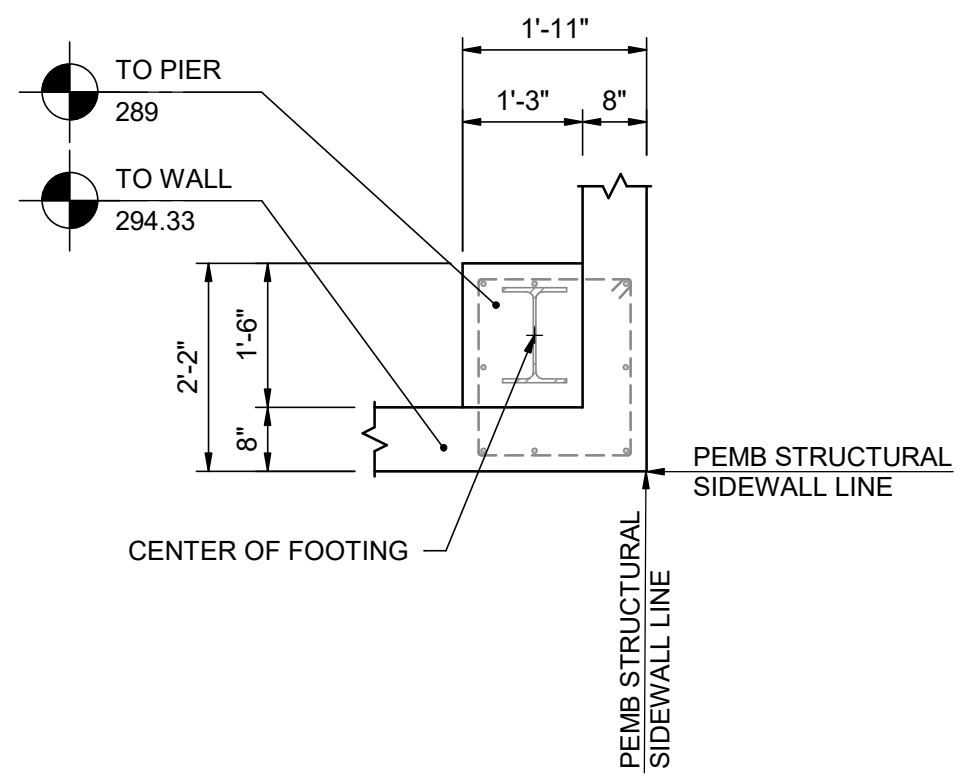
UPPER PAVILION SECTIONS
 FILENAME 10353741-02-S.rvt
 SCALE As indicated

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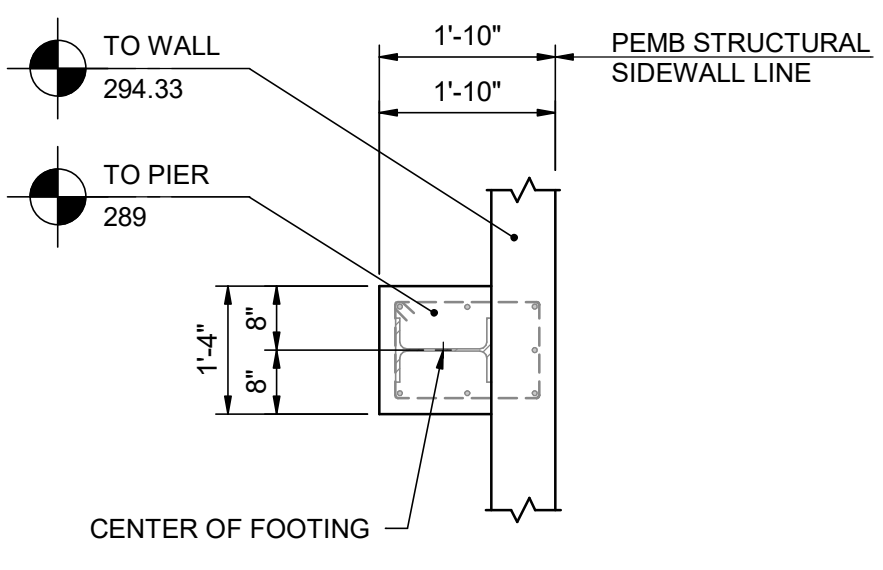


NOTE:
VERIFY PIER SIZE ADEQUACY WITH MBM PRIOR
TO FORMING OR CASTING CONCRETE.

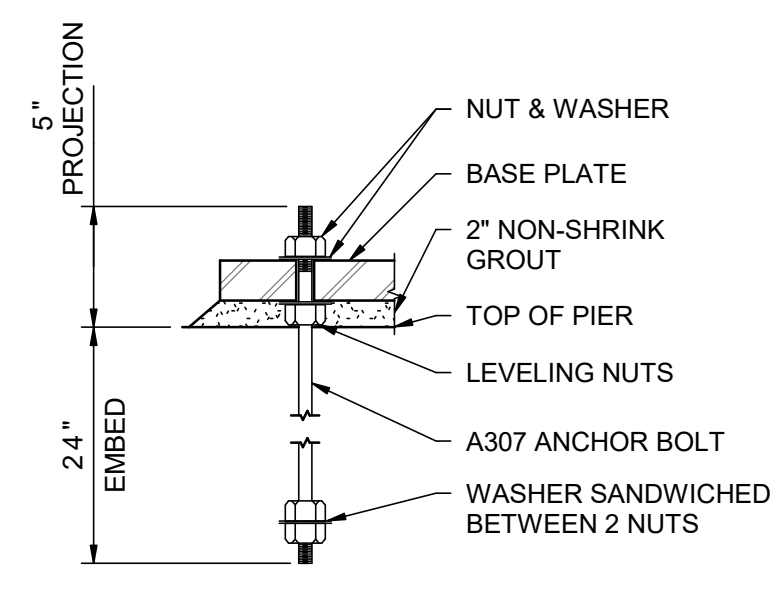
1 PIER TYPE 1
1/2" = 1'-0"



2 PIER TYPE 2
1/2" = 1'-0"

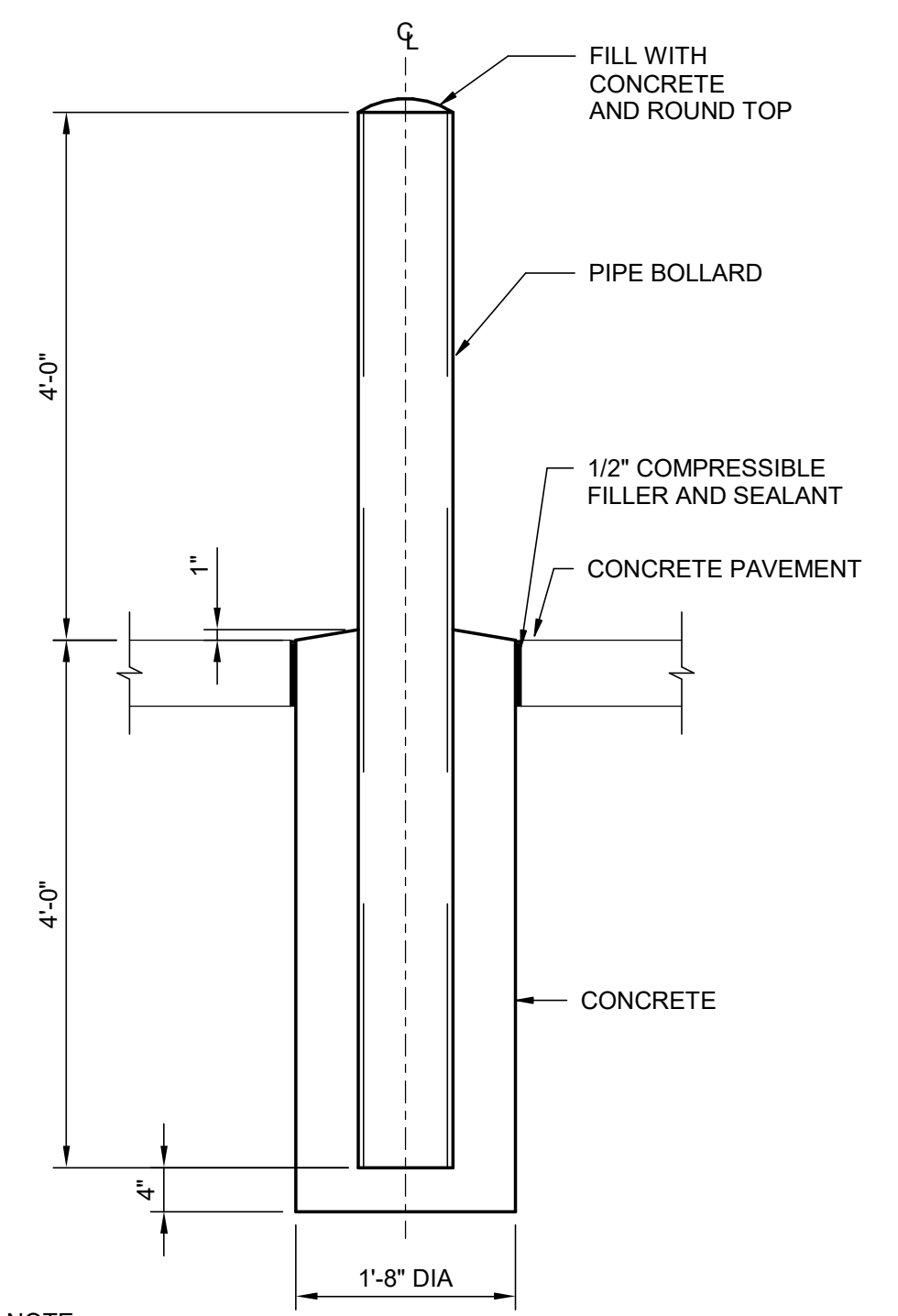


3 PIER TYPE 3
1/2" = 1'-0"



NOTE:
ANCHOR BOLTS PROVIDED AND INSTALLED BY
GENERAL CONTRACTOR (GC.) ANCHOR BOLT
SIZES SPECIFIED BY PEMB.

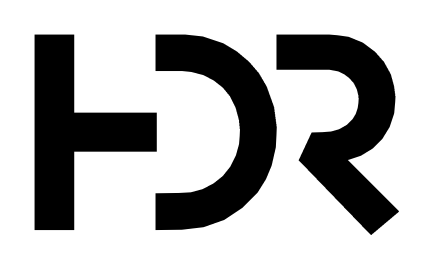
4 ANCHOR BOLT DETAIL
NOT TO SCALE



NOTE:
1. REINFORCING FOR CONCRETE SLAB NOT SHOWN.

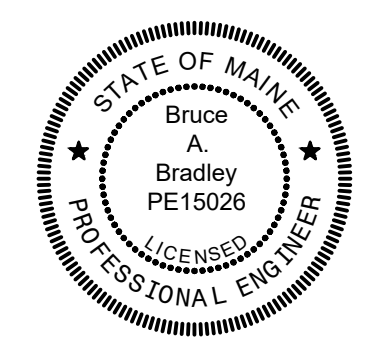
5 BOLLARD
NOT TO SCALE

Autodesk Docs/10353741_Main/DIF_NewGloucester Impr_2022/10353741-02-S.rvt 5/16/2024 9:00:59 AM



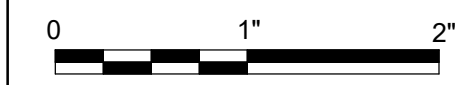
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	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER PAVILION DETAILS



FILENAME | 10353741-02-S.rvt
SCALE | As indicated

SHEET
02S-302

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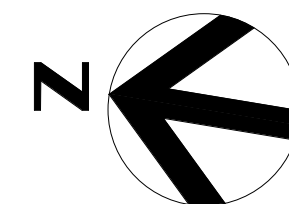
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5

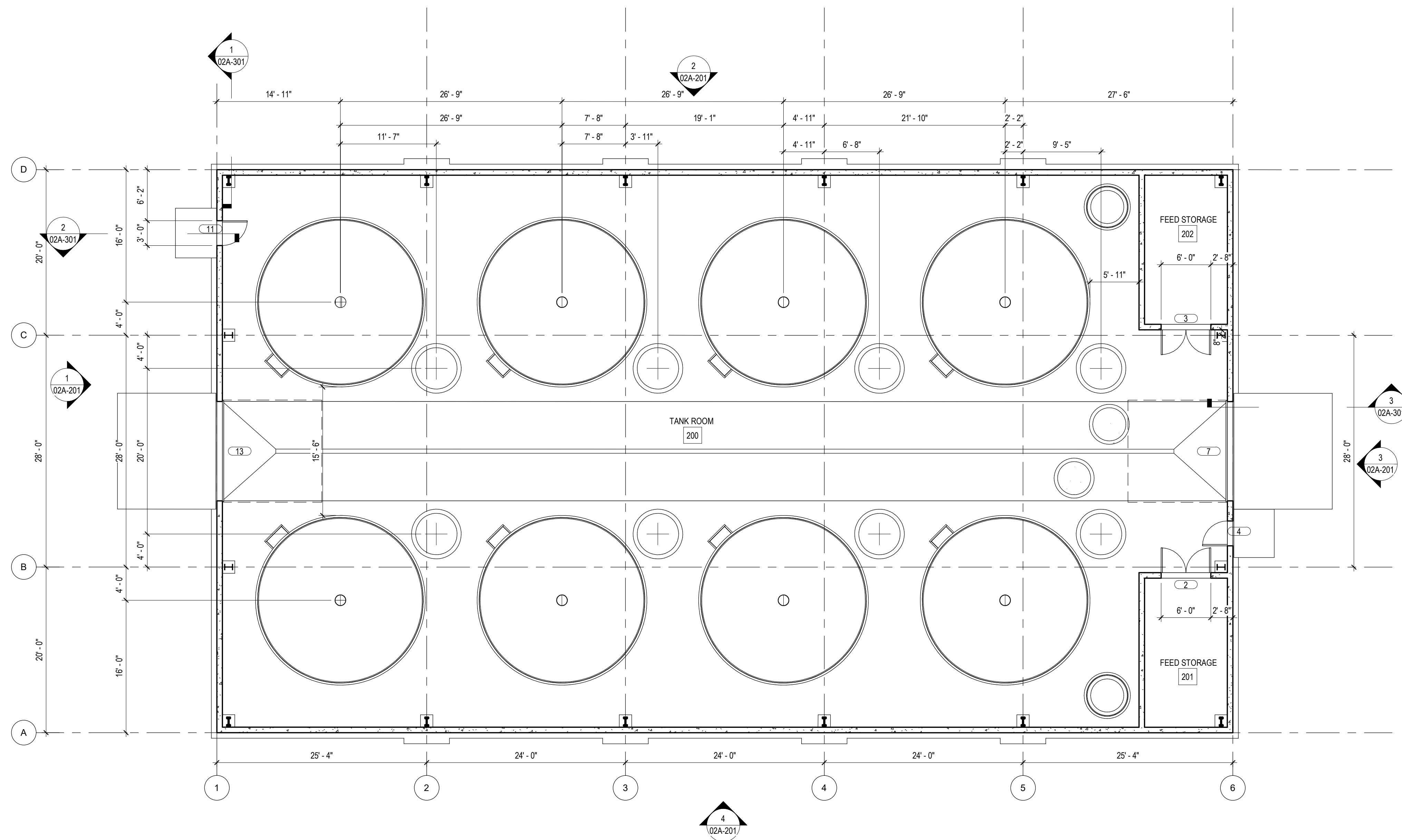
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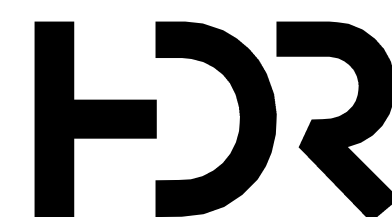


TRUE NORTH



1 UPPER PAVILION PLAN
1/8" = 1'-0"

Autodesk Docs/10353741_MaineDIF_NewGloucester_Impr_2022/2022_10353741-A-Maine DIF_NewGloucester.rvt
5/16/2024 9:04:37 AM

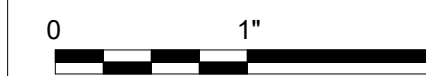


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PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



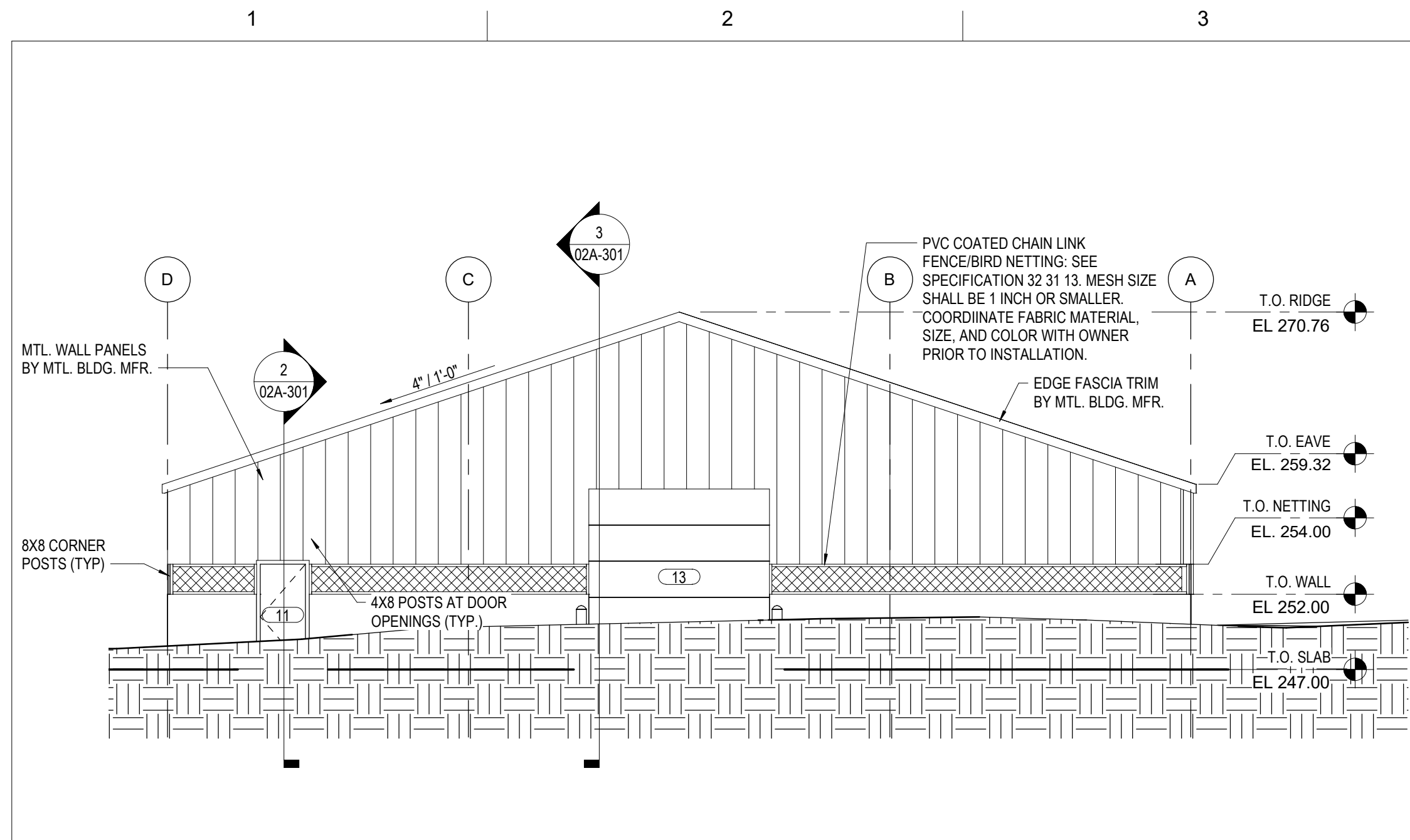
**NEW GLOUCESTER STATE FISH
HATCHERY
Phase III Facility
Conversion**



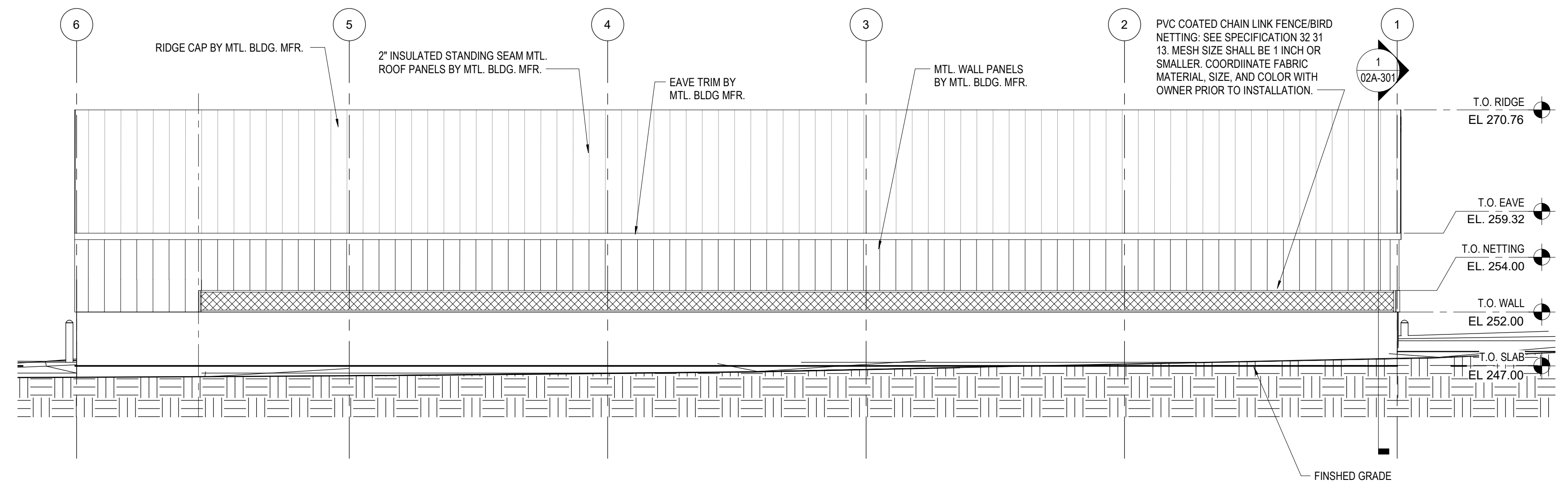
UPPER PAVILION PLAN

FILENAME
SCALE 1/8" = 1'-0"

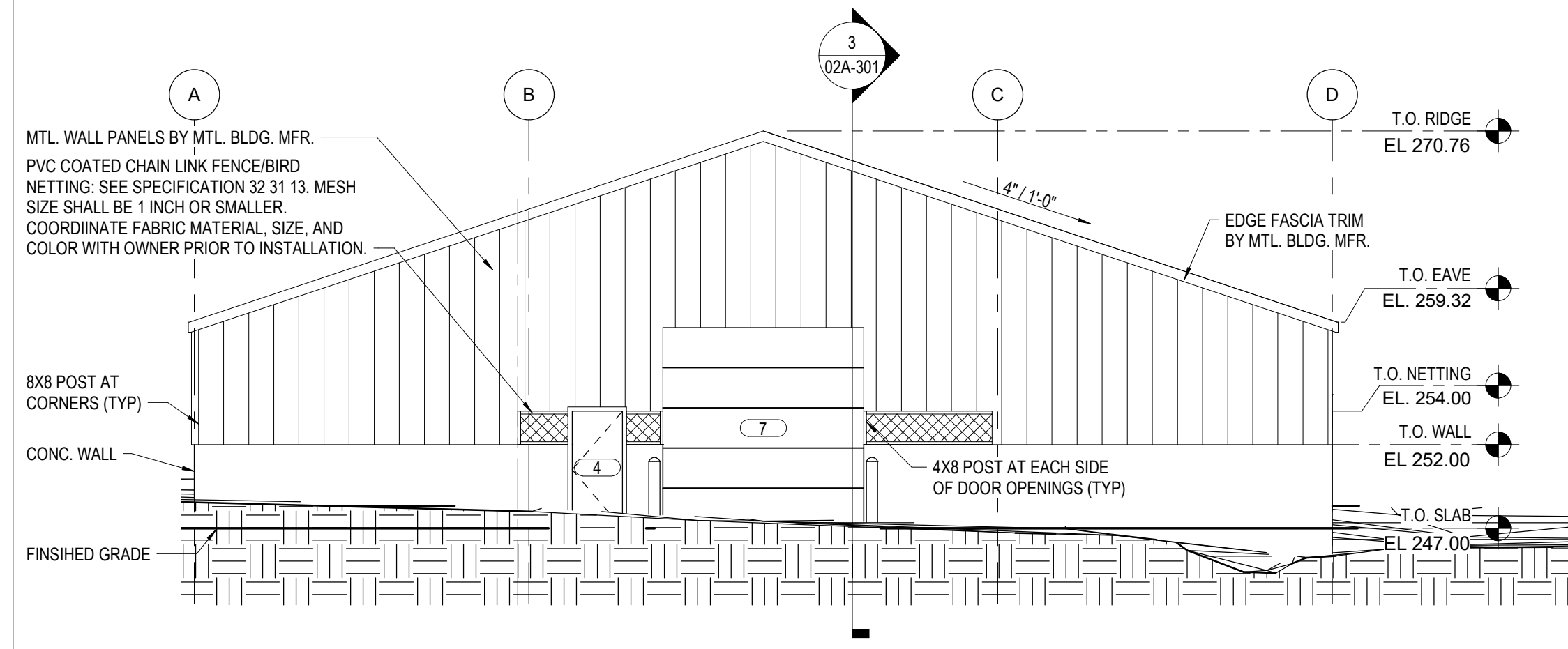
SHEET
02A-101



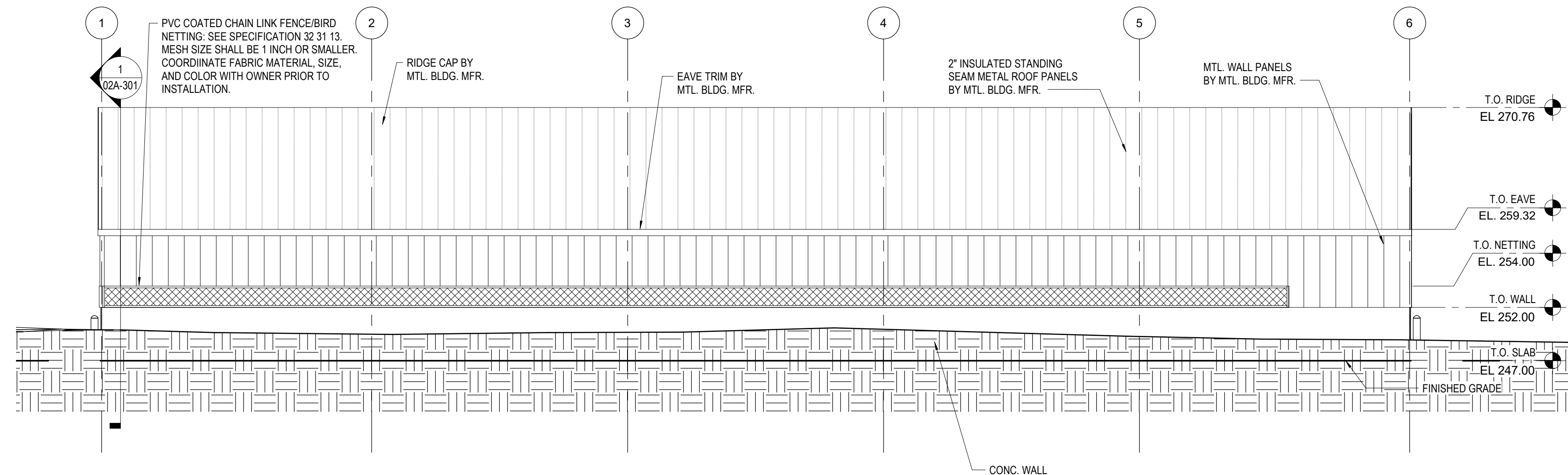
1 UPPER PAVILION - NORTH ELEVATION
1/8" = 1'-0"



2 UPPER PAVILION - WEST ELEVATION
1/8" = 1'-0"

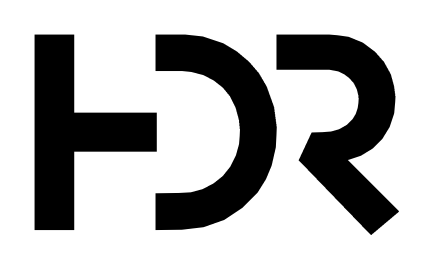


3 UPPER PAVILION - SOUTH ELEVATION
1/8" = 1'-0"



4 UPPER PAVILION - EAST ELEVATION
1/8" = 1'-0"

Autodesk Docs//10353741_Main/DIF_NewGloucester_imp_r_2022/0222_10353741-A-Maine DIF_NewGloucester.rvt 5/16/2024 9:04:34 AM



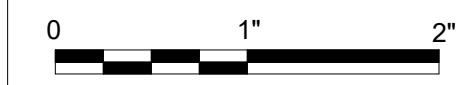
ISSUE	DATE	DESCRIPTION
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



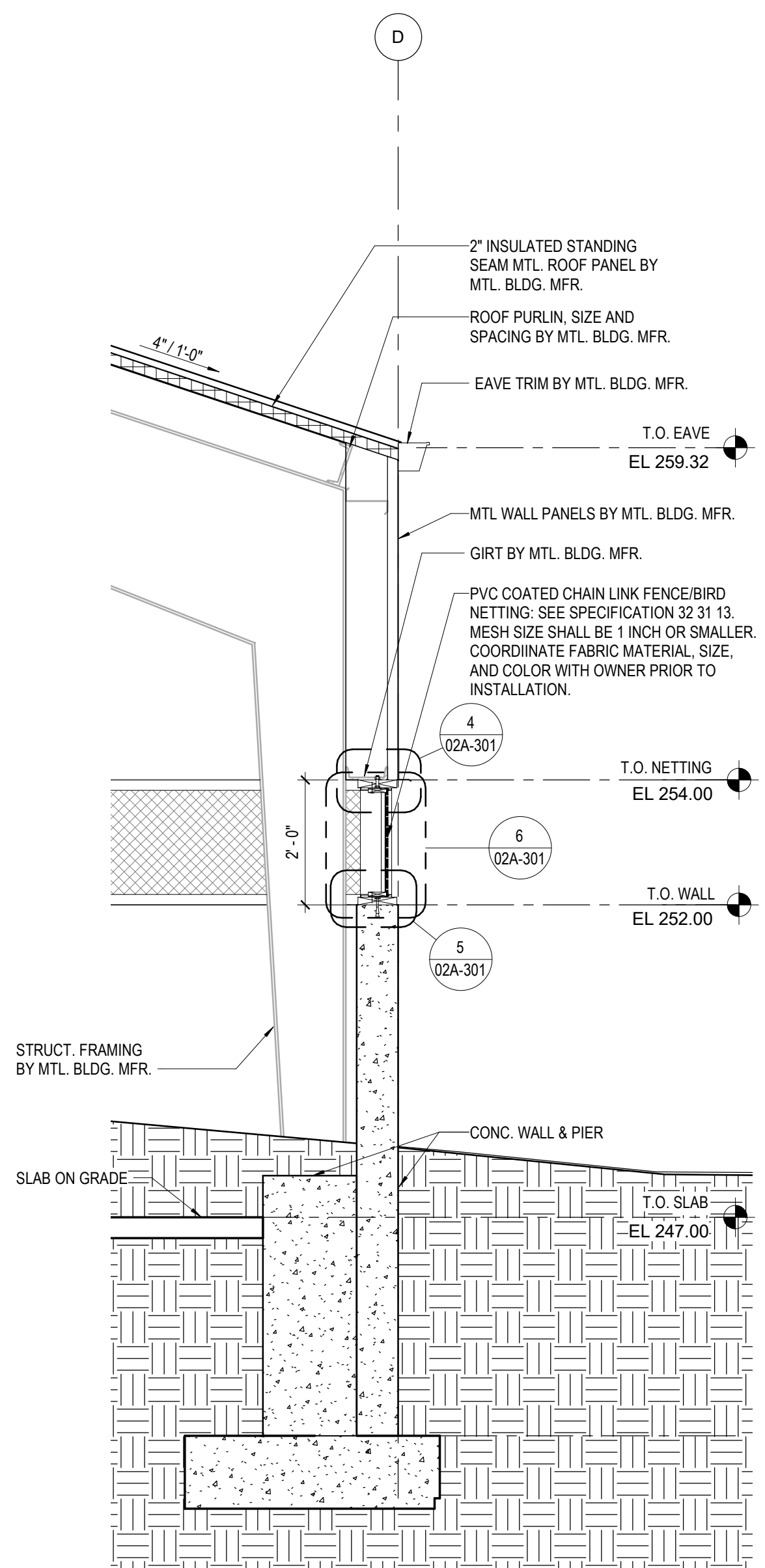
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER PAVILION EXTERIOR ELEVATIONS

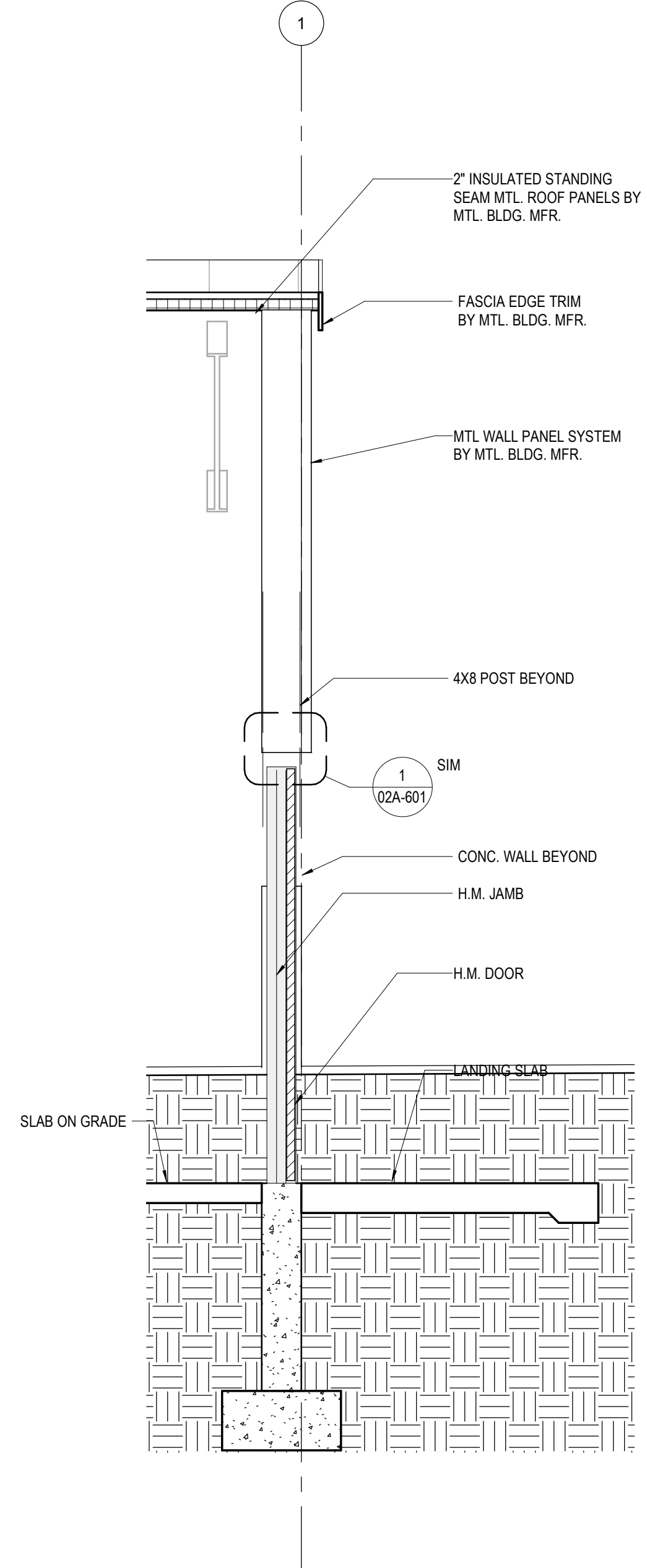


FILENAME
SCALE 1/8" = 1'-0"

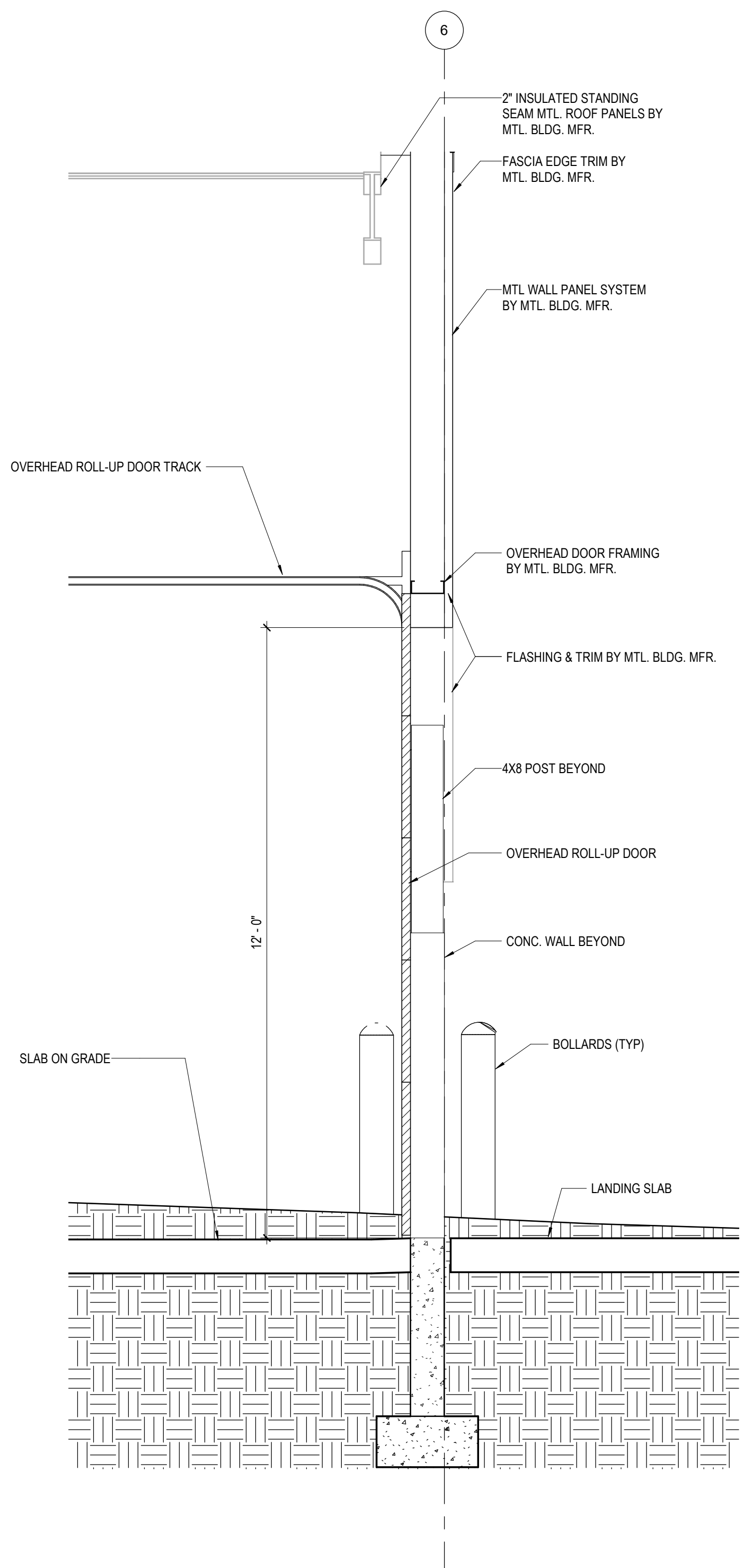
SHEET
02A-201



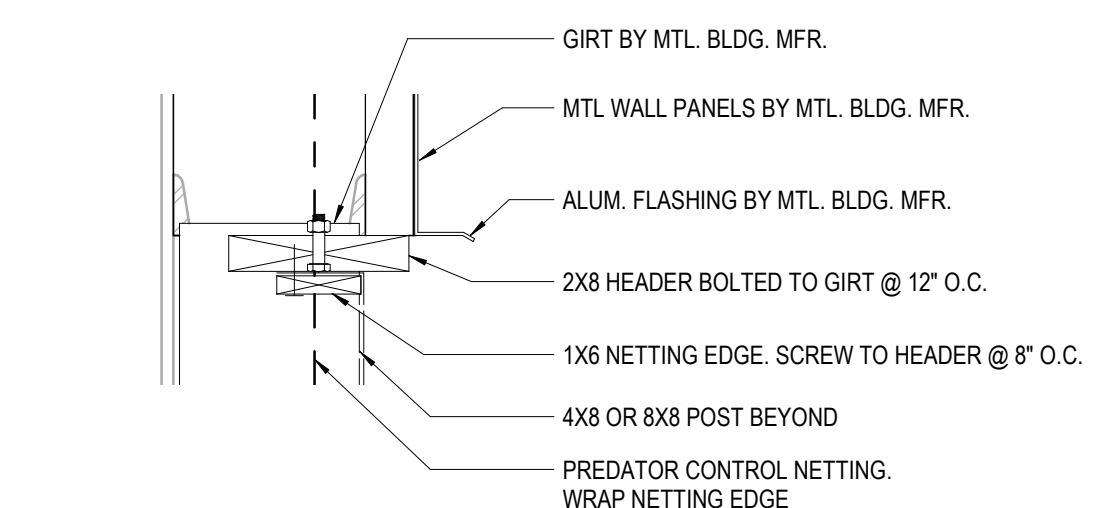
1 TYPICAL WALL SECTION
1/2" = 1'-0"



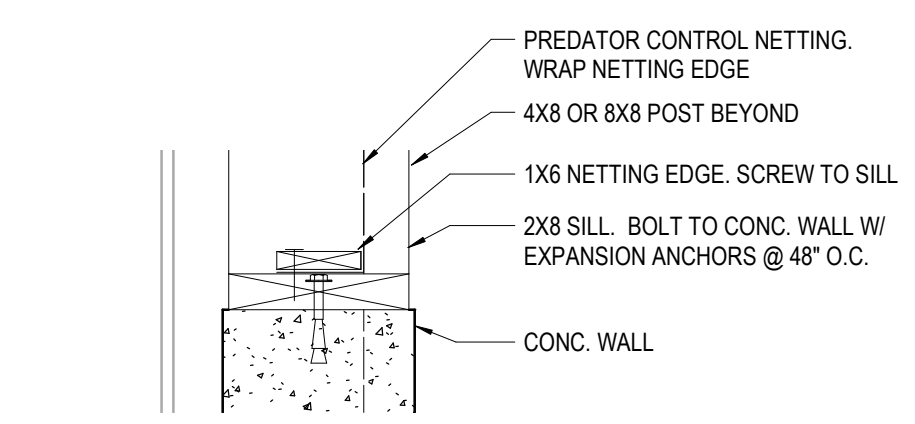
2 WALL SECTION AT MAN DOOR
1/2" = 1'-0"



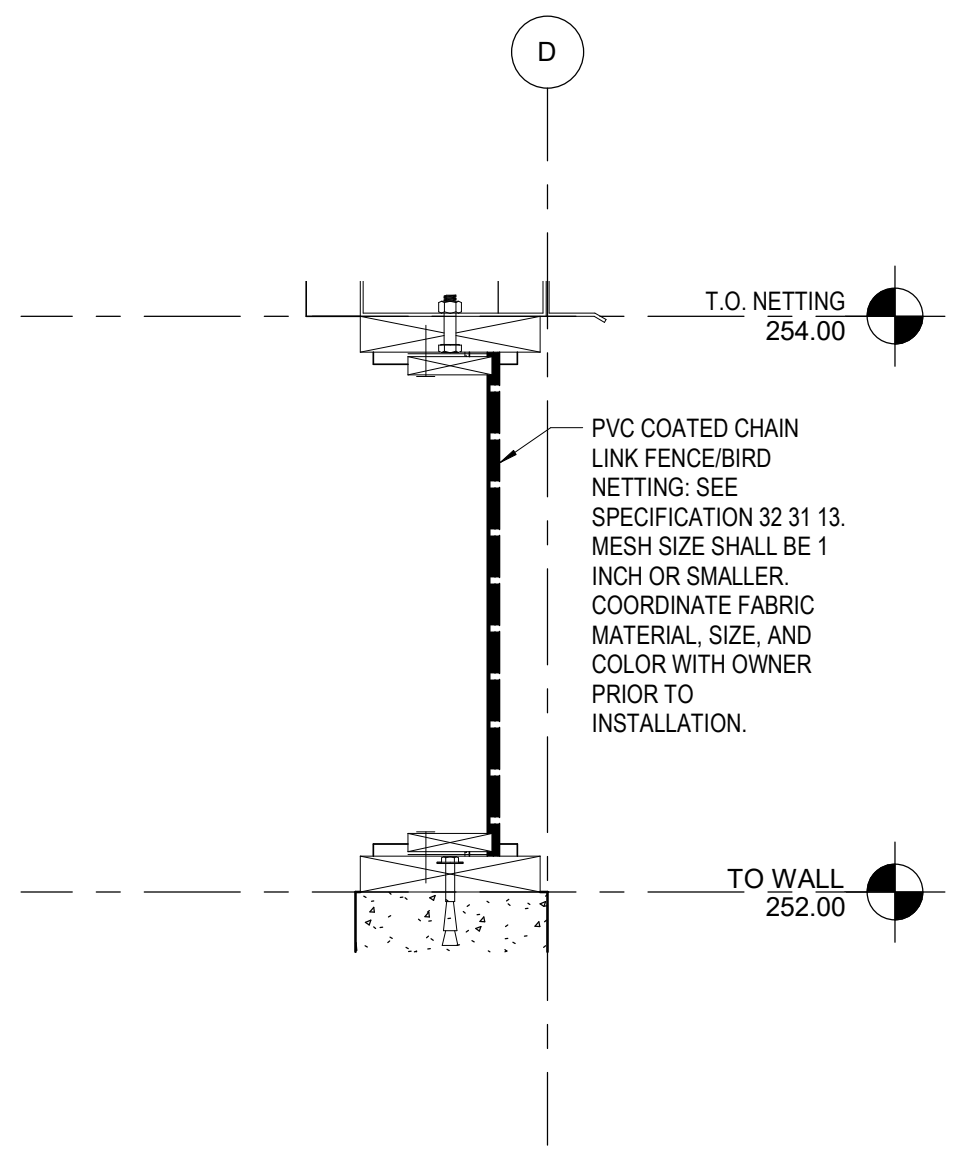
3 WALL SECTION AT ROLL UP DOOR
1/2" = 1'-0"



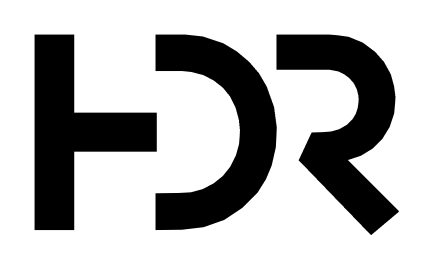
4 NETTING HEAD DETAIL
1 1/2" = 1'-0"



5 NETTING SILL DETAIL
1 1/2" = 1'-0"



6 BIRD NETTING DETAIL
1 1/2" = 1'-0"



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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

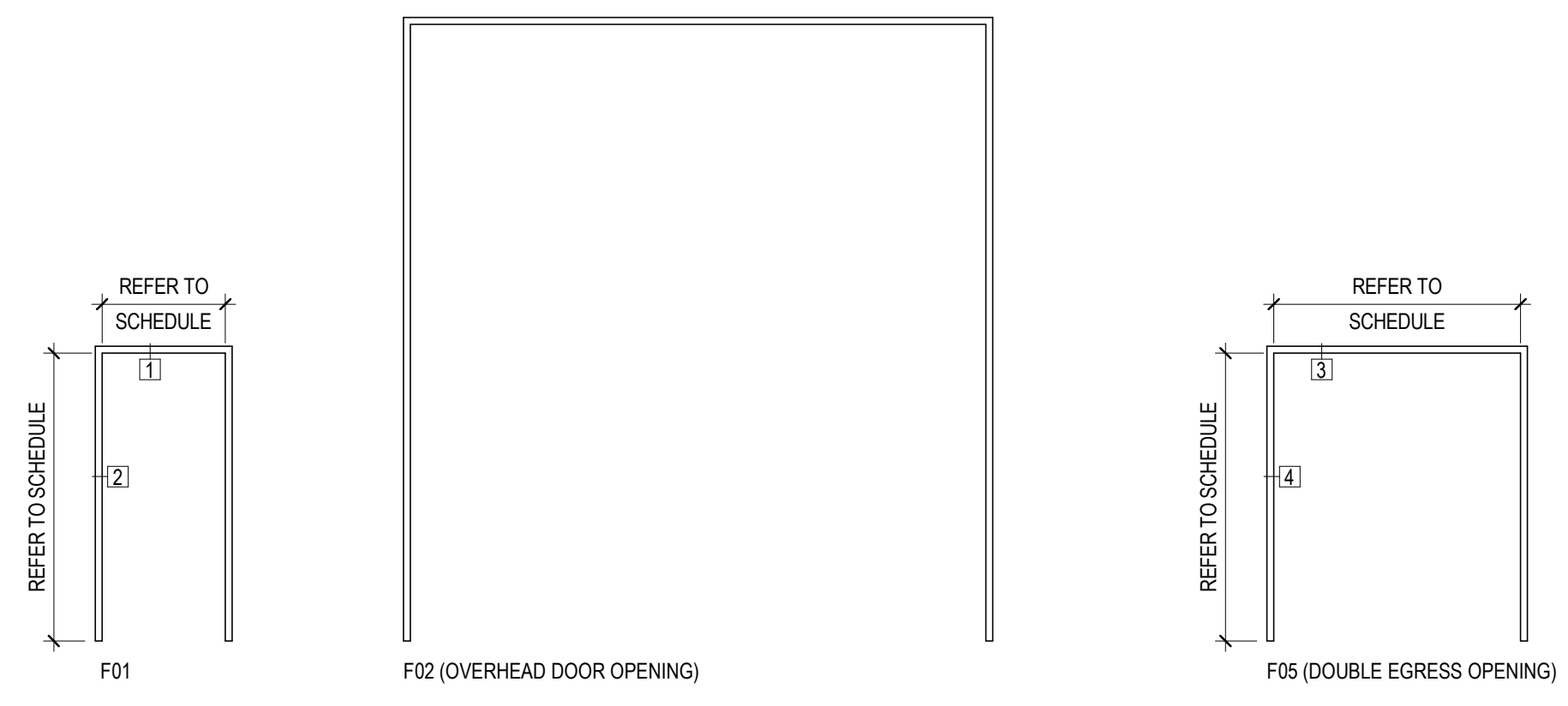
UPPER PAVILION WALL SECTIONS & DETAILS

0 1" 2"	FILENAME
	SCALE As indicated

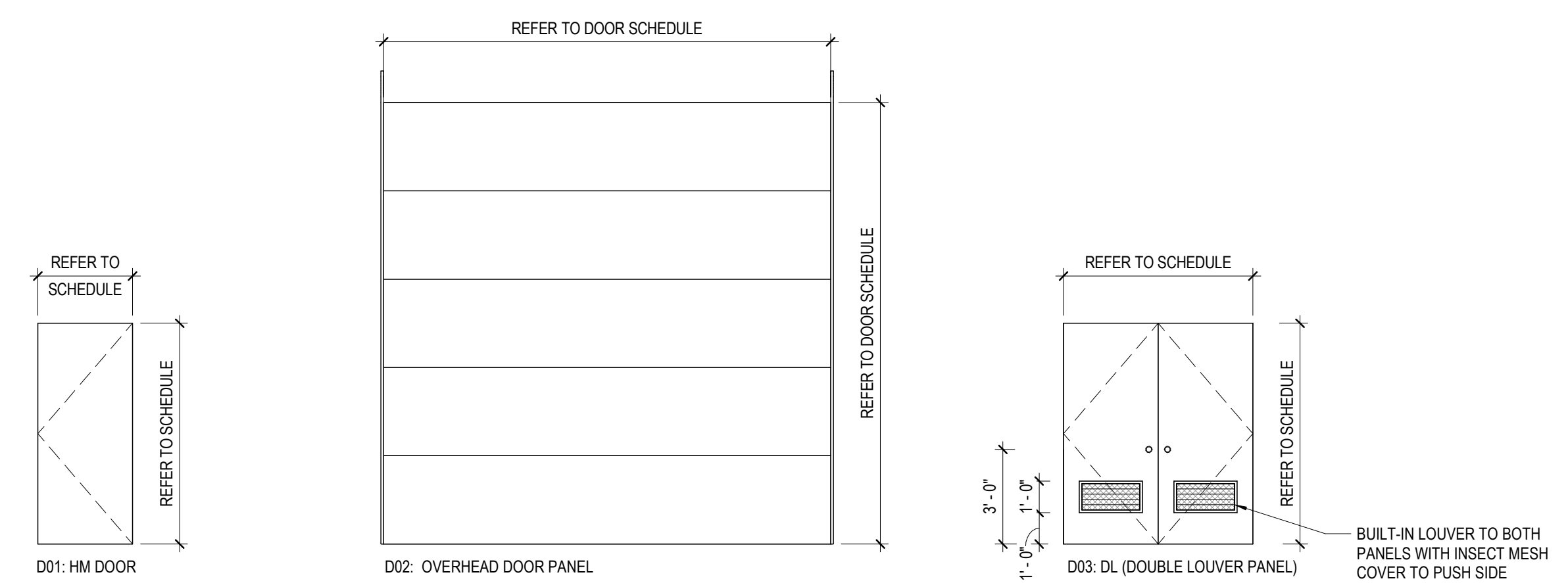
SHEET
02A-301

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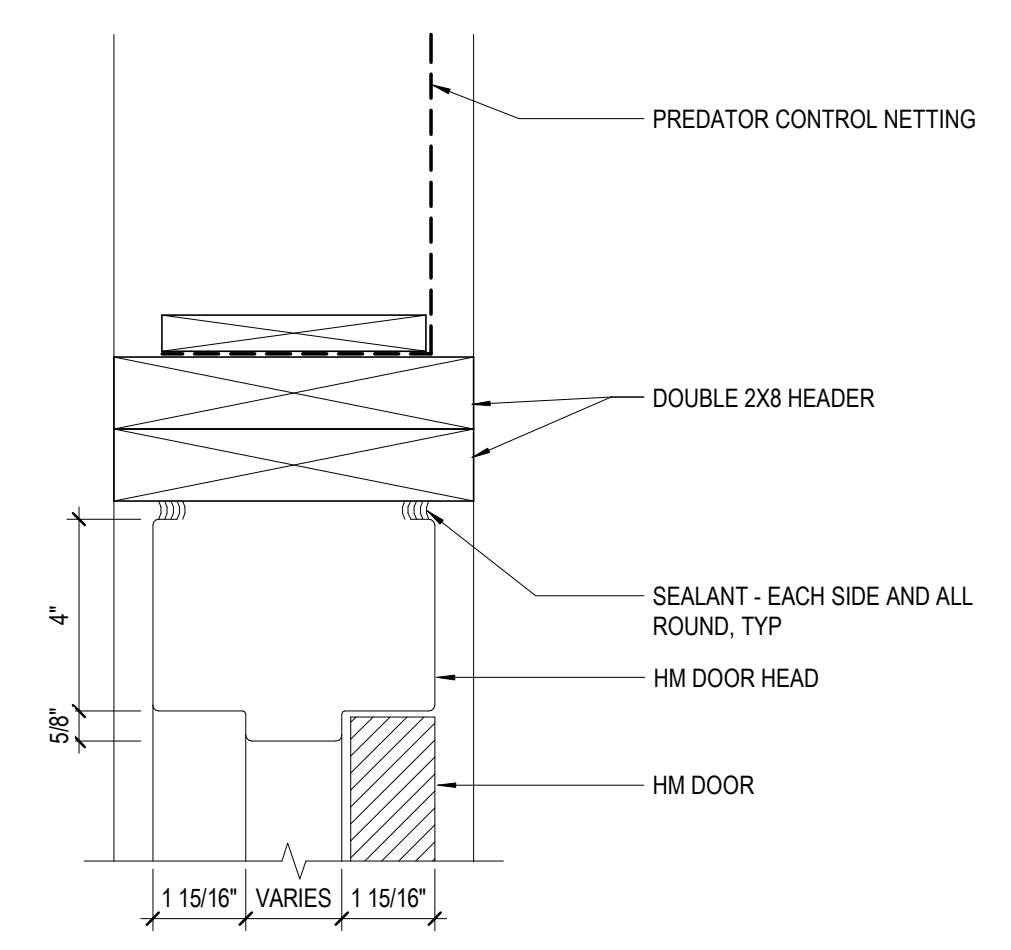
DOOR AND FRAME SCHEDULE																	
IDENTIFICATION				DIMENSIONS					PANEL		FRAME			FIRE RATING	HARDWARE GROUP	NOTES	
LEVEL	ROOM NO.	ROOM NAME	DOOR NO.	OPENING WIDTH			H	T	DOOR TYPE	Material	Finish	TYPE	Material				Finish
				W1	W2	Total Width											
T.O. SLAB	201	FEED STORAGE	2	3'-0"	3'-0"	6'-0"	7'-0"	2"	D03	METAL	PAINTED	F05	METAL	PAINTED	N/A	HW-2	FEED STORAGE - DOUBLE DOOR W/ LOUVERS
T.O. SLAB	202	FEED STORAGE	3	3'-0"	3'-0"	6'-0"	7'-0"	2"	D03	METAL	PAINTED	F05	METAL	PAINTED	N/A	HW-2	FEED STORAGE - DOUBLE DOOR W/ LOUVERS
T.O. SLAB	200	TANK ROOM	4	-	-	3'-0"	7'-0"	2"	D01	METAL	PAINTED	F01	METAL	PAINTED	N/A	HW-1	EXTERIOR PASSAGE DOOR
T.O. SLAB	200	TANK ROOM	7	-	-	10'-0"	12'-0"	2"	D02	METAL	PAINTED	F02	METAL	PAINTED	N/A		HARDWARE INCLUDED W/ OH DOOR
T.O. SLAB	200	TANK ROOM	13	-	-	10'-0"	12'-0"	2"	D02	METAL	PAINTED	F02	METAL	PAINTED	N/A		HARDWARE INCLUDED W/ OH DOOR
T.O. SLAB	200	TANK ROOM	11	-	-	3'-0"	7'-0"	2"	D01	METAL	PAINTED	F01	METAL	PAINTED	N/A	HW-1	EXTERIOR PASSAGE DOOR



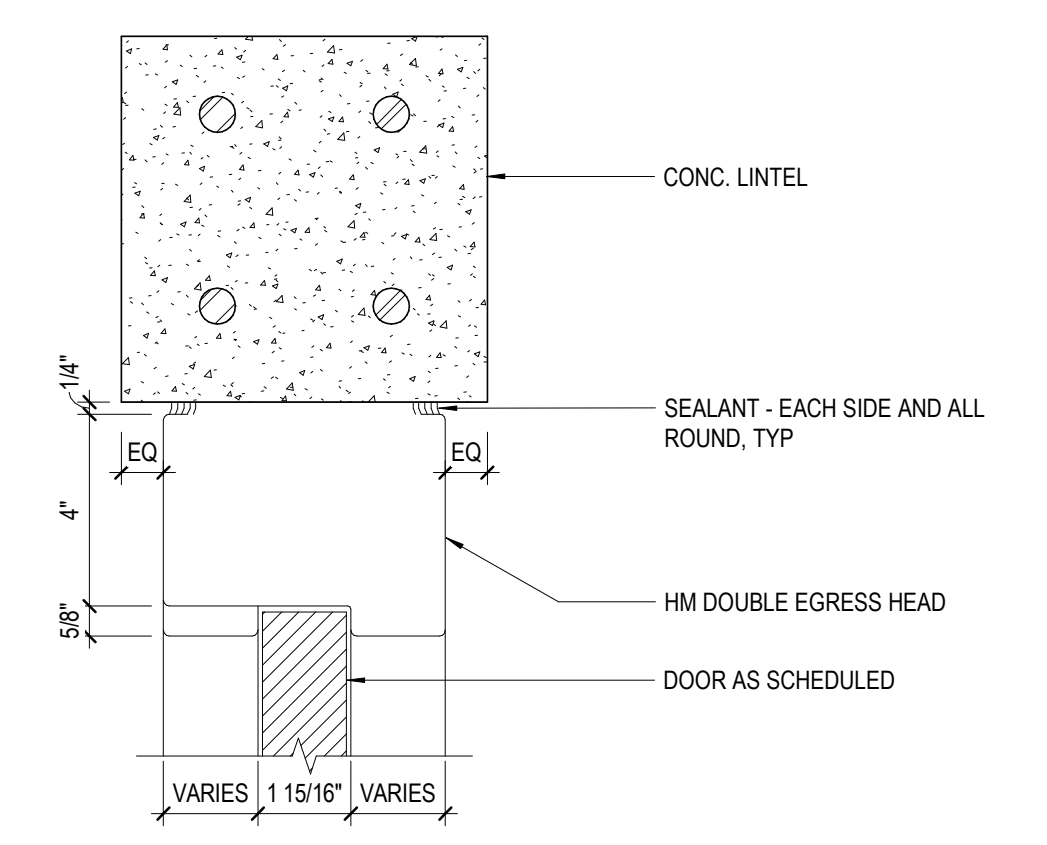
DOOR FRAME TYPES



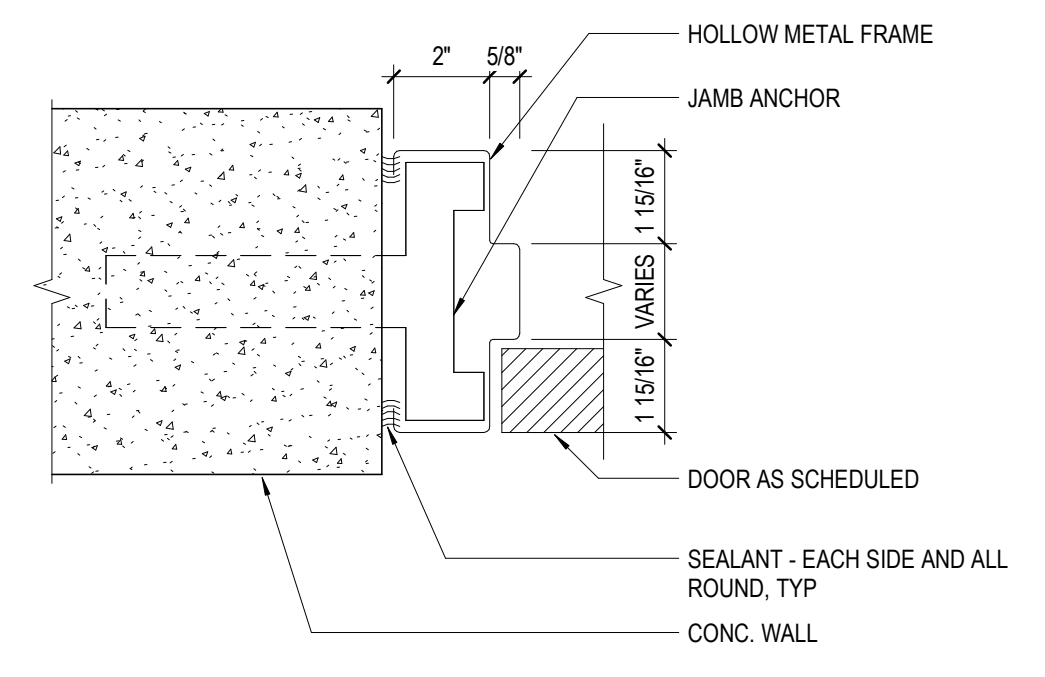
DOOR TYPES



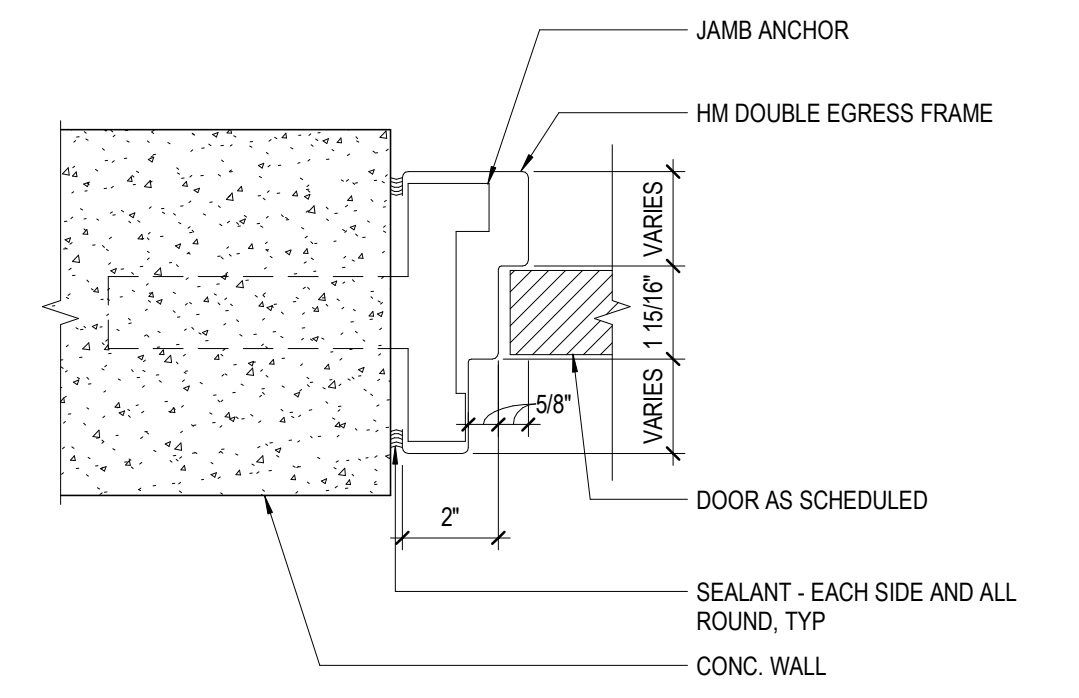
1 HM DOOR HEAD
3" = 1'-0"



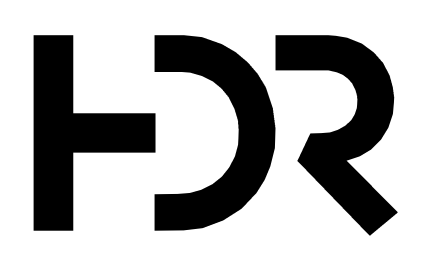
3 HM DOOR HEAD - DOUBLE EGRESS
3" = 1'-0"



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



4 HM DOOR JAMB - DOUBLE EGRESS
3" = 1'-0"



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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER PAVILION DOOR SCHEDULE & DETAILS



SHEET
02A-601

Autodesk Docs/10353741_MaineDIF_NewGloucester_Impr_2022/2022_10353741-A-Maine DIF_NewGloucester.rvt 5/21/2024 1:27:53 PM

1

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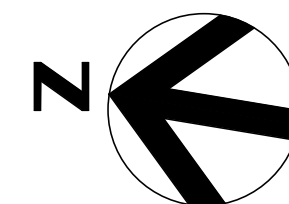
4

5

6

7

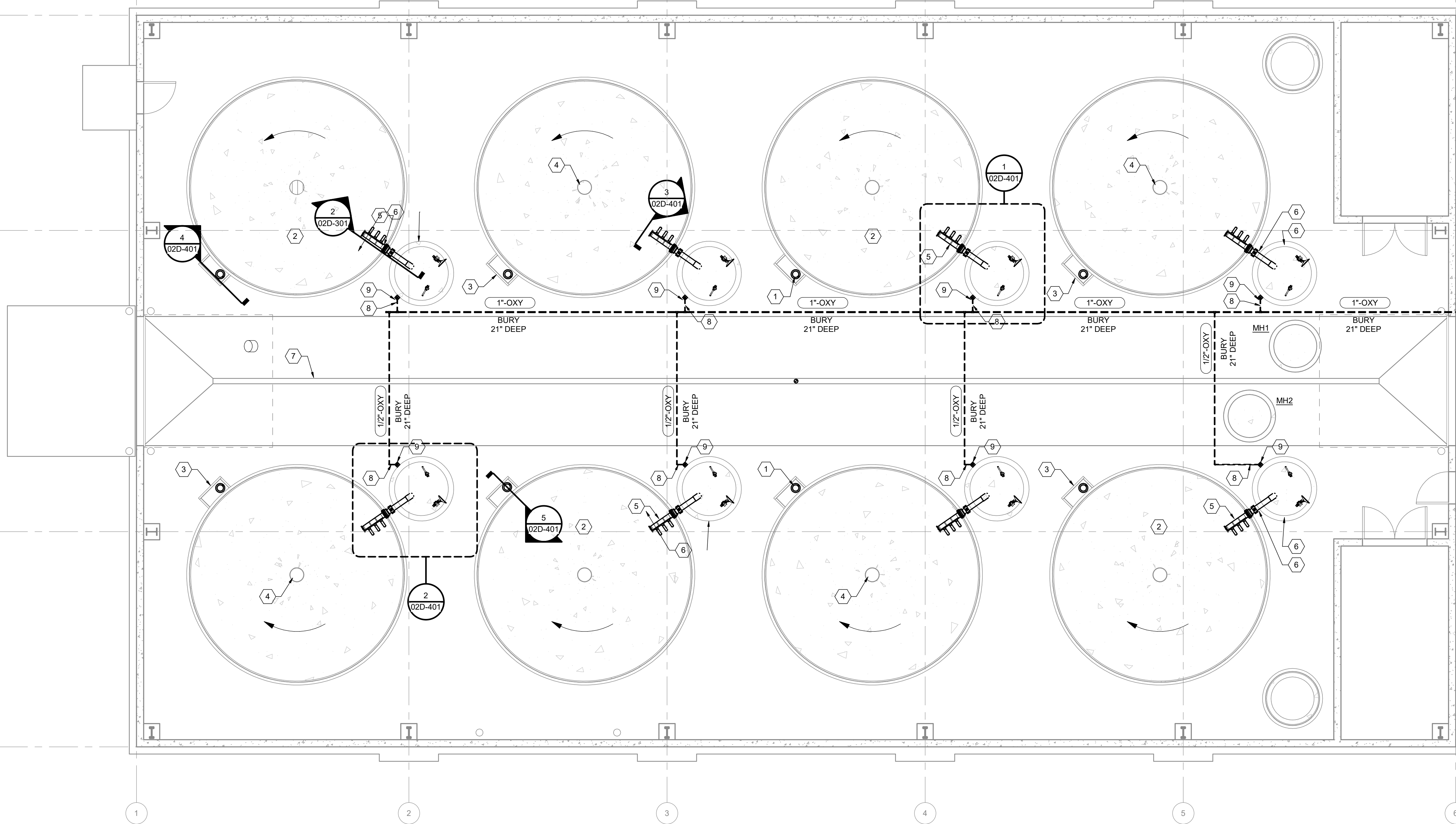
8



TRUE NORTH

KEYED NOTES #

- 1 TYP. 6" REMOVABLE OVERFLOW STANDPIPE FOR REUSE OF 85% OF TANK FLOW
- 2 TYP. 20' DIA. DUAL FLOW REARING TANK
- 3 TYP. SCREENED SIDE OVERFLOW BOX OF REARING TANK
- 4 TYP. BOTTOM DRAIN SUMP LEADS FLOW LADEN WITH SOLIDS TO DRUMFILTER (15% OF TANK FLOW)
- 5 TYP. 5" INLET HEADER
- 6 TYP. PIPING & 5'-0" ID VALVE BASIN PER SHEETS 02D-301/02D-401
- 7 4" INSIDE WIDTH PRE-MOLDED TRENCH DRAIN
- 8 1/2" OXY UP TO THORPE TYPE OXY METER
- 9 OXY METER



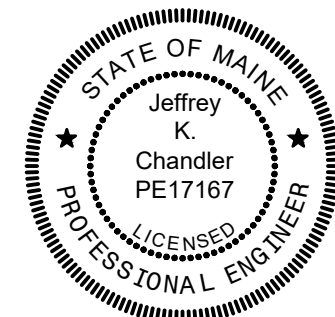
FOR CLARITY - BELOW FLOOR OXY PIPING IS SHOWN ON THIS SHEET.

0 2' 4' 8' 1 ABOVE FLOOR PROCESS PIPING PLAN 02D-101 3/16" = 1'-0"



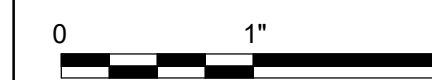
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



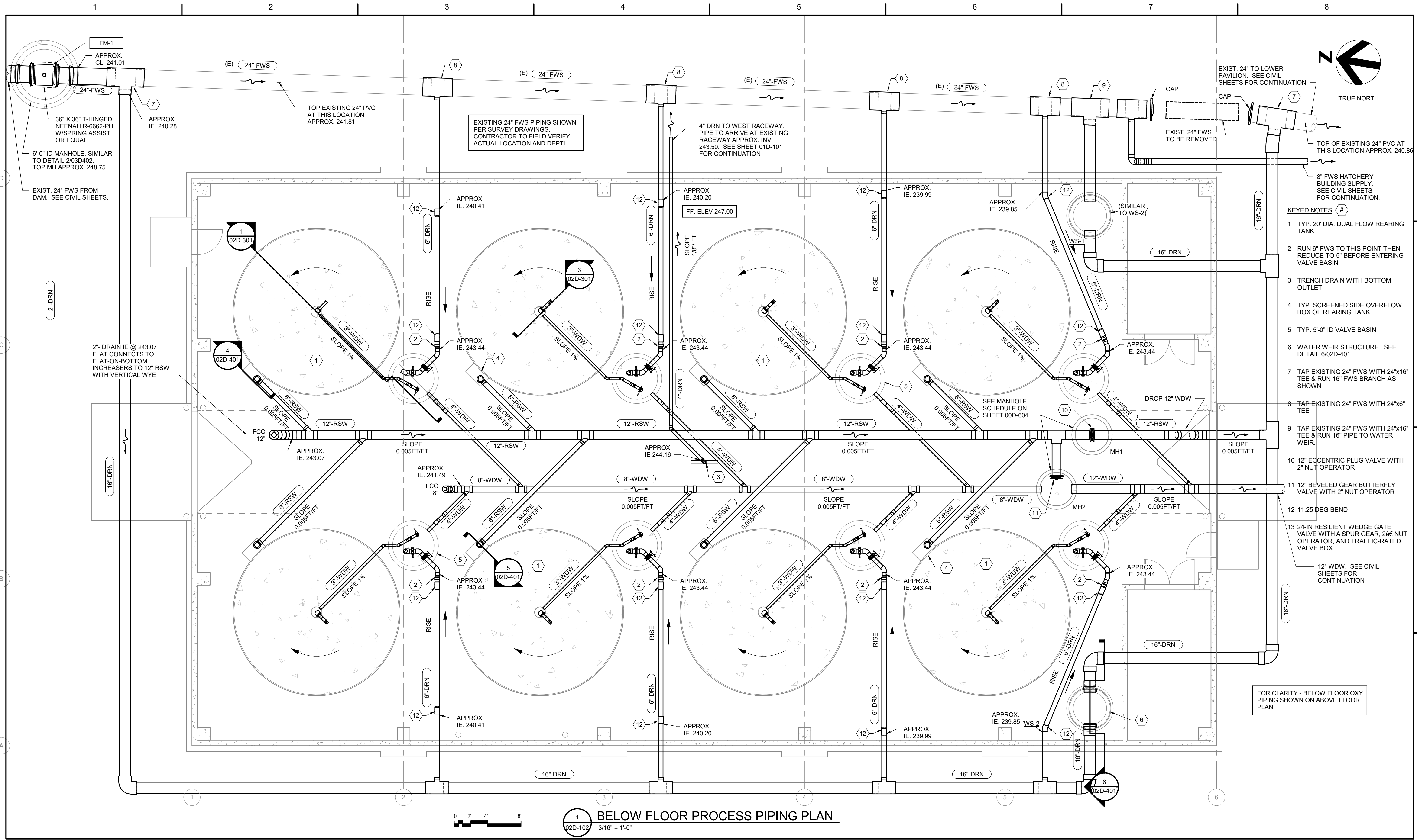
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER PAVILION ABOVE FLOOR PROCESS PIPING PLAN



FILENAME | 10353741-02-D.rvt
 SCALE | 3/16" = 1'-0"

SHEET
02D-101



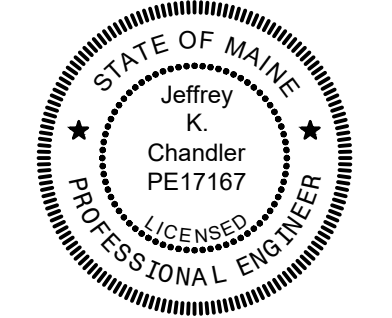
- KEYED NOTES**
- 1 TYP. 20" DIA. DUAL FLOW REARING TANK
 - 2 RUN 6" FWS TO THIS POINT THEN REDUCE TO 5" BEFORE ENTERING VALVE BASIN
 - 3 TRENCH DRAIN WITH BOTTOM OUTLET
 - 4 TYP. SCREENED SIDE OVERFLOW BOX OF REARING TANK
 - 5 TYP. 5'-0" ID VALVE BASIN
 - 6 WATER WEIR STRUCTURE. SEE DETAIL 6/02D-401
 - 7 TAP EXISTING 24" FWS WITH 24"x16" TEE & RUN 16" FWS BRANCH AS SHOWN
 - 8 TAP EXISTING 24" FWS WITH 24"x6" TEE
 - 9 TAP EXISTING 24" FWS WITH 24"x16" TEE & RUN 16" PIPE TO WATER WEIR
 - 10 12" ECCENTRIC PLUG VALVE WITH 2" NUT OPERATOR
 - 11 12" BEVELED GEAR BUTTERFLY VALVE WITH 2" NUT OPERATOR
 - 12 11.25 DEG BEND
 - 13 24-IN RESILIENT WEDGE GATE VALVE WITH A SPUR GEAR, 286 NUT OPERATOR, AND TRAFFIC-RATED VALVE BOX
- 12" WDW. SEE CIVIL SHEETS FOR CONTINUATION

1
02D-102
3/16" = 1'-0"
BELOW FLOOR PROCESS PIPING PLAN

PROJECT MANAGER ANDREW GURSKI

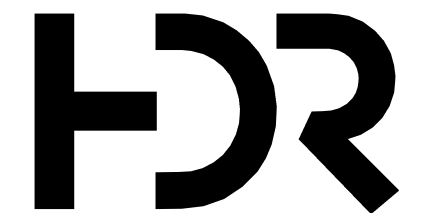
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER

PROJECT NUMBER 10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER PAVILION
BELOW FLOOR PROCESS PIPING PLAN

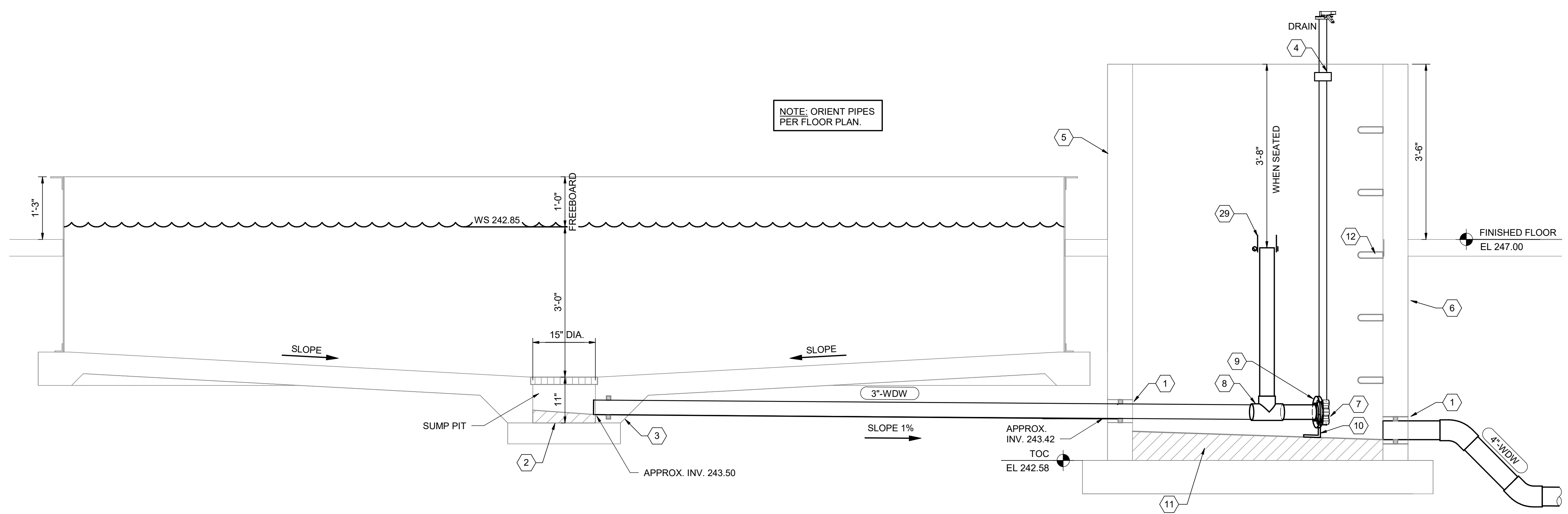


ISSUE	DATE	DESCRIPTION
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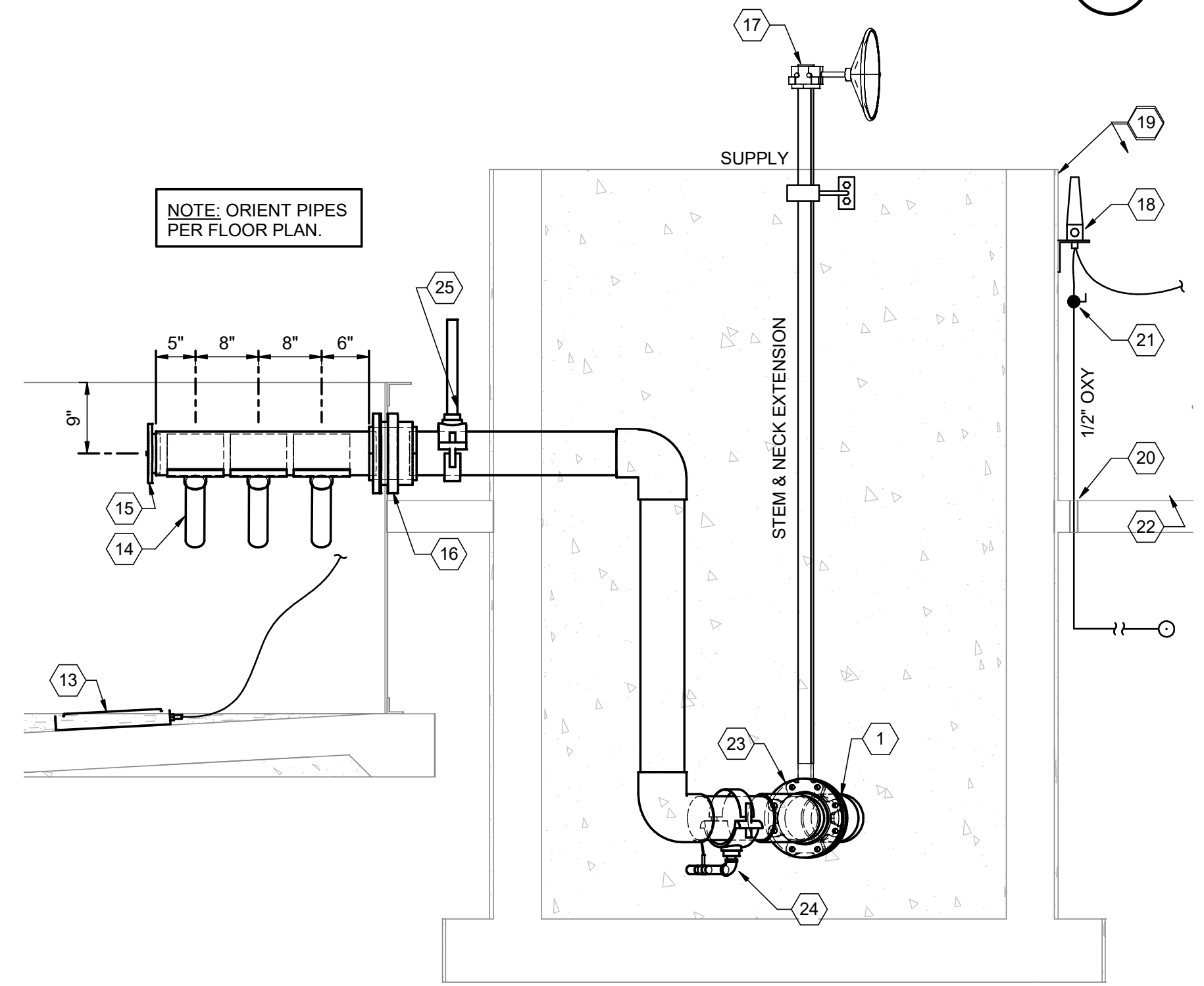
FILENAME 10353741-02-D.rvt
SCALE 3/16" = 1'-0"

SHEET
02D-102

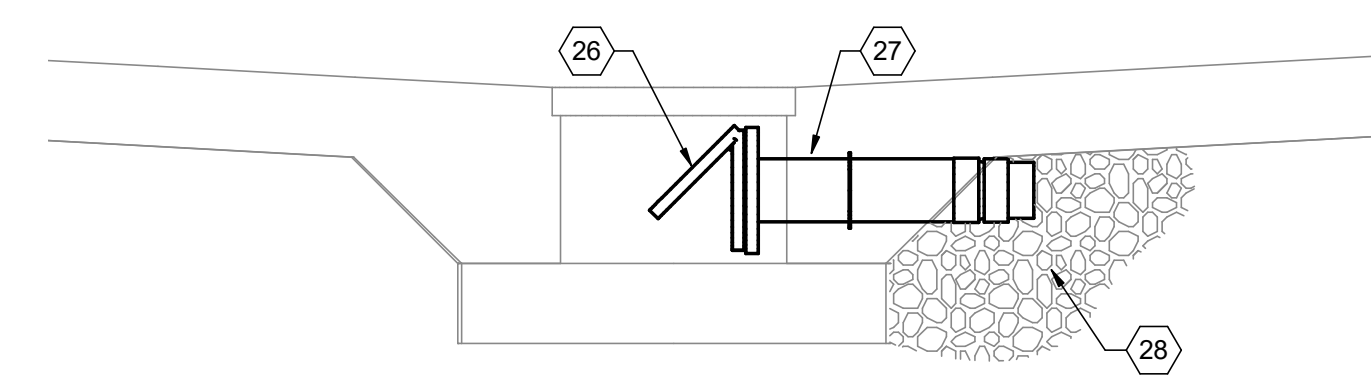
Autodesk Docs/10353741_Main/DWG_NewGloucester Impr_2022/10353741-02-D.rvt 5/16/2024 9:05:43 AM



0 6" 1" 2" **1 TANK DRAIN PIPING SECTION**
02D-102 3/4" = 1'-0"



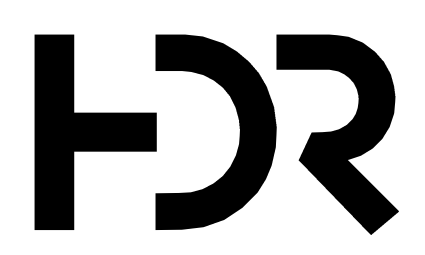
0 6" 1" 2" **2 TANK SUPPLY PIPING SECTION**
02D-101 3/4" = 1'-0"



0 6" 1" 2" **3 PAVILION HYDROSTATIC PRESSURE RELIEF SECTION**
02D-301 1" = 1'-0"

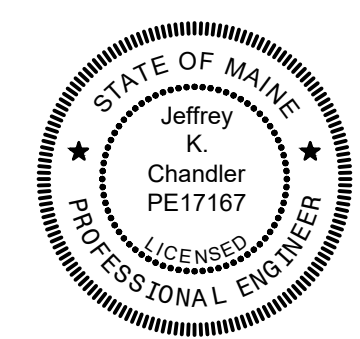
- KEYED NOTES**
- 1 LINKAGE TYPE SEAL
 - 2 SLOPE GROUT TO DRAIN
 - 3 FIELD APPLIED NON-SWELLING WATERSTOP
 - 4 GALV. OR SS VALVE & NECK SUPPORT 2" CLEAR BELOW MANHOLE RIM FOR EACH VALVE
 - 5 VALVE BASIN
 - 6 TOPLESS MANHOLE WITH STEPS & CLEAN, SMOOTH OVER SURFACE
 - 7 BUTTERFLY VALVE WITH STEM & NECK EXTENSION
 - 8 SCH 40 PVC TEE SHOWN WITHOUT UPSTREAM 30 DEGREE BEND FOR CLARITY, INCLUDE BEND & ORIENTATE PER PLANS ON SHEET 02D-401.
 - 9 PVC ONE-PIECE SOCKET FLANGE
 - 10 SUPPORT FLANGE OR PIPE TO GROUT W/ SS HARDWARE
 - 11 GROUT SLOPED ALL AROUND TO DRAIN
 - 12 MANHOLE STEPS
 - 13 CERAMIC OXYGEN DIFFUSER
 - 14 9" LENGTH OF 2" SCH 40 PVC
 - 15 EXPANSION PLUG
 - 16 TANK ADAPTER: SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK) & 6"x5" REDUCING BUSHINGS BOTH SIDES
 - 17 WEATHERPROOF GEAR OR LEVER WITH AT LEAST 13 POSITIONS WITHOUT WING NUTS & WITHOUT SET SCREWS
 - 18 BRACKET MOUNTED THORPE STYLE OXYGEN METER (0-7 SLPM) WITH TOP 1" B.T.O.C., SHOWN ON OPPOSITE SIDE FOR CLARITY, LOCATE PER PLAN
 - 19 HOSE TO OXY DIFFUSER
 - 20 TYP. PIPE PENETRATION THRU FLOOR
 - 21 CONNECT ISOLATION BALL VALVE TO METER WITH ADAPTERS AND HOSE OR COPPER PIPE
 - 22 1" OXY MAIN APPROX. 21" BELOW FLOOR
 - 23 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
 - 24 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
 - 25 5" PVC SADDLE TAP W/ 1" SIGHT GLASS.
 - 26 3" HYDROSTATIC PRESSURE RELIEF VALVE EQUAL TO PENN-TROY A2580.
 - 27 FLANGED WALL PIPE W/ ANTI-SEEP RING & SCREEN.
 - 28 MINIMUM 2'-6"x2'-6"x2'-6" CLEAN CRUSHED STONE WRAPPED IN GEOTEXTILE FABRIC CENTERED ON PRESSURE RELIEF VALVE PIPE
 - 29 ELASTOMERIC COUPLING

Autodesk Docs/10353741_Main/DIF_NewGloucester Impr_2022/10353741-02-D.rvt 5/16/2024 9:05:35 AM



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CIVIL	J. GAGNON
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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



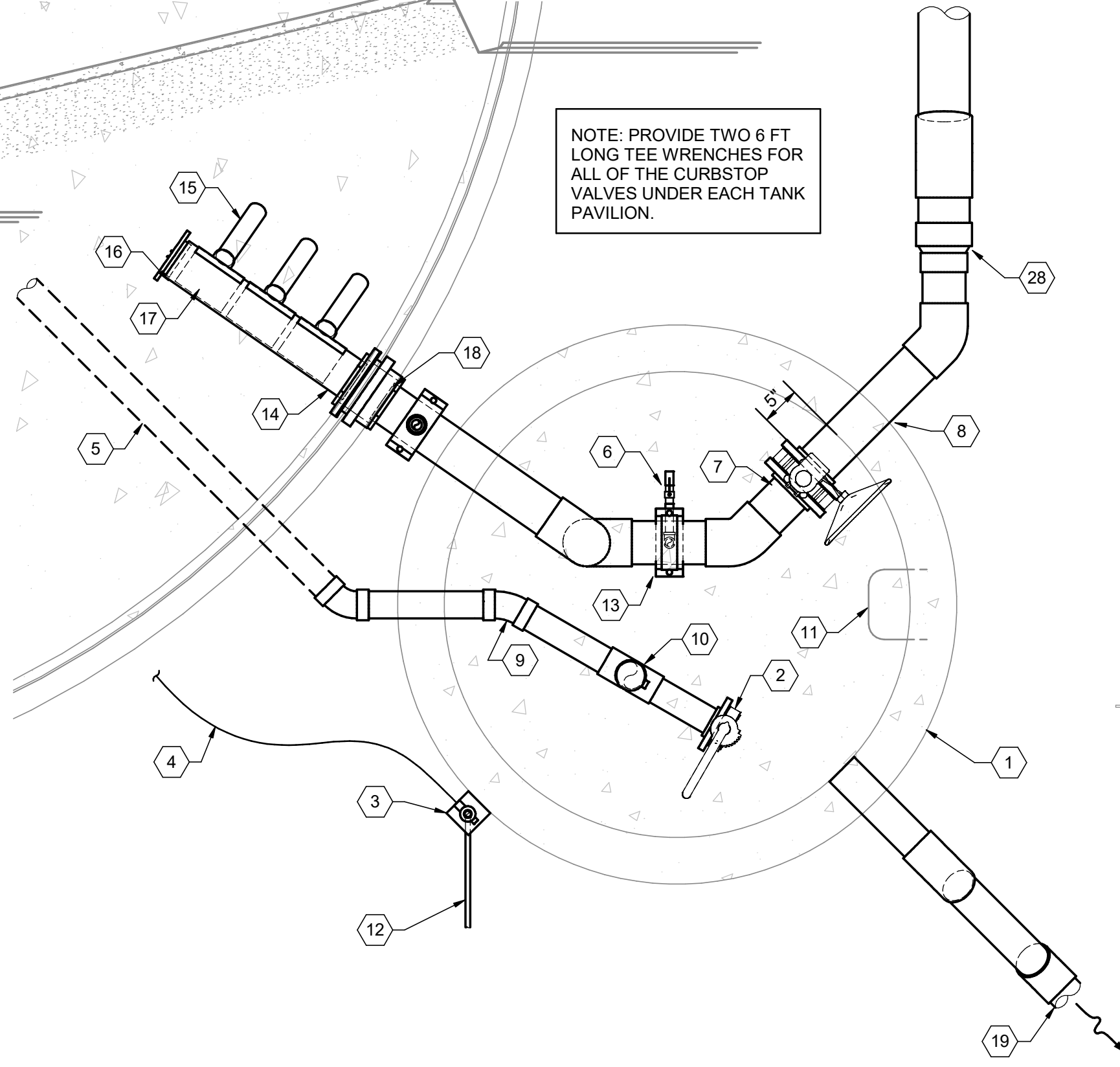
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER PAVILION TANK SECTIONS

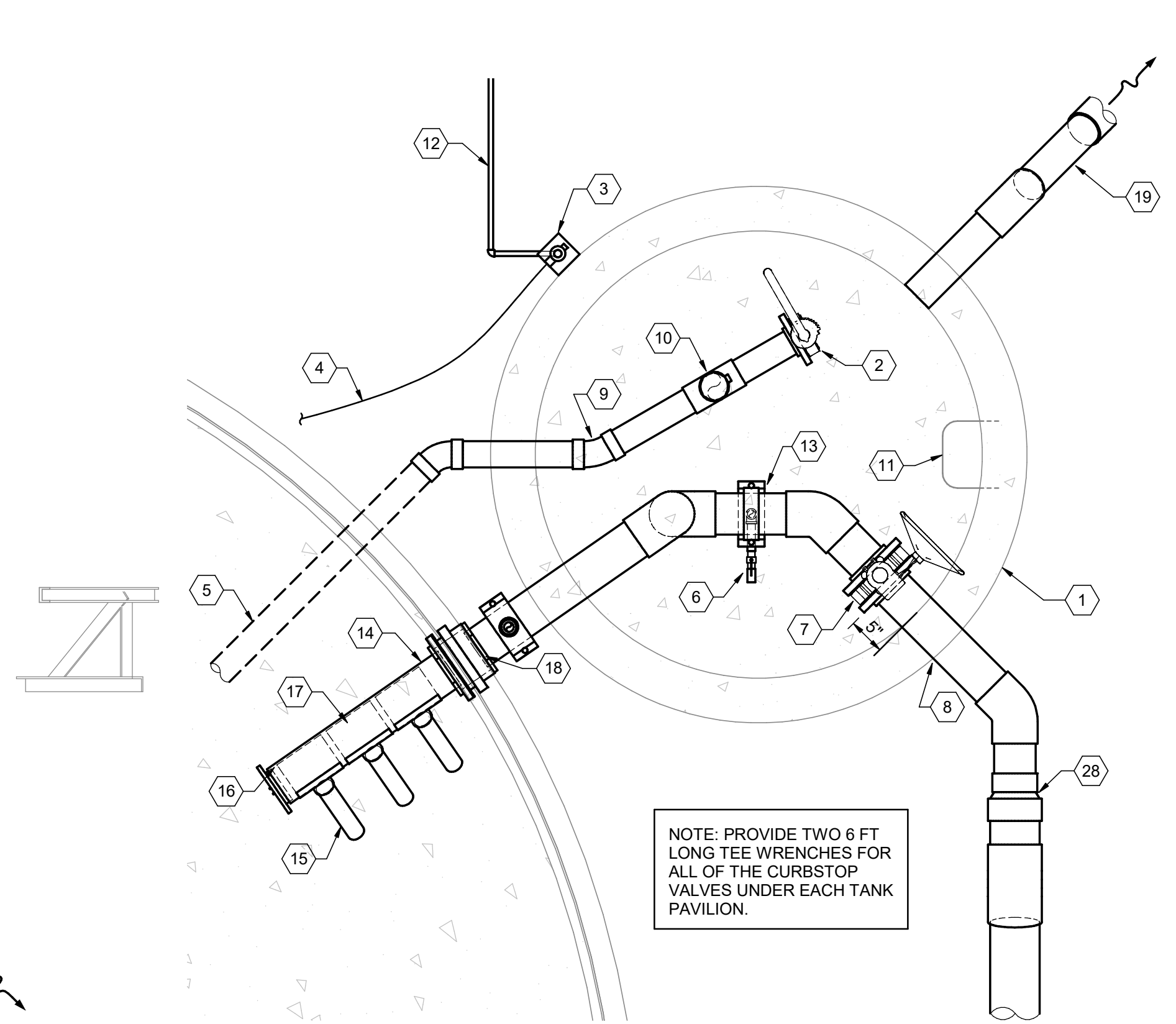
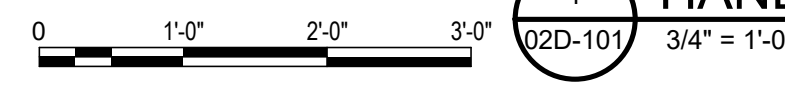


FILENAME | 10353741-02-D.rvt
SCALE | As indicated

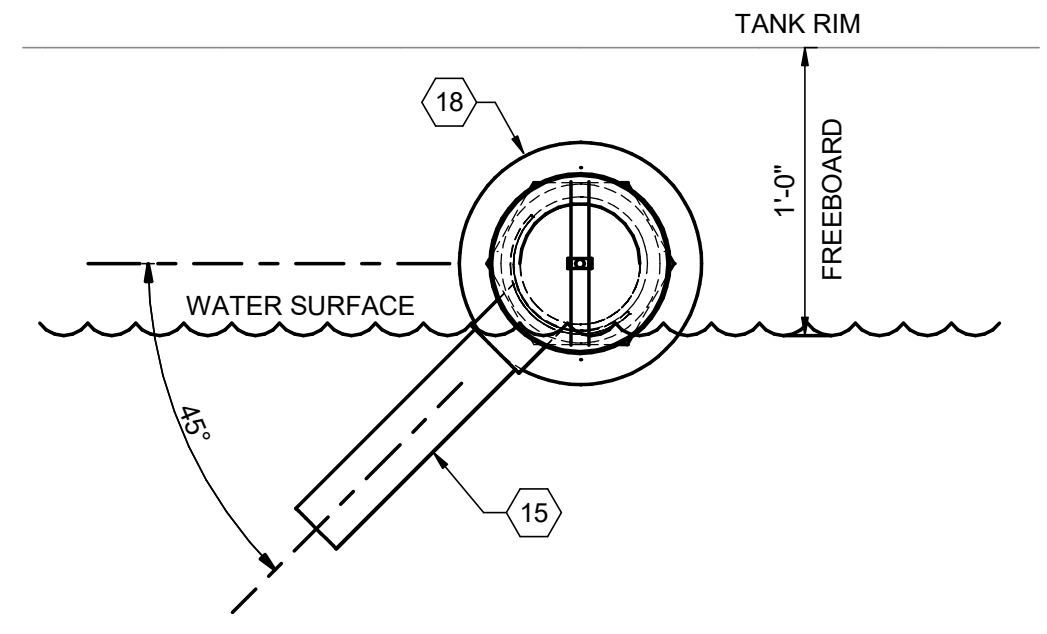
SHEET
02D-301



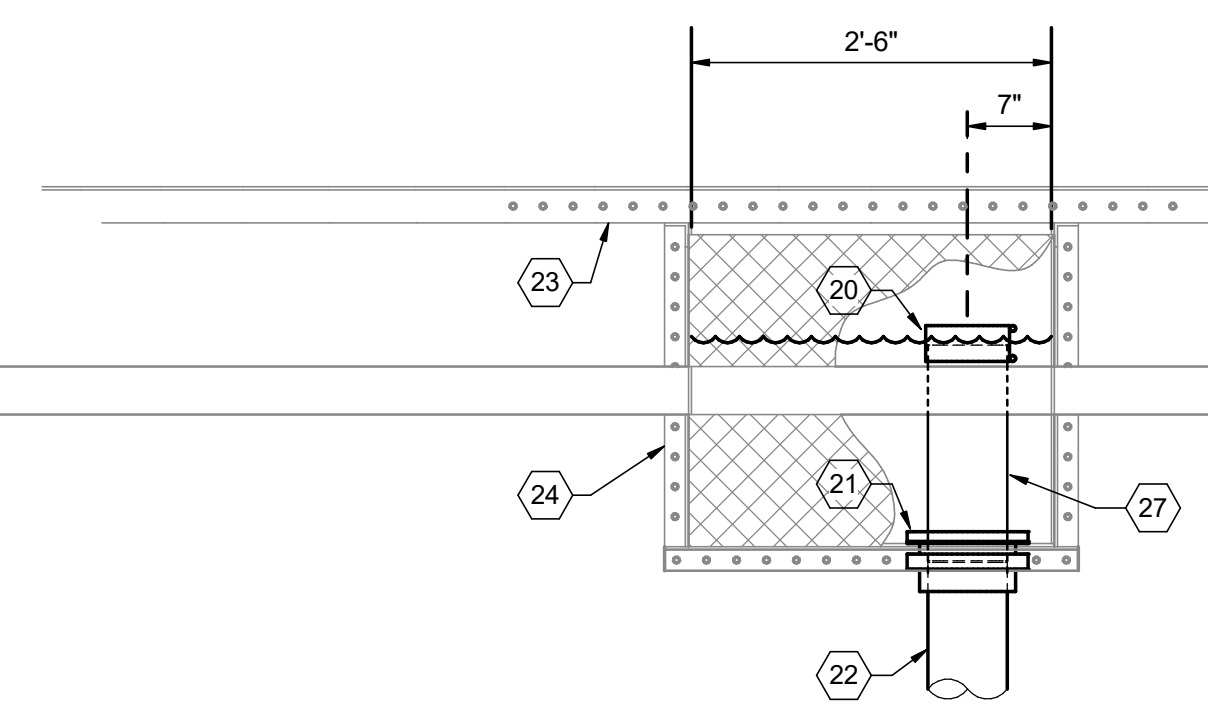
1 ENLARGED UPPER PAVILION LEFT HANDED VALVE BASIN PLAN
02D-101 3/4" = 1'-0"



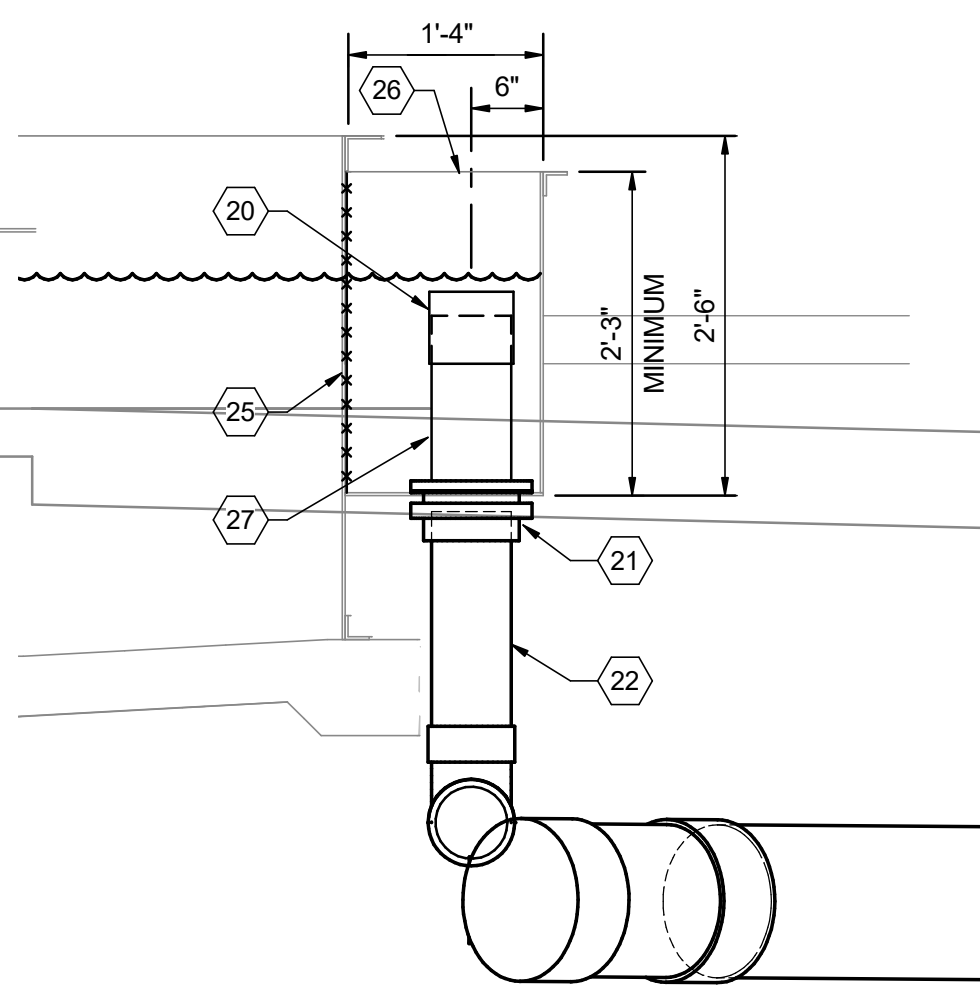
2 ENLARGED UPPER PAVILION RIGHT HANDED VALVE BASIN PLAN
02D-101 3/4" = 1'-0"



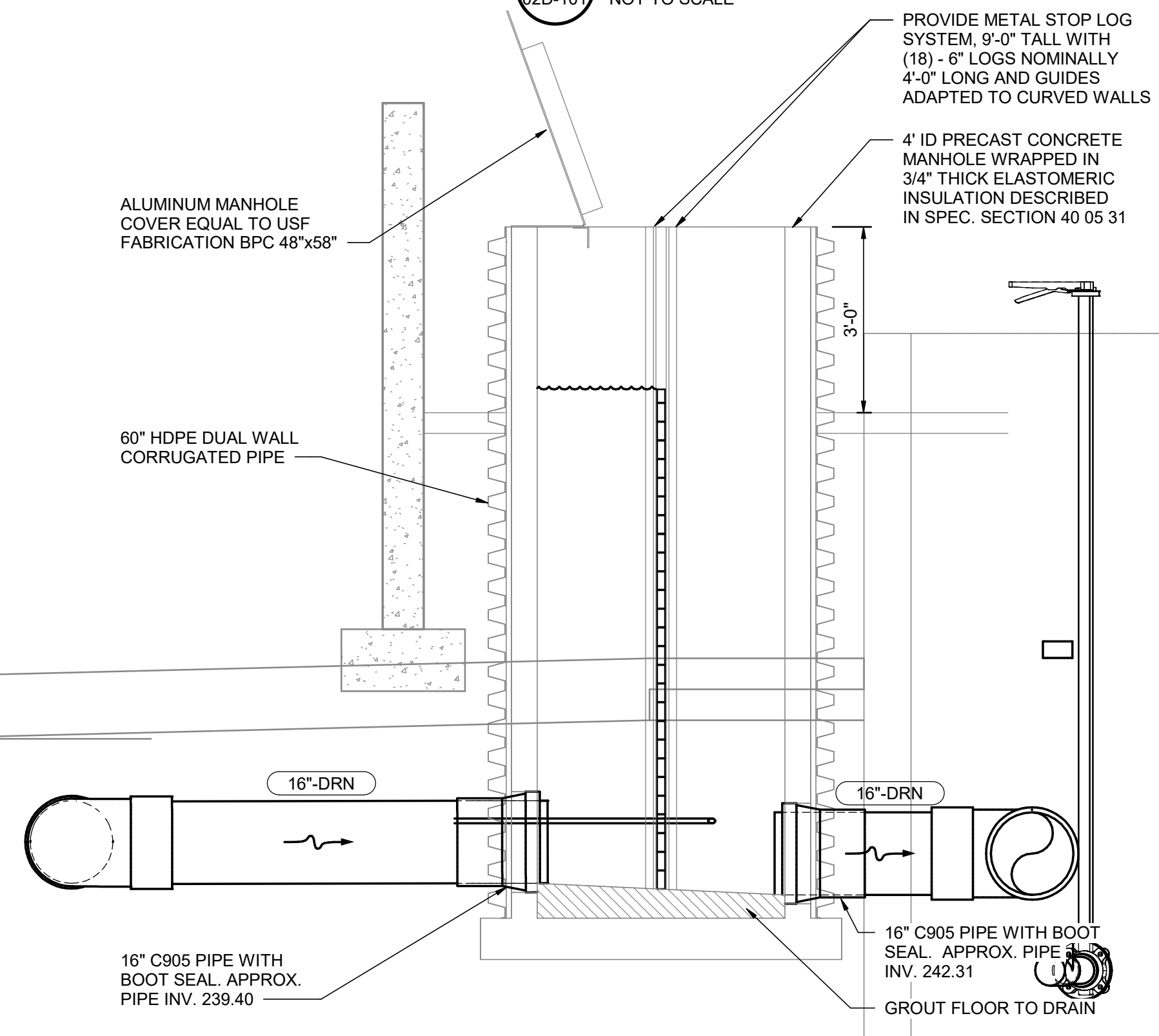
3 SUPPLY HEADER END SECTION
02D-101 NOT TO SCALE



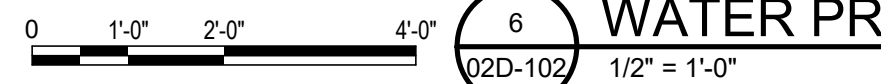
4 TANK OVERFLOW DETAIL
02D-101 NOT TO SCALE



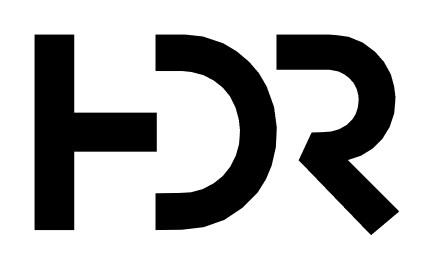
5 TANK OVERFLOW SECTION
02D-101 NOT TO SCALE



6 WATER PRIORITIZATION WEIR STRUCTURE (WPWS-2) SECTION
02D-102 1/2" = 1'-0" * (WPWS-1 SIMILAR)

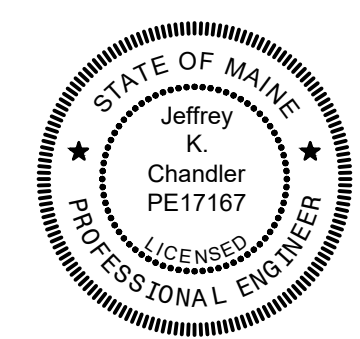


- KEYED NOTES (#)**
- 1 TYP. 5'-0" ID VALVE BASIN
 - 2 BUTTERFLY VALVE WITH STEM & NECK EXTENSION
 - 3 OXY METER
 - 4 HOSE TO OXYGEN DIFFUSER
 - 5 3" DRAIN & OW FROM FISH TANK
 - 6 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
 - 7 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
 - 8 DUCTILE IRON PIPE THRU LINKAGE SEAL
 - 9 30 DEGREE BEND CLOSE TO WALL
 - 10 TEE CLOSE TO BEND WITH STANDPIPE FOR OVERFLOW/LEVEL CONTROL
 - 11 MANHOLE STEPS
 - 12 BURIED 1/2" OXY
 - 13 SCH 40 PVC PIPE WITH METAL SERVICE SADDLE WITH FEMALE THREADED 3/4" OUTLET DOWN. TURN CURBSTOP VALVE WITH GALV. STEEL STREET EL.
 - 14 5" SUPPLY TO FISH TANK
 - 15 9" LENGTH OF 2" SCH 40 PVC
 - 16 EXPANSION PLUG
 - 17 5x2 SCH 40 GLUE-ON SADDLE
 - 18 TANK ADAPTER: SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK) & 6"x5" REDUCING BUSHINGS BOTH SIDES
 - 19 4" WDW BRANCH TO 12" WDW MAIN
 - 20 RUBBER COUPLING
 - 21 16" PVC BULKHEAD/ TANK ADAPTER (SOCKET & SOCKET)
 - 22 6" RSW BRANCH, CONTINUE TO 12" RSW MAIN
 - 23 TANK TOP FLANGE
 - 24 SIDE BOX FLANGE
 - 25 SCREEN
 - 26 FLANGED SS WATERTIGHT OPEN TOPPED BOX BY TANK MANUFACTURER BOLTED TO MATCHING OPENING IN TANK WALL WITH 16 GAGE SS PERFORATED SCREEN (1/4" HOLES, 58% OPEN AREA) SANDWICHED WITH GASKETS BETWEEN TANK AND BOX FLANGES. FOR EACH TANK ALSO FURNISH A LOOSE 18 GAGE SS PERFORATED SCREEN (5/32" HOLES, 64% OPEN AREA) FOR MDGIF TO TEMPORARILY TIE TO UNSANDWICHED AREA OF 16 GAGE SCREEN
 - 27 REMOVABLE STANDPIPE, DO NOT SOLVENT CEMENT
 - 28 6"x5" REDUCER



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PROCESS	J. CHANDLER
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ELECTRICAL	A. KANER



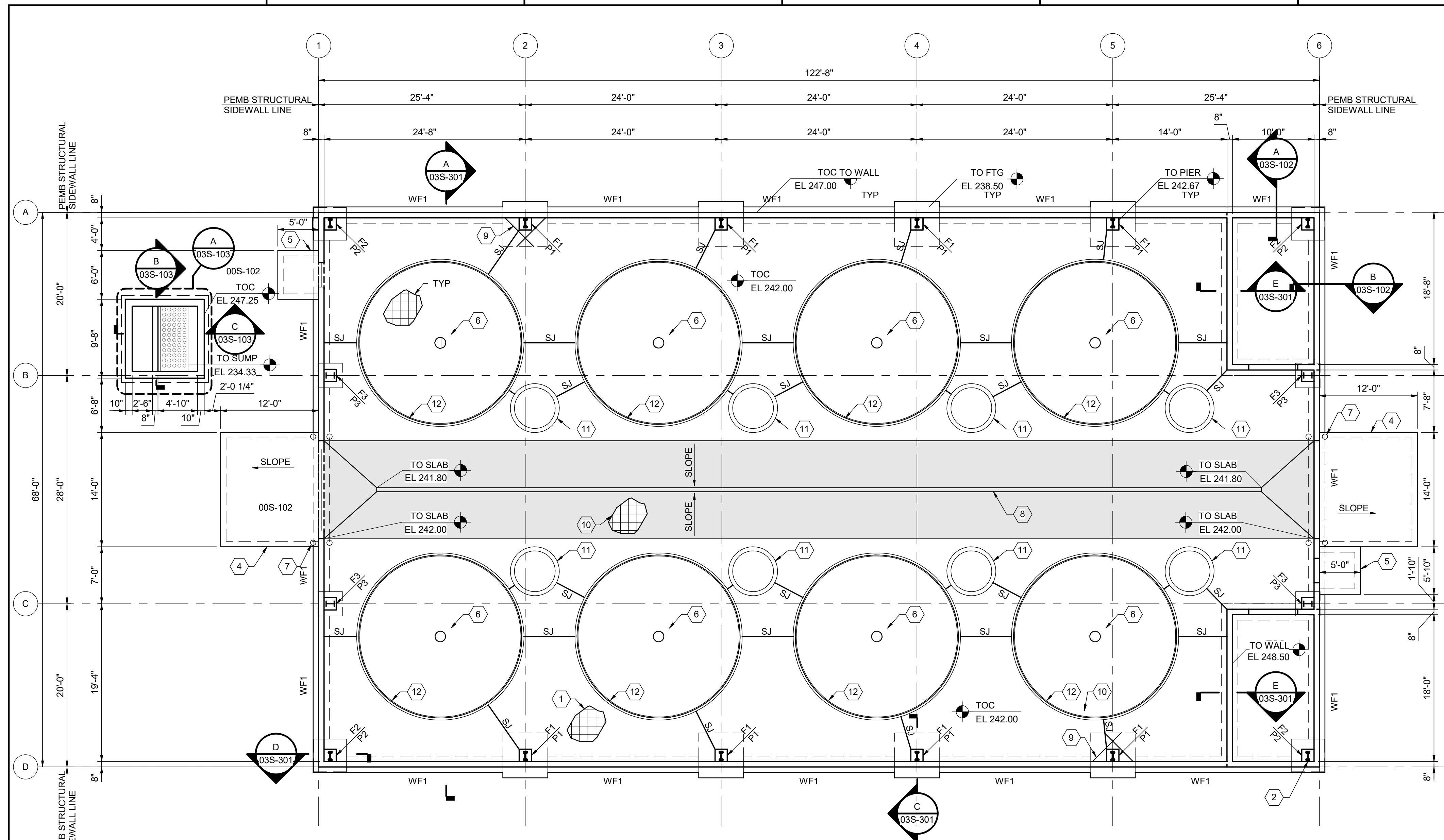
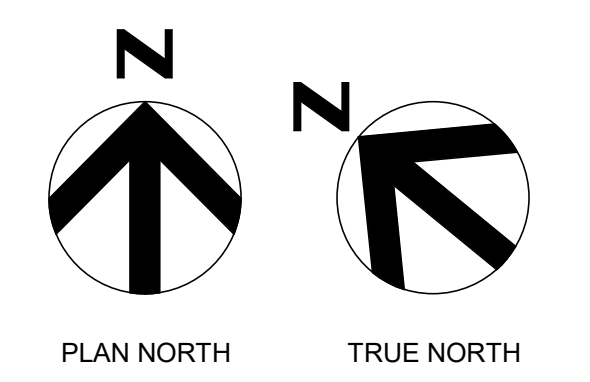
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

UPPER PAVILION ENLARGED PLANS & DETAILS

FILENAME 10353741-02-D.rvt
SCALE As indicated

SHEET
02D-101

Autodesk Docs/10353741_Main/DJF_New/Gloucester_imp_202210353741-02-D.rvt 5/16/2024 9:05:30 AM



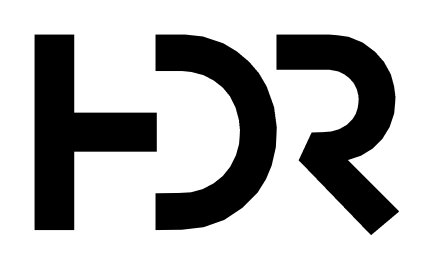
- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
 - SEE SHEETS 00S-101 THROUGH 00S-104 FOR TYPICAL STRUCTURAL DETAILS.
 - COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. (PEMB)
 - REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.

- KEYNOTES: #**
- 4" CONCRETE SLAB WITH #4@12" OC, EW MID-DEPTH IN SLAB OVER COMPACTED CLEAN FREE-DRAINING GRANULAR FILL.
 - COLUMNS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 - PRECAST WATER CONTROL STRUCTURE, SEE PLUMBING DRAWINGS.
 - CONCRETE APPROACH SLAB AT OVERHEAD DOOR. SEE DETAIL 3/00S-102.
 - CONCRETE STOOP, SEE DETAIL 5/00S-102. STOOP GRADE BEAM SHALL BE TIED INTO PERIMETER GRADE BEAM.
 - SEE SHEET 03S-104 FOR TANK SLAB.
 - 8" DIAMETER SCHEDULE 40 STEEL PIPE BOLLARD FILLED WITH CONCRETE (PAINT YELLOW), TYPICAL OF 8. SEE DETAIL 5/03S-302.
 - PREMOLDED TRENCH DRAIN, SEE PLUMBING DRAWINGS.
 - (2) #4x5'-0" LONG CAST IN SLAB AT ALL RE-ENTRANT CORNERS. PLACE BARS 2" FROM CORNER. BEND BARS AS NECESSARY FOR PROPER PLACEMENT.
 - 8" CONCRETE SLAB WITH #4@12" OC EACH WAY OVER COMPACTED FILL. (DRIVE AILES SHOWN SHADED).
 - PRECAST CONCRETE MANHOLE. SEE PROCESS SHEETS.
 - 20'-0" DIA. STEEL TANK. SEE PROJECT SPECIFICATIONS.

FOUNDATION PLAN
1/8" = 1'-0"

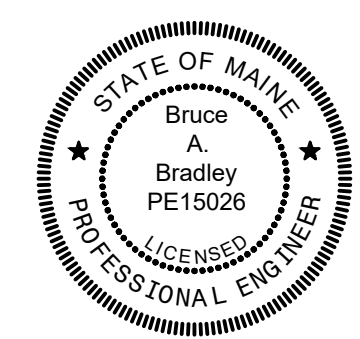
FOOTING SCHEDULE - TANK PAVILION					
TYPE	SIZE	REINFORCEMENT	T.O. FOOTING ELEVATION	T.O. PIER ELEVATION	REMARKS
F1	5'-6"x5'-6"x1'-2"	(7)#6 EACH WAY BOTTOM	238.50'	242.67'	SEE DETAIL 1/03S-302
F2	4'-0"x4'-0"x1'-2"	(5)#6 EACH WAY BOTTOM	238.50'	242.67'	SEE DETAIL 2/03S-302
F3	3'-0"x3'-0"x1'-2"	(4)#6 EACH WAY TOP & BOTTOM	238.50'	242.67'	SEE DETAIL 3/03S-302
WF1	2'-0"x1'-0"x CONT.	(3)#5 CONTINUOUS	238.50'	NA	SEE DETAIL 1/03S-302

FOOTING SCHEDULE
1/4" = 1'-0"

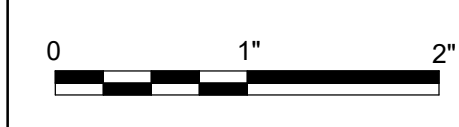


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NEW GLOUCESTER STATE FISH HATCHERY
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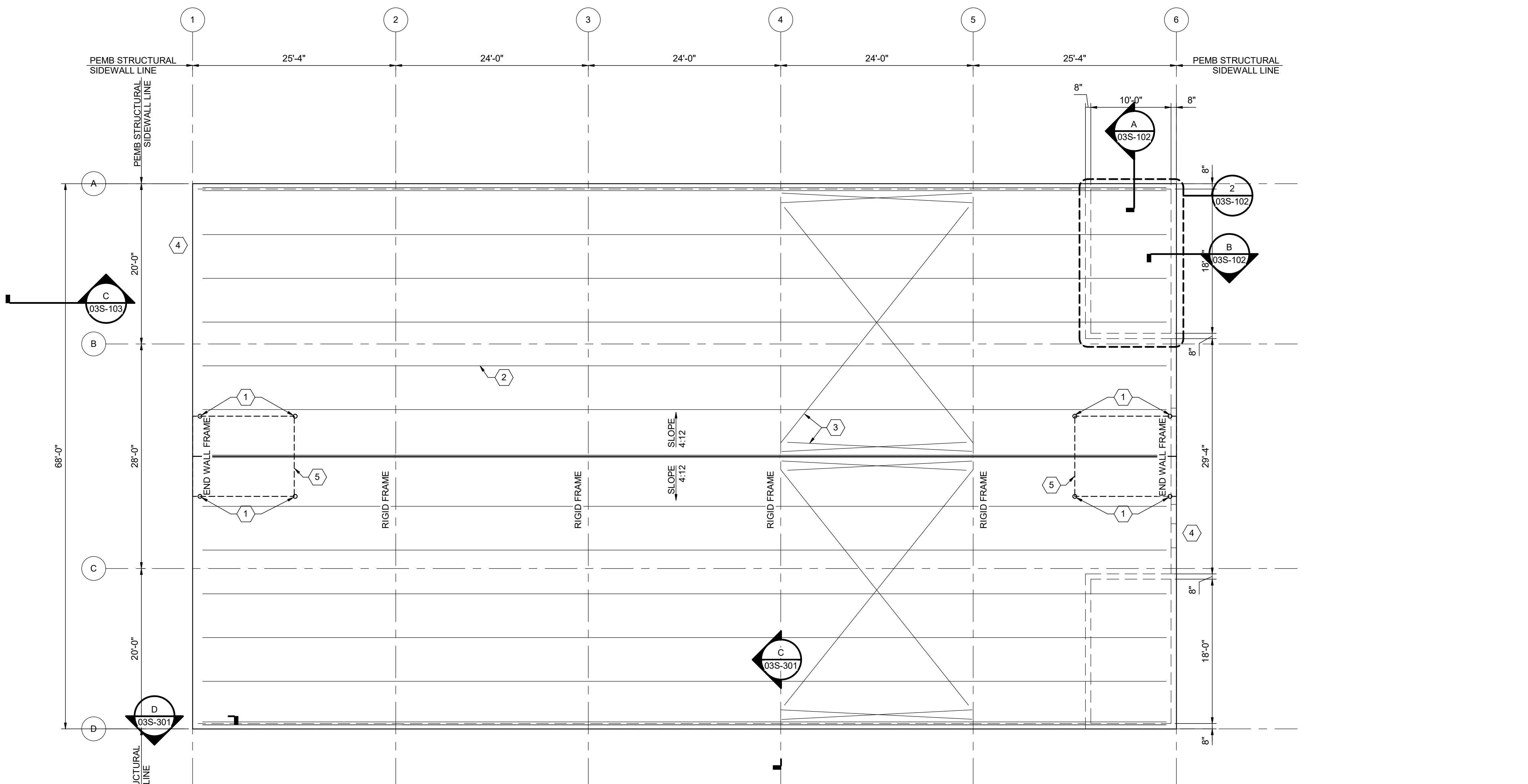
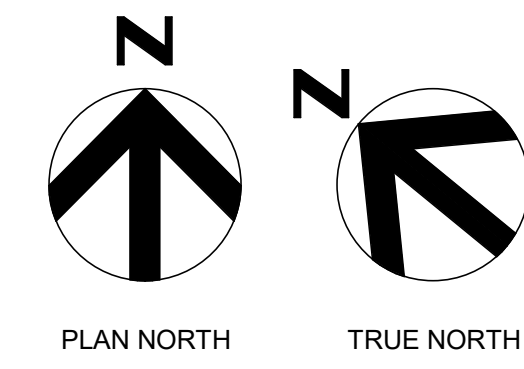


LOWER PAVILION FOUNDATION PLAN

FILENAME | 10353741-03-S.rvt
SCALE | As indicated

SHEET
03S-101

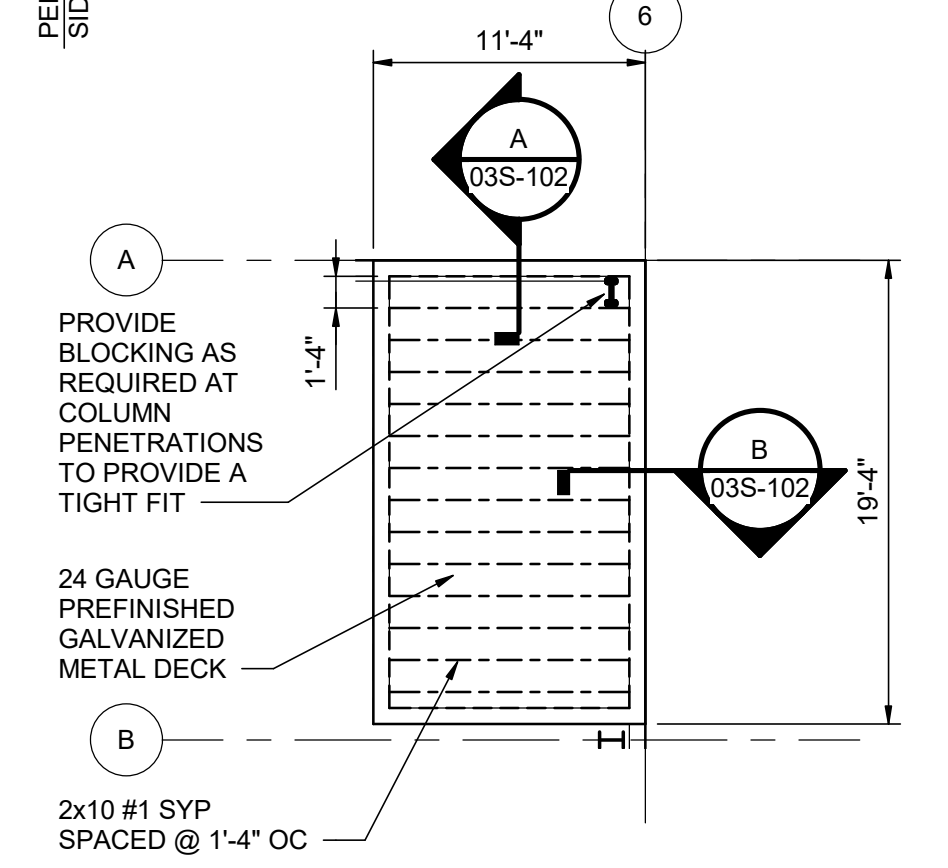
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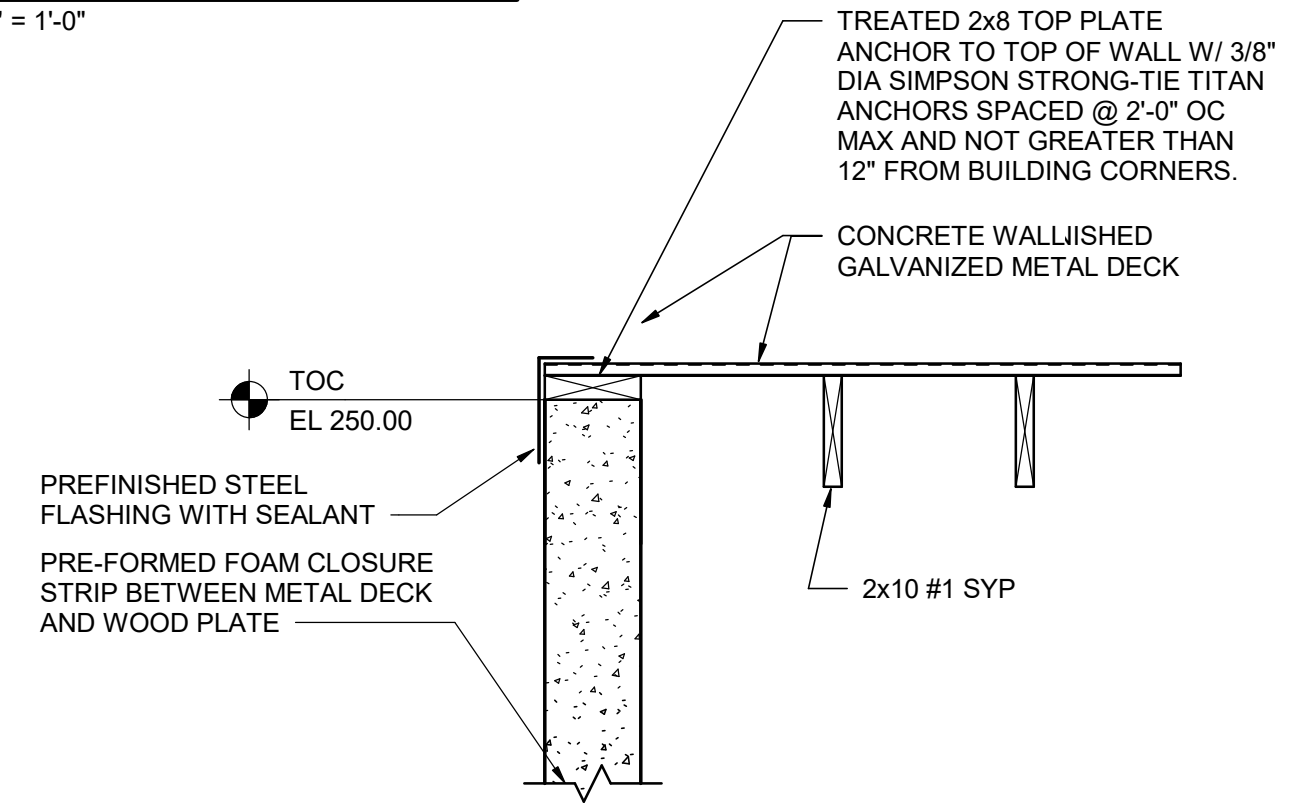
- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR DESIGN STANDARDS AND BUILDING CODE INFORMATION.
 - SEE SHEET 00S-001 FOR DESIGN LOADS.
 - PIER CONFIGURATIONS ARE AS INDICATED ON SHEET 03S-302. IF THESE CONFIGURATIONS ARE NOT COMPATIBLE TO THE PEMB DESIGN THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SUCH THAT MODIFICATIONS CAN BE MADE PRIOR TO PIER REINFORCEMENT FABRICATION AND CONSTRUCTION.
 - GENERAL ASSUMPTIONS HAVE BEEN MADE BY THE STRUCTURAL ENGINEER FOR THE FOUNDATION DESIGN. THE GENERAL CONTRACTOR AND PEMB SHALL SUBMIT FRAME REACTIONS TO THE ENGINEER FOR VERIFICATION WITH THE FOUNDATIONS SHOWN. ADJUSTMENTS MAY BE REQUIRED IN THE FIELD PRIOR TO CONSTRUCTION. ANY CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
 - FRAME REACTIONS AND ANCHOR BOLT SETTING PLAN SHALL BE SUBMITTED TO THE ENGINEER CONCURRENTLY WITH THE CONCRETE REINFORCEMENT SHOP DRAWINGS FOR REVIEW AND APPROVAL. ANY CHANGES REQUIRED SHALL BE MADE AT NO ADDITIONAL COST TO THE PROJECT.
 - THE PEMB SHALL DESIGN ALL ANCHOR BOLTS. ANCHOR BOLT SIZES SHALL BE FURNISHED TO THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANCHOR BOLTS.
 - ALL RIGID FRAMES SHALL HAVE PINNED CONNECTIONS TO THE FOUNDATION.
 - COLUMN BASE PLATES SHALL BE LEVELED WITH LEVELING NUTS OR SHIMS AND GROUTED SOLID WITH 2" NON-SHRINK GROUT.
 - PEMB AND CONTRACTOR SHALL PROVIDE BRACING AS NECESSARY TO MAINTAIN FLAT AND LEVEL GIRTS DURING BUILDING ERECTION.

- KEYNOTES:** #
- DENOTES APPROXIMATE POINT LOAD LOCATIONS FOR OVERHEAD DOOR TRACK. GENERAL CONTRACTOR SHALL COORDINATE WEIGHT AND LOCATION WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 - PURLIN SIZE, SPACING AND MATERIAL PROVIDED BY MBM.
 - ANTICIPATED LOCATION OF CROSS BRACING IN ROOF AND WALLS.
 - MANDOOR FRAMING PROVIDED AND INSTALLED BY MBM.
 - OVERHEAD DOOR FRAMING PROVIDED AND INSTALLED BY MBM.

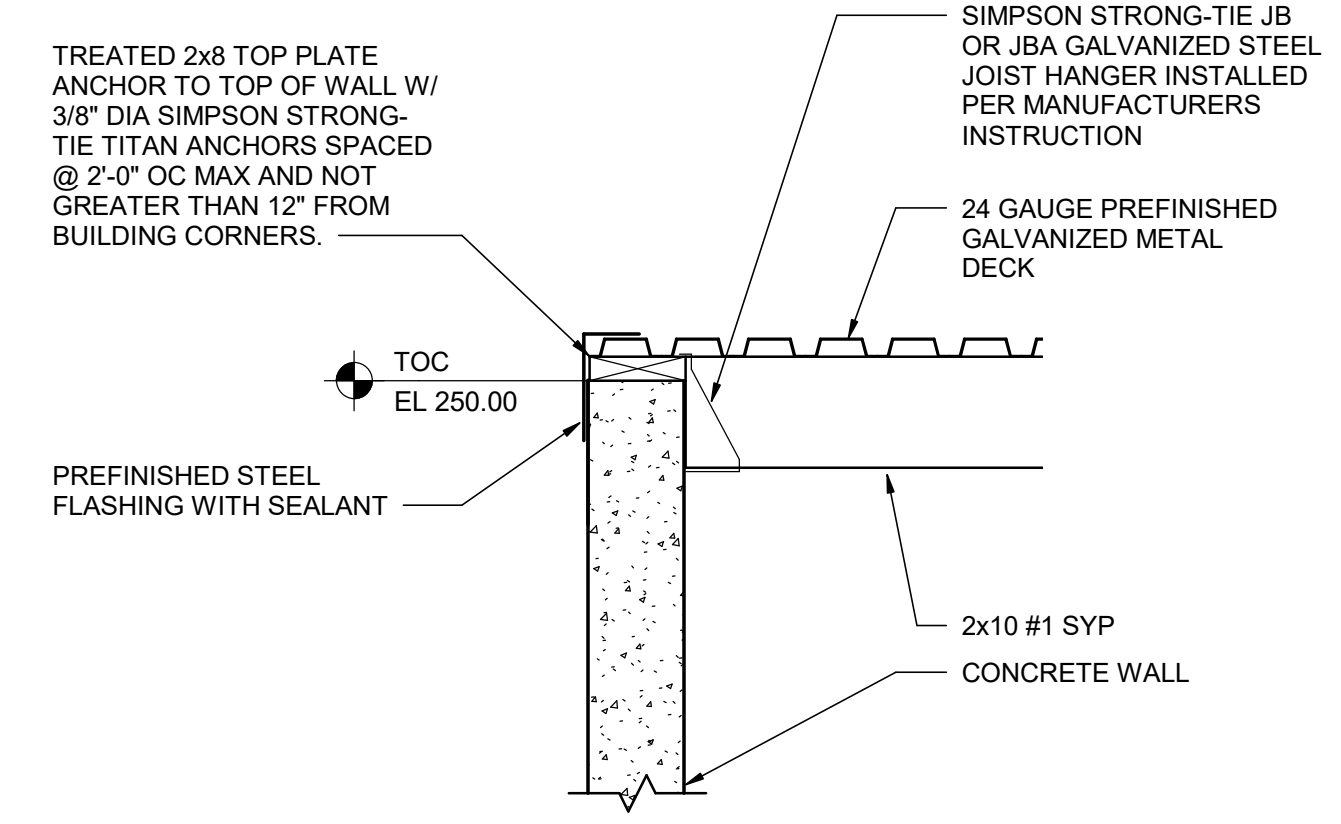
ROOF FRAMING PLAN
1/8" = 1'-0"



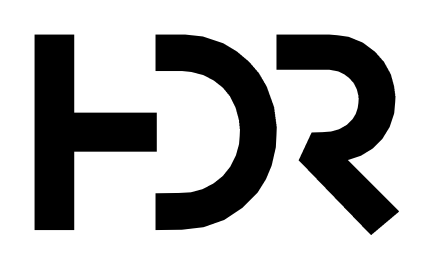
2 STORAGE ROOM CEILING FRAMING PLAN
03S-102 1/8" = 1'-0"



A SECTION
03S-101 3/4" = 1'-0"

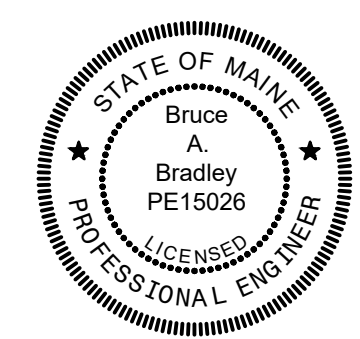


B SECTION
03S-101 3/4" = 1'-0"



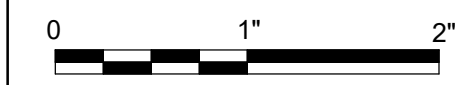
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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

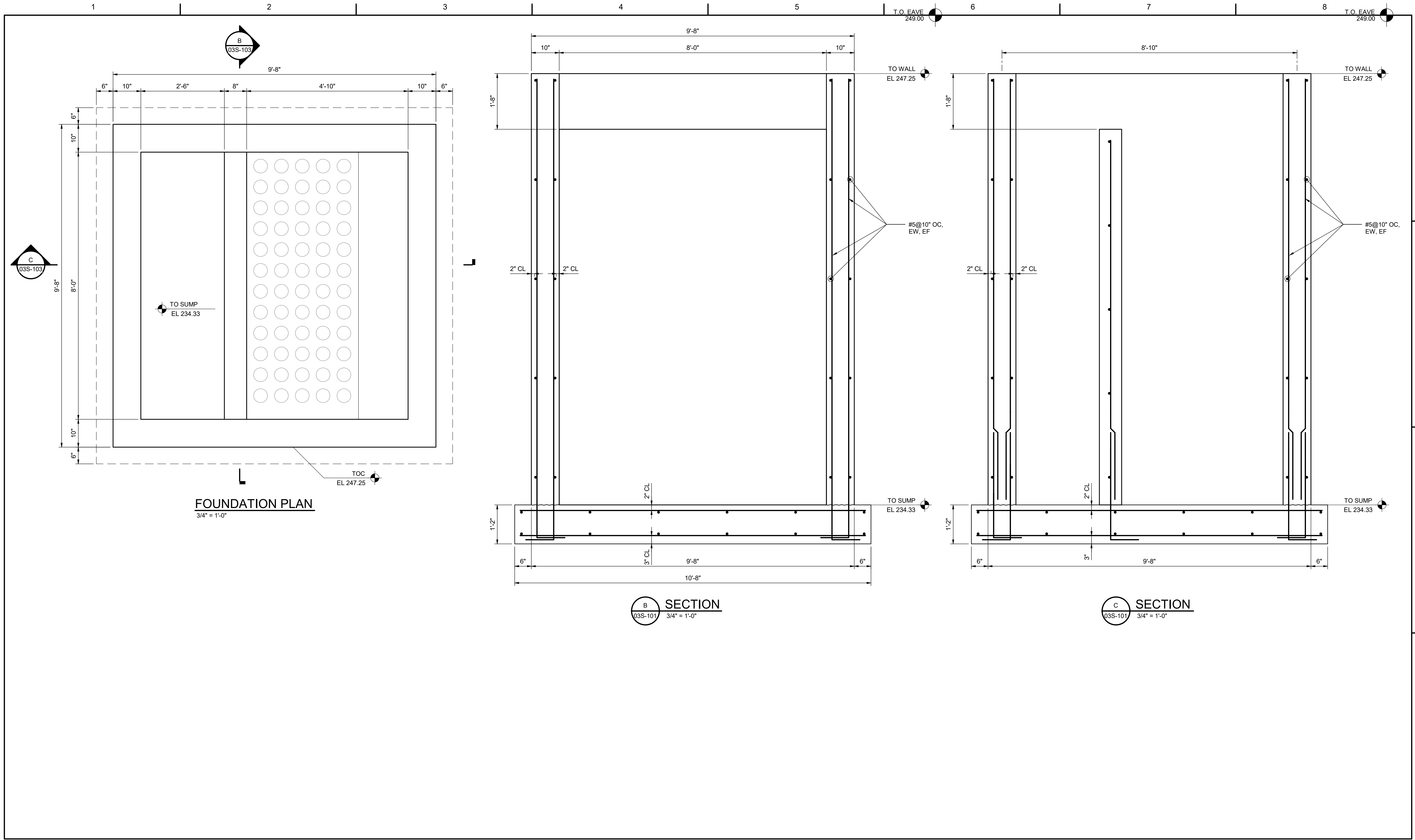
LOWER PAVILION ROOF FRAMING PLAN



FILENAME | 10353741-03-S.rvt
SCALE | As indicated

SHEET
03S-102

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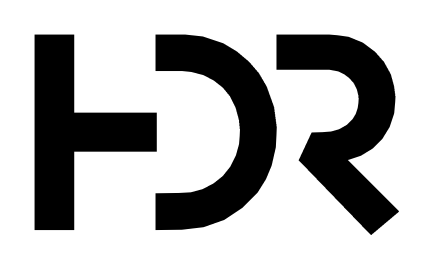


FOUNDATION PLAN
3/4" = 1'-0"

B SECTION
3/4" = 1'-0"

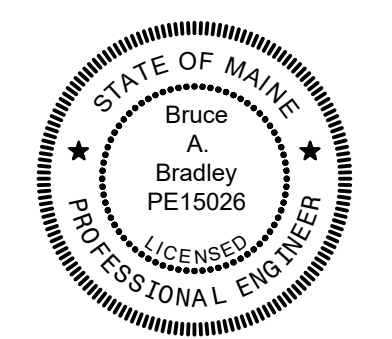
C SECTION
3/4" = 1'-0"

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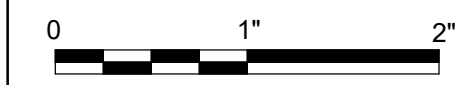
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



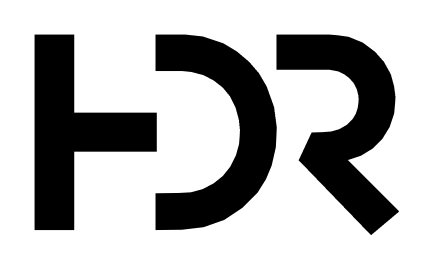
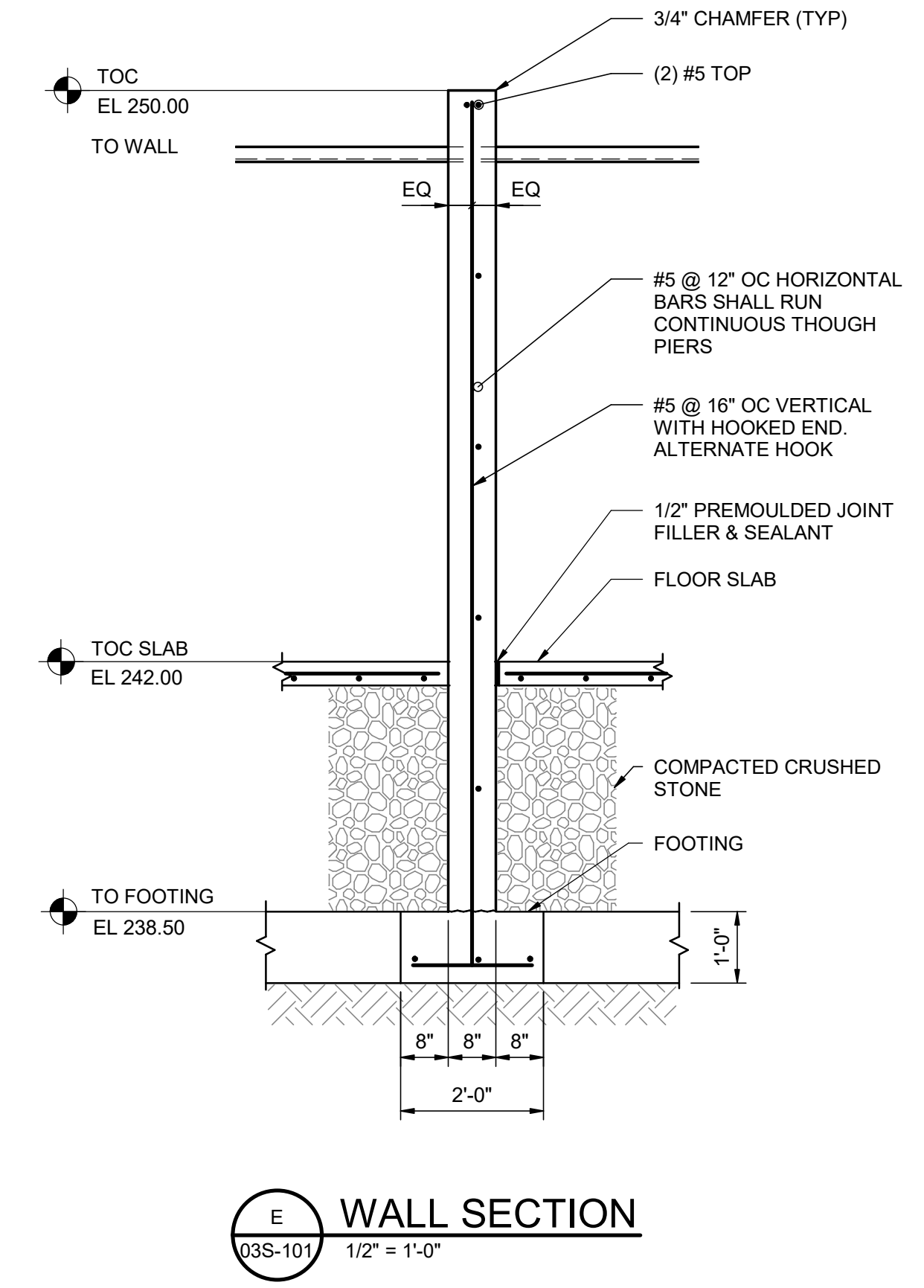
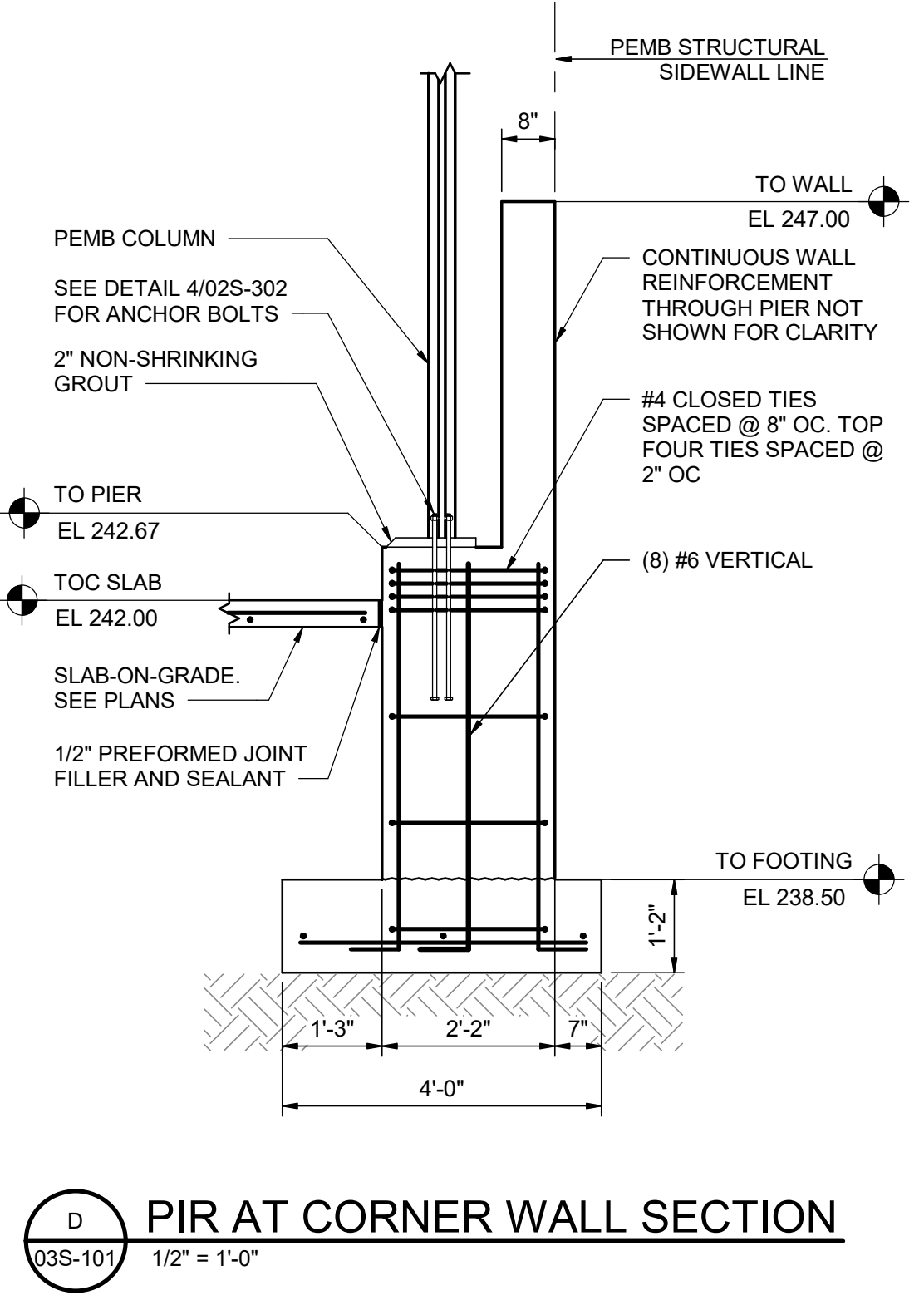
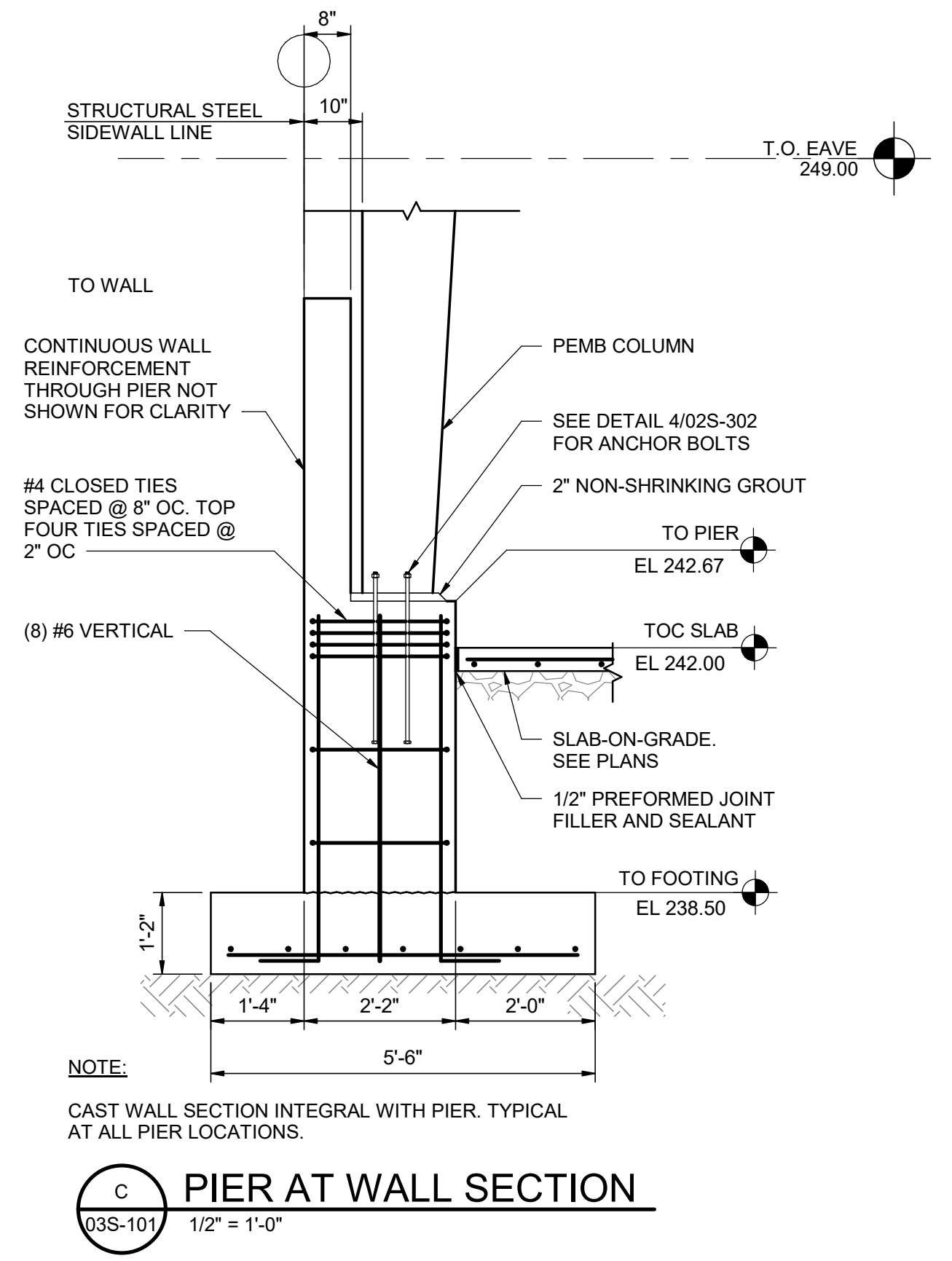
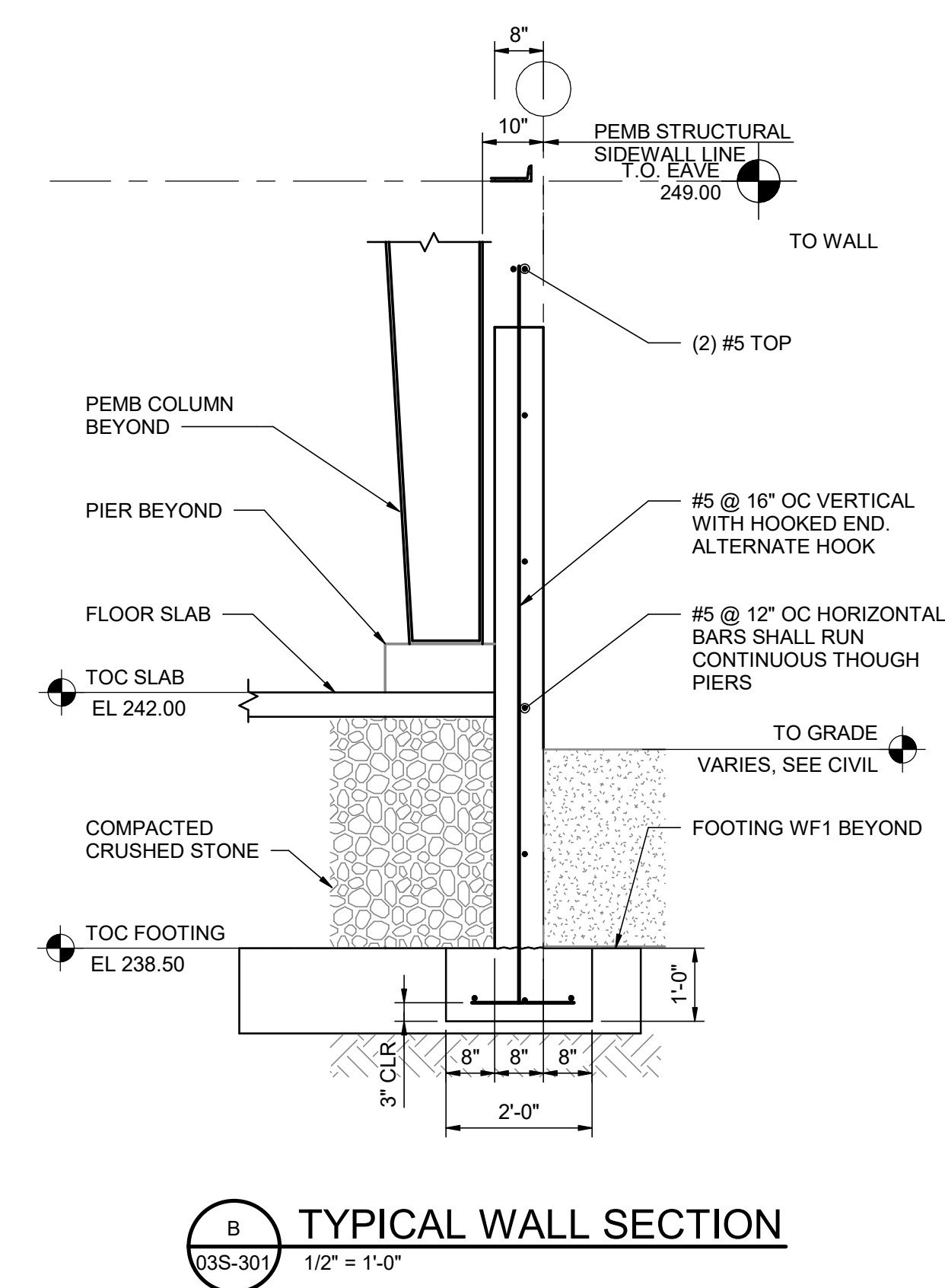
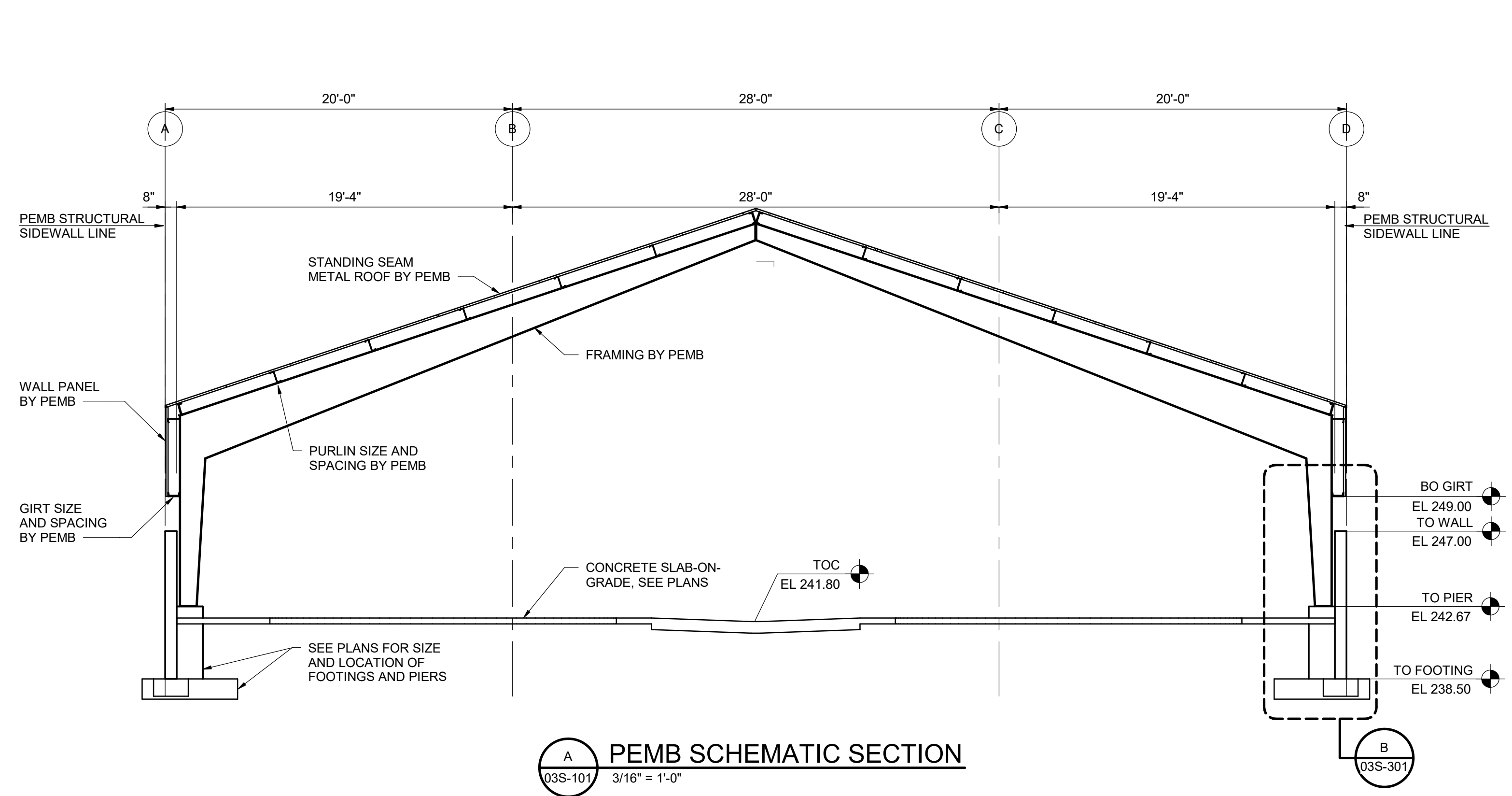
**NEW GLOUCESTER STATE FISH
HATCHERY
Phase III Facility
Conversion**

**LOWER PAVILION
HEAD TANK PLAN AND SECTION**



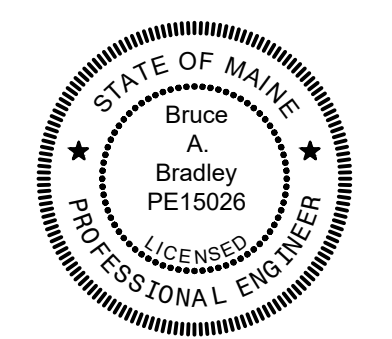
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SCALE | 3/4" = 1'-0"

SHEET
03S-103

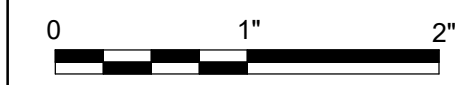


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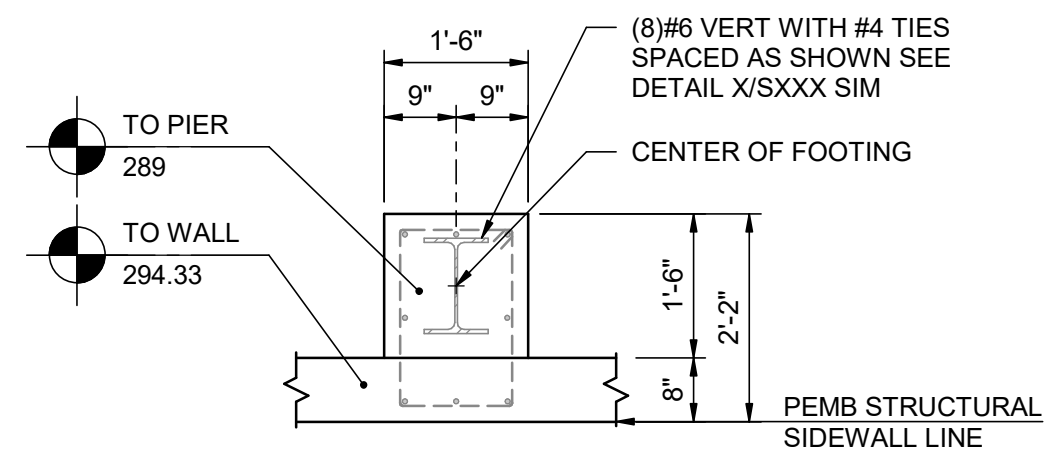
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion



LOWER PAVILION SECTIONS

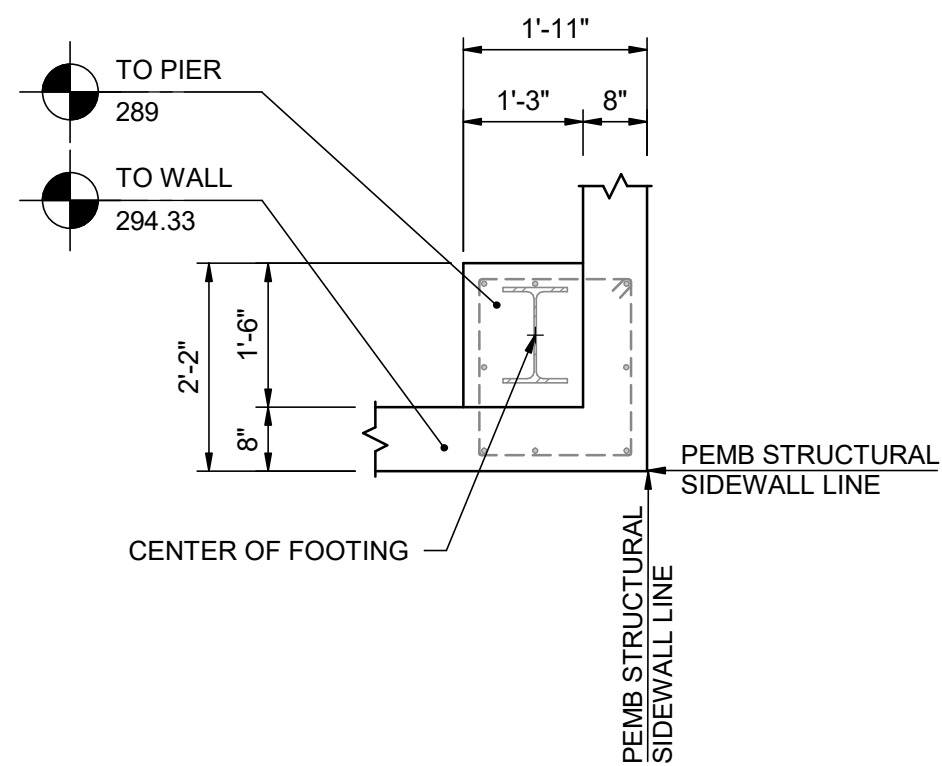
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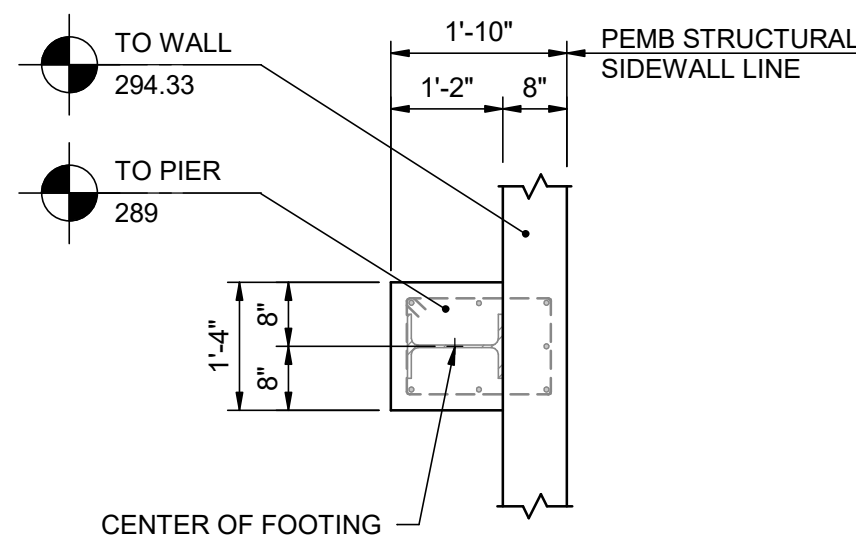


NOTE:
VERIFY PIER SIZE ADEQUACY WITH MBM PRIOR
TO FORMING OR CASTING CONCRETE.

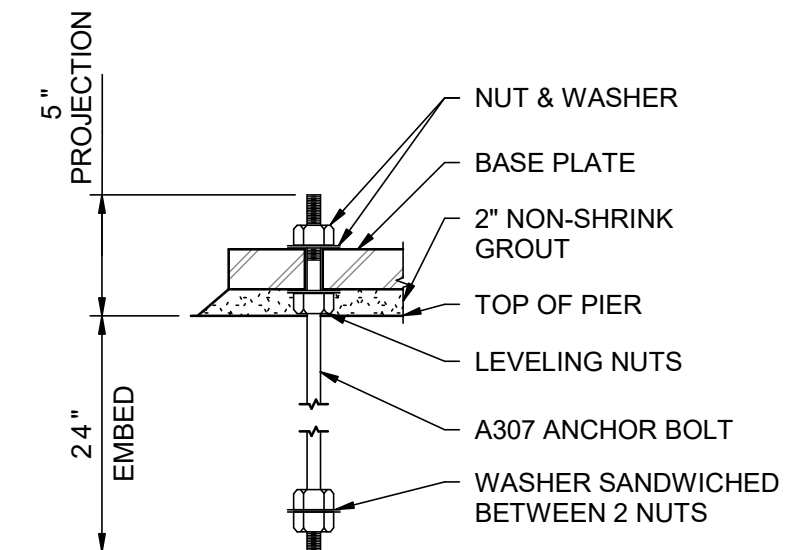
1 PIER TYPE 1
1/2" = 1'-0"



2 PIER TYPE 2
1/2" = 1'-0"

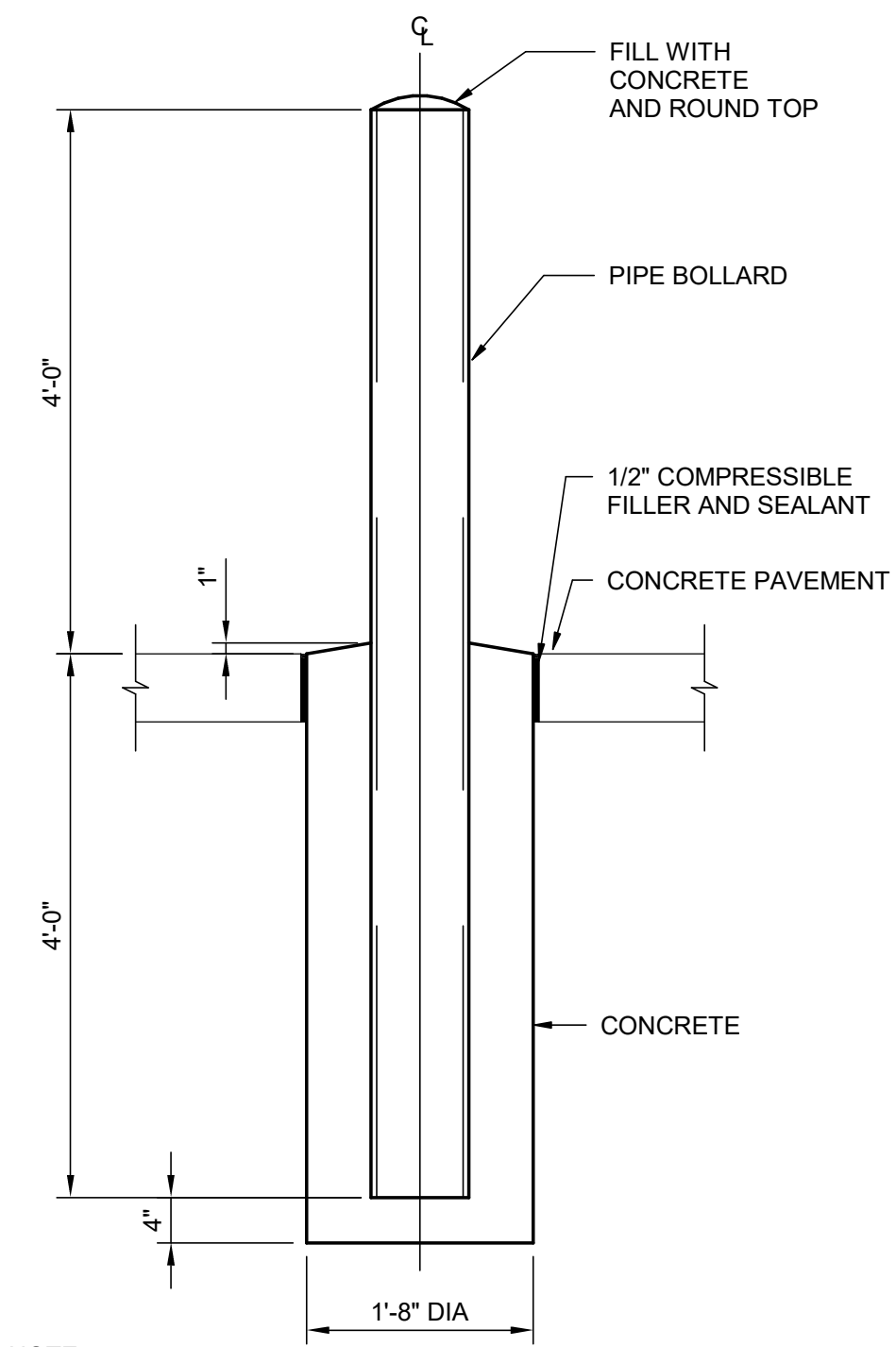


3 PIER TYPE 3
1/2" = 1'-0"



NOTE:
ANCHOR BOLTS PROVIDED AND INSTALLED BY
GENERAL CONTRACTOR (GC.) ANCHOR BOLT
SIZES SPECIFIED BY PEMB.

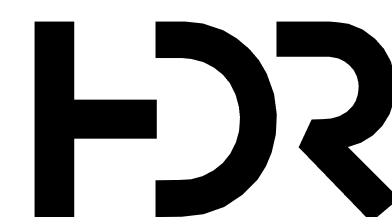
4 ANCHOR BOLT DETAIL
NOT TO SCALE



NOTE:
1. REINFORCING FOR CONCRETE SLAB NOT SHOWN.

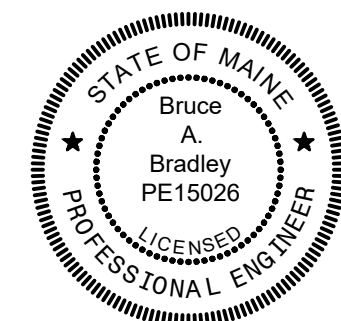
5 BOLLARD
NOT TO SCALE

Autodesk Docs/10353741_Main/DJF_NewGloucester_Impr_2022/10353741-03-S.rvt
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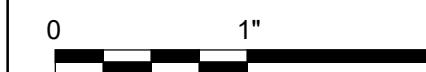
ISSUE	DATE	DESCRIPTION
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PROJECT NUMBER	10353741



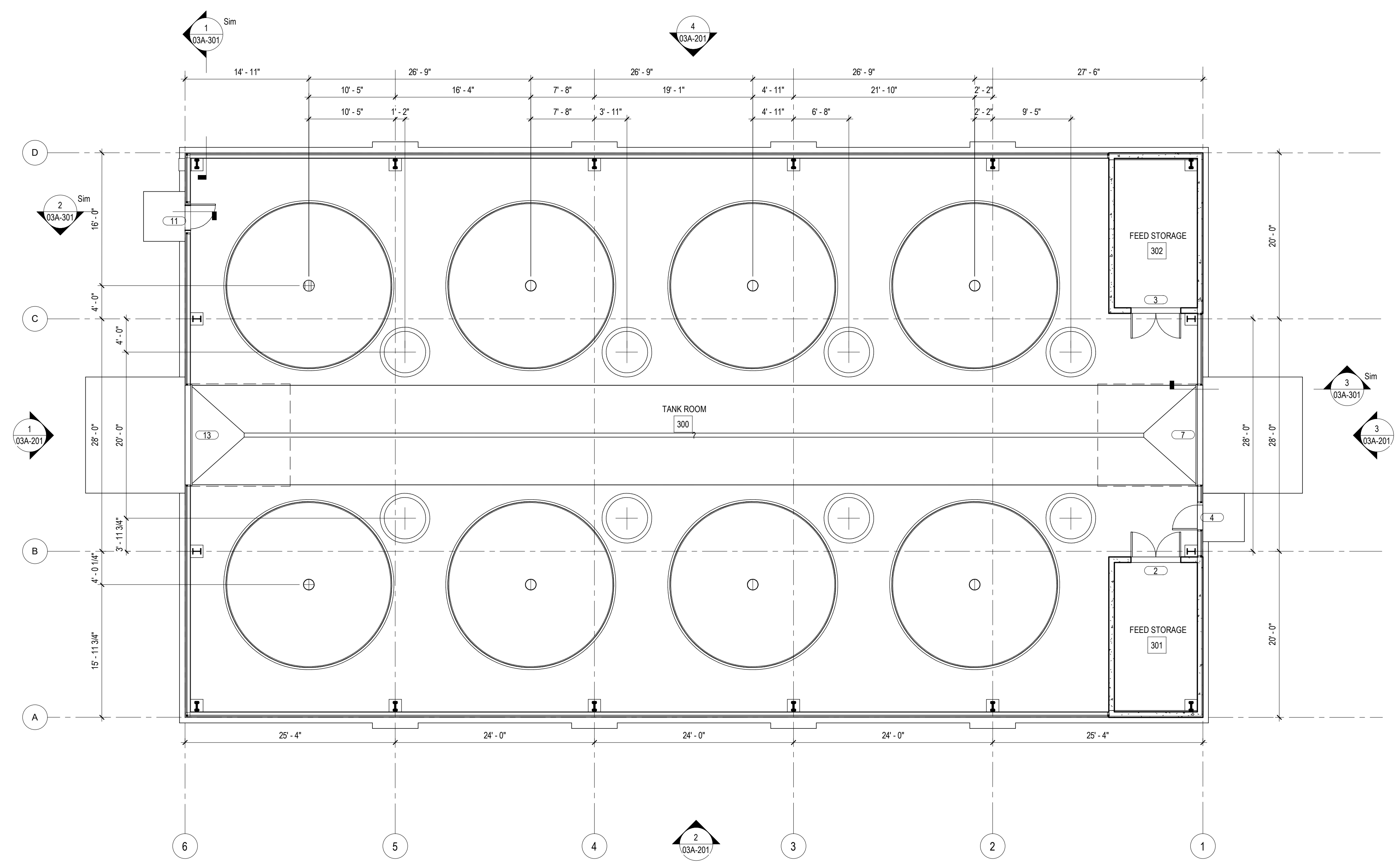
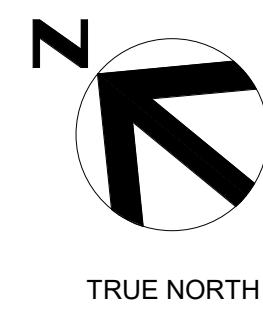
**NEW GLOUCESTER STATE FISH
HATCHERY
Phase III Facility
Conversion**

**LOWER PAVILION
DETAILS**



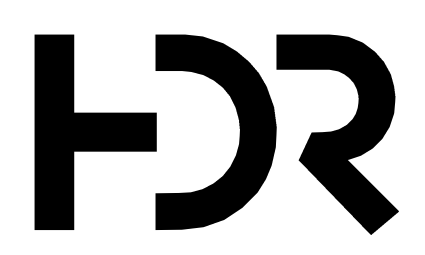
FILENAME | 10353741-03-S.rvt
SCALE | As indicated

SHEET
03S-302



1 LOWER PAVILION PLAN
1/8" = 1'-0"

Autodesk Docs://10353741_Main/DIF_NewGloucester Impr_2022/2022_10353741-A-Maine DIF_NewGloucester.rvt 5/16/2024 9:04:21 AM

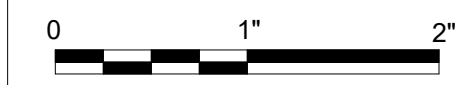


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ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



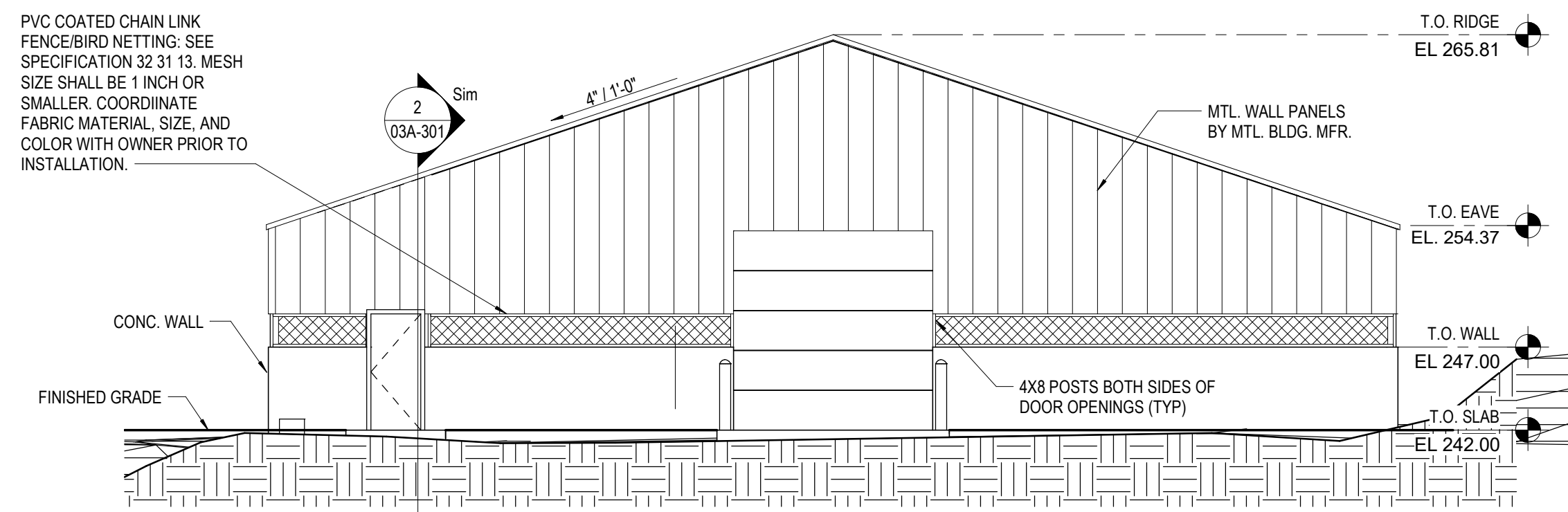
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion



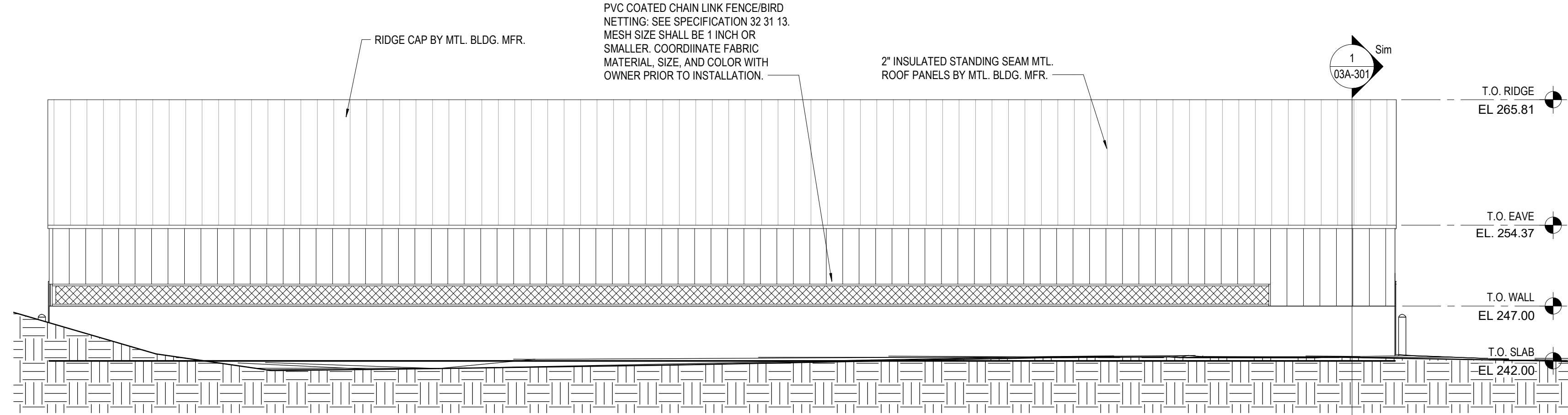
LOWER PAVILION PLAN

FILENAME
SCALE 1/8" = 1'-0"

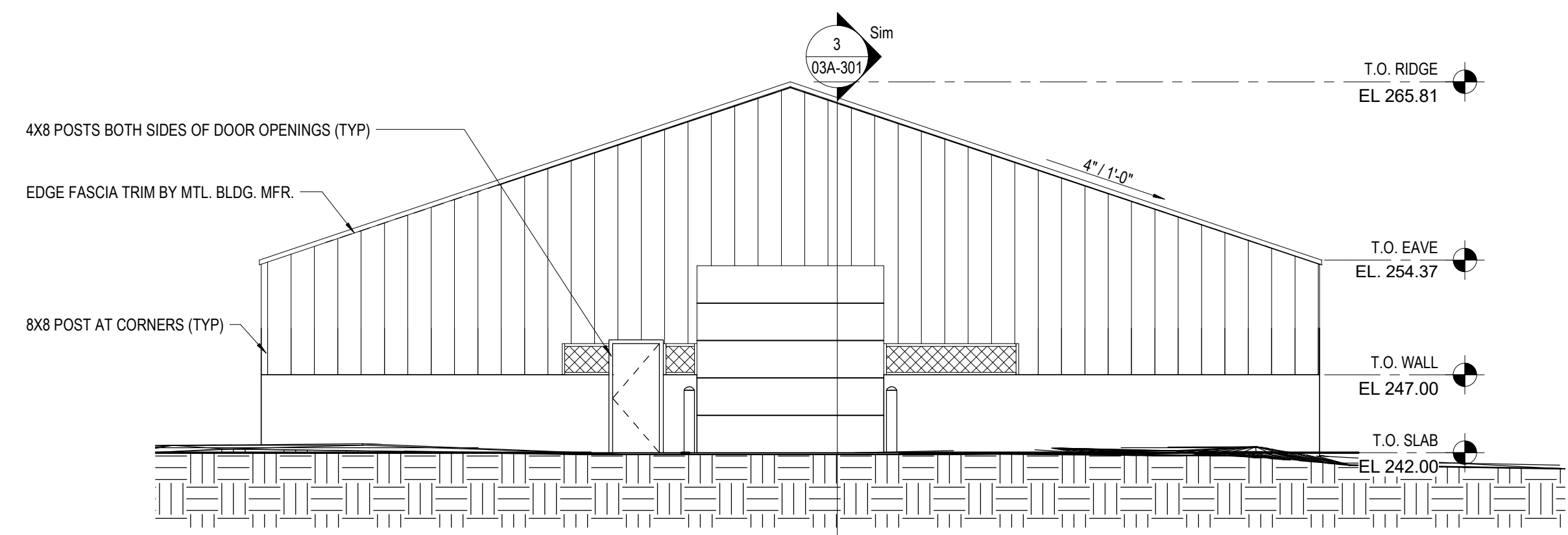
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03A-101



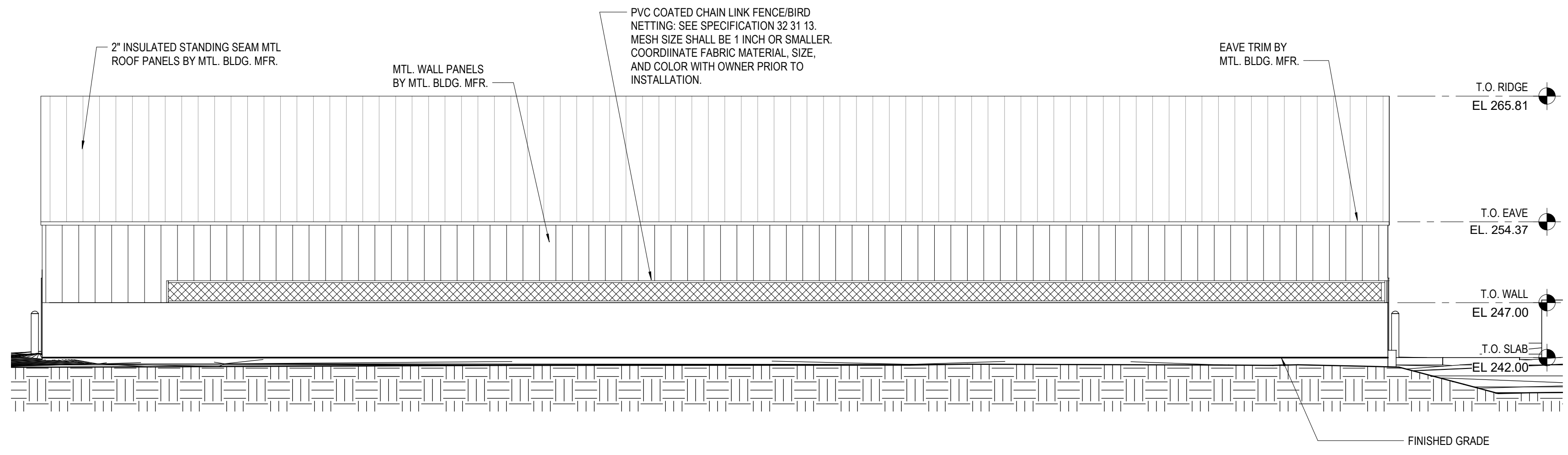
1 LOWER PAVILION - NORTH ELEVATION
1/8" = 1'-0"



2 LOWER PAVILION - WEST ELEVATION
1/8" = 1'-0"

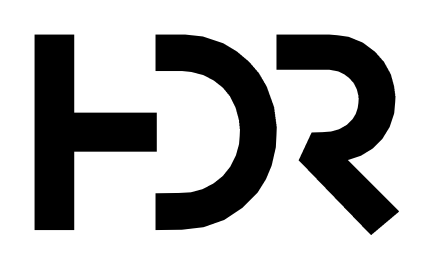


3 LOWER PAVILION - SOUTH ELEVATION
1/8" = 1'-0"



4 LOWER PAVILION - EAST ELEVATION
1/8" = 1'-0"

Autodesk Docs/10353741_MaineDIF_NewGloucester_Impr_2022/2022_10353741-A-Maine DIF_NewGloucester.rvt 5/16/2024 9:04:17 AM



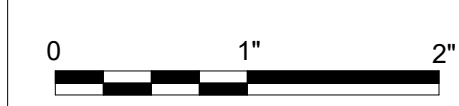
ISSUE	DATE	DESCRIPTION
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ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



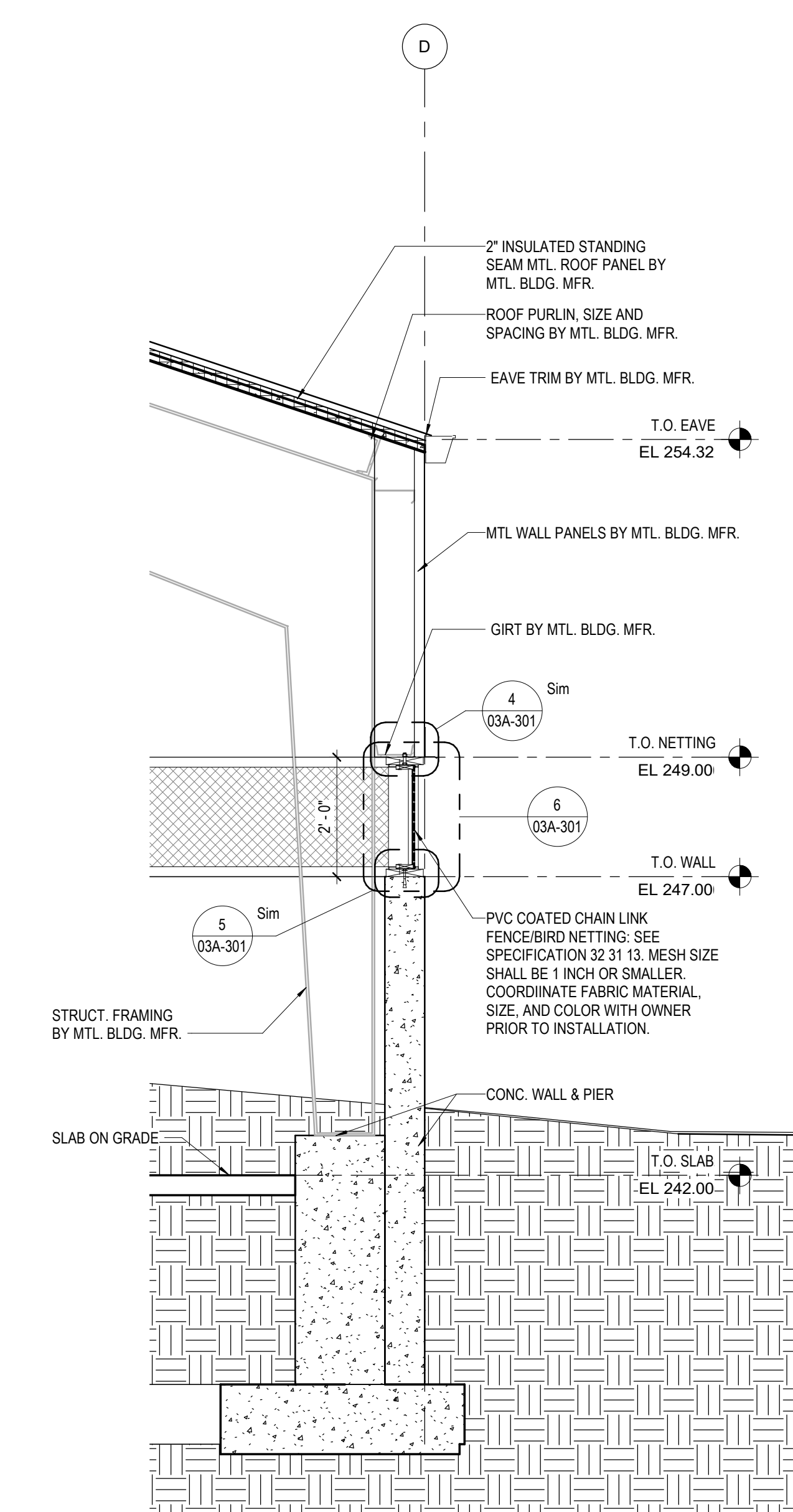
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

LOWER PAVILION EXTERIOR ELEVATIONS

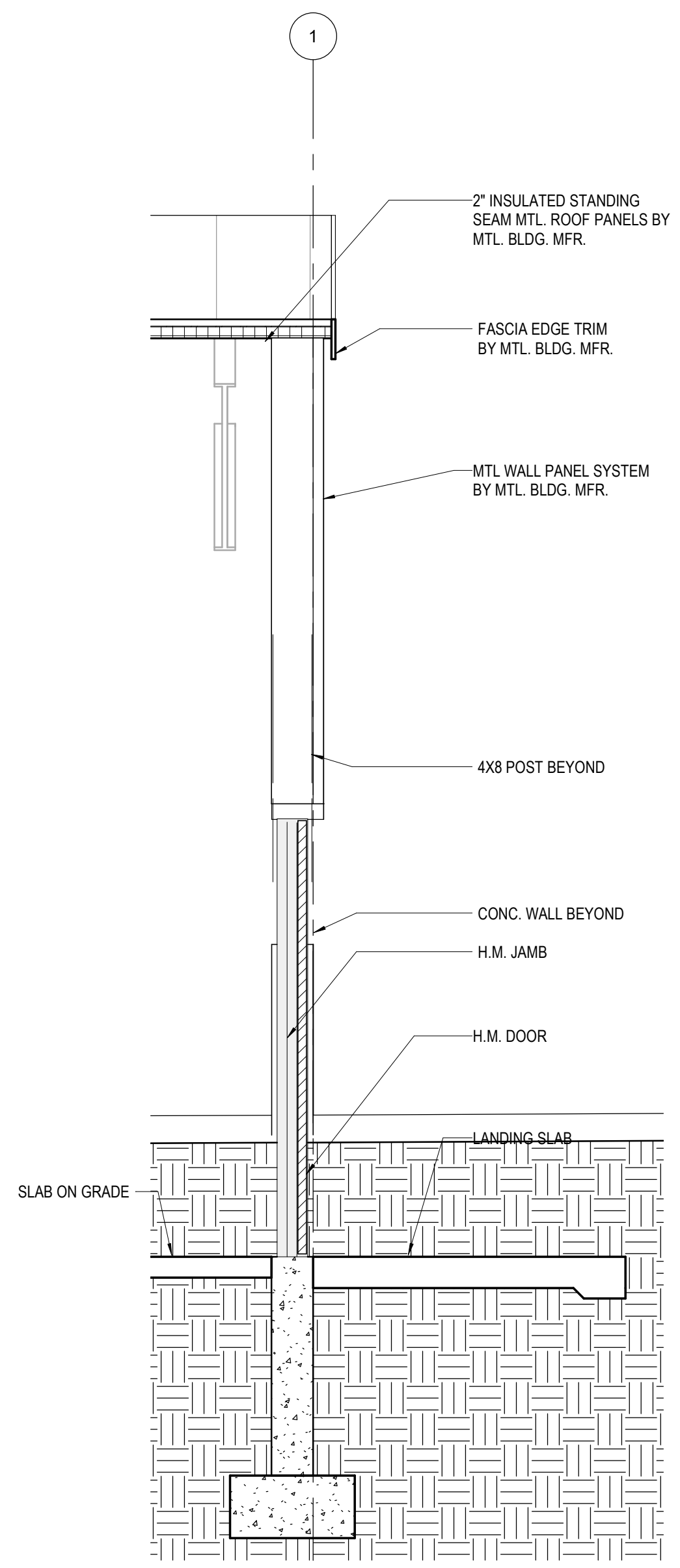


FILENAME
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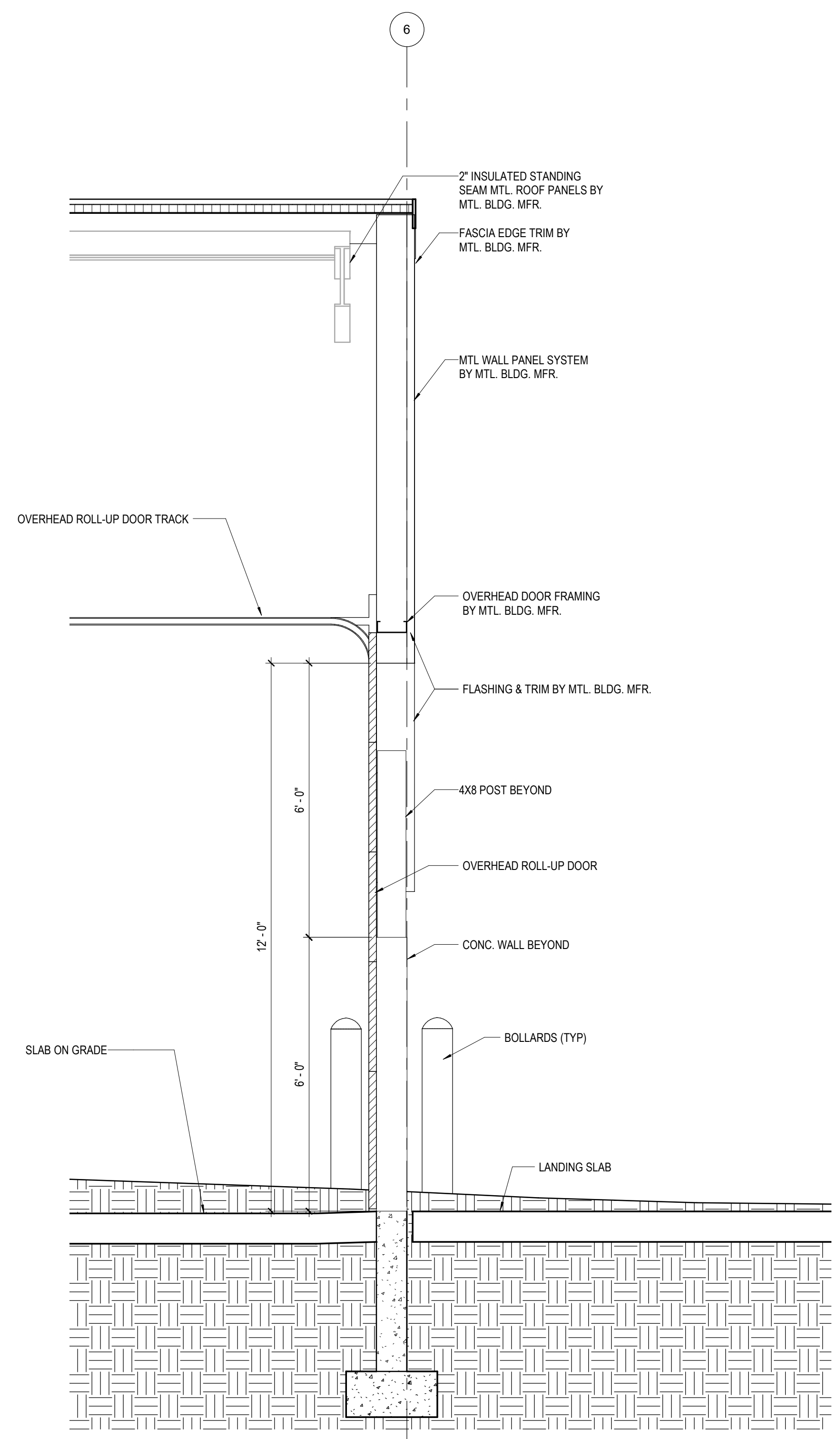
SHEET
03A-201



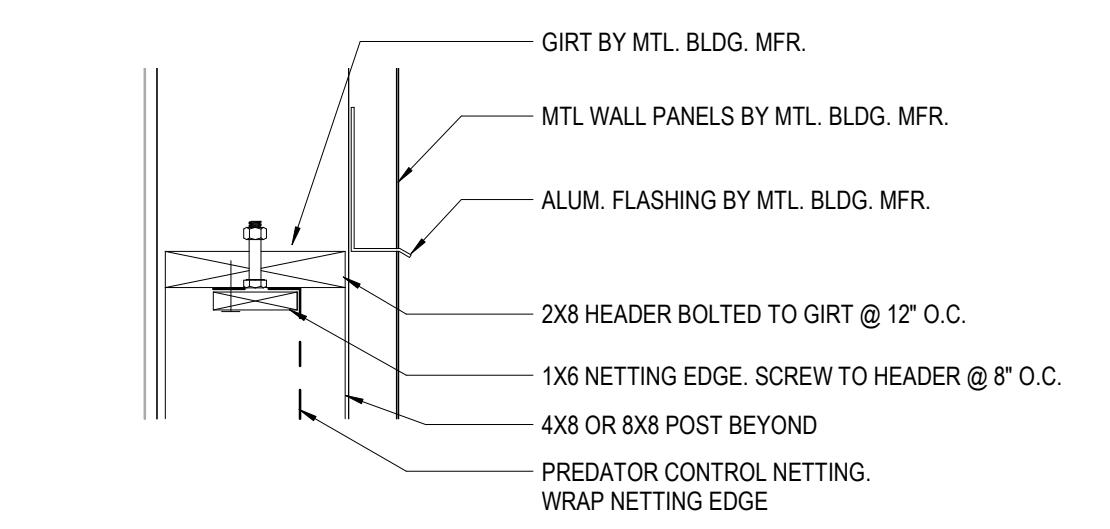
1 TYPICAL WALL SECTION
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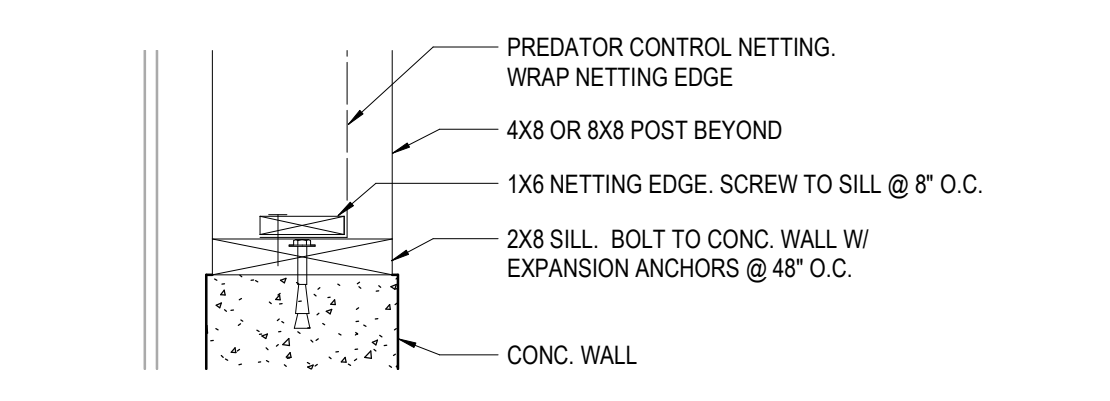
2 WALL SECTION AT MAN DOOR
1/2" = 1'-0"



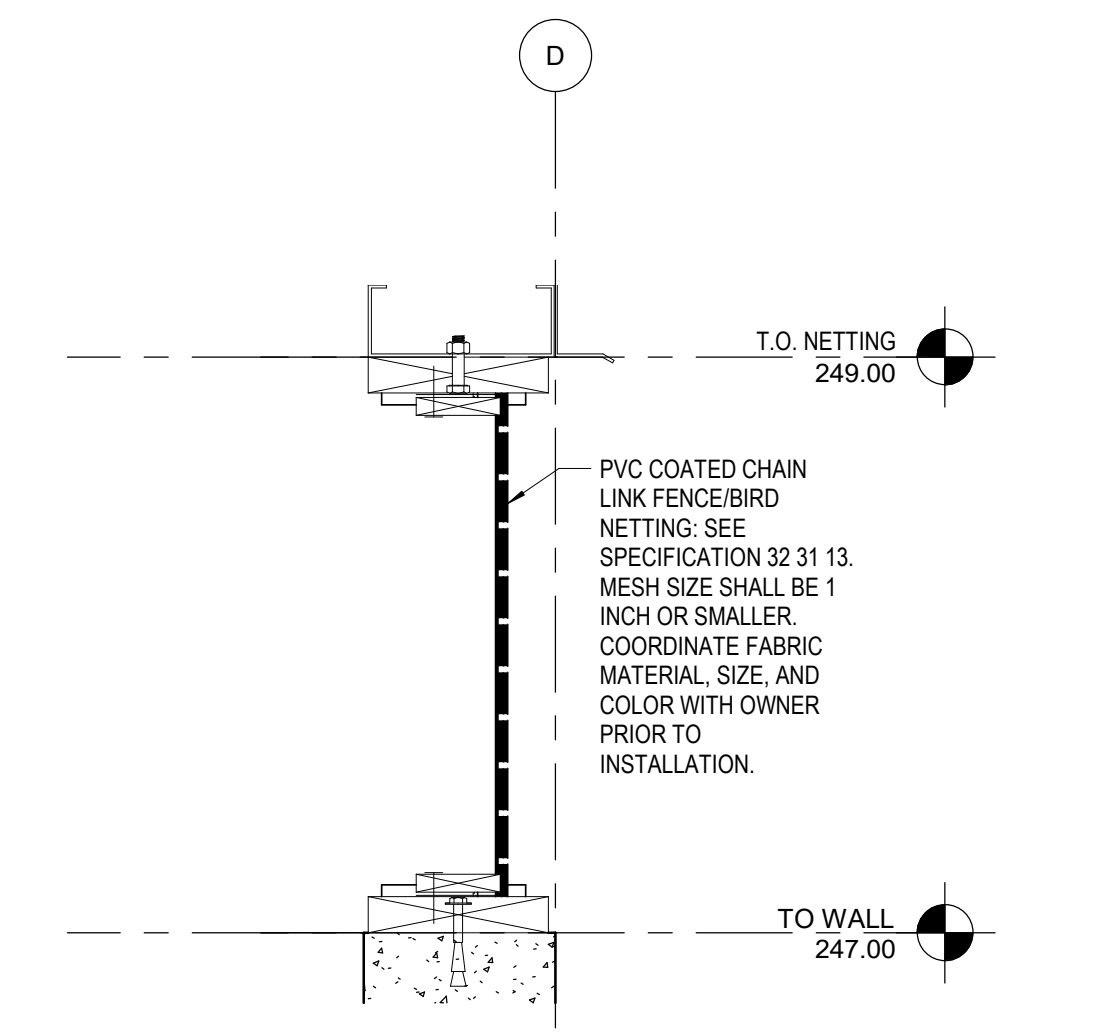
3 WALL SECTION AT OVERHEAD DOOR
1/2" = 1'-0"



4 BIRD NETTING HEAD DETAIL
1 1/2" = 1'-0"

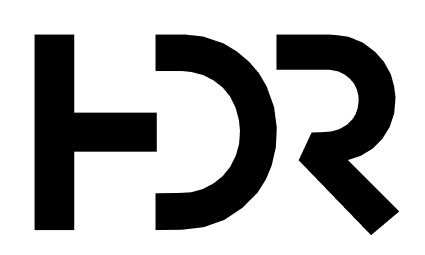


5 BIRD NETTING SILL DETAIL
1 1/2" = 1'-0"



6 BIRD NETTING DETAIL
1 1/2" = 1'-0"

Autodesk Docs/10353741_Main/DJF_NewGloucester Impr_2022/2022_10353741-A-Maine DJF_NewGloucester.rvt 5/16/2024 9:04:13 AM



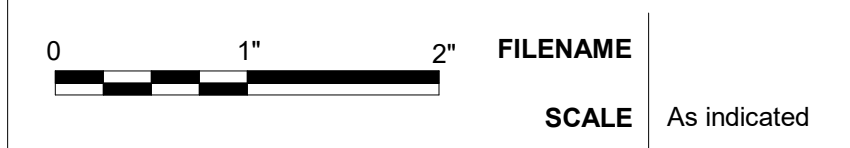
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PROJECT MANAGER	ANDREW GURSKI
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STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

LOWER PAVILION WALL SECTIONS & DETAILS



FILENAME
03A-301

SHEET
03A-301

1

2

3

4

5

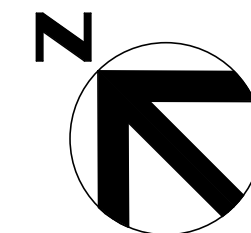
6

7

8

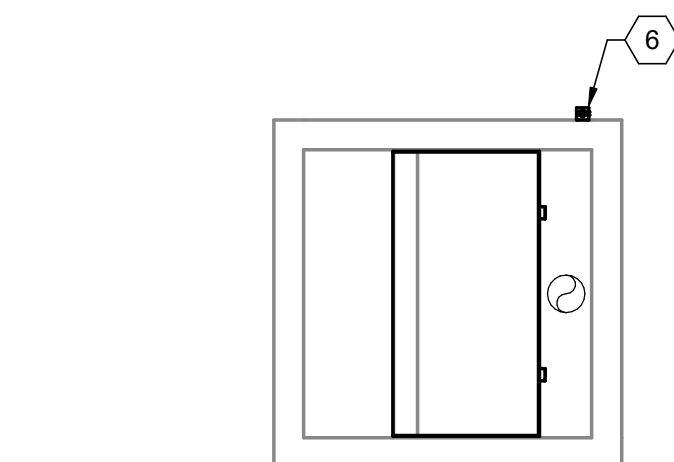
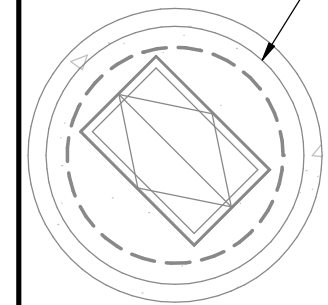
KEYED NOTES #

- 1 TYP. 20' DIA. REARING TANK
- 2 TYP. 5'-0" ID VALVE BASIN
- 3 TYP. BOTTOM DRAIN SUMP LEADS FLOW LADEN WITH SOLIDS TO DRUMFILTER (100% OF TANK FLOW)
- 4 4" INSIDE WIDTH PRE-MOLDED TRENCH DRAIN
- 5 TYP. PIPING & 5'-0" ID VALVE BASIN PER SHEET 03D-401
- 6 OXY METER

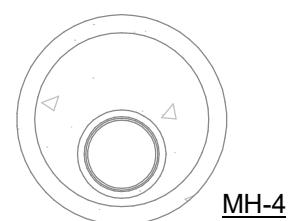


TRUE NORTH

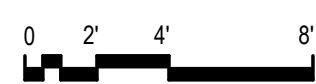
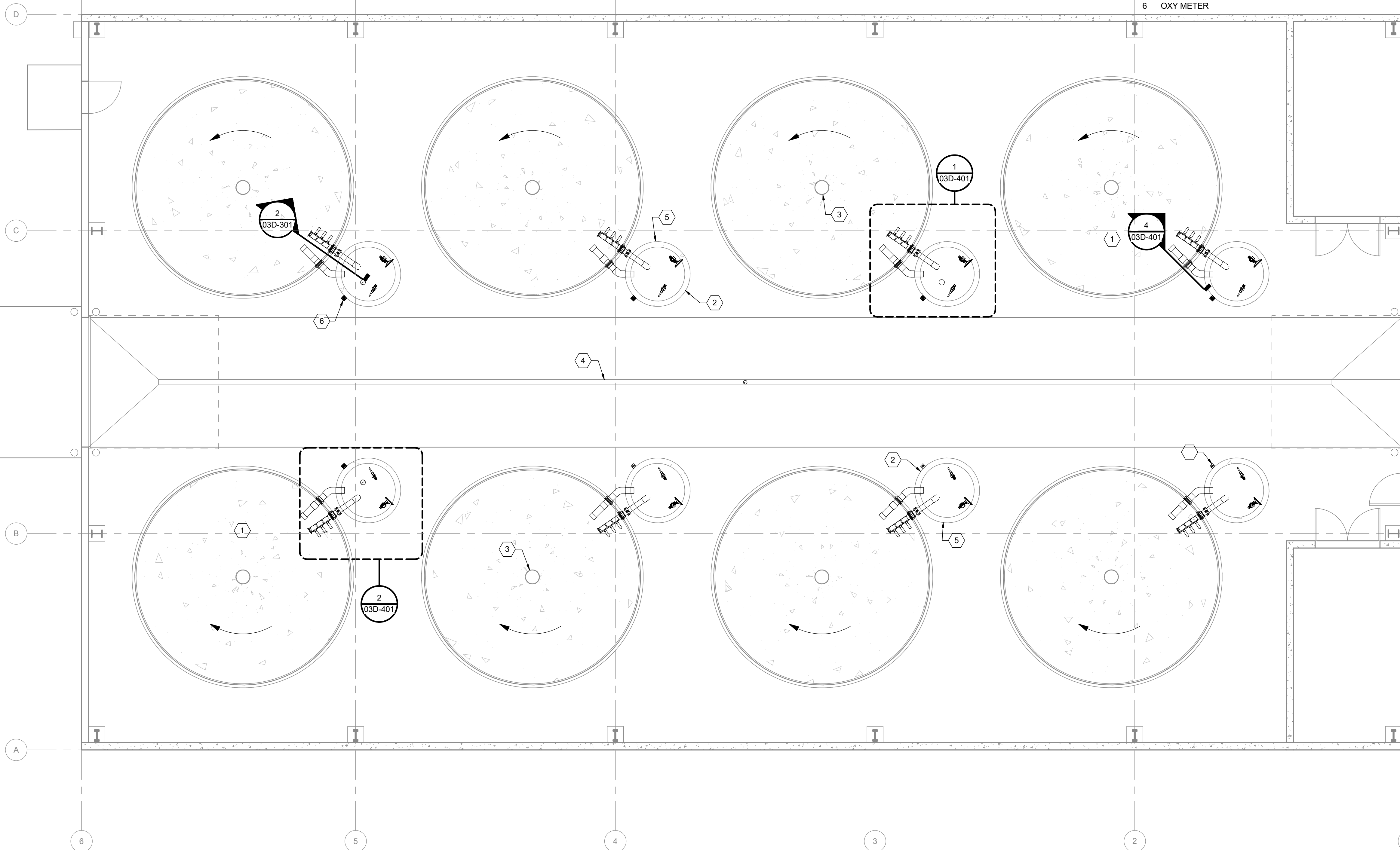
METERING MANHOLE



LHO BOX



MH-4



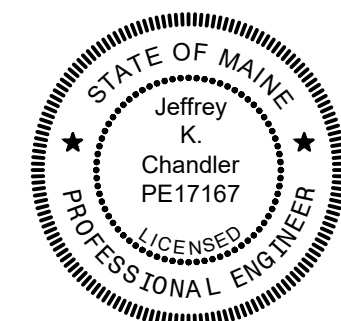
1 ABOVE FLOOR PROCESS PIPING PLAN
03D-101 3/16" = 1'-0"

Autodesk Docs/10353741_Main/DWG_NewGloucester_Impr_2022/10353741-03-D.rvt 5/16/2024 9:07:09 AM



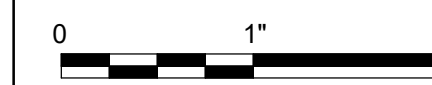
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MECHANICAL	J. CHANDLER	
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PROJECT NUMBER		10353741



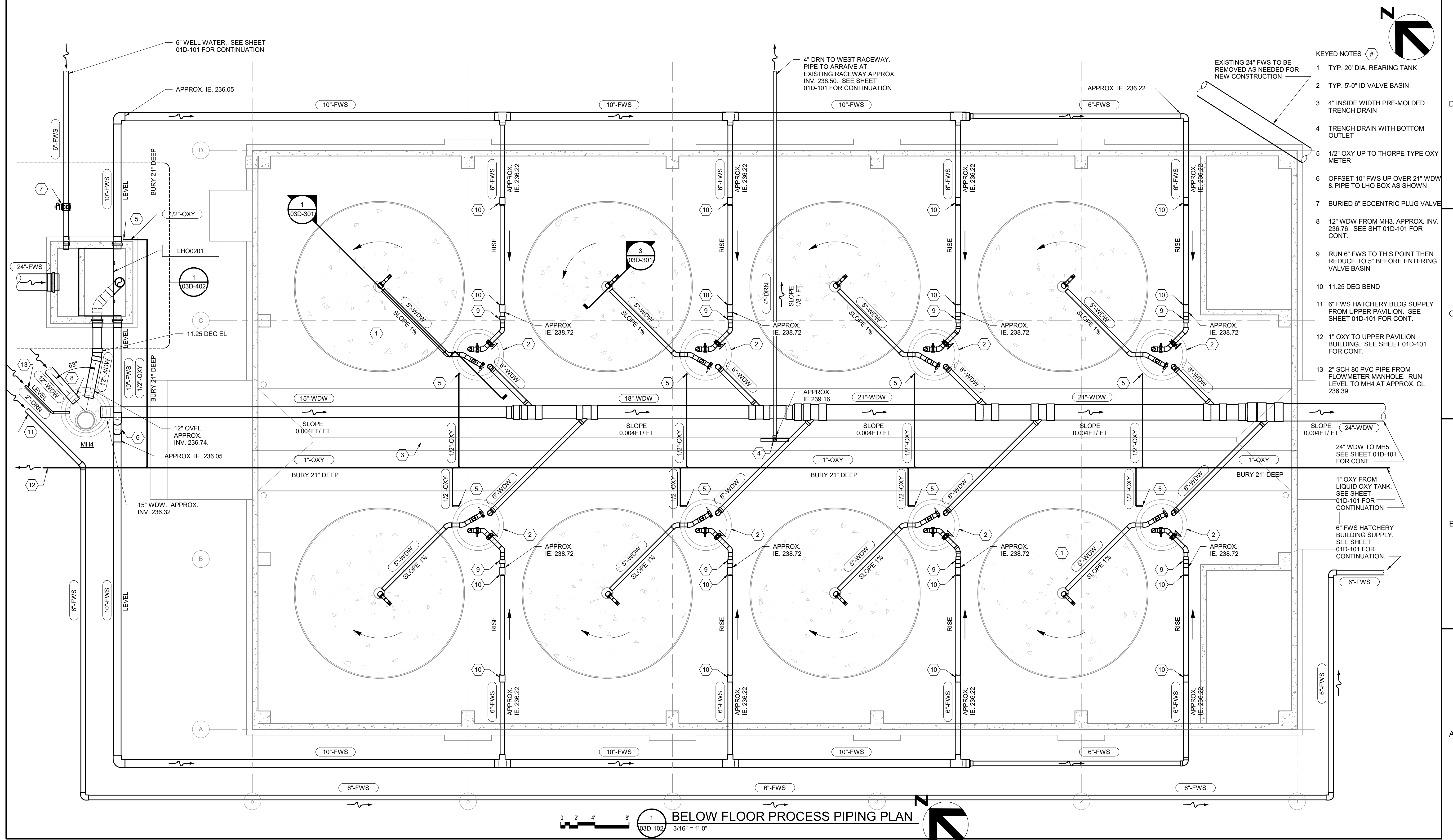
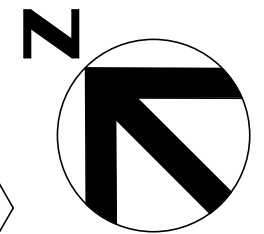
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

LOWER PAVILION
ABOVE FLOOR PROCESS PIPING PLAN



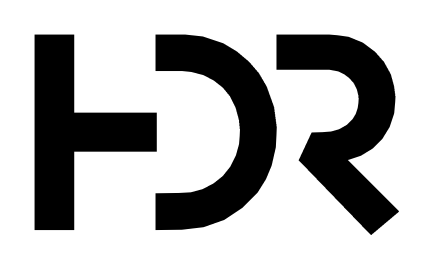
FILENAME | 10353741-03-D.rvt
SCALE | 3/16" = 1'-0"

SHEET
03D-101



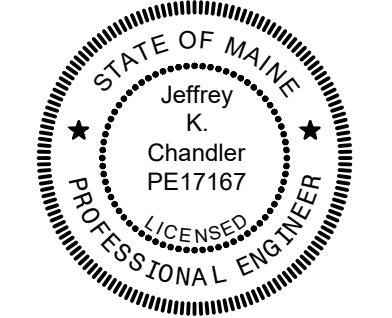
- KEYED NOTES** #
- 1 TYP. 20" DIA. REARING TANK
 - 2 TYP. 5'-0" ID VALVE BASIN
 - 3 4" INSIDE WIDTH PRE-MOLDED TRENCH DRAIN
 - 4 TRENCH DRAIN WITH BOTTOM OUTLET
 - 5 1/2" OXY UP TO THORPE TYPE OXY METER
 - 6 OFFSET 10" FWS UP OVER 21" WDW & PIPE TO LHO BOX AS SHOWN
 - 7 BURIED 6" ECCENTRIC PLUG VALVE
 - 8 12" WDW FROM MH3. APPROX. INV. 236.76. SEE SHT 01D-101 FOR CONT.
 - 9 RUN 6" FWS TO THIS POINT THEN REDUCE TO 5" BEFORE ENTERING VALVE BASIN
 - 10 11.25 DEG BEND
 - 11 6" FWS HATCHERY BLDG SUPPLY FROM UPPER PAVILION. SEE SHEET 01D-101 FOR CONT.
 - 12 1" OXY TO UPPER PAVILION BUILDING. SEE SHEET 01D-101 FOR CONT.
 - 13 2" SCH 80 PVC PIPE FROM FLOWMETER MANHOLE. RUN LEVEL TO MH4 AT APPROX. CL 236.39.

0 2 4 8
 1
 03D-102 3/16" = 1'-0"



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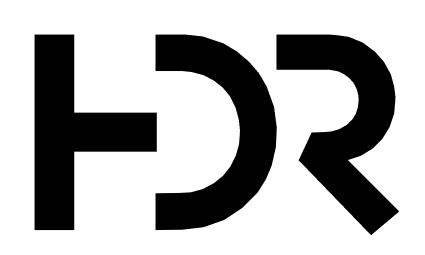
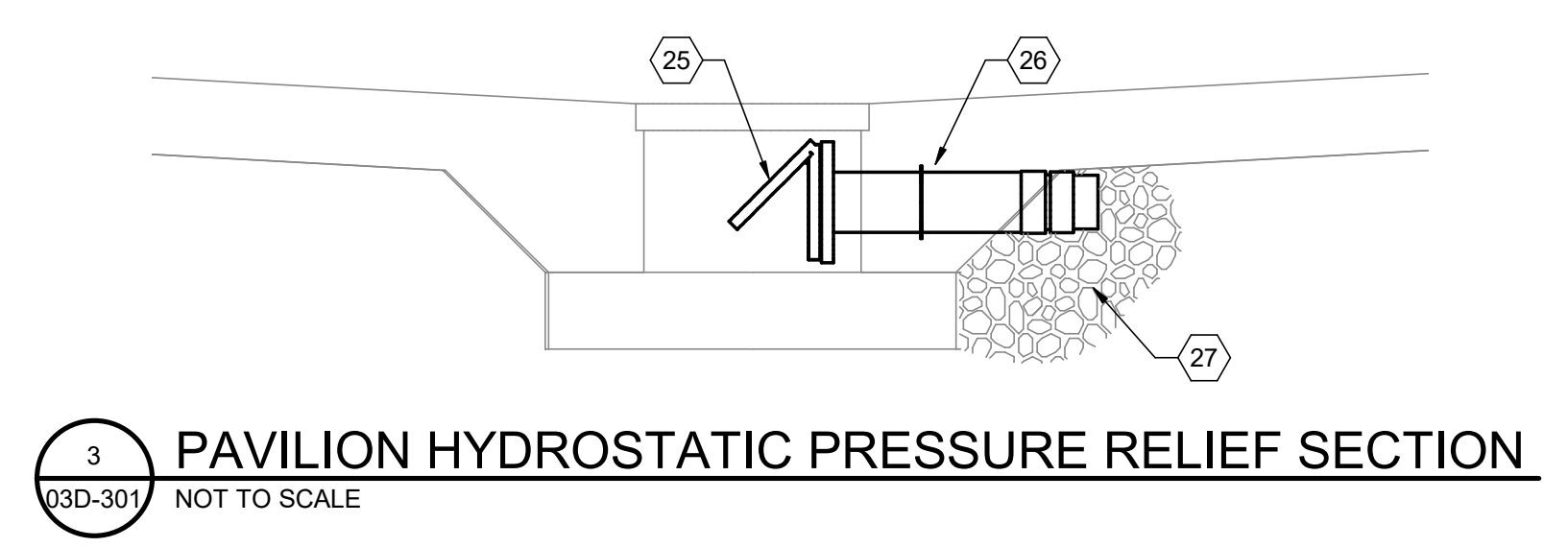
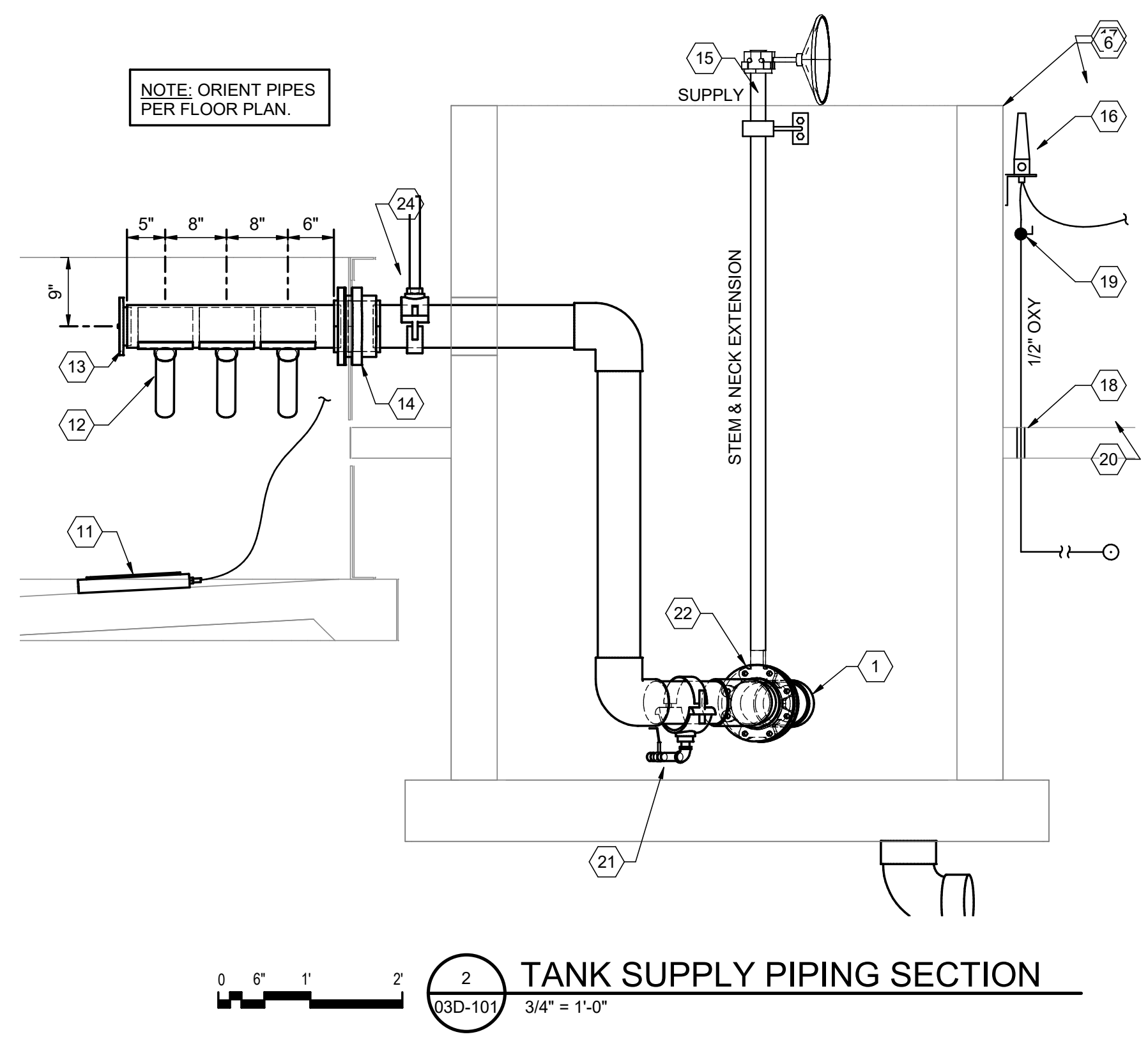
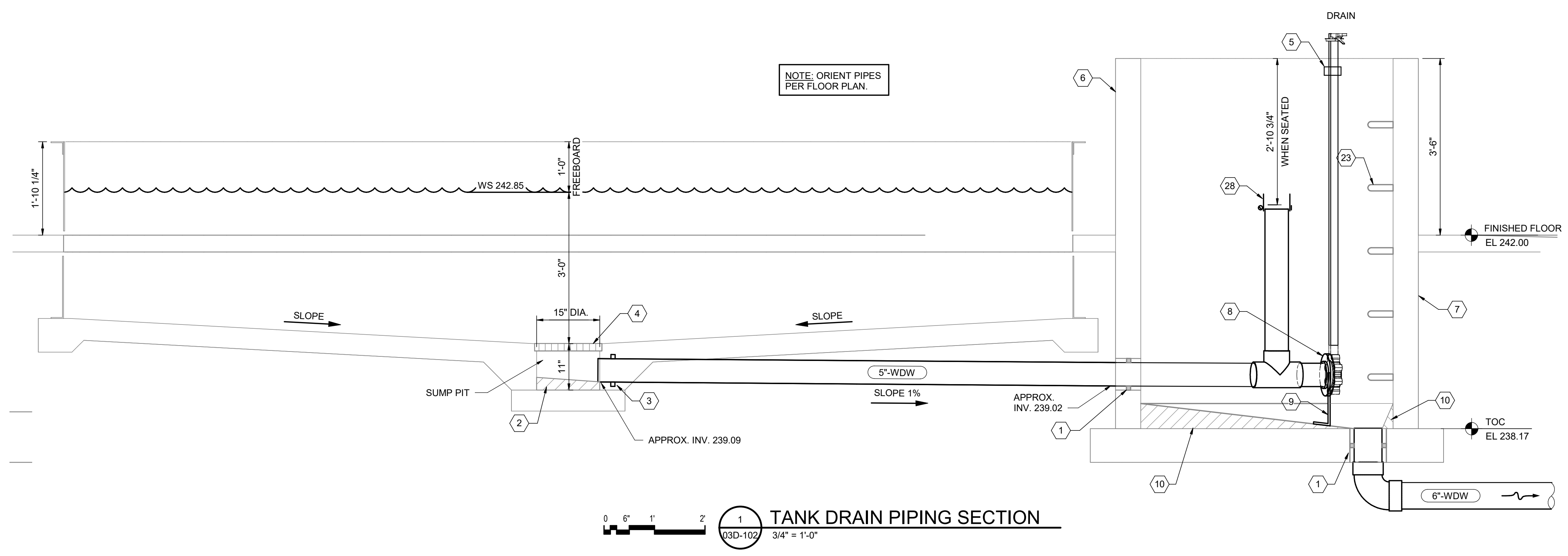
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

LOWER PAVILION BELOW FLOOR PROCESS PIPING PLAN

0 1 2" FILENAME 10353741-03-D.rvt SHEET 03D-102
 SCALE 3/16" = 1'-0"

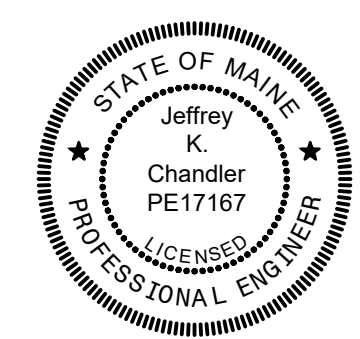
Autodesk Docs/10353741_Main/DWG_NewGloucester Impr_2022/10353741-03-D.rvt 5/16/2024 9:07:03 AM

- KEYED NOTES** #
- 1 LINKAGE TYPE SEAL
 - 2 SLOPE GROUT TO DRAIN
 - 3 FIELD APPLIED NON-SWELLING WATERSTOP
 - 4 FISH SCREEN PER STRUCTURAL SHEETS
 - 5 GALV. OR SS VALVE & NECK SUPPORT 2" CLEAR BELOW MANHOLE RIM FOR EACH VALVE
 - 6 VALVE BASIN
 - 7 TOPLESS MANHOLE WITH STEPS & CLEAN, SMOOTH OVER SURFACE
 - 8 PVC ONE-PIECE SOCKET FLANGE
 - 9 SUPPORT FLANGE OR PIPE TO GROUT W/ SS HARDWARE
 - 10 GROUT SLOPED ALL AROUND TO DRAIN
 - 11 CERAMIC OXYGEN DIFFUSER
 - 12 ORIENT NOZZLES SIMILAR TO DETAIL 3/03D-401
 - 13 EXPANSION PLUG
 - 14 TANK ADAPTER: SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK) & 6"x5" REDUCING BUSHINGS BOTH SIDES.
 - 15 WEATHERPROOF GEAR OR LEVEL WITH AT LEAST 13 POSITIONS WITHOUT WING NUTS & WITHOUT SET SCREWS
 - 16 BRACKET MOUNTED THORPE STYLE OXYGEN METER (0-7 SLPM) WITH TOP 1" B.T.O.C., SHOWN ON OPPOSITE SIDE FOR CLARITY, LOCATE PER PLAN
 - 17 HOSE TO OXYGEN DIFFUSER
 - 18 TYP. PIPE PENETRATION THRU FLOOR
 - 19 CONNECT ISOLATION BALL VALVE TO METER WITH ADAPTERS AND HOSE OR COPPER PIPE
 - 20 1" OXY MAIN APPROX. 21" BELOW FLOOR
 - 21 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
 - 22 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
 - 23 MANHOLE STEPS
 - 24 5" SADDLE TAP W/ 1" SIGHT GLASS
 - 25 3" HYDROSTATIC PRESSURE RELIEF VALVE EQUAL TO PENN-TROY A2580.
 - 26 FLANGED WALL PIPE W/ ANTI-SEEP RING & SCREEN.
 - 27 MINIMUM 2'-6"x2'-6"x2'-6" CLEAN CRUSHED STONE WRAPPED IN GEOTEXTILE FABRIC CENTERED ON PRESSURE RELIEF VALVE PIPE
 - 28 ELASTOMERIC COUPLING



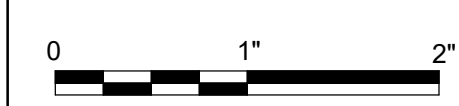
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CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

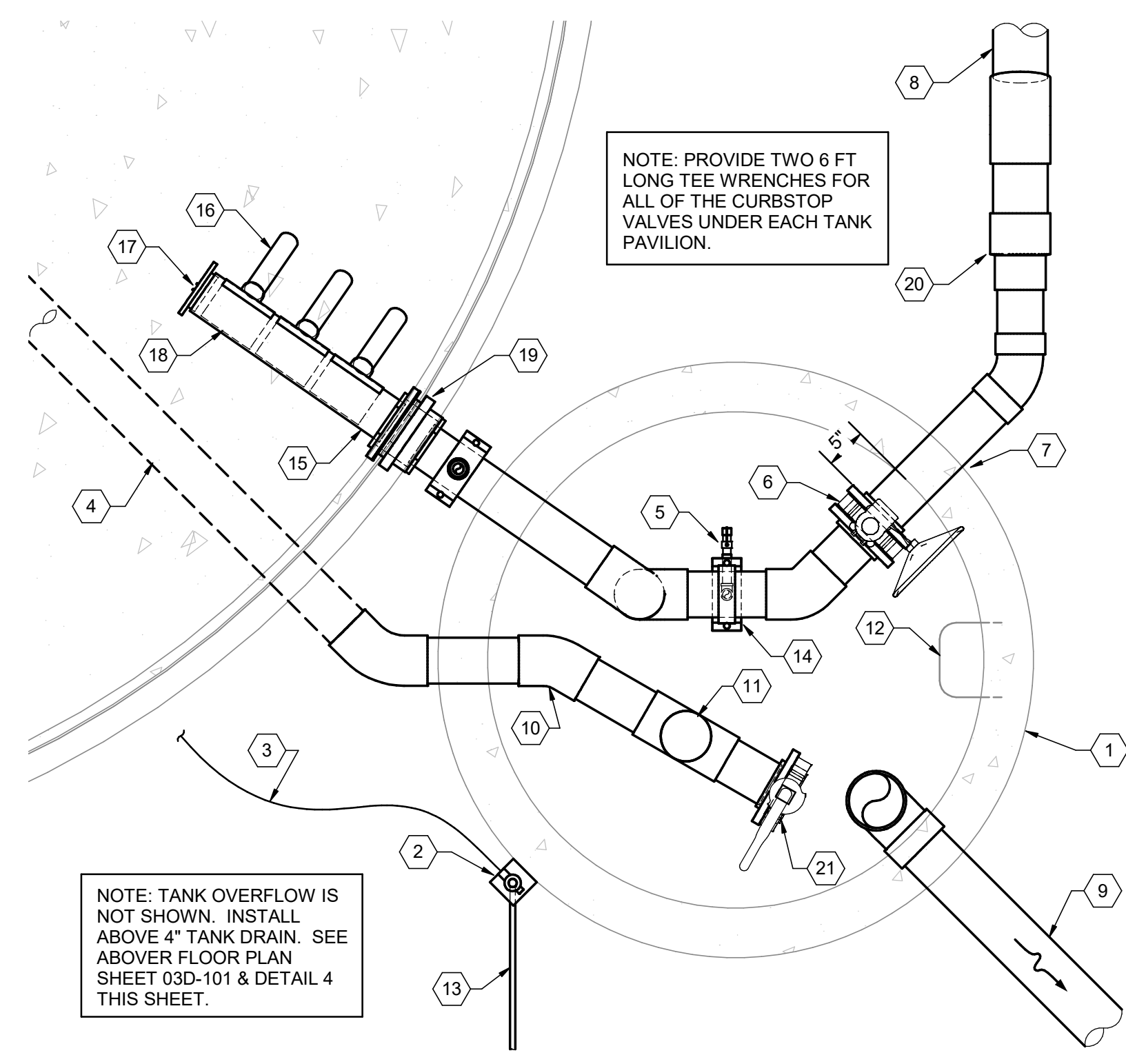
LOWER PAVILION TANK SECTIONS



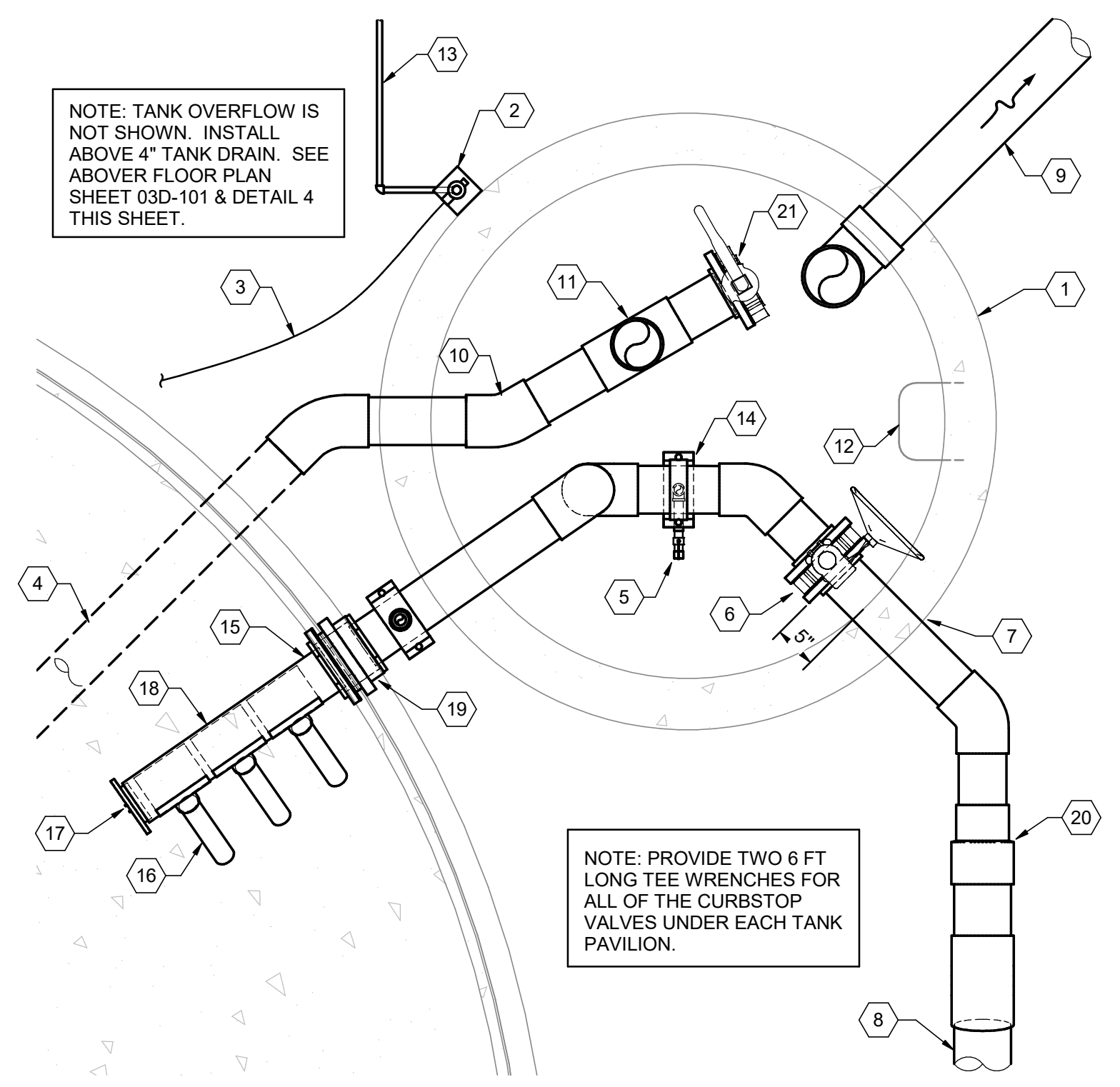
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 SCALE | As indicated

SHEET
03D-301

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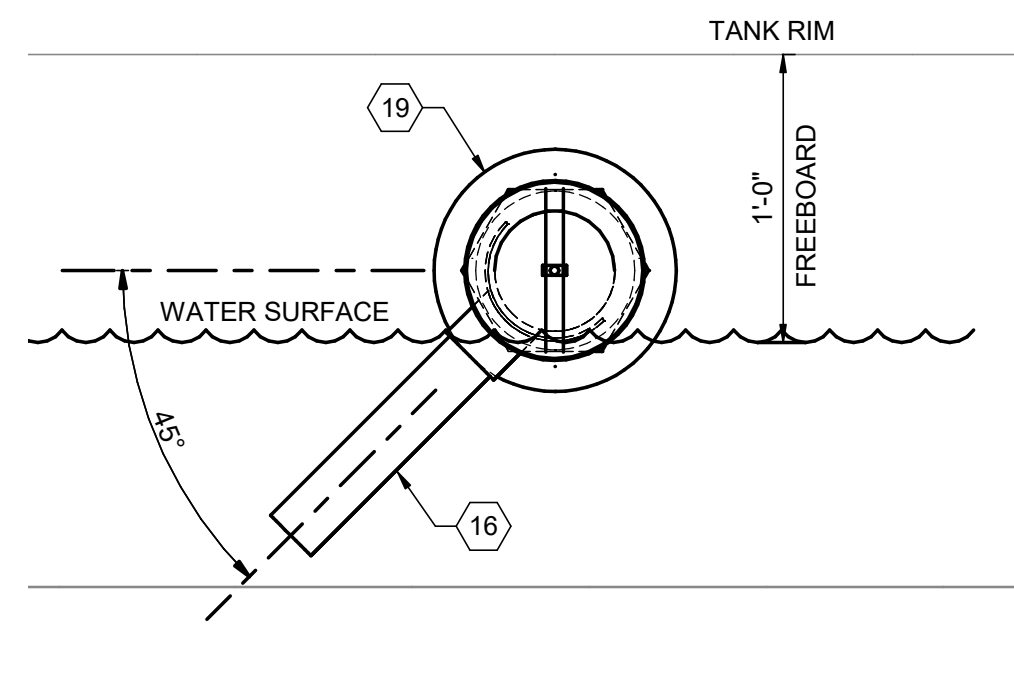


ENLARGED LOWER PAVILION LEFT HANDED VALVE BASIN PLAN
 03D-101 3/4" = 1'-0"

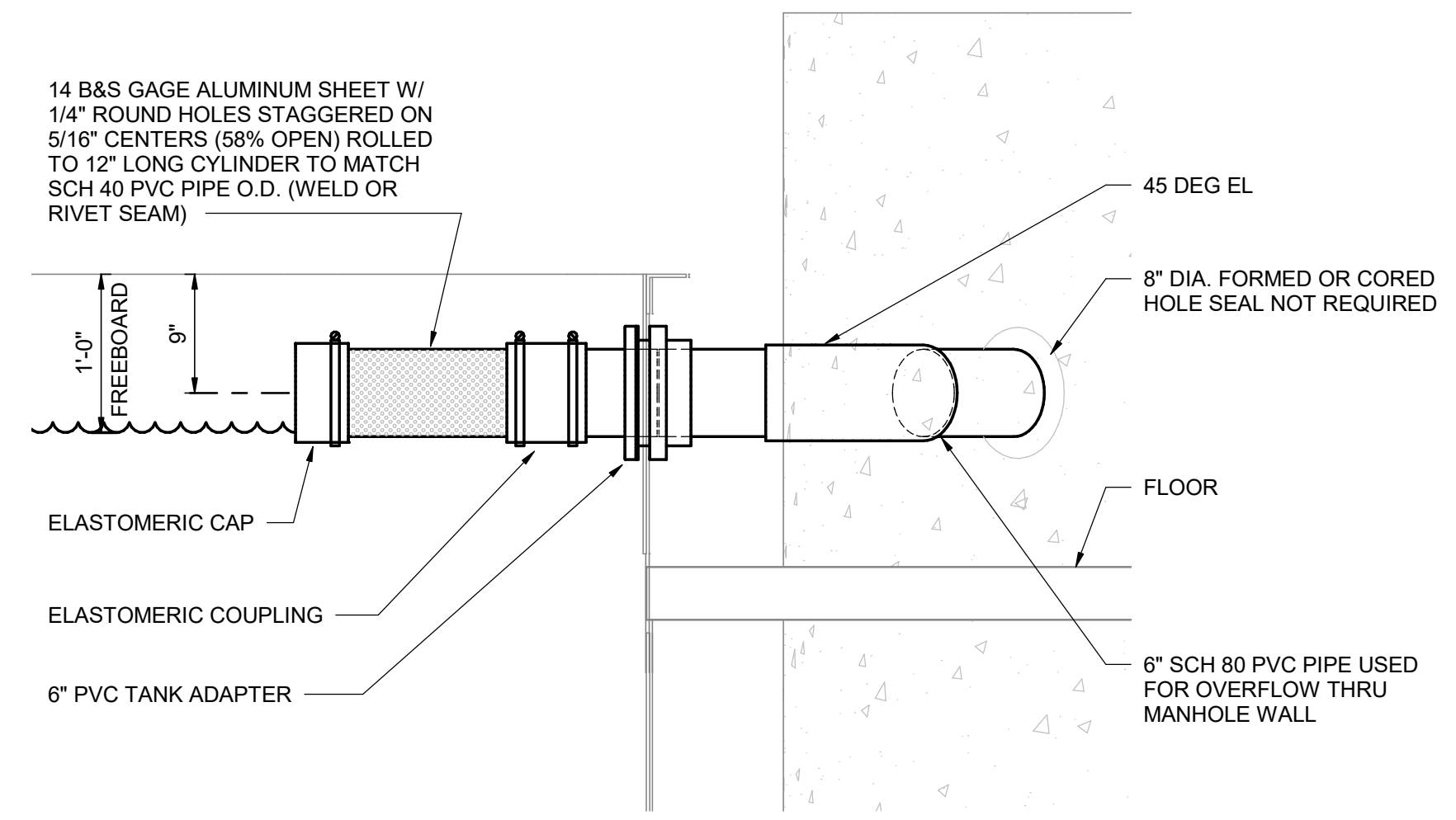


ENLARGED LOWER PAVILION RIGHT HANDED VALVE BASIN PLAN
 03D-101 3/4" = 1'-0"

- KEYED NOTES**
- 1 TYP. 5'-0" ID VALVE BASIN
 - 2 OXY METER
 - 3 HOSE TO OXYGEN DIFFUSER
 - 4 5" DRAIN & OW FROM FISH TANK
 - 5 CURBSTOP VALVE WITH SEMI-PERMANENT SQUARE OPERATOR FROM WINTERIZATION/DRAIN
 - 6 BUTTERFLY VALVE (FISH TANK SUPPLY VALVE)
 - 7 DUCTILE IRON PIPE THRU LINKAGE SEAL
 - 8 6" SUPPLY FROM 10" FWS SUB-MAIN
 - 9 6" WDW BRANCH TO WDW MAIN
 - 10 30 DEGREE BEND CLOSE TO WALL
 - 11 TEE CLOSE TO BEND WITH STANDPIPE FOR OVERFLOW/LEVEL CONTROL
 - 12 MANHOLE STEPS
 - 13 BURIED 1/2" OXY
 - 14 SCH 40 PVC PIPE WITH METAL SERVICE SADDLE WITH FEMALE THREADED 3/4" OUTLET DOWN. TURN CURBSTOP VALVE WITH GALV. STEEL STREET EL.
 - 15 5" SUPPLY TO FISH TANK
 - 16 9" LENGTH OF 2" SCH 40 PVC
 - 17 EXPANSION PLUG
 - 18 5x2 SCH 40 GLUE-ON SADDLE
 - 19 TANK ADAPTER: SCH 80 PVC BULKHEAD WITH AT LEAST 8.75" O.D. BODY (FPT TOWARD TANK) & 6"x5" REDUCING BUSHINGS BOTH SIDES.
 - 20 6"x5" REDUCER
 - 21 5" BUTTERFLY VALVE W/ LEVER AND NECK & STEM EXTENSION FOR TANK DRAIN

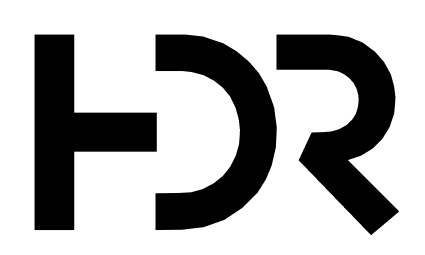


3 SUPPLY HEADER END SECTION
 03D-401 NOT TO SCALE



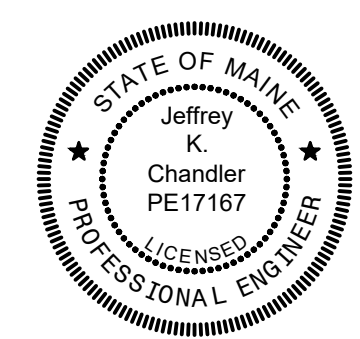
4 OVERFLOW PIPING DETAIL
 03D-401 NOT TO SCALE

Autodesk Docs/10353741_Main/DJF_NewGloucester Impr_2022/10353741-03-D.rvt 5/16/2024 9:06:50 AM



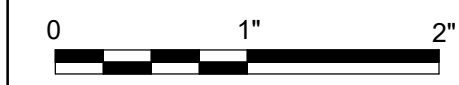
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
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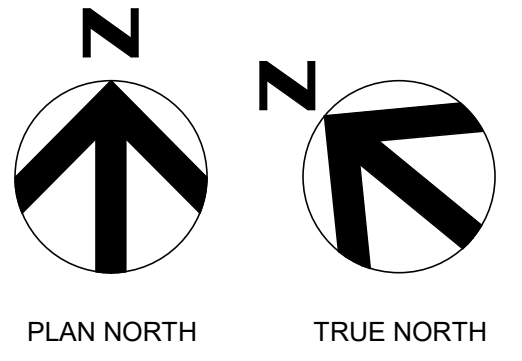
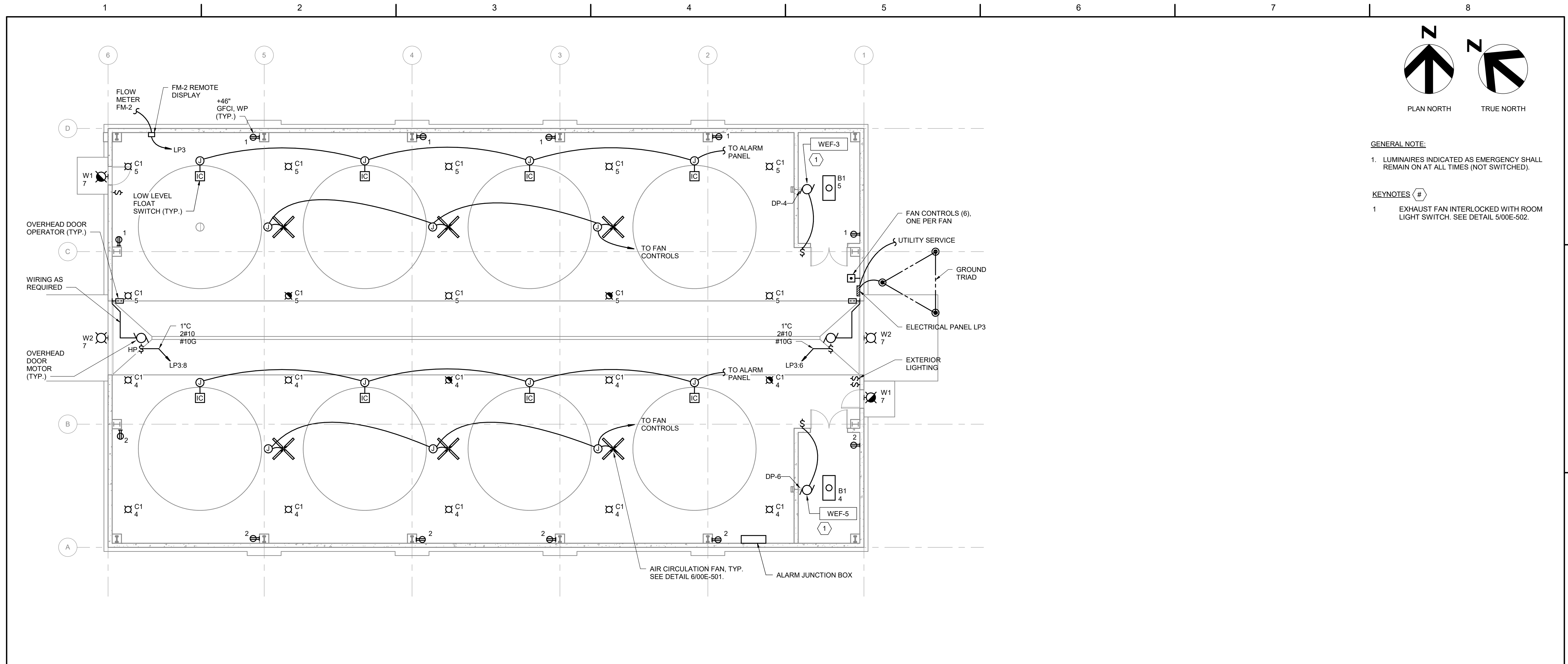
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

LOWER PAVILION ENLARGED PLANS & DETAILS



FILENAME | 10353741-03-D.rvt
 SCALE | As indicated

SHEET
03D-401

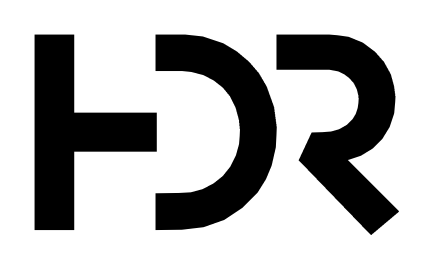


GENERAL NOTE:
 1. LUMINAIRES INDICATED AS EMERGENCY SHALL REMAIN ON AT ALL TIMES (NOT SWITCHED).

KEYNOTES (#)
 1. EXHAUST FAN INTERLOCKED WITH ROOM LIGHT SWITCH. SEE DETAIL 5/00E-502.

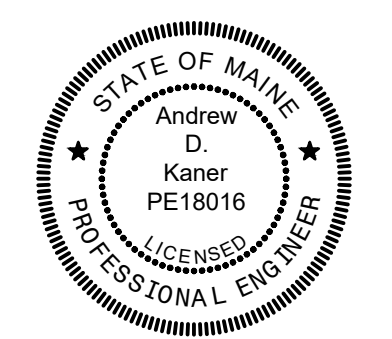
ELECTRICAL PLAN
 1/8" = 1'-0"

Autodesk Docs/10353741_Main/DIF_NewGloucester Impr_2022/10353741-03-E.rvt 5/16/2024 9:10:05 AM

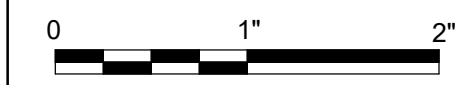


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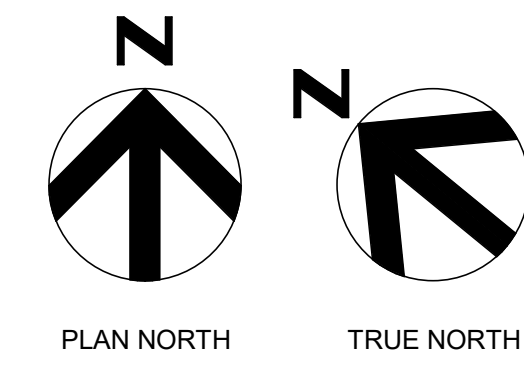
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion



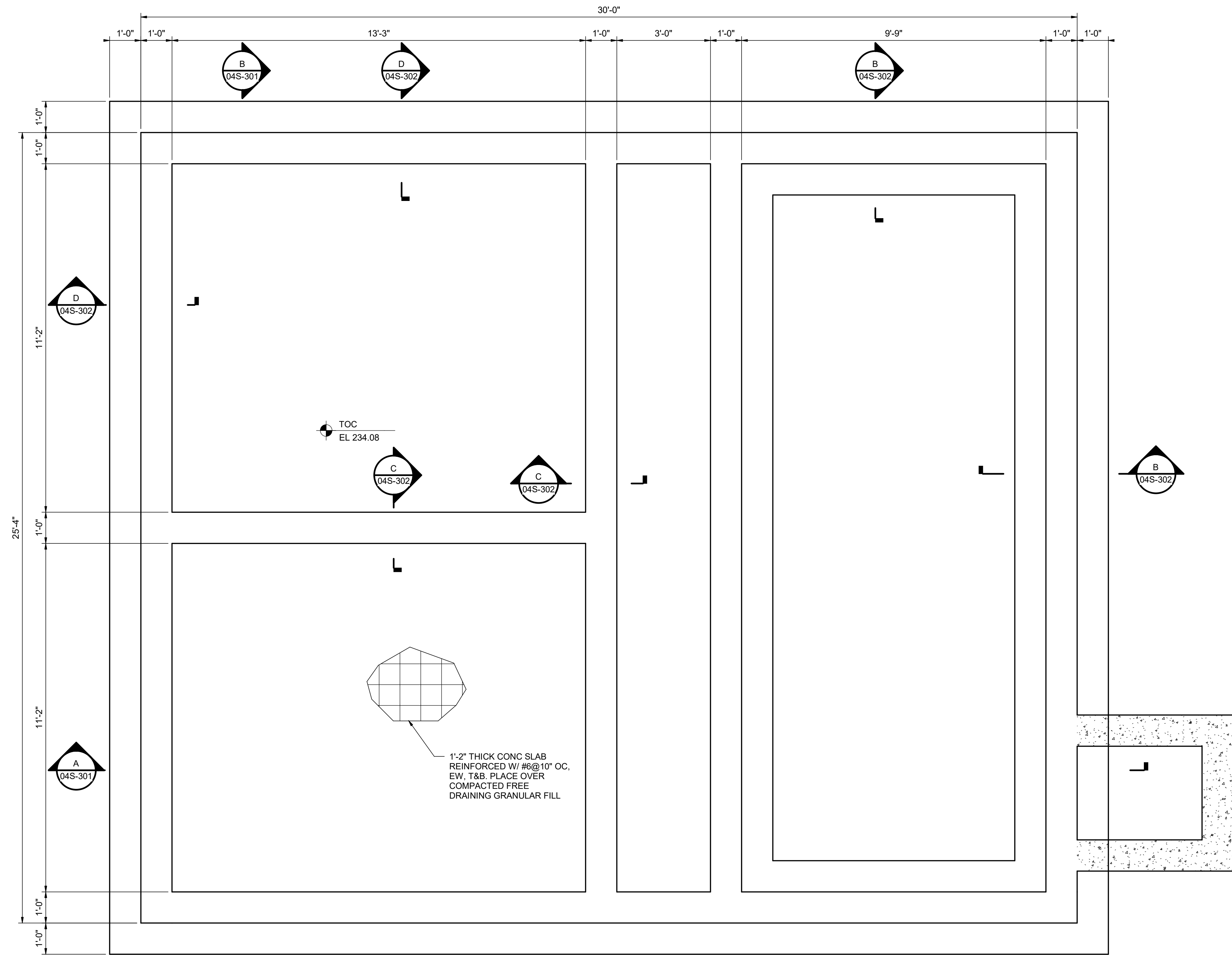
LOWER PAVILION ELECTRICAL PLAN

FILENAME | 10353741-03-E.rvt
 SCALE | 1/8" = 1'-0"

SHEET
03E-101

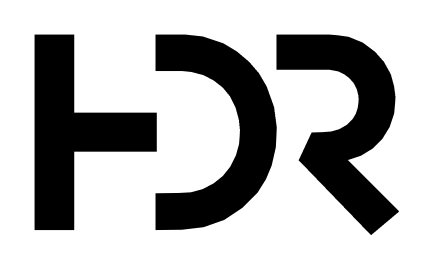


- GENERAL NOTES:**
- SEE SHEET 00S-100 FOR GENERAL STRUCTURAL NOTES.
 - SEE 00S-500 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
 - REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.



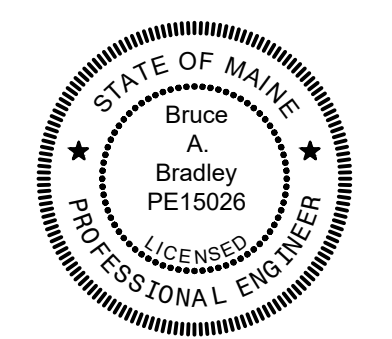
FOUNDATION PLAN
1/2" = 1'-0"

Autodesk Docs/10357541_Main/DIF_NewGloucester Impr_2022/10357541-04-S.rvt 5/16/2024 9:02:54 AM



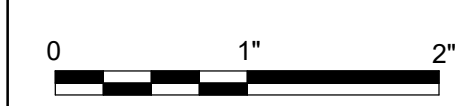
ISSUE	DATE	DESCRIPTION
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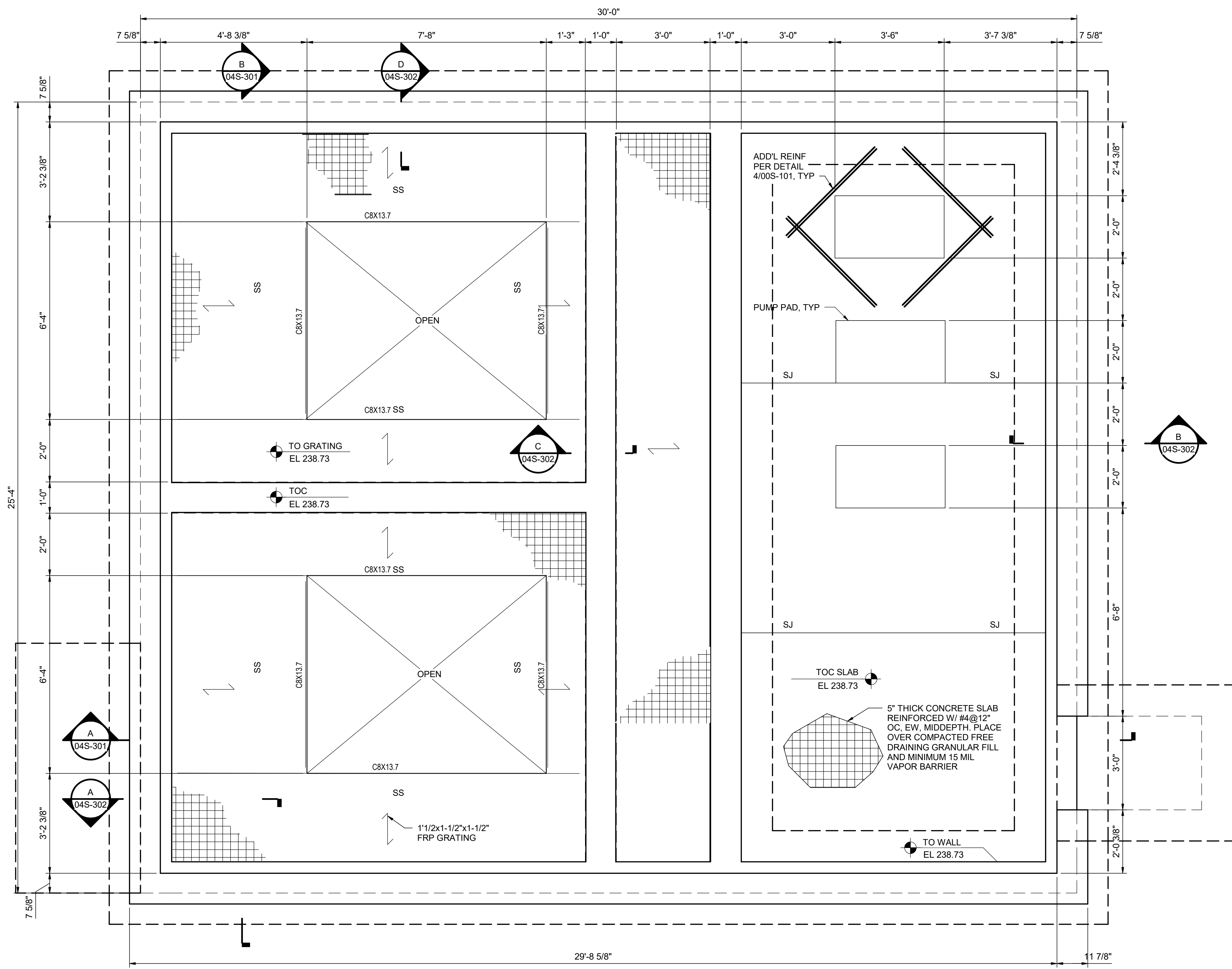
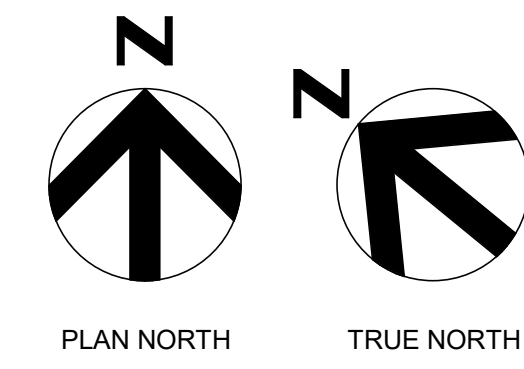
**NEW GLOUCESTER STATE FISH
HATCHERY**
Phase III Facility
Conversion

**EFFLUENT TREATMENT BUILDING
FOUNDATION PLAN**



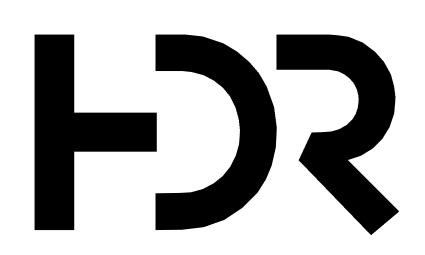
FILENAME | 10357541-04-S.rvt
SCALE | 1/2" = 1'-0"

SHEET
04S-101



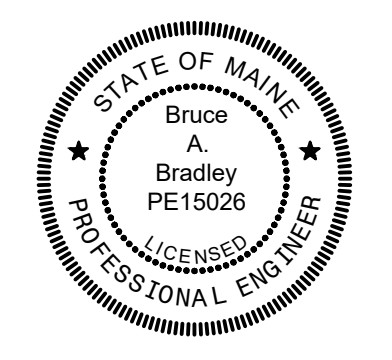
- GENERAL NOTES:**
- SEE SHEET 00S-100 FOR GENERAL STRUCTURAL NOTES.
 - SEE 00S-100 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
 - REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.
 - SEE 00S-104 FOR MASONRY REINFORCEMENT.

PLAN AT 238.73 UNO
1/2" = 1'-0"



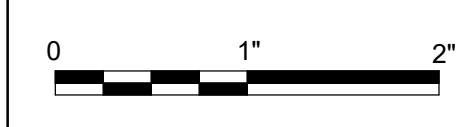
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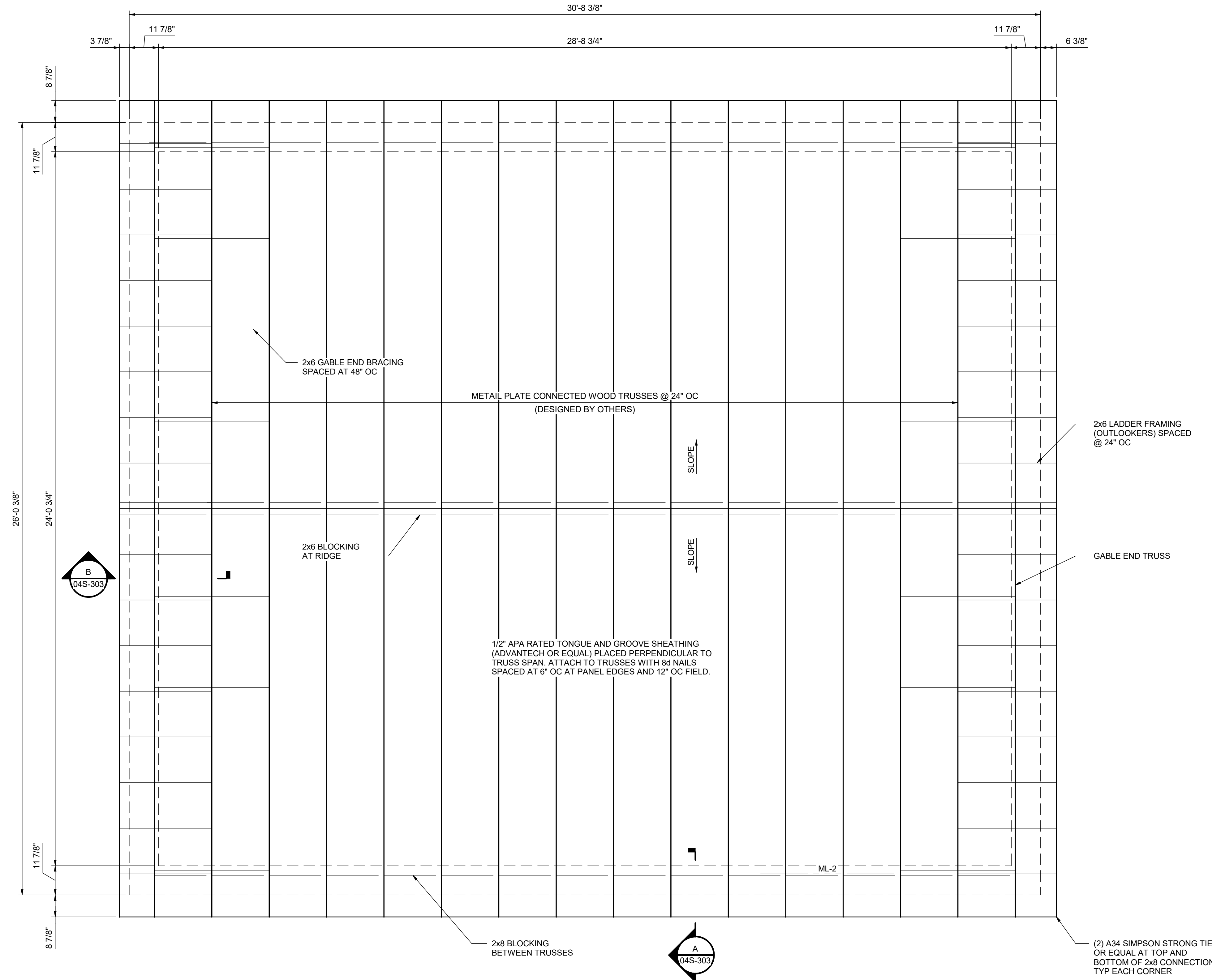
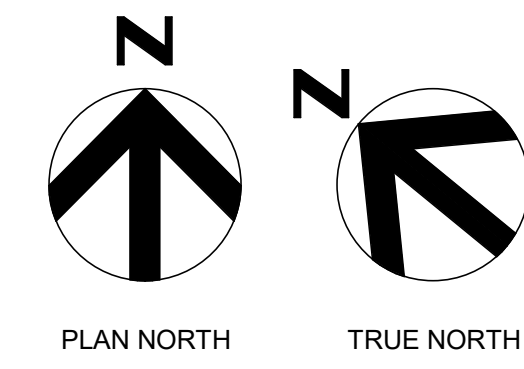
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING
PLAN AT 238.73



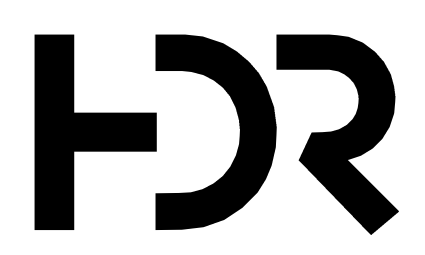
FILENAME | 10357541-04-S.rvt
SCALE | 1/2" = 1'-0"

SHEET
04S-102



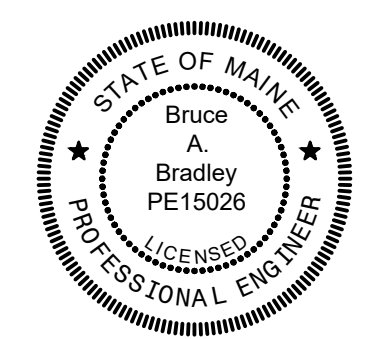
ROOF FRAMING PLAN
1/2" = 1'-0"

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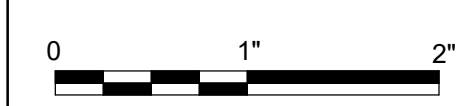
ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER ANDREW GURSKI	
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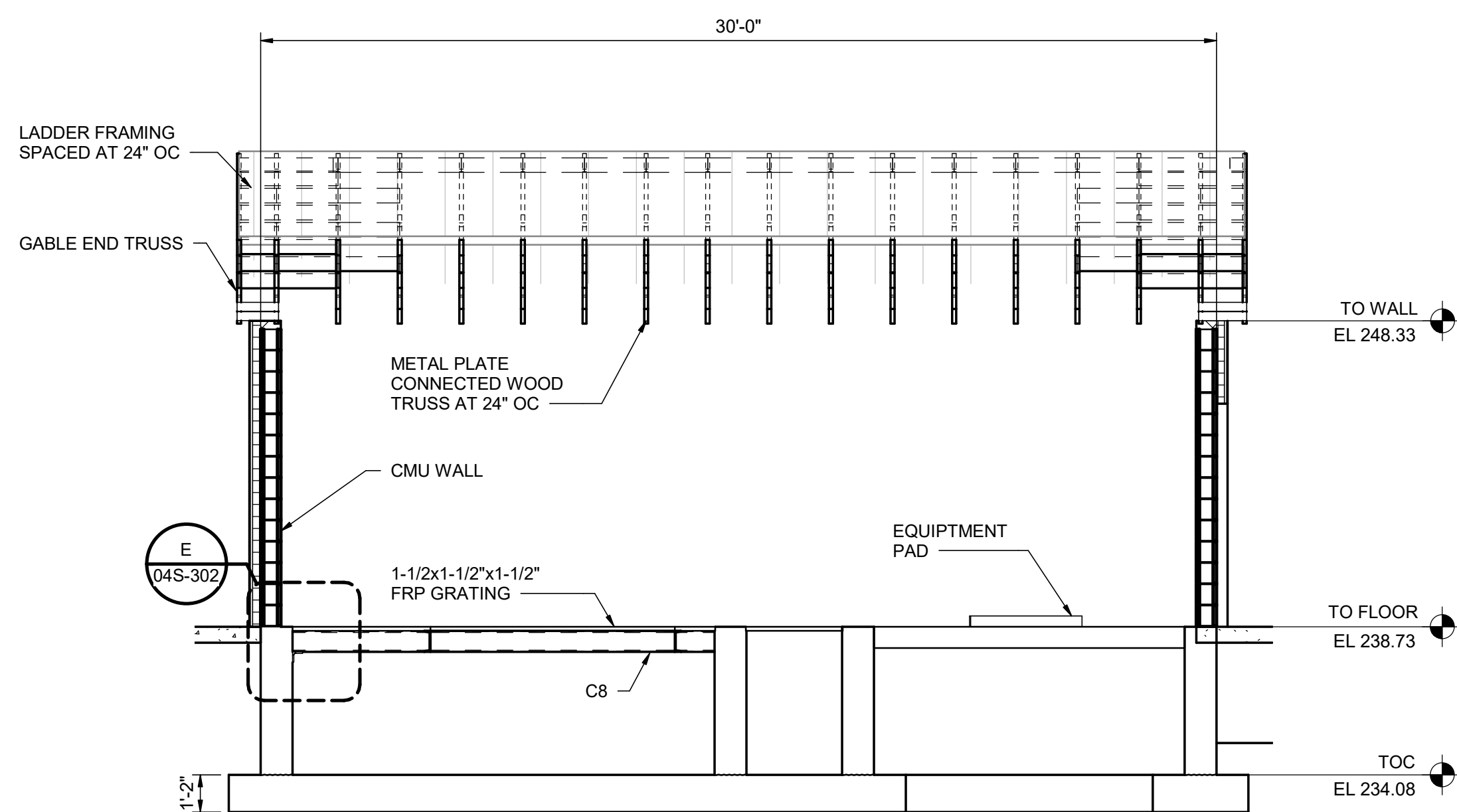
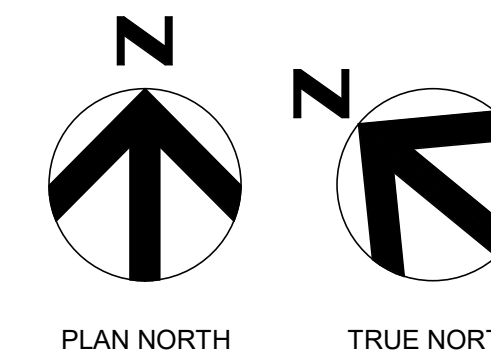
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING ROOF FRAMING PLAN

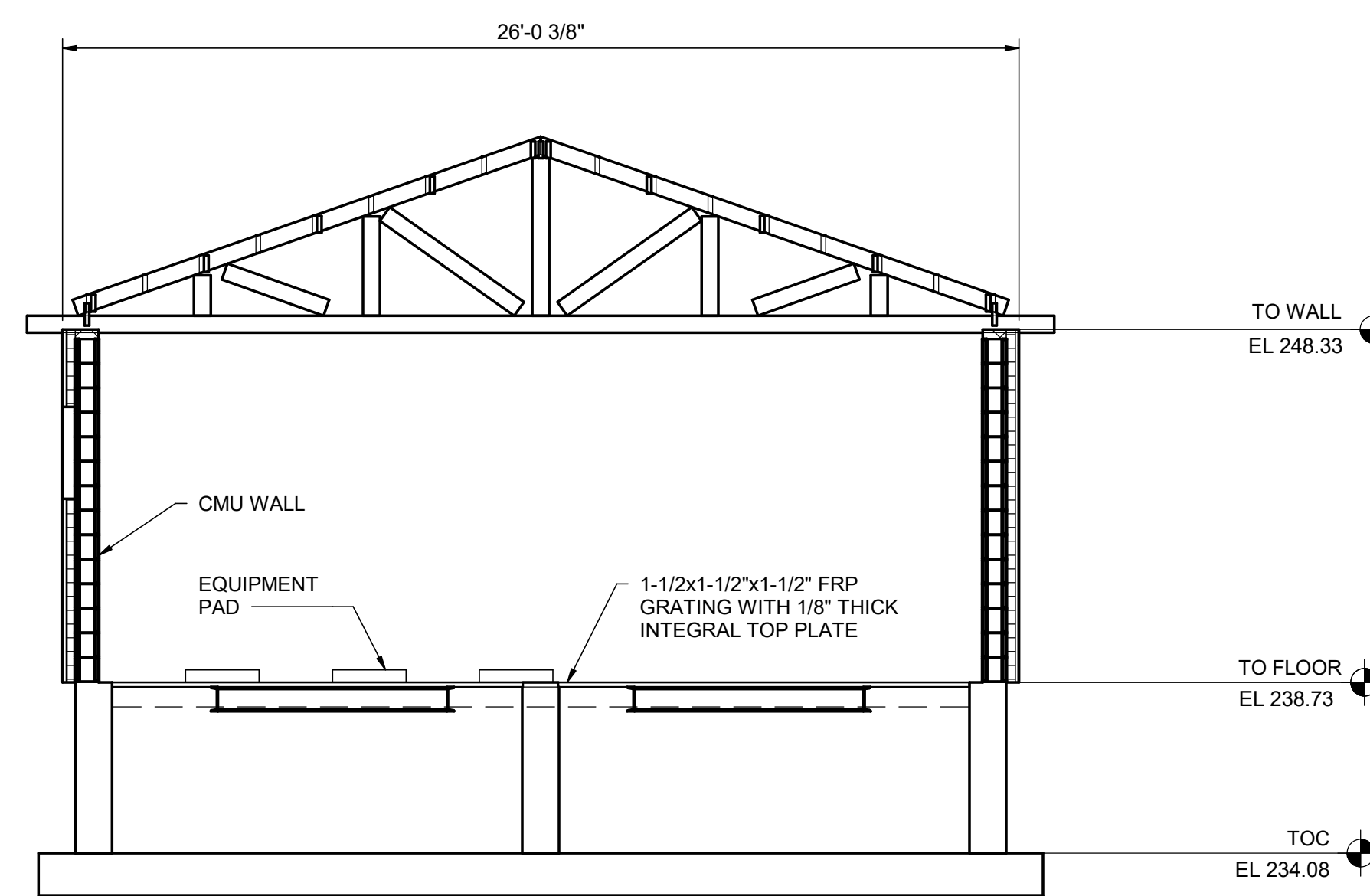


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SCALE | 1/2" = 1'-0"

SHEET
04S-103

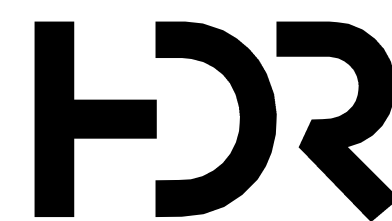


A SECTION
04S-301 1/4" = 1'-0"



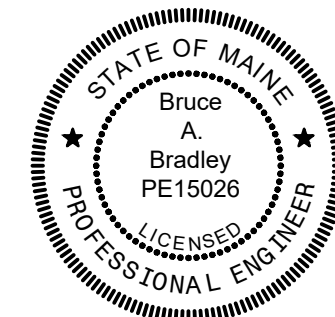
B SECTION
04S-301 1/4" = 1'-0"

Autodesk Docs/10357541_Main/DWG_NewGloucester_Impr_2022/10357541-04-S.rvt 5/16/2024 9:02:44 AM



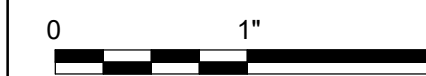
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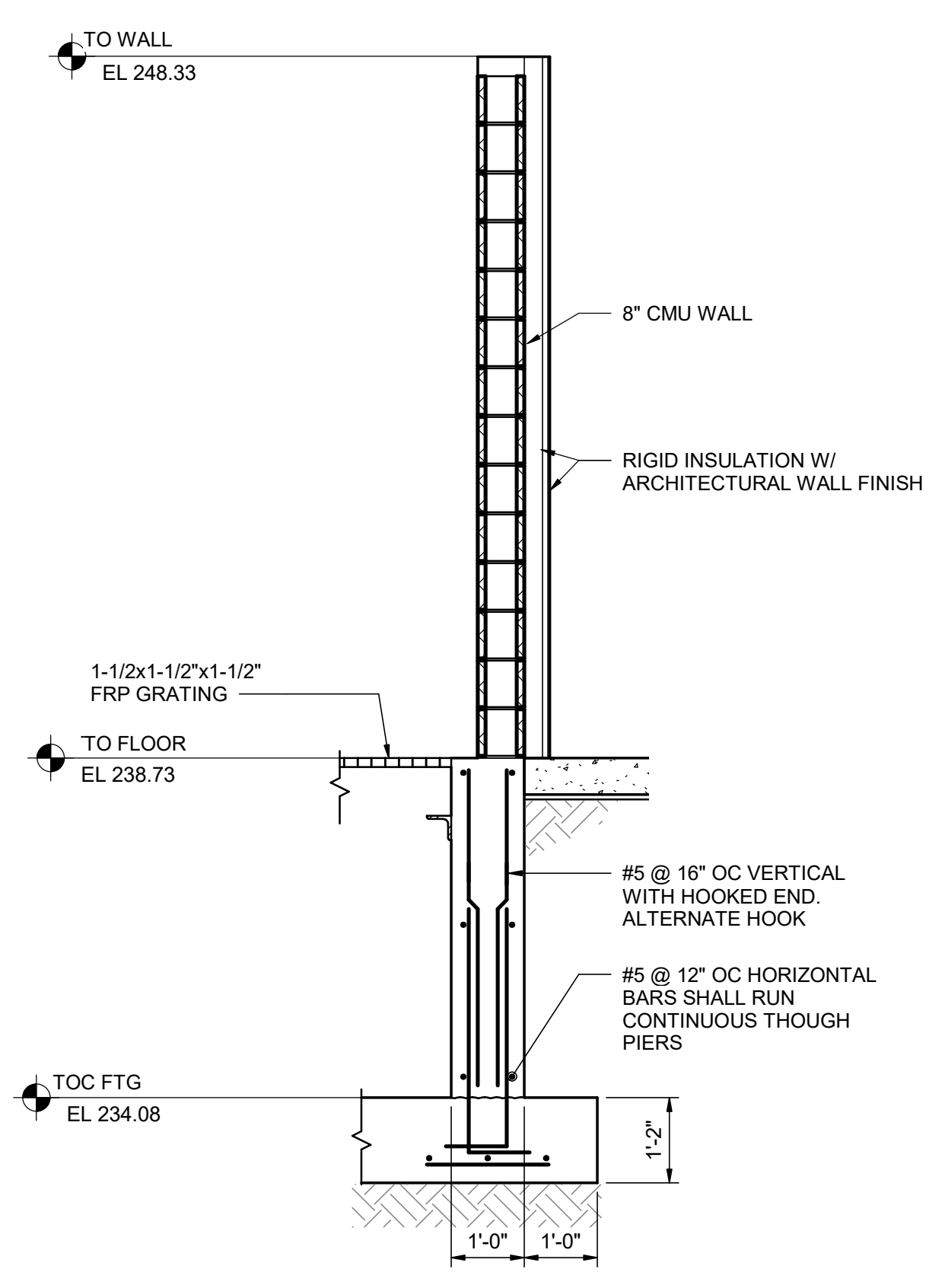
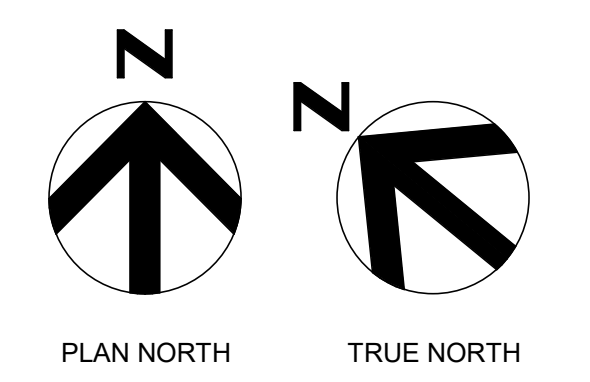
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING SECTIONS

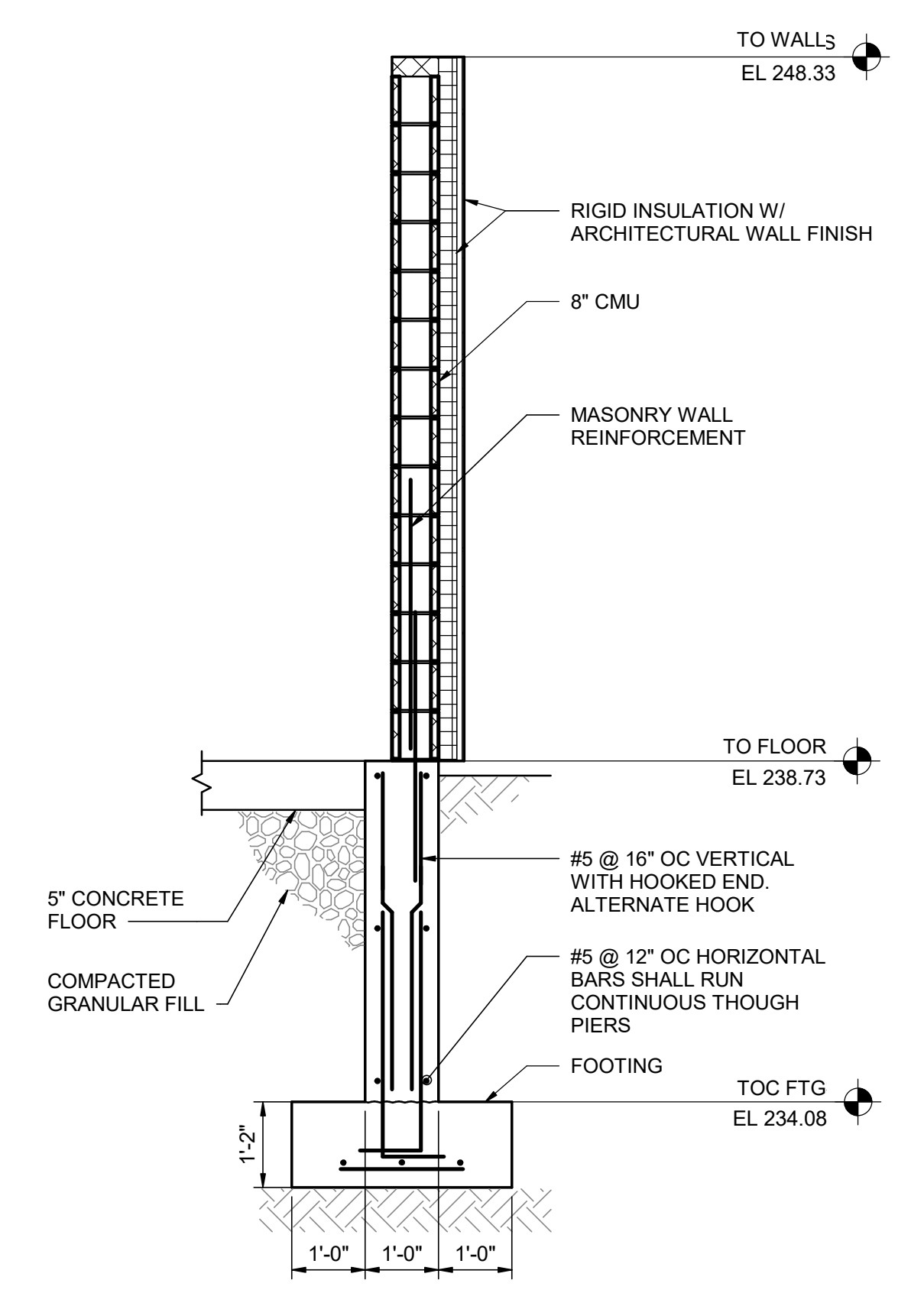


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SCALE | 1/4" = 1'-0"

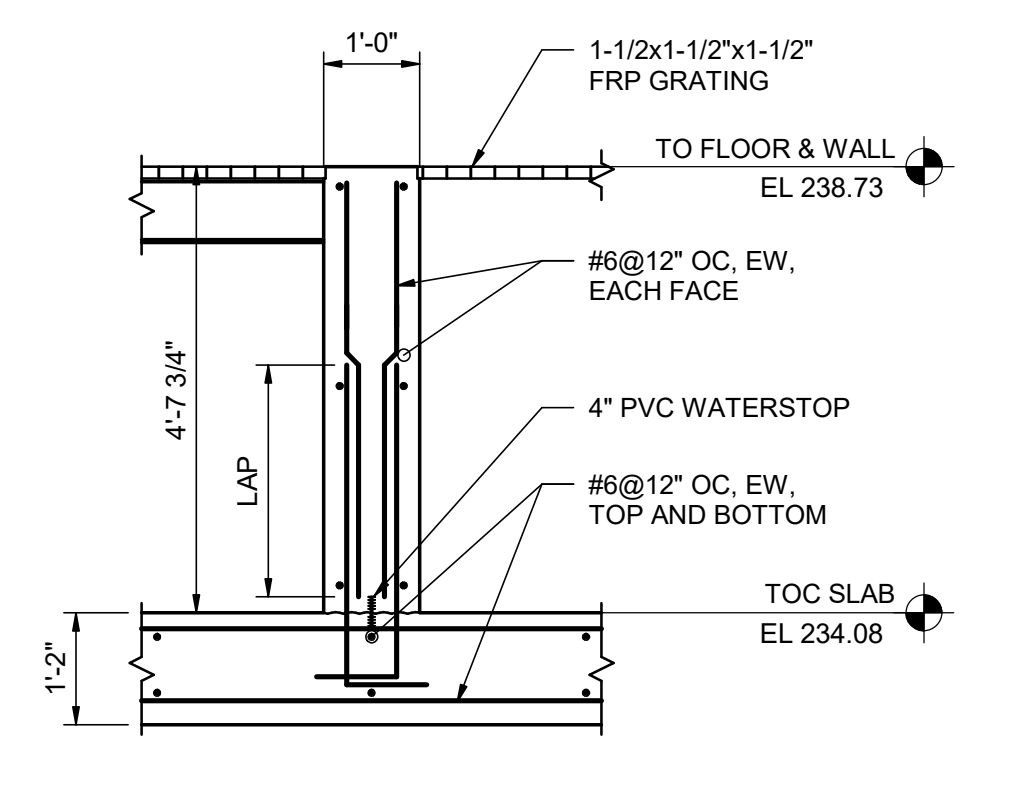
SHEET
04S-301



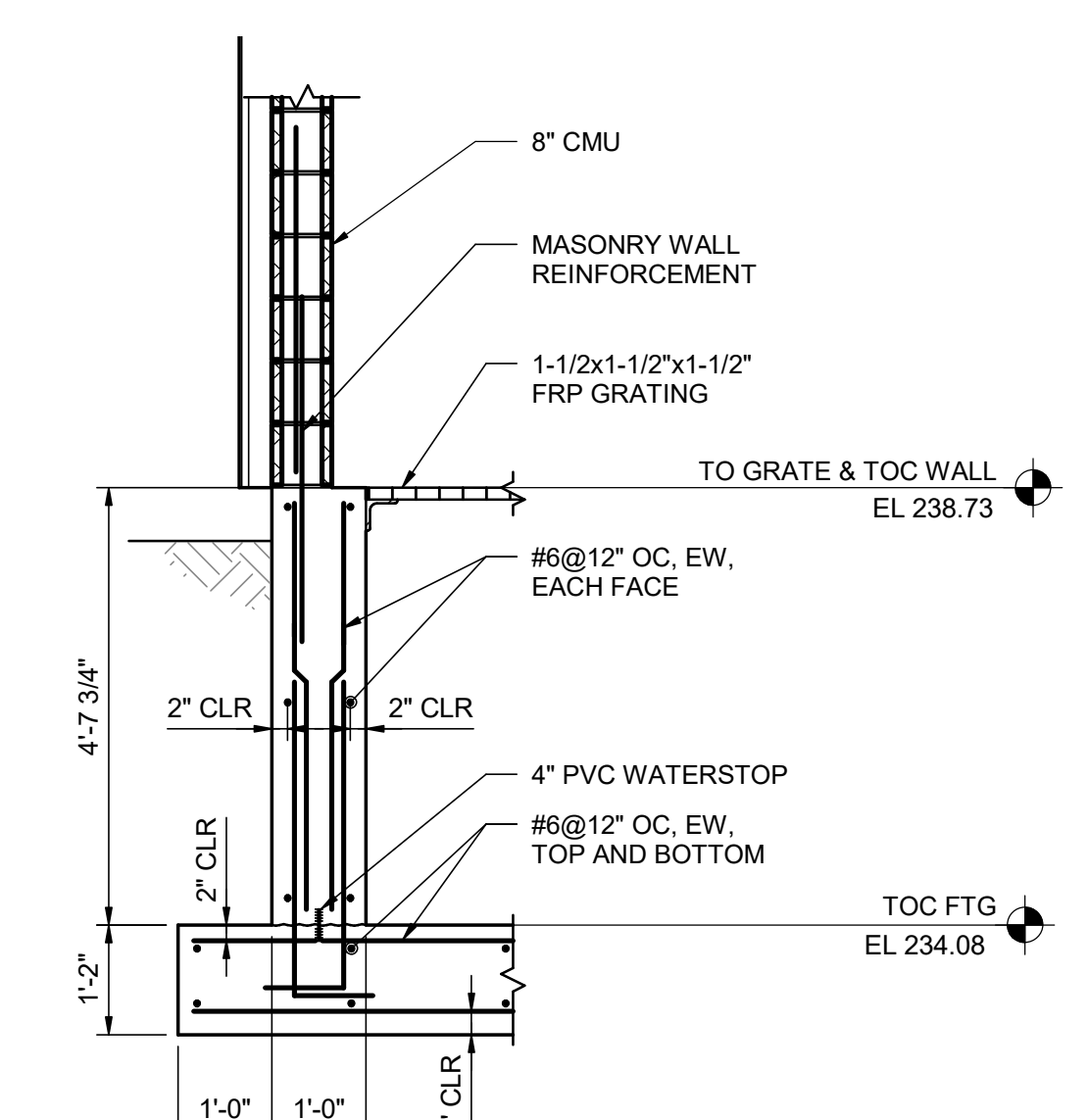
A SECTION
04S-102 1/2" = 1'-0"



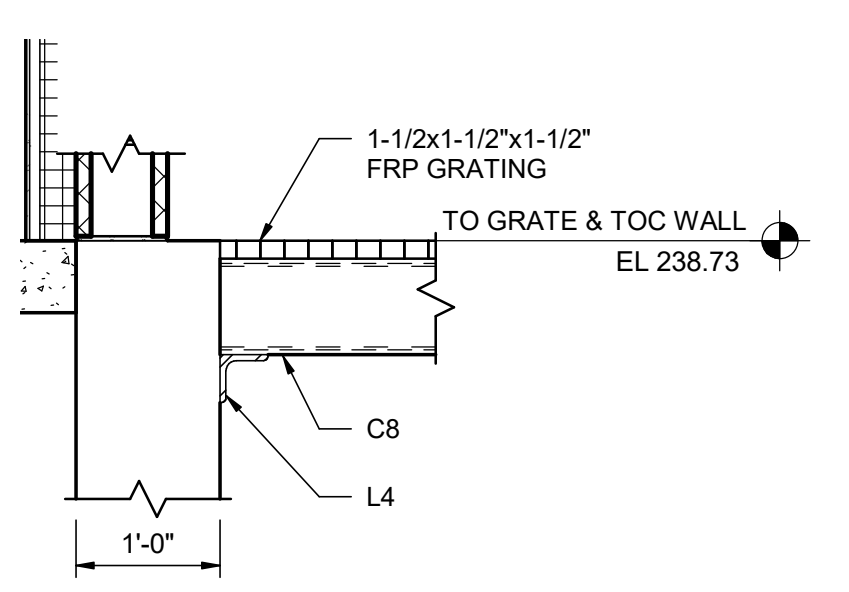
B SECTION
04S-101 1/2" = 1'-0"



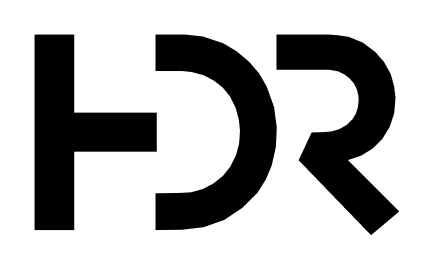
C SECTION
04S-101 1/2" = 1'-0"



D SECTION
04S-101 1/2" = 1'-0"

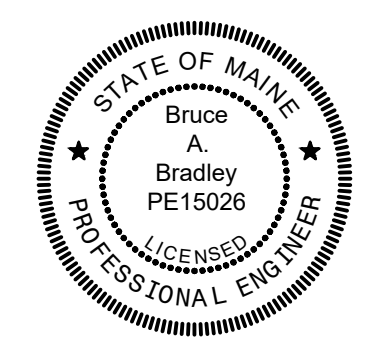


E SECTION
04S-301 3/4" = 1'-0"



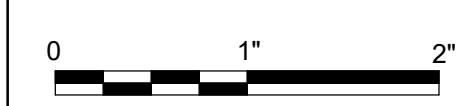
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PROJECT MANAGER	ANDREW GURSKI
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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

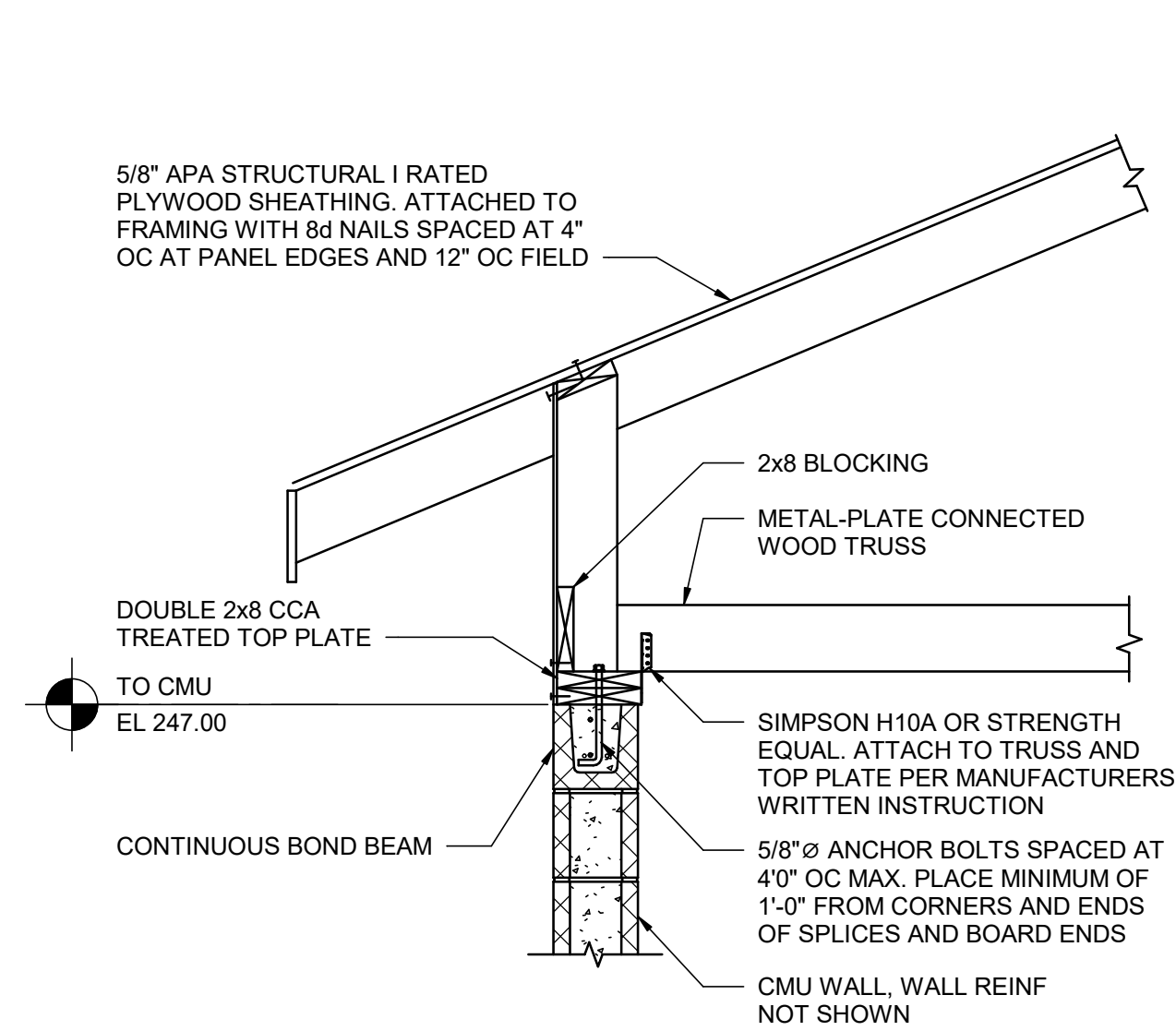
EFFLUENT TREATMENT BUILDING SECTIONS



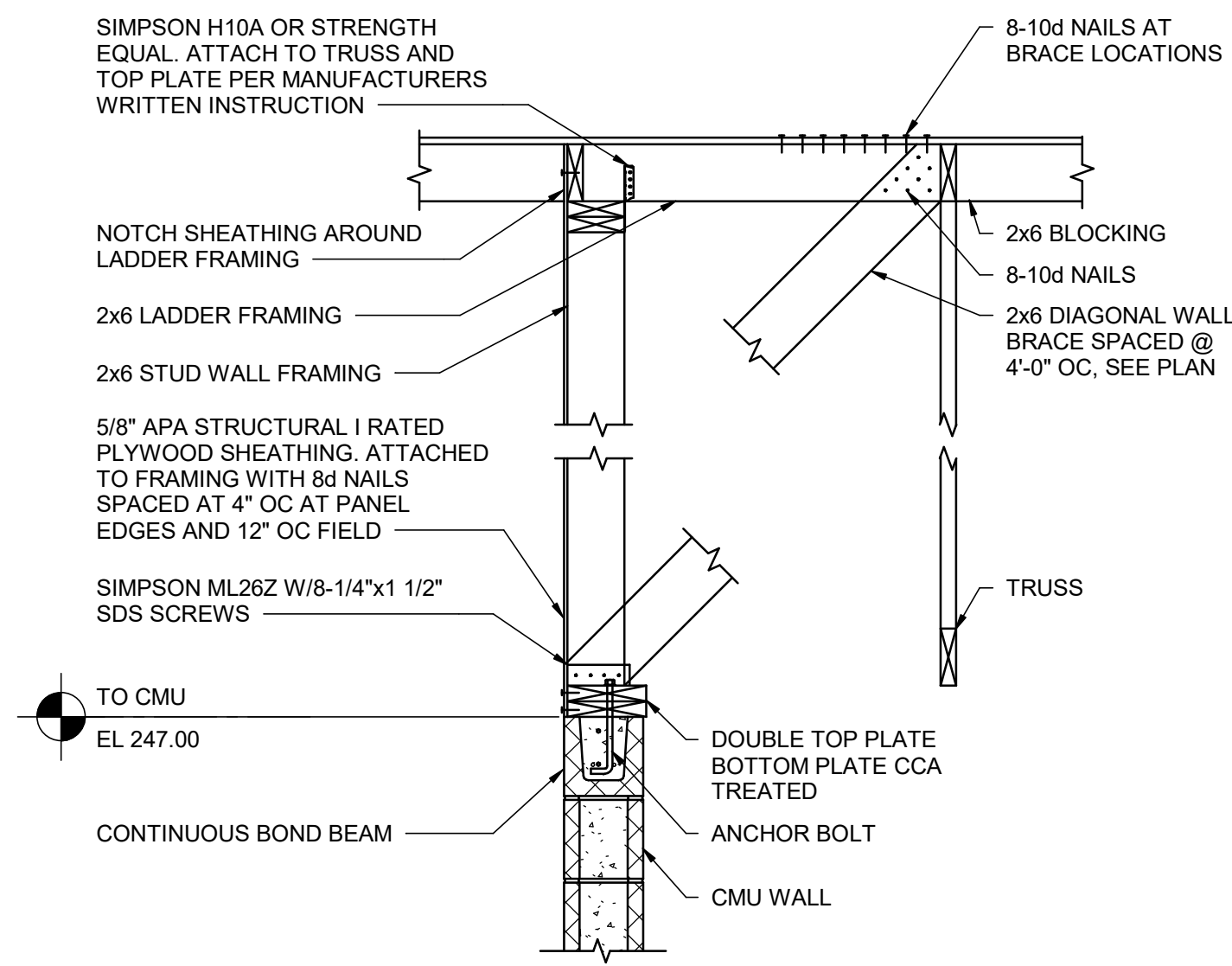
FILENAME | 10357541-04-S.rvt
SCALE | As indicated

SHEET
04S-302

Autodesk Docs/10357541_Main/DWF_NewGloucester Impr_2022/10357541-04-S.rvt 5/16/2024 9:02:41 AM



A SECTION
04S-103 3/4" = 1'-0"



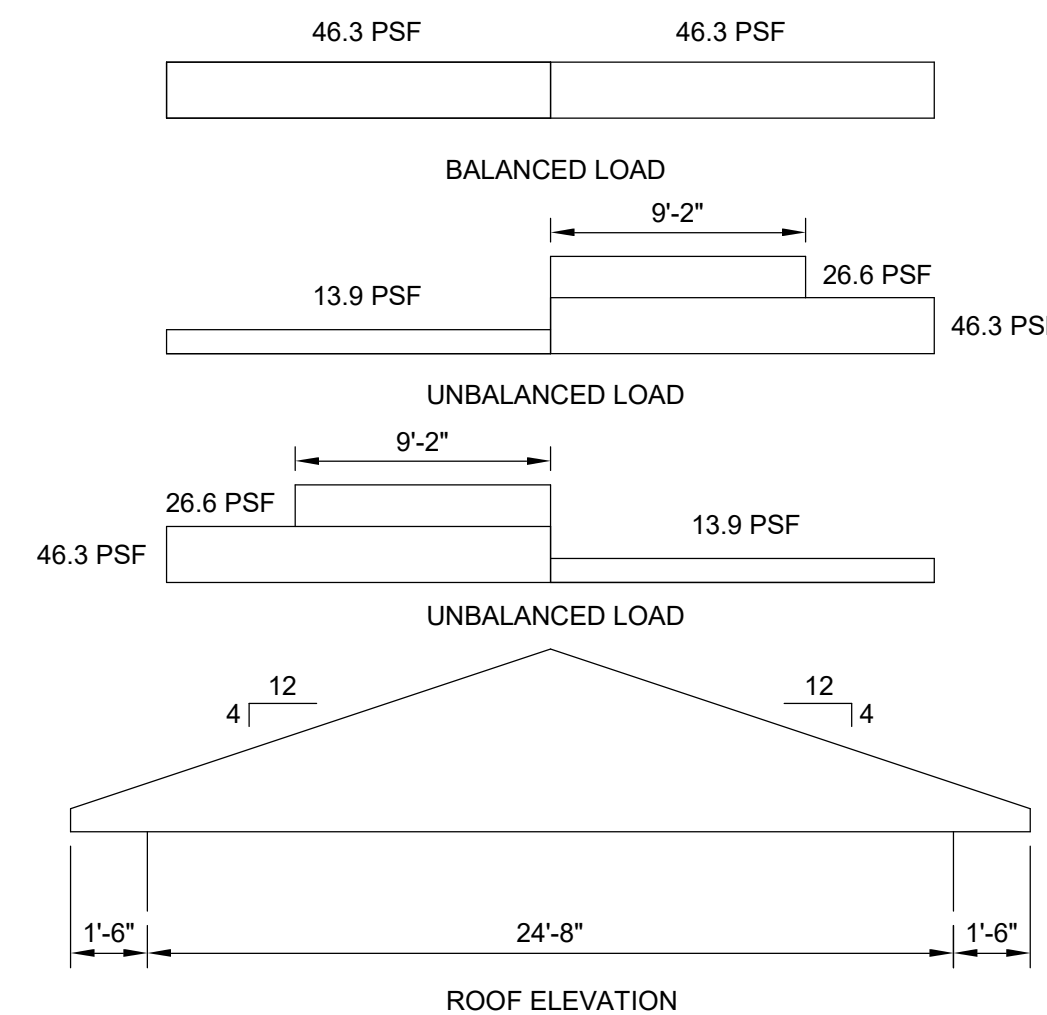
B SECTION
04S-103 3/4" = 1'-0"

3	2	3
2	1	2
3	2	3
2	1	2
3	2	3

ZONE	WIND PRESSURE
1	-33.1 PSF
2	16.0 PSF
3	-39.8 PSF
	16.0 PSF
	-62.8 PSF
	16.0 PSF

TOP CHORD DEAD LOAD = 10 PSF (EXCLUDING TRUSS SELF-WEIGHT)
BOTTOM CHORD DEAD LOAD = 10 PSF

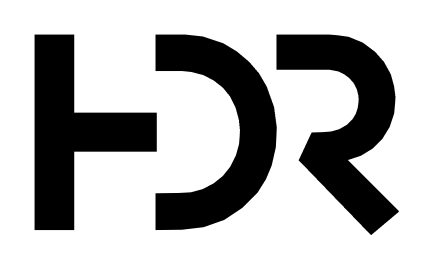
3 DETAIL
12" = 1'-0"



4 DETAIL
12" = 1'-0"

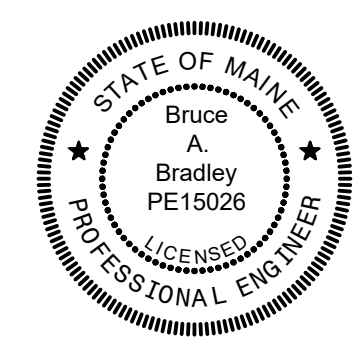
- NOTES:**
- PRE-ENGINEERED TRUSSES SHALL BE DESIGNED BY TRUSS SUPPLIER.
 - COORDINATE ROOF OPENING SIZES WITH ARCHITECTURAL DRAWINGS.
 - TEMPORARY AND PERMANENT BRACING NOT SHOWN. SIZES AND LOCATIONS OF BRACING TO BE DESIGNED BY CONTRACTOR'S ENGINEER AND SUBMITTED WITH TRUSS SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.

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ELECTRICAL	A. KANER
PROJECT NUMBER	10357541



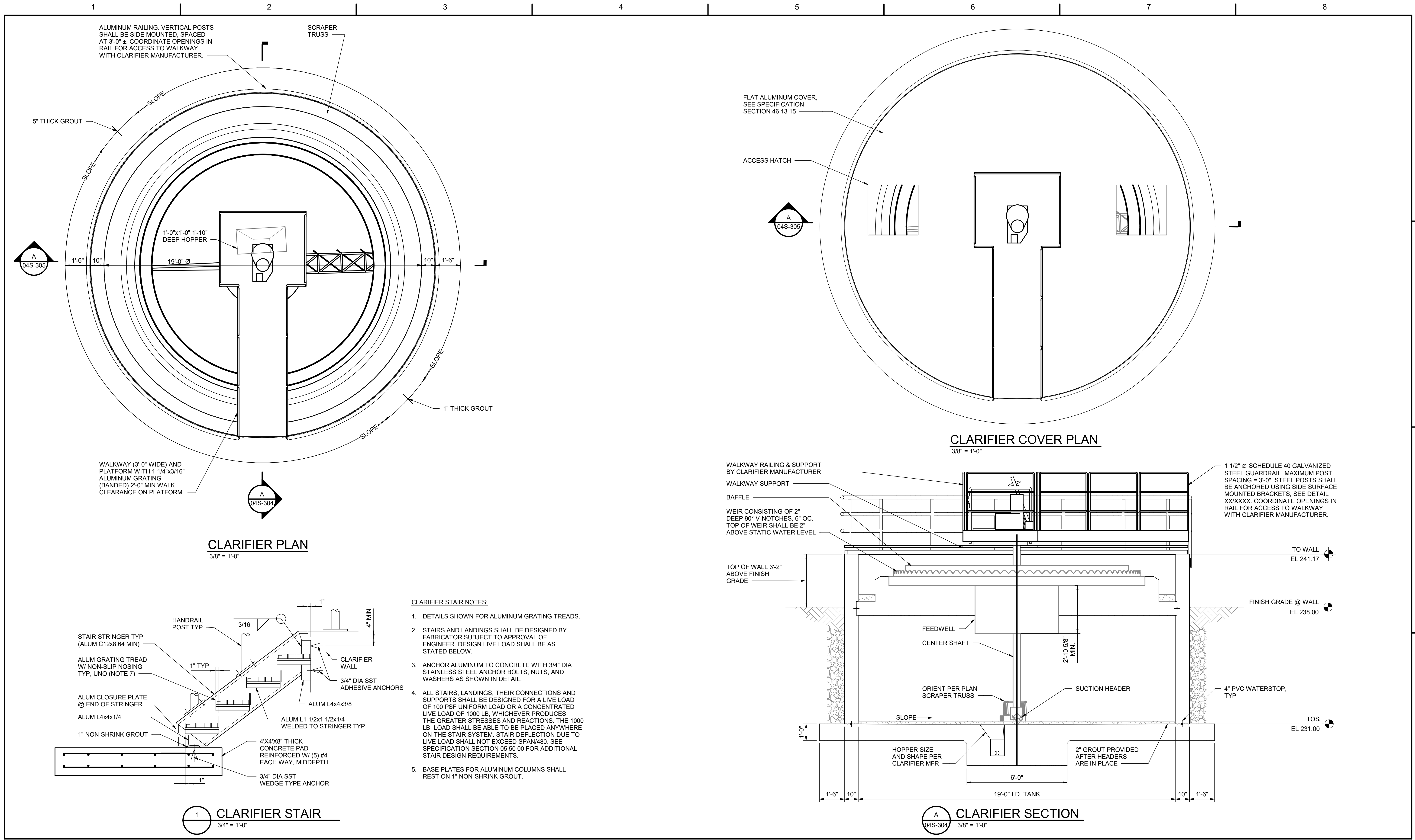
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING ROOF FRAMING SECTIONS AND DETAILS



FILENAME | 10357541-04-S.rvt
SCALE | As indicated

SHEET
04S-303



ALUMINUM RAILING, VERTICAL POSTS SHALL BE SIDE MOUNTED, SPACED AT 3'-0" ±. COORDINATE OPENINGS IN RAIL FOR ACCESS TO WALKWAY WITH CLARIFIER MANUFACTURER.

SCRAPER TRUSS

5" THICK GROUT

FLAT ALUMINUM COVER, SEE SPECIFICATION SECTION 46 13 15

ACCESS HATCH

1'-0"x1'-0" 1'-10" DEEP HOPPER

19'-0" Ø

A 04S-305

A 04S-305

1" THICK GROUT

WALKWAY (3'-0" WIDE) AND PLATFORM WITH 1 1/4"x3/16" ALUMINUM GRATING (BANDED) 2'-0" MIN WALK CLEARANCE ON PLATFORM.

A 04S-304

CLARIFIER COVER PLAN

3/8" = 1'-0"

CLARIFIER PLAN

3/8" = 1'-0"

WALKWAY RAILING & SUPPORT BY CLARIFIER MANUFACTURER

WALKWAY SUPPORT

BAFFLE

WEIR CONSISTING OF 2" DEEP 90° V-NOTCHES, 6" OC. TOP OF WEIR SHALL BE 2" ABOVE STATIC WATER LEVEL

1 1/2" Ø SCHEDULE 40 GALVANIZED STEEL GUARDRAIL, MAXIMUM POST SPACING = 3'-0". STEEL POSTS SHALL BE ANCHORED USING SIDE SURFACE MOUNTED BRACKETS, SEE DETAIL XX/XXXX. COORDINATE OPENINGS IN RAIL FOR ACCESS TO WALKWAY WITH CLARIFIER MANUFACTURER.

TO WALL EL 241.17

FINISH GRADE @ WALL EL 238.00

TOS EL 231.00

TOP OF WALL 3'-2" ABOVE FINISH GRADE

FEEDWELL

CENTER SHAFT

ORIENT PER PLAN SCRAPER TRUSS

SUCTION HEADER

SLOPE

HOPPER SIZE AND SHAPE PER CLARIFIER MFR

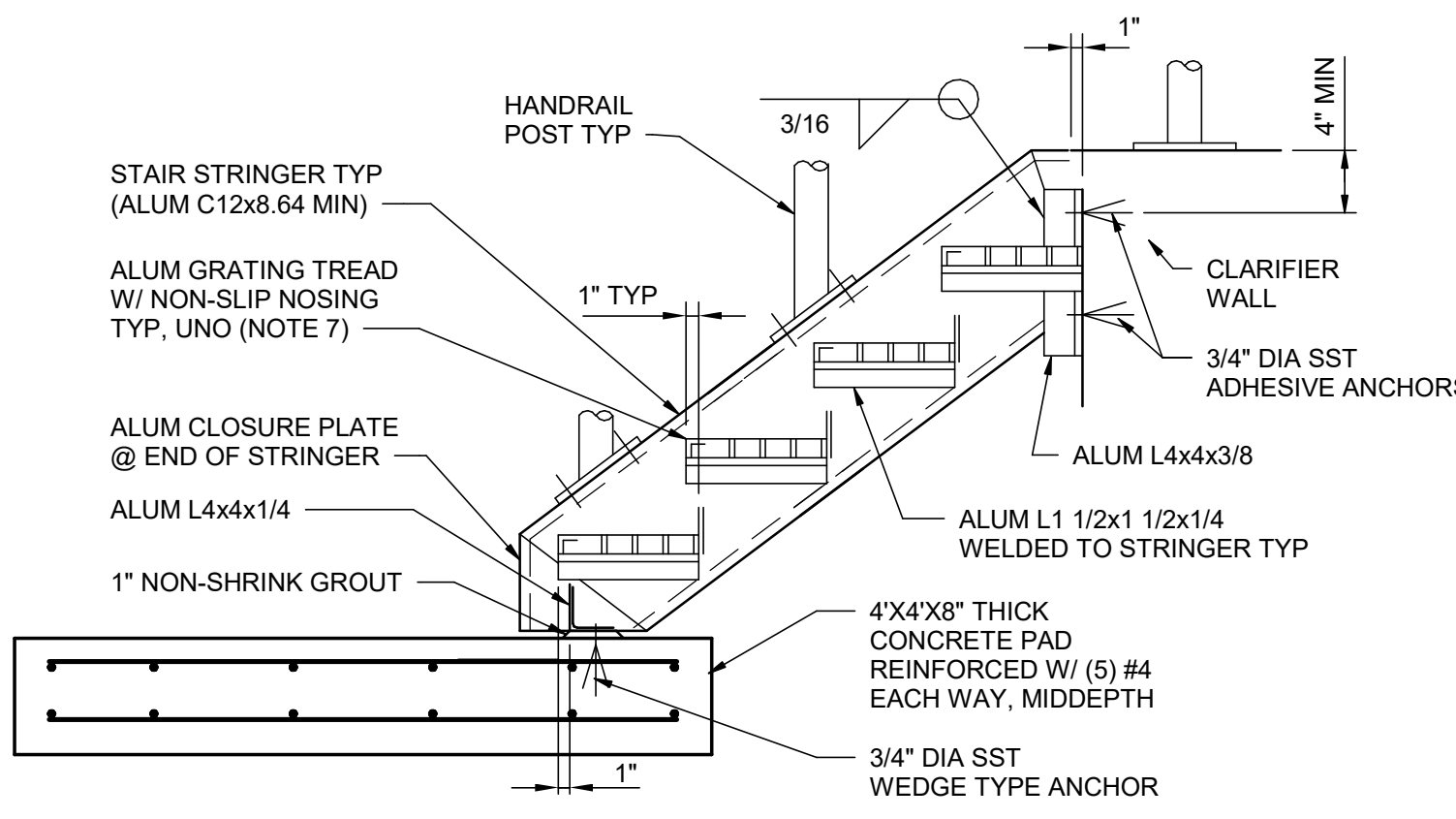
2" GROUT PROVIDED AFTER HEADERS ARE IN PLACE

CLARIFIER SECTION

3/8" = 1'-0"

CLARIFIER STAIR NOTES:

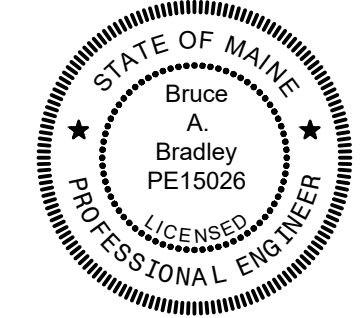
1. DETAILS SHOWN FOR ALUMINUM GRATING TREADS.
2. STAIRS AND LANDINGS SHALL BE DESIGNED BY FABRICATOR SUBJECT TO APPROVAL OF ENGINEER. DESIGN LIVE LOAD SHALL BE AS STATED BELOW.
3. ANCHOR ALUMINUM TO CONCRETE WITH 3/4" DIA STAINLESS STEEL ANCHOR BOLTS, NUTS, AND WASHERS AS SHOWN IN DETAIL.
4. ALL STAIRS, LANDINGS, THEIR CONNECTIONS AND SUPPORTS SHALL BE DESIGNED FOR A LIVE LOAD OF 100 PSF UNIFORM LOAD OR A CONCENTRATED LIVE LOAD OF 1000 LB, WHICHEVER PRODUCES THE GREATER STRESSES AND REACTIONS. THE 1000 LB LOAD SHALL BE ABLE TO BE PLACED ANYWHERE ON THE STAIR SYSTEM. STAIR DEFLECTION DUE TO LIVE LOAD SHALL NOT EXCEED SPAN/480. SEE SPECIFICATION SECTION 05 50 00 FOR ADDITIONAL STAIR DESIGN REQUIREMENTS.
5. BASE PLATES FOR ALUMINUM COLUMNS SHALL REST ON 1" NON-SHRINK GROUT.



CLARIFIER STAIR

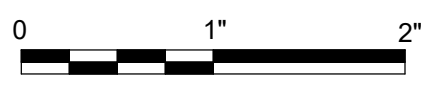
3/4" = 1'-0"

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357541



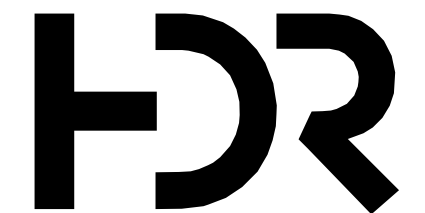
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING CLARIFIER PLANS AND SECTION



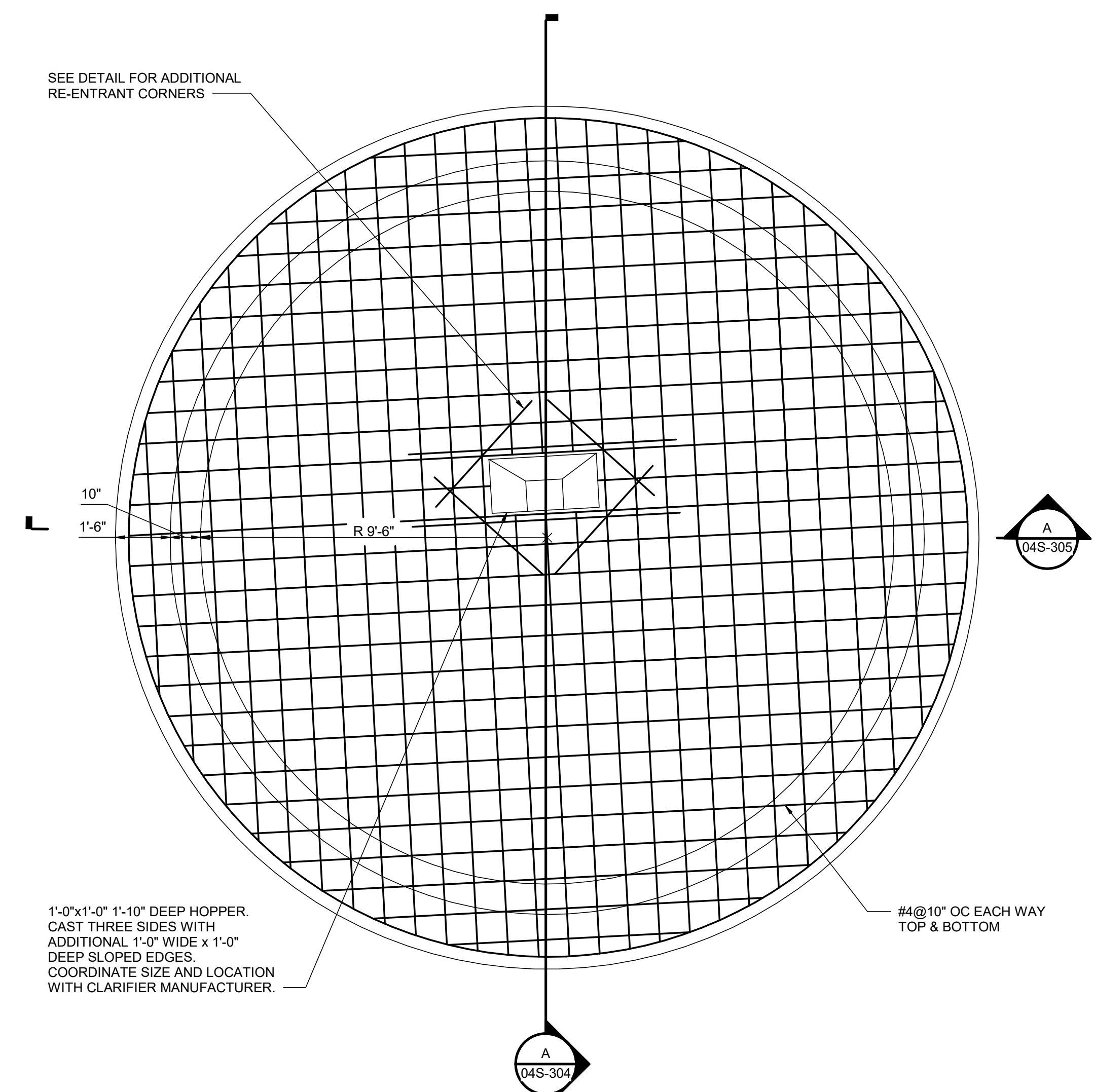
FILENAME | 10357541-04-S.rvt
SCALE | As indicated

SHEET
04S-304



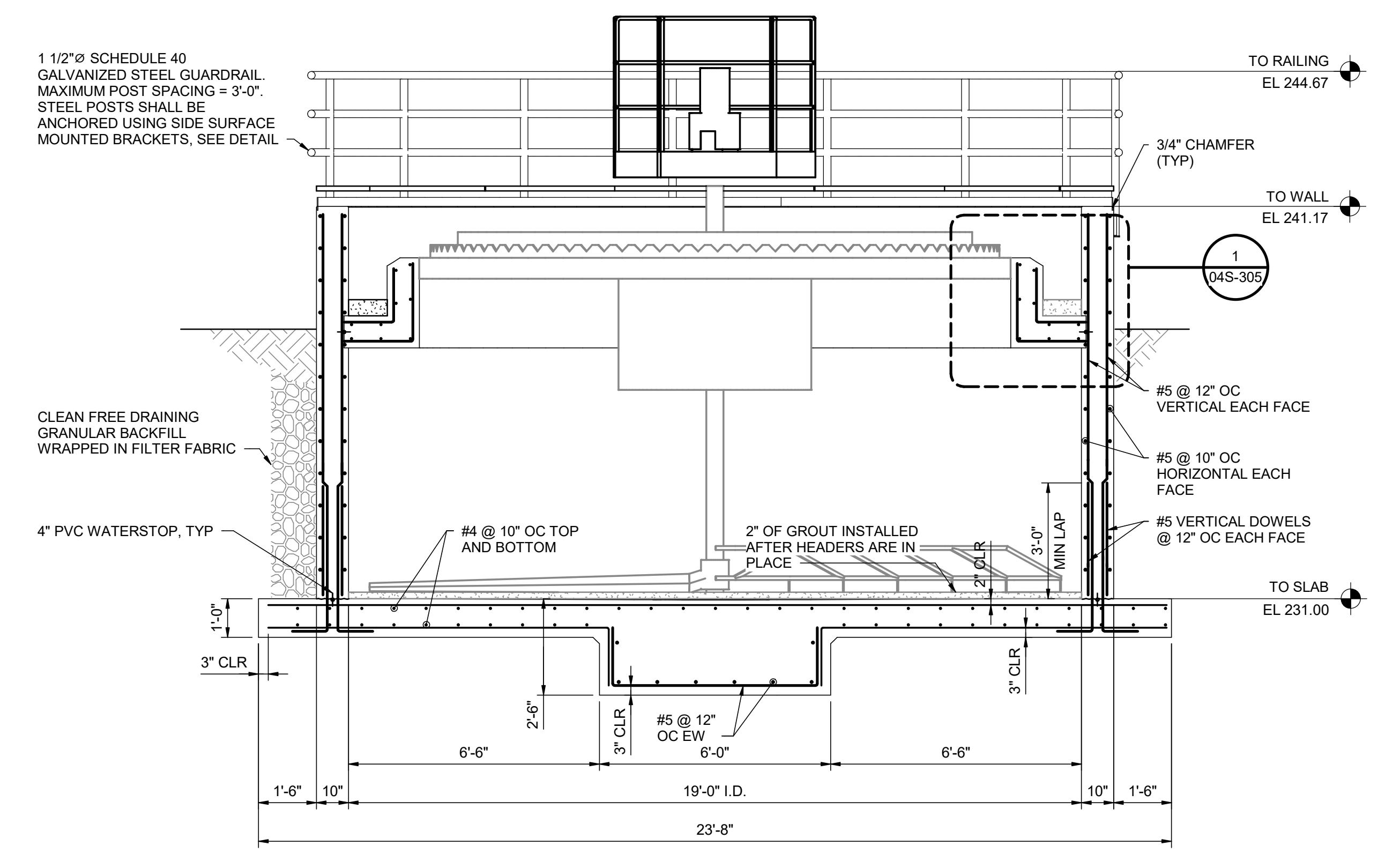
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

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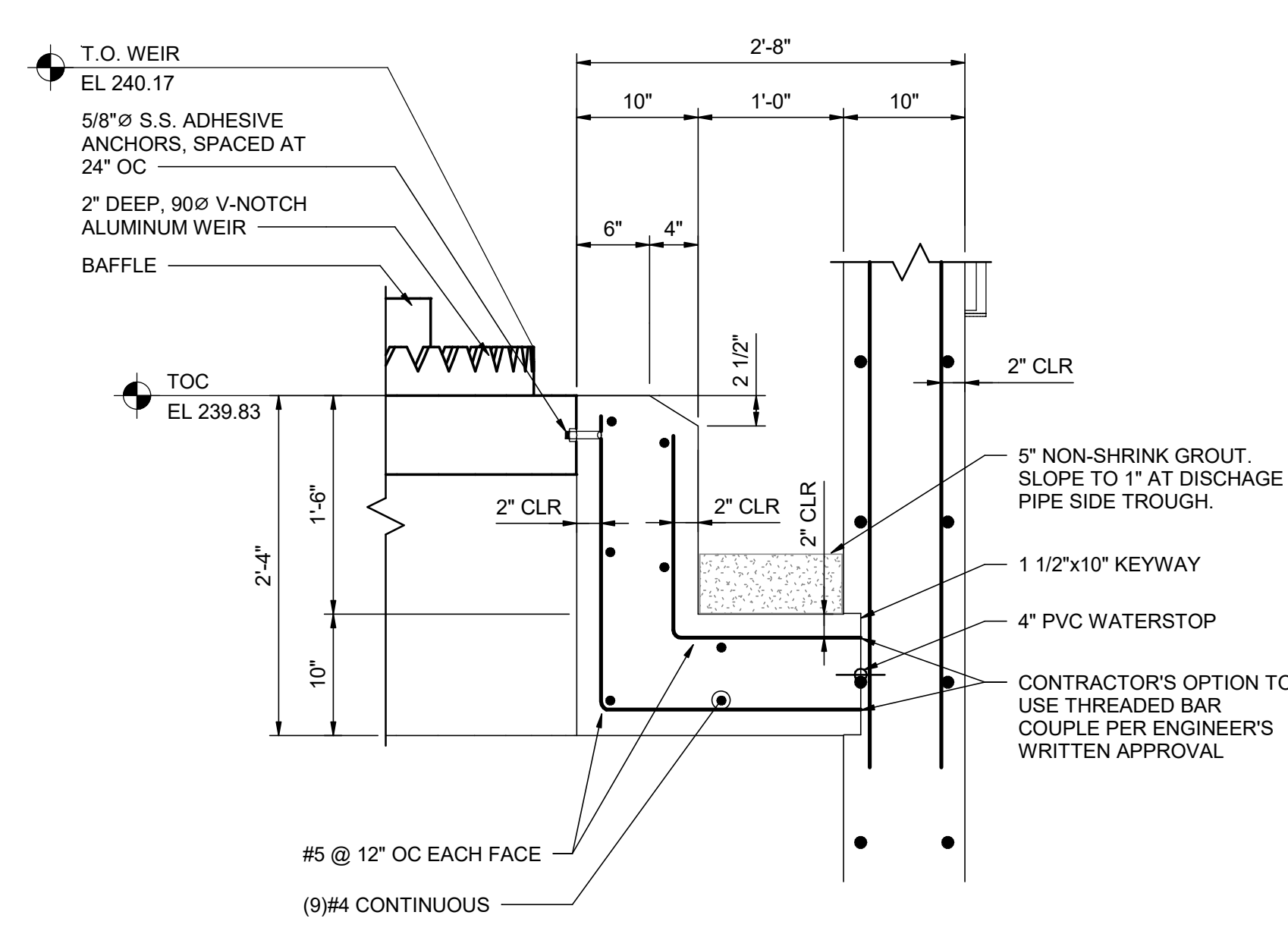


- NOTES:**
1. CLARIFIER CONCRETE SLAB SHALL HAVE A ROUGH BROOM FINISH.
 2. SMOOTH FINISH STEEL FORMS OR SMOOTH FORM LINERS SHALL BE USED FOR ALL CLARIFIER WALLS. RACEWAY WALLS SHALL HAVE A SMOOTH SURFACE FINISH FREE FROM ABRASIONS, HOLES, PITS, FLAWS OR ANY SURFACE IRREGULARITIES AND IS NON-ABRASIVE TO TOUCH AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE. SEE SPECIFICATION SECTION.
 3. COORDINATE ALL PIPE PENETRATIONS WITH PLUMBING SHEETS.

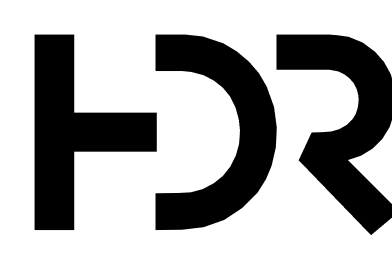
FOUNDATION PLAN
3/8" = 1'-0"



SECTION A
3/8" = 1'-0"

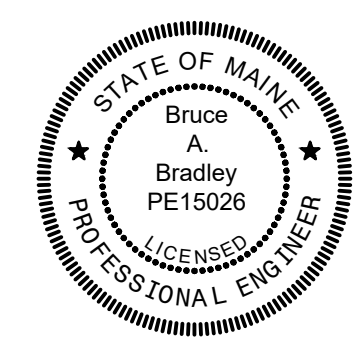


1 TROUGH DETAIL
1" = 1'-0"



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MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357541



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

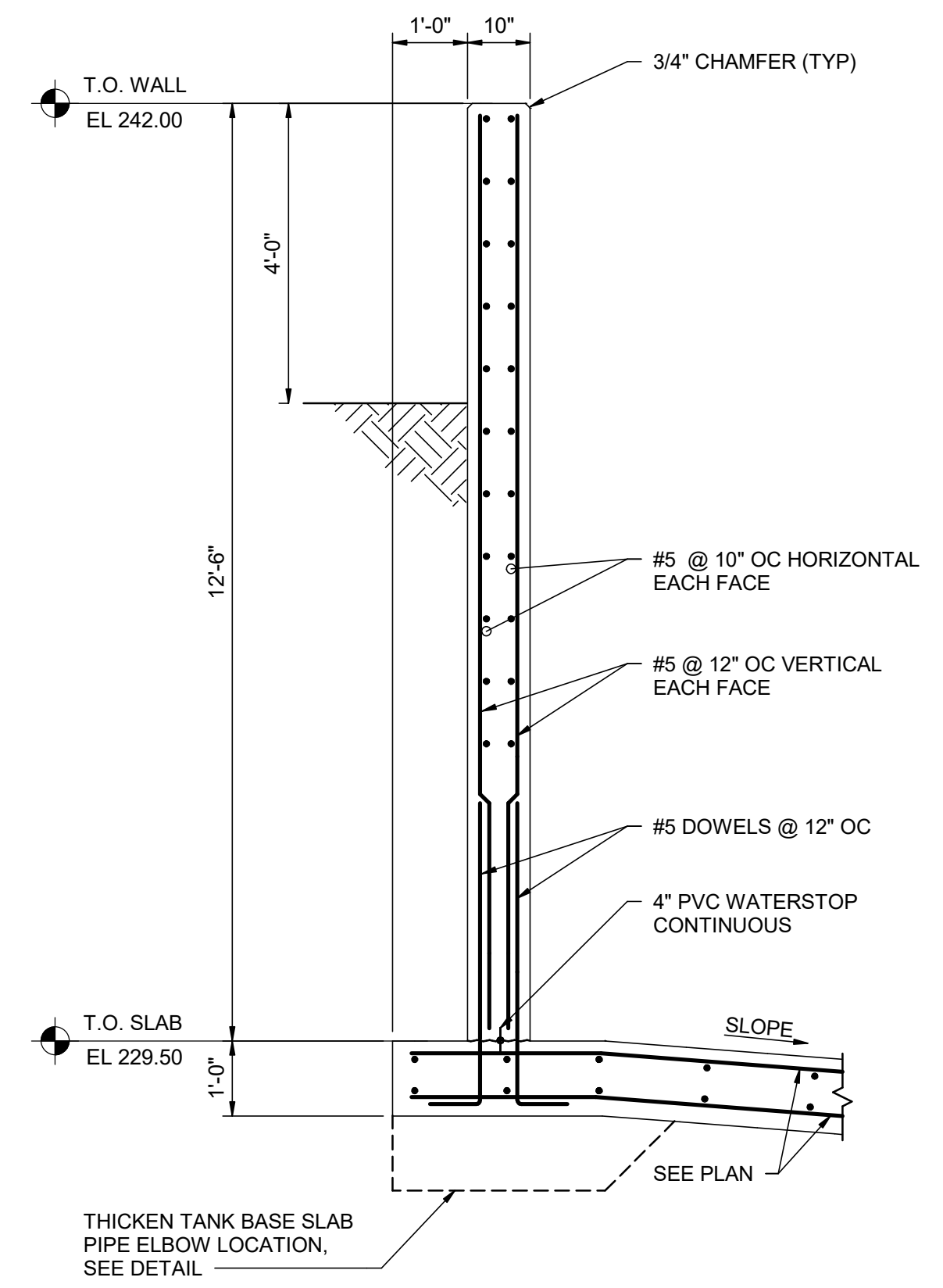
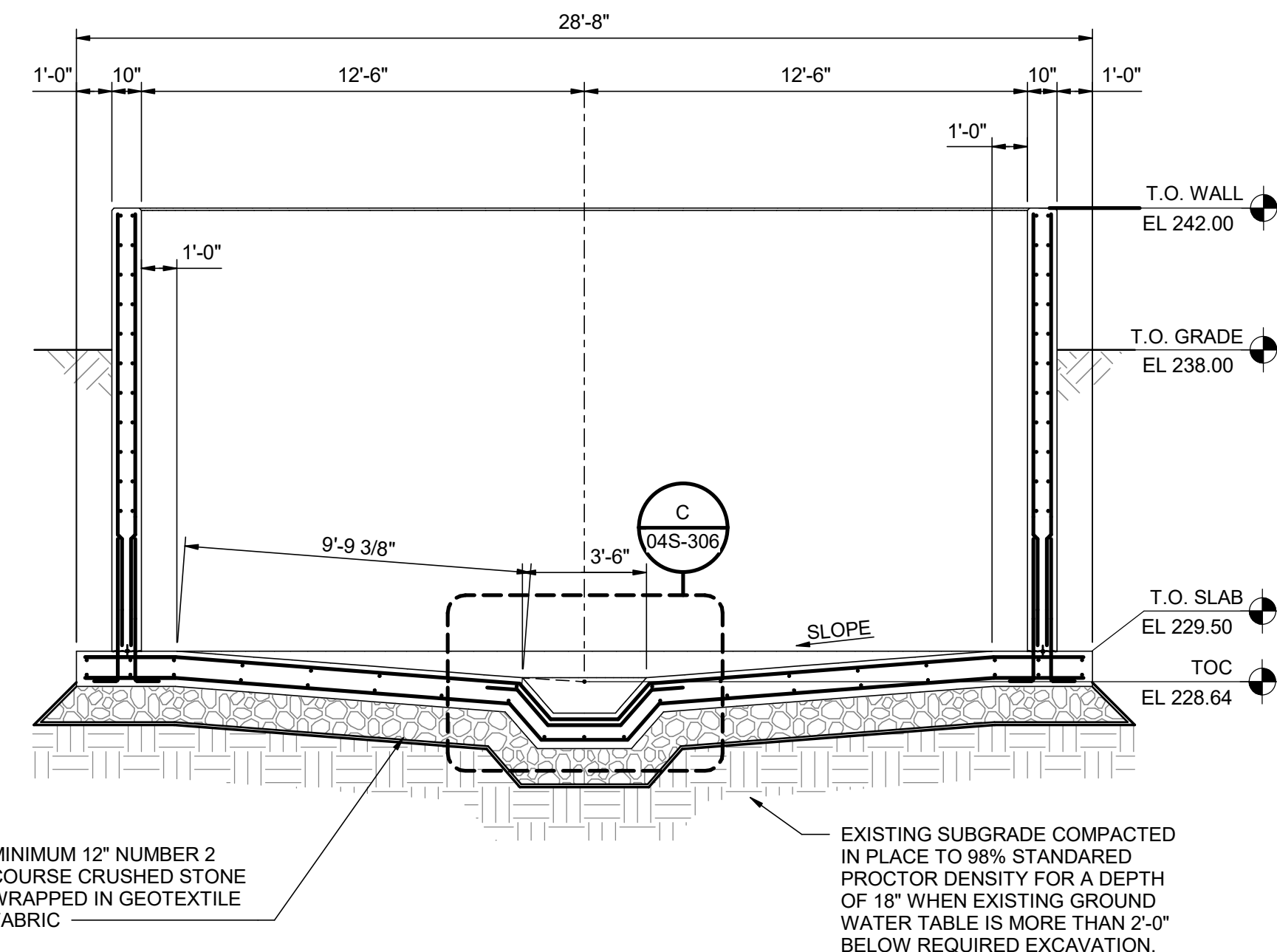
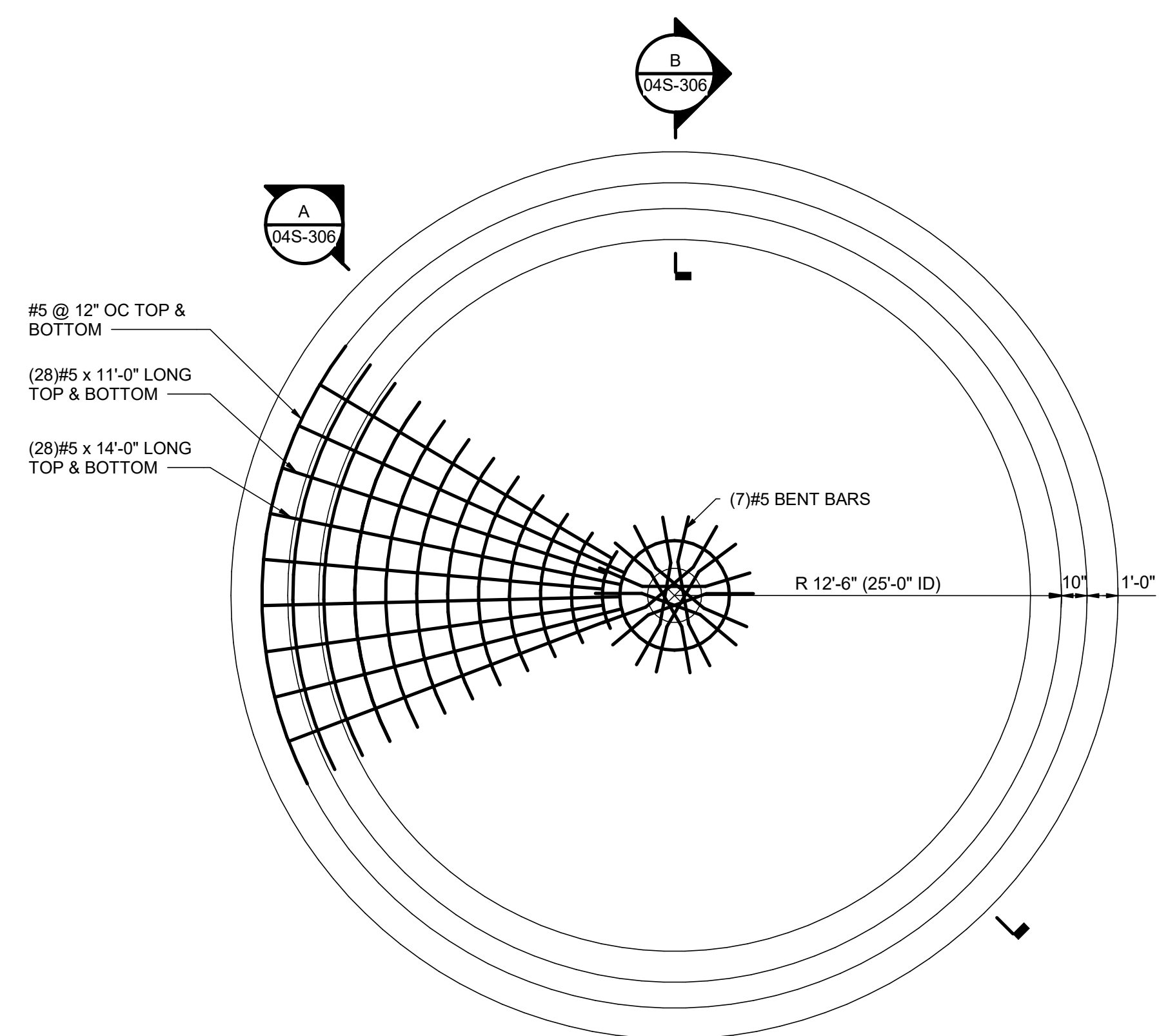
EFFLUENT TREATMENT BUILDING CLARIFIER FOUNDATION PLAN, SECTION AND DETAILS

0 1" 2" SCALE As indicated

FILENAME 10357541-04-S.rvt
SCALE As indicated

SHEET
04S-305

Autodesk_Docs/10357541_Main/DIF_NewGloucester Impr_2022/10357541-04-S.rvt 5/16/2024 9:02:30 AM

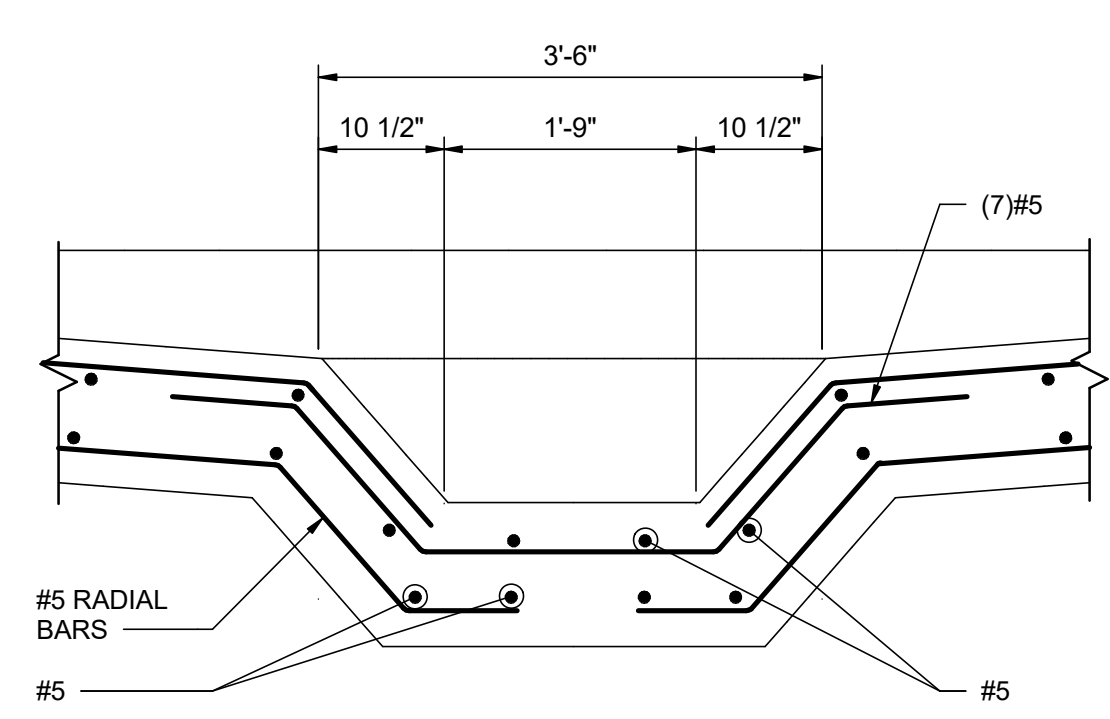


NOTES:
 SLUDGE STORAGE TANK FLOORS SHALL BE STEEL TROWEL FINISHED, EITHER BY HAND OR BY MACHINE, TO PRODUCE A DENSE, SMOOTH, HARD SURFACE.
 SMOOTH FINISH STEEL FORMS OR SMOOTH FORM LINERS SHALL BE USED FOR ALL SLUDGE STORAGE TANK WALLS. WALLS SHALL HAVE A SMOOTH SURFACE FINISH FREE FROM ABRASIONS, HOLES, PITS, FLAWS OR ANY SURFACE IRREGULARITIES AND IS NON-ABRASIVE TO THE TOUCH AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE. SEE SPECIFICATION SECTION 03002.
 COORDINATE ALL PIPE PENETRATIONS WITH PLUMBING SHEETS.

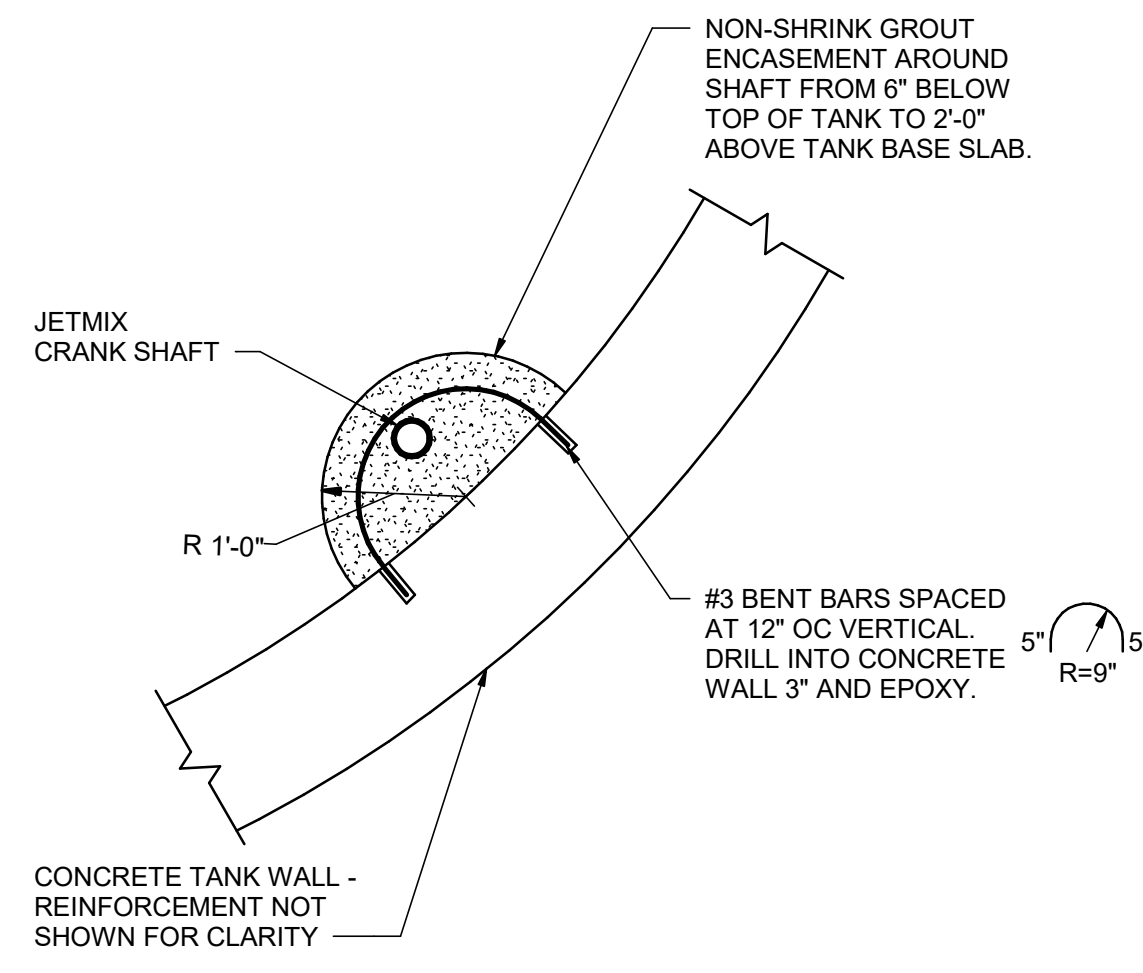
A SLUDGE STORAGE TANK SECTION
 1/4" = 1'-0"

B WALL SECTION
 1/2" = 1'-0"

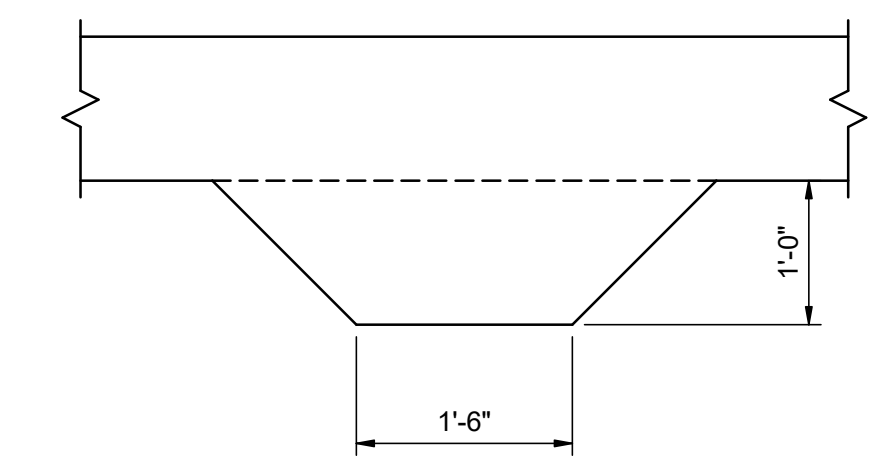
SLUDGE STORAGE TANK PLAN
 1/4" = 1'-0"



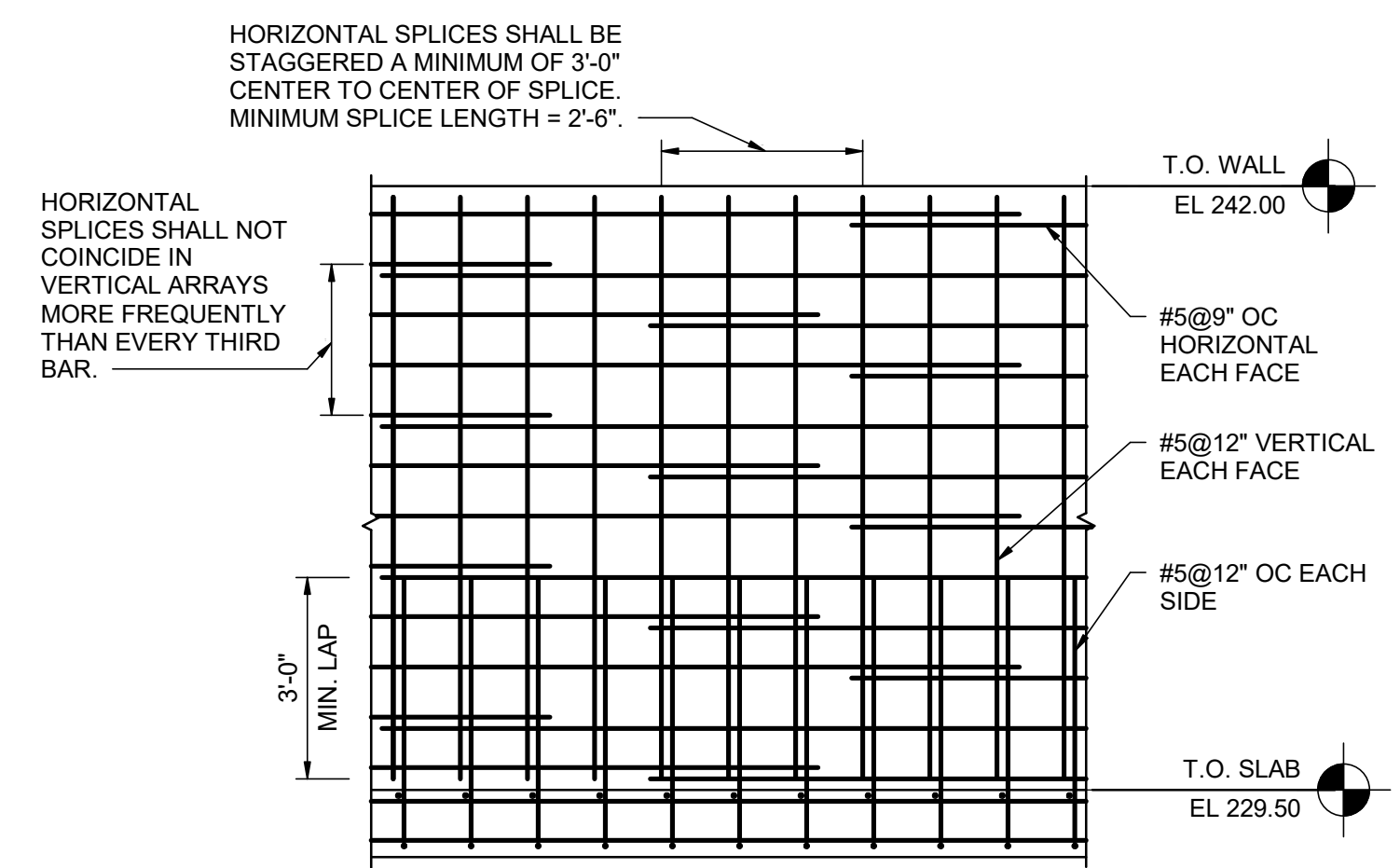
C SECTION
 3/4" = 1'-0"



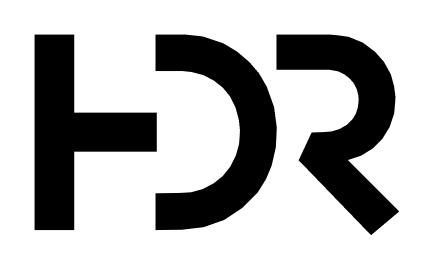
1 PARTIAL PLAN
 3/4" = 1'-0"



2 SECTION AT EMBEDDED PIPE ELBOW
 3/4" = 1'-0"

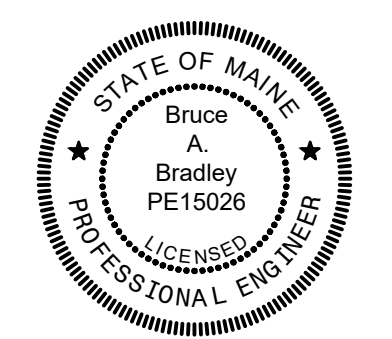


3 WALL ELEVATION SHOWING REINFORCING
 NOT TO SCALE



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CIVIL	J. GAGNON
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357541



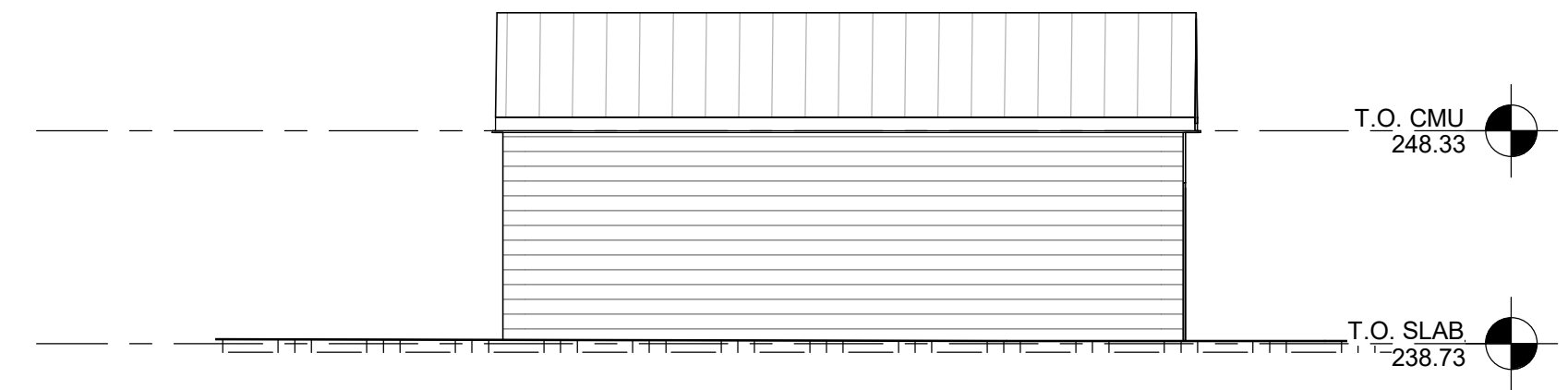
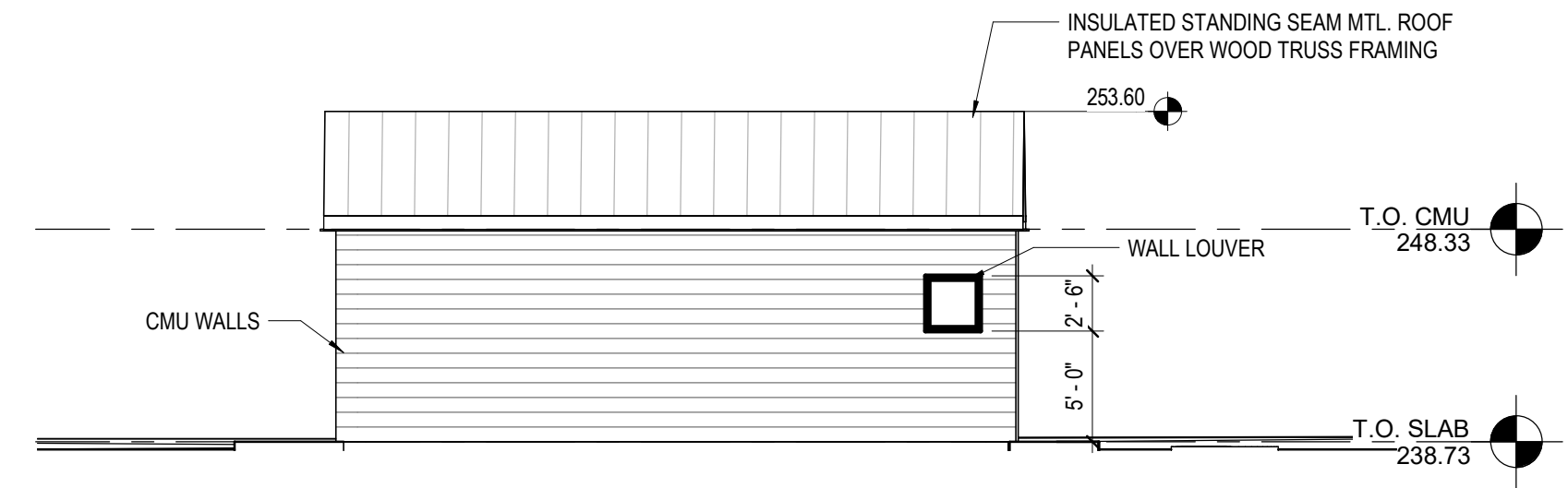
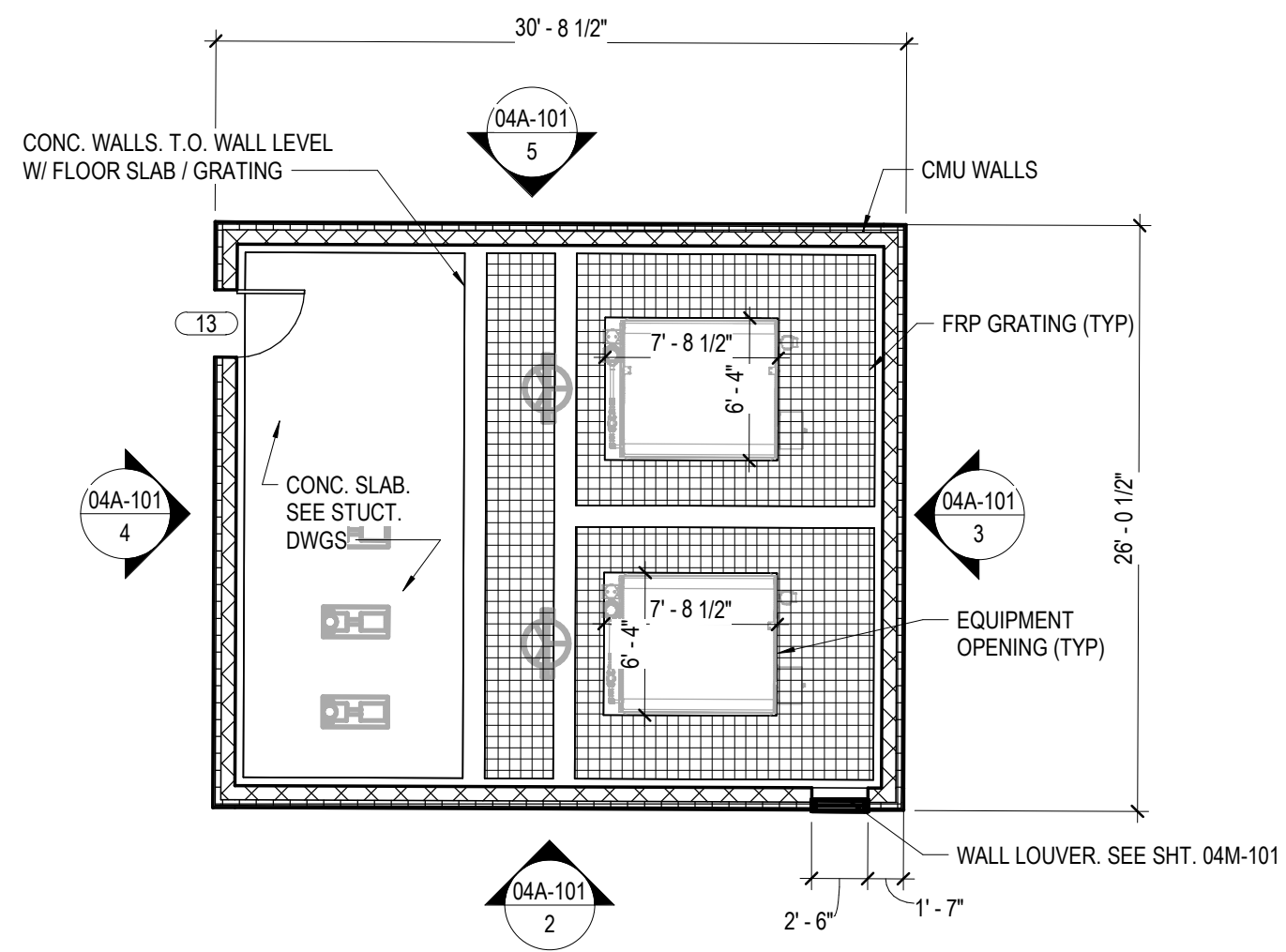
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING SLUDGE STORAGE TANK PLAN AND SECTION

0 1" 2" SCALE As indicated

FILENAME 10357541-04-S.rvt
 SHEET **04S-306**

Autodesk Docs/10353741_Main/DWG_NewGloucester Impr_2022/10357541-04-S.rvt 5/16/2024 9:02:27 AM



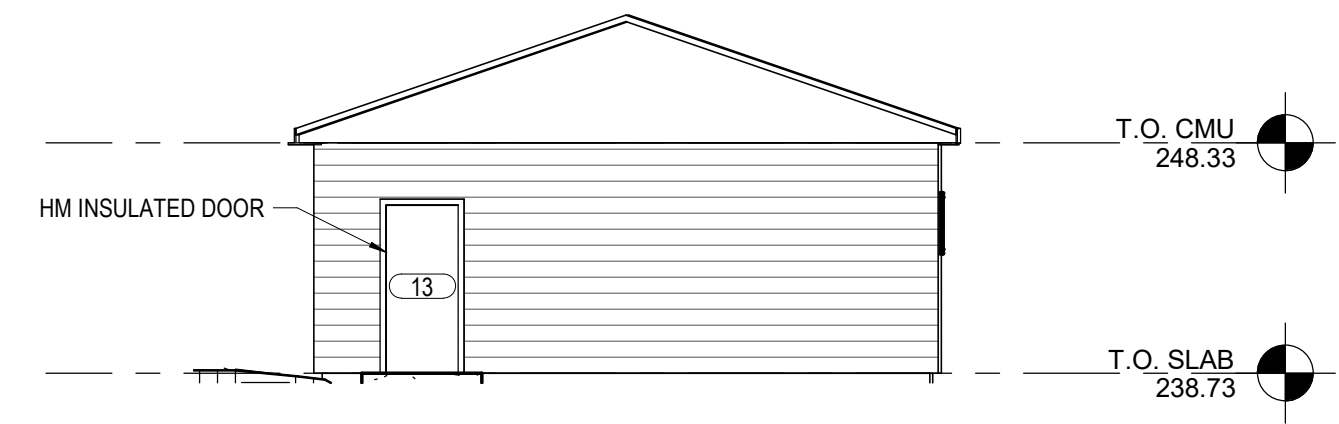
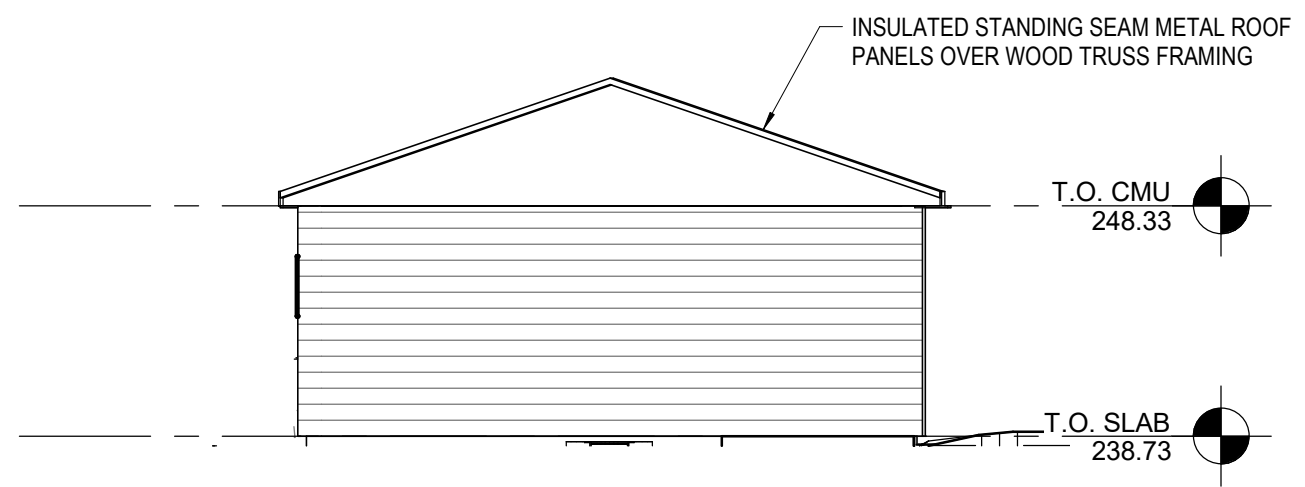
1 EFFLUENT TREATMENT BLDG PLAN
1/8" = 1'-0"

2 EFFLUENT TREATMENT BLDG - EAST ELEVATION
1/8" = 1'-0"

5 EFFLUENT TREATMENT BLDG - WEST ELEVATION
1/8" = 1'-0"

GENERAL NOTES:

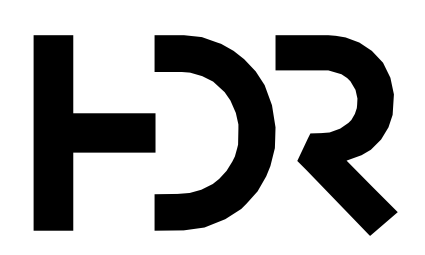
- FURNISH AND INSTALL ANTI-SLIP RUBBER RUNNER MATS COVERING ENTIRE GRATING/FLOOR. RUNNER MATS SHALL BE 1/8" THICK (MINIMUM), BLACK, WITH STANDARD "V" GROOVES, CLOSELY SPACED. PROVIDE 4 FOOT WIDE ROLLS IN CONTINUOUS LENGTH REQUIRED TO COVER FLOOR. PLACE SEAMS IN CONSPICUOUS LOCATIONS TO AVOID TRIPPING HAZARDS. AVOID SMALL AND NARROW CUTS.



3 EFFLUENT TREATMENT BLDG - NORTH ELEVATION
1/8" = 1'-0"

4 EFFLUENT TREATMENT BLDG - SOUTH ELEVATION
1/8" = 1'-0"

Autodesk Docs/10353741_MaineDJE_NewGloucester_Impr_2022/2022_10353741-A-Maine DJE_NewGloucester.rvt 5/21/2024 10:30:53 AM



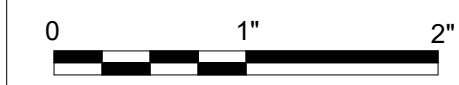
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



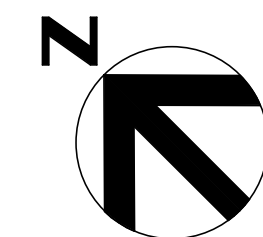
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING PLAN AND ELEVATIONS

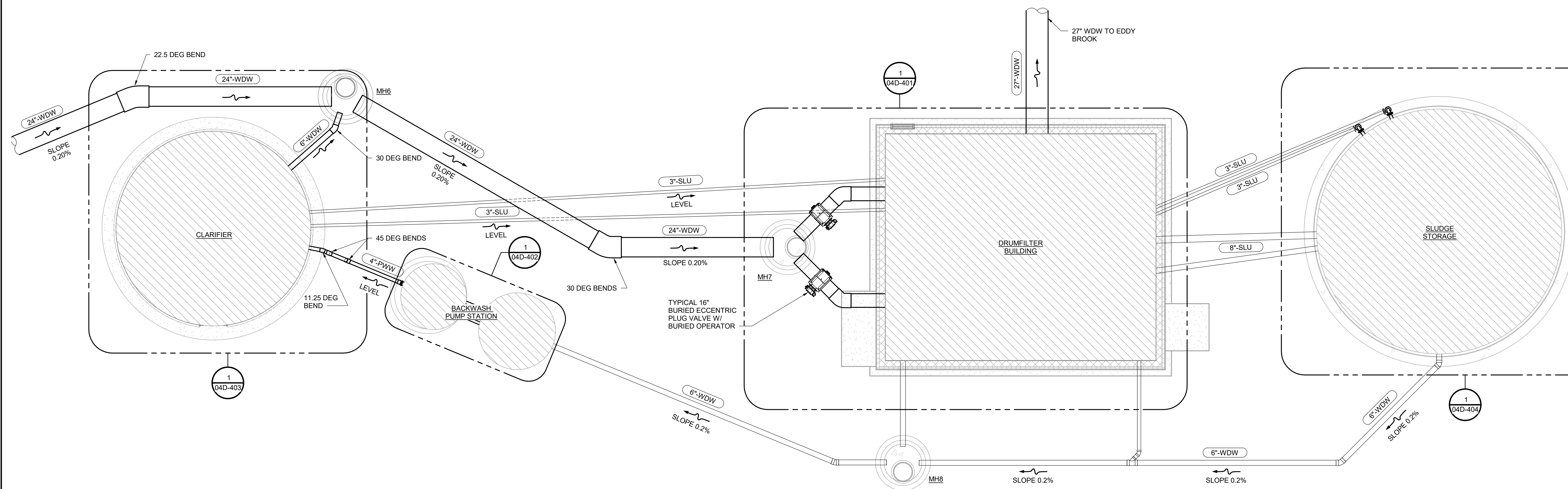


FILENAME
SCALE 1/8" = 1'-0"

SHEET
04A-101

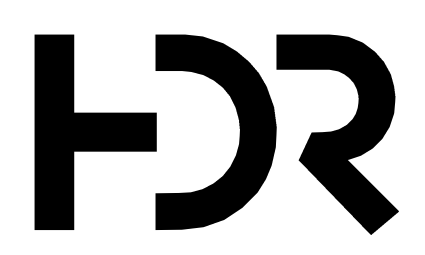


TRUE NORTH



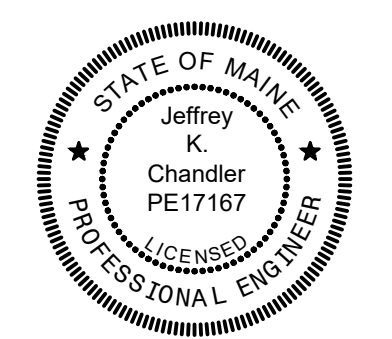
0 2' 4' 8' **1** OVERALL EFFLUENT PROCESS PIPING PLAN
 04D-101 3/16" = 1'-0"

Autodesk Docs/10353741_Main/DWG_NewGloucester_Impr_2022/10353741-04-D.rvt 5/16/2024 9:08:35 AM



ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

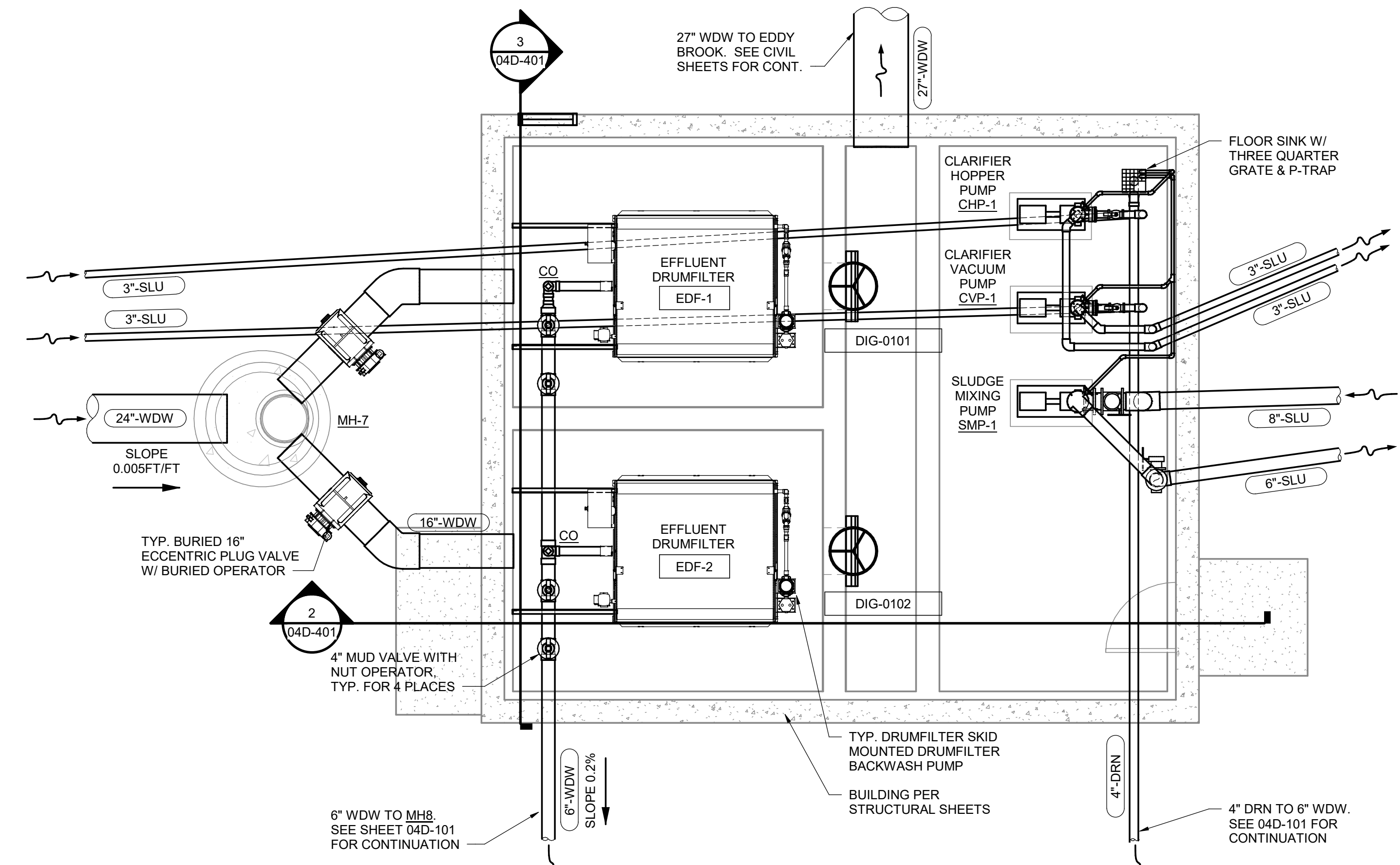
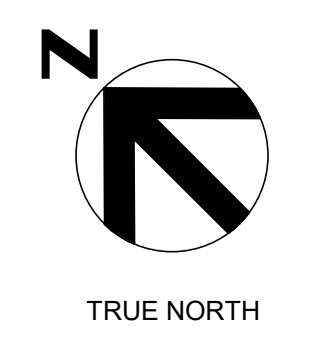
PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

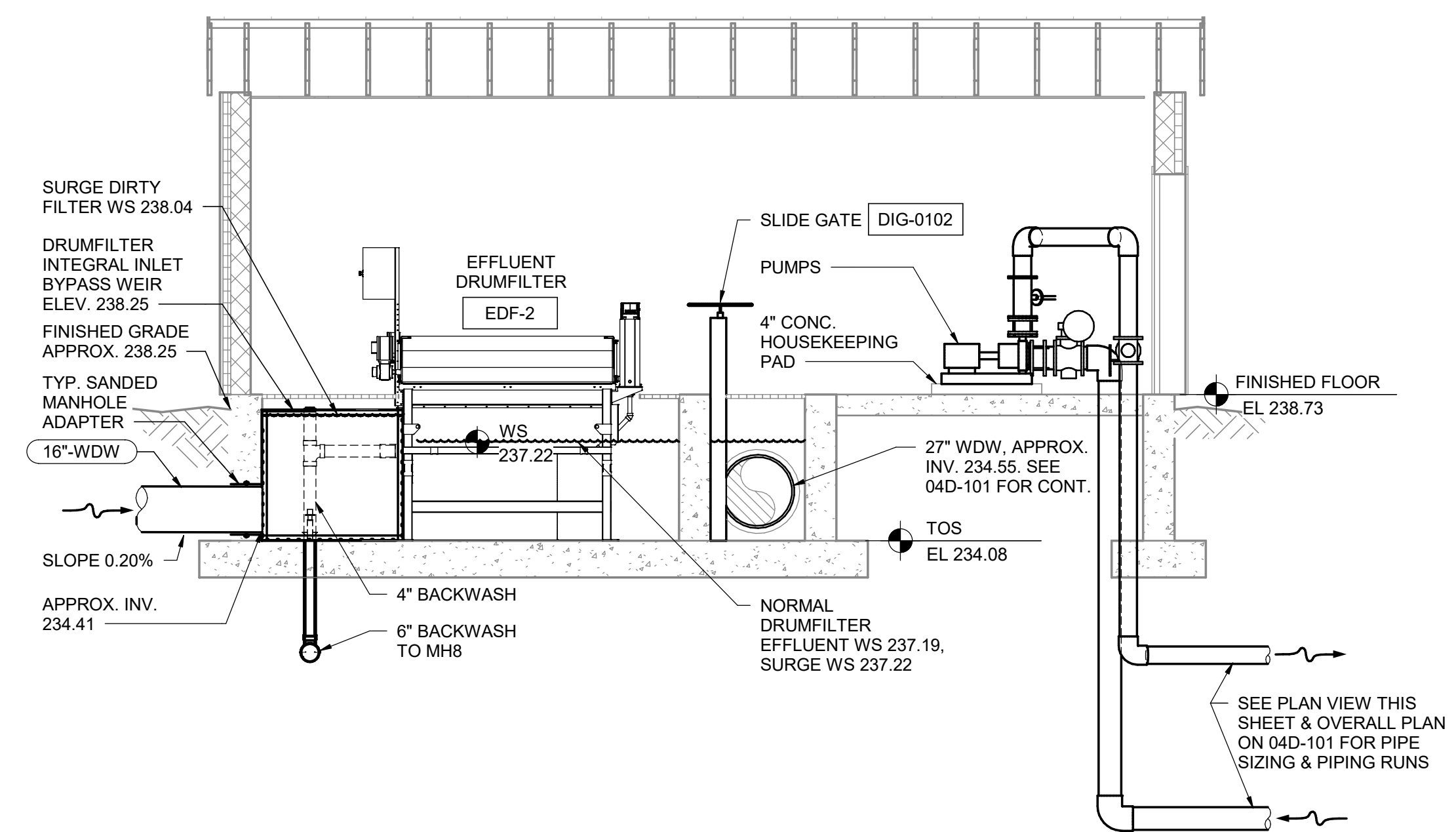
OVERALL EFFLUENT PROCESS PIPING PLAN

0 1" 2" FILENAME 10353741-04-D.rvt SHEET
 SCALE 3/16" = 1'-0" 04D-101

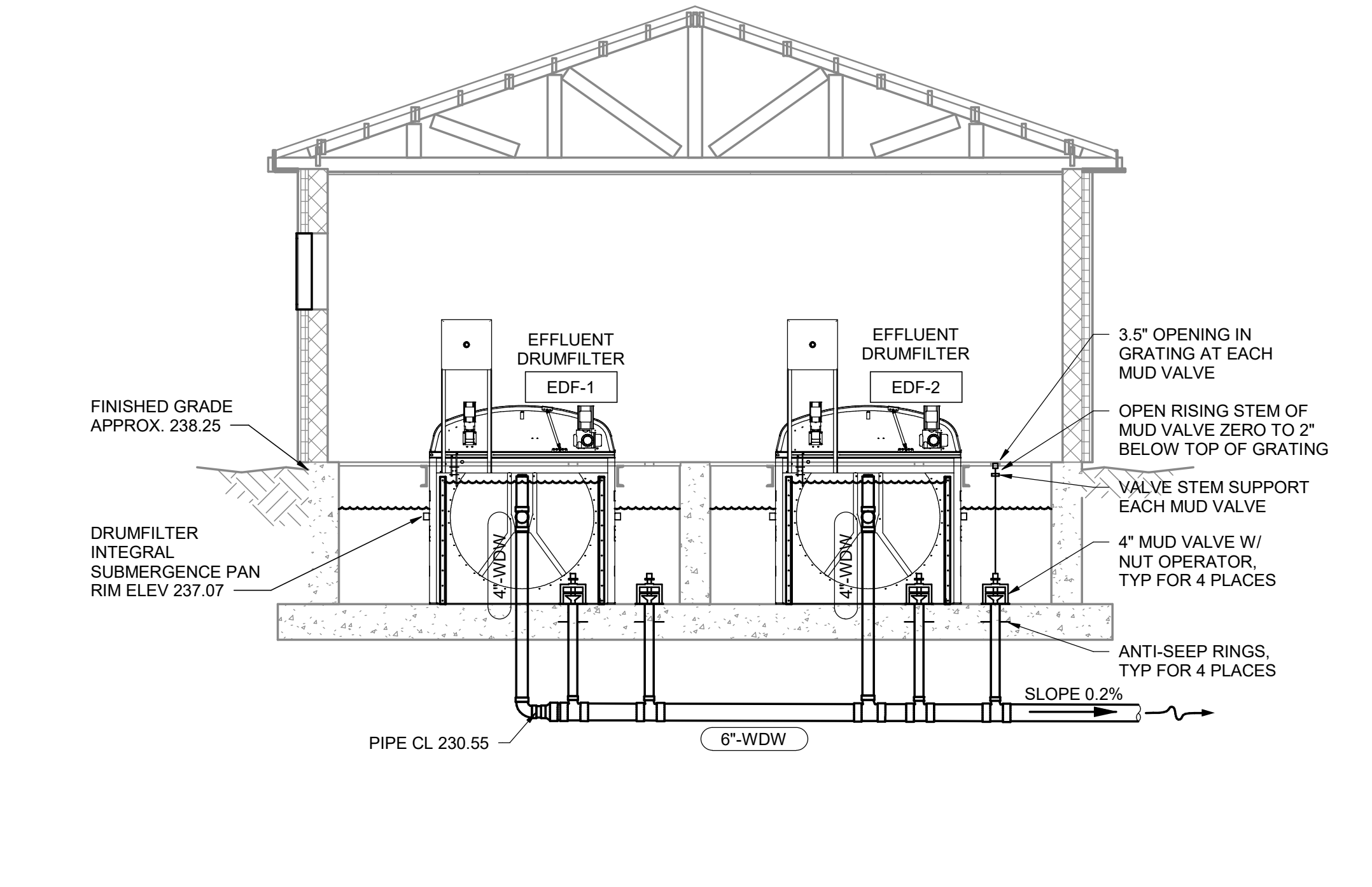


1 DRUMFILTER BUILDING PROCESS PIPING PLAN
 04D-401 1/4" = 1'-0"

- GENERAL NOTES:**
1. ANCHOR DRUMFILTER TO CONCRETE WITH STAINLESS HARDWARE PER RECOMMENDATIONS OF DRUMFILTER MANUFACTURER.
 2. FOR CLARITY, PIPING SUPPORTS ARE NOT SHOWN BUT ARE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN & PROVIDE AND THEY SHALL NOT IMPEDE ACCESS TO OR MAINTENANCE OF DRUMFILTER, PIPING, VALVES, GAGES, PUMPS, STRAINERS, ETC. AND SUPPORTS SHALL BE GALVANIZED, SS, FRP OR ALUMINUM AND FASTENERS SHALL BE SS. LEAVE SPACE FOR A PERSON TO STEP OVER 12" PIPING BEFORE & AFTER TRUE WYE.
 3. EACH MUD VALVE SHALL HAVE A 30" STEM EXTENSION SUPPORTED TO THE NEAREST CONCRETE SUMP WALL. PROVIDE 3" DIA. HOLE IN DECKING/ GRATING ABOVE AND SLIT IN FLOOR MAT ABOVE FOR PASSAGE OF OPERATING WRENCH SOCKET.

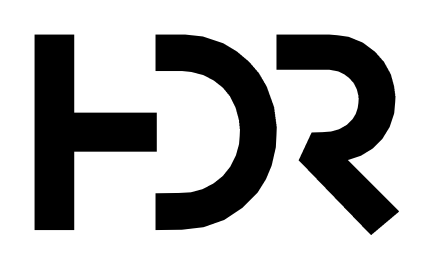


2 DRUMFILTER BUILDING PROCESS PIPING SECTION
 04D-401 1/4" = 1'-0"



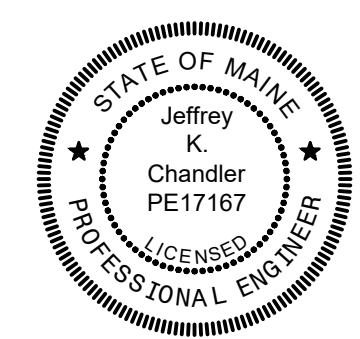
3 DRUMFILTER BACKWASH PROCESS PIPING SECTION
 04D-401 1/4" = 1'-0"

Autodesk Docs/10353741_Main/DJF_NewGloucester Impr_2022/10353741-04-D.rvt 5/16/2024 9:06:26 AM



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PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
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PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741

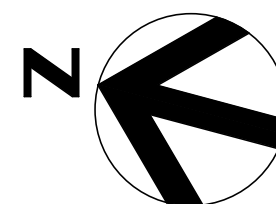


NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

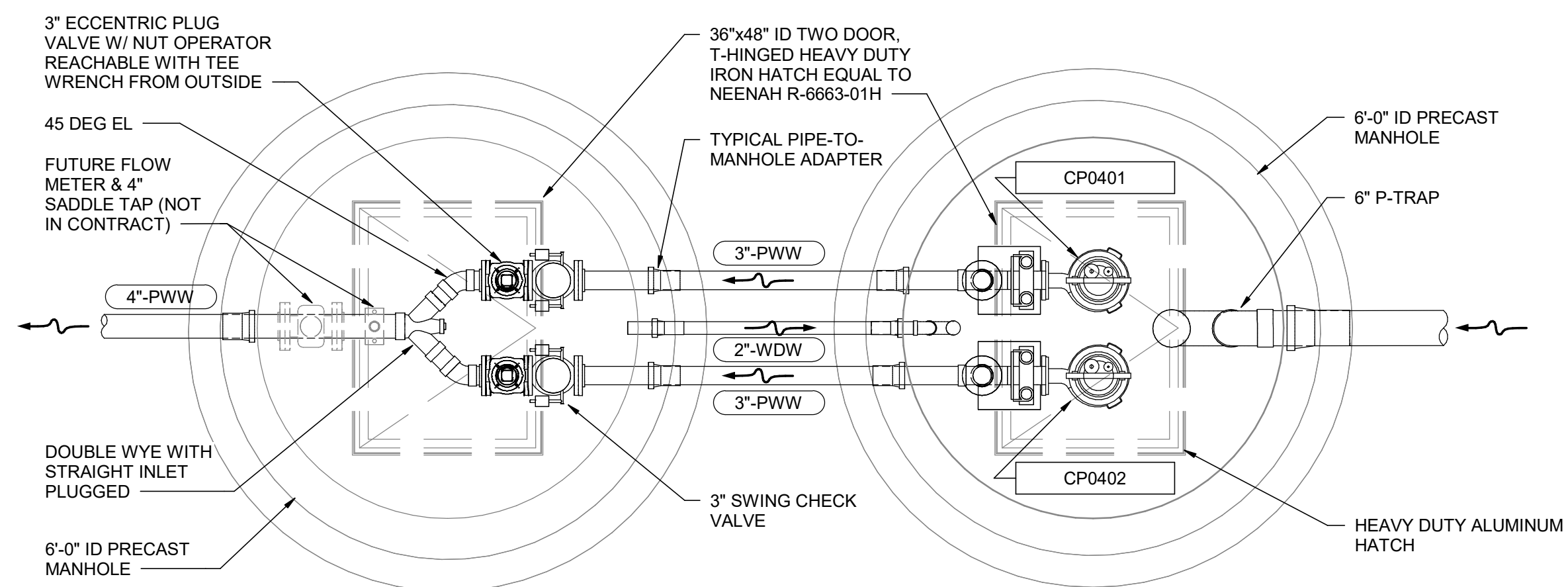
DRUMFILTER BUILDING PROCESS PIPING PLAN

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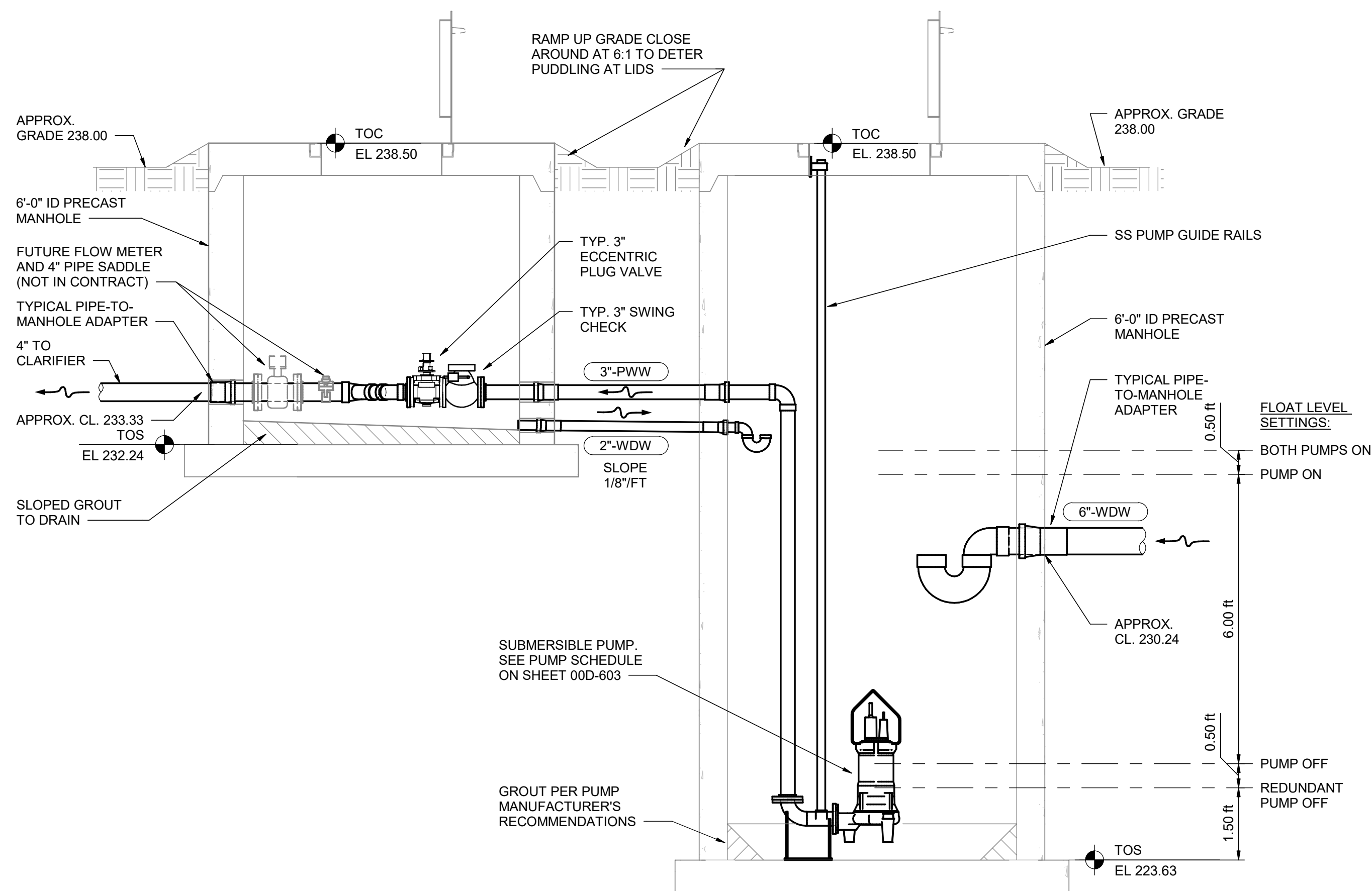
SHEET
04D-401



TRUE NORTH

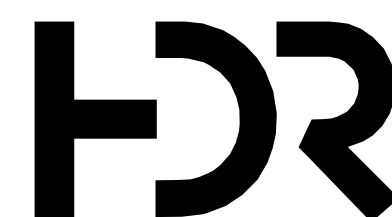


0 6" 1" 2" **1** BACKWASH PUMP STATION PROCESS PIPING PLAN
04D-402 1/2" = 1'-0"



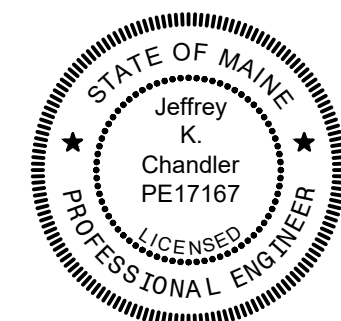
0 6" 1" 2" **2** BACKWASH PUMP STATION PROCESS PIPING SECTION
04D-402 1/2" = 1'-0"

Autodesk Docs/10353741_Main/DWG_NewGloucester Impr_2022/10353741-04-D.rvt 5/16/2024 5:12:21 PM



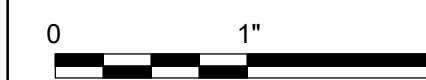
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



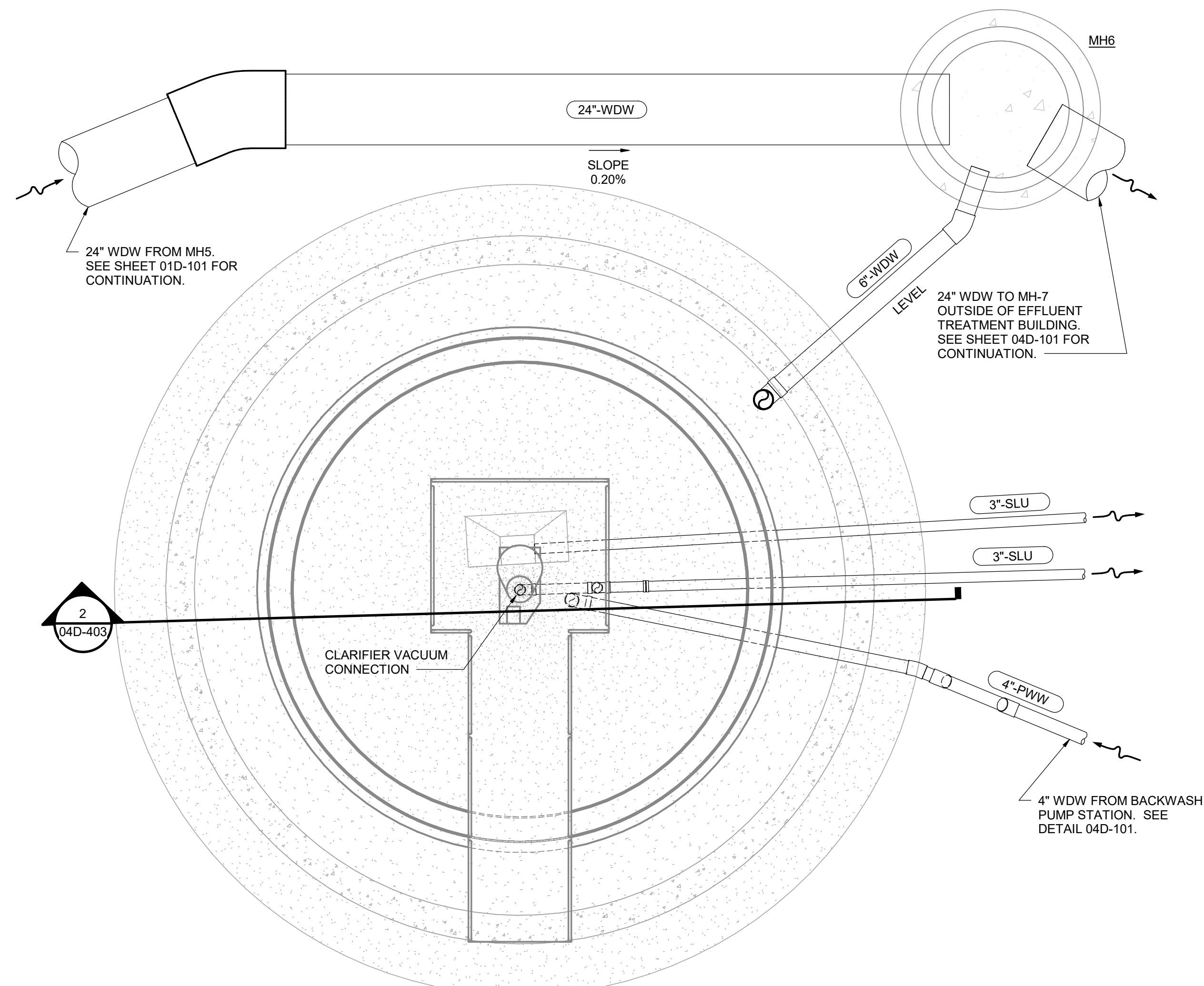
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

BACKWASH PUMP STATION PROCESS PIPING PLAN & SECTION

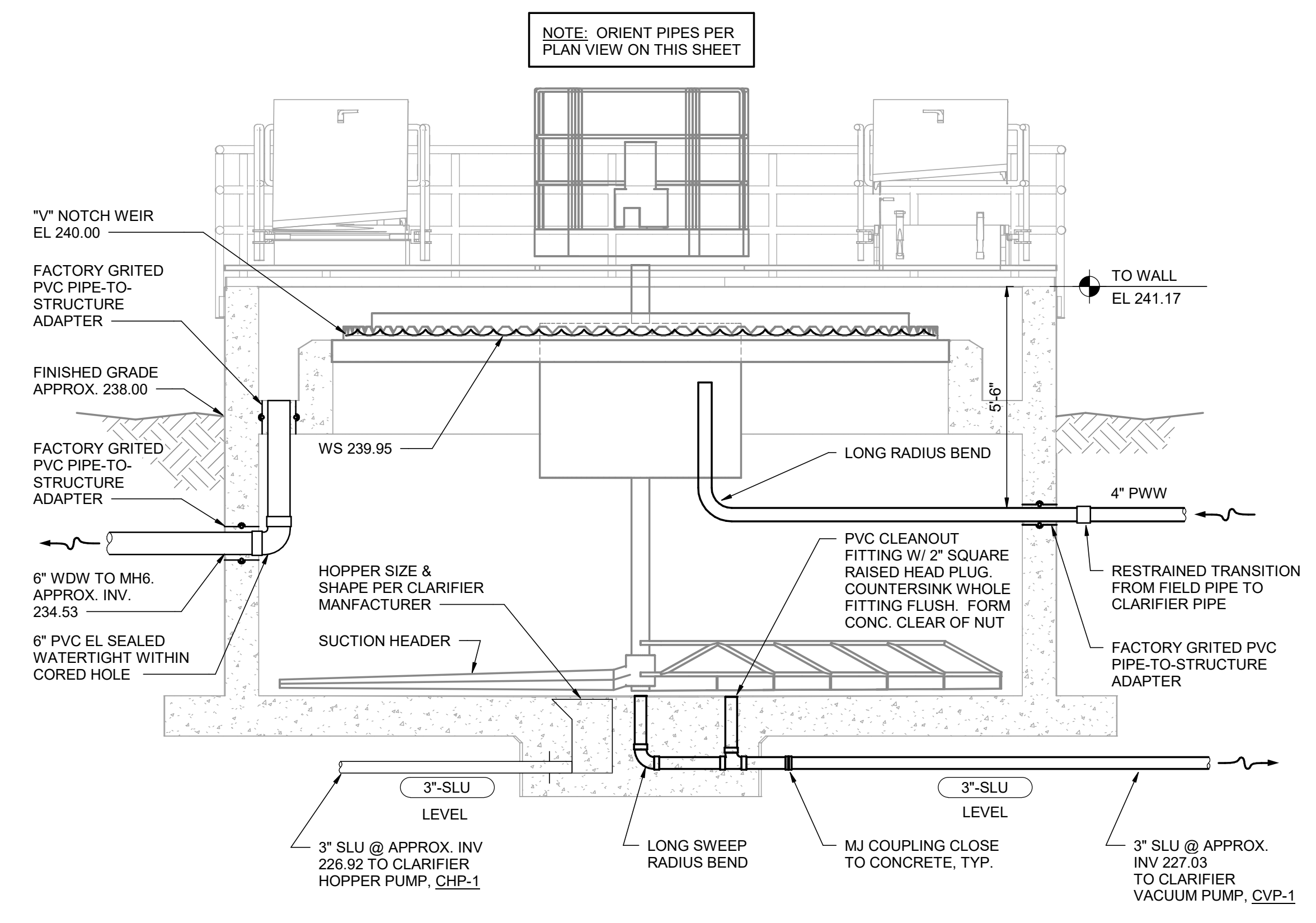


FILENAME | 10353741-04-D.rvt
SCALE | 1/2" = 1'-0"

SHEET
04D-402

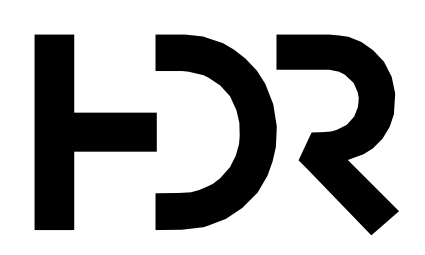


1
04D-403
3/8" = 1'-0"
CLARIFIER PROCESS PIPING PLAN



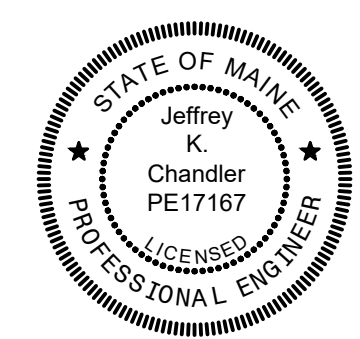
2
04D-403
3/8" = 1'-0"
CLARIFIER PROCESS PIPING SECTION

Autodesk Docs://10353741_Main/DWF_NewGloucester Impr_2022/10353741-04-D.rvt 5/17/2024 8:34:28 AM



ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741

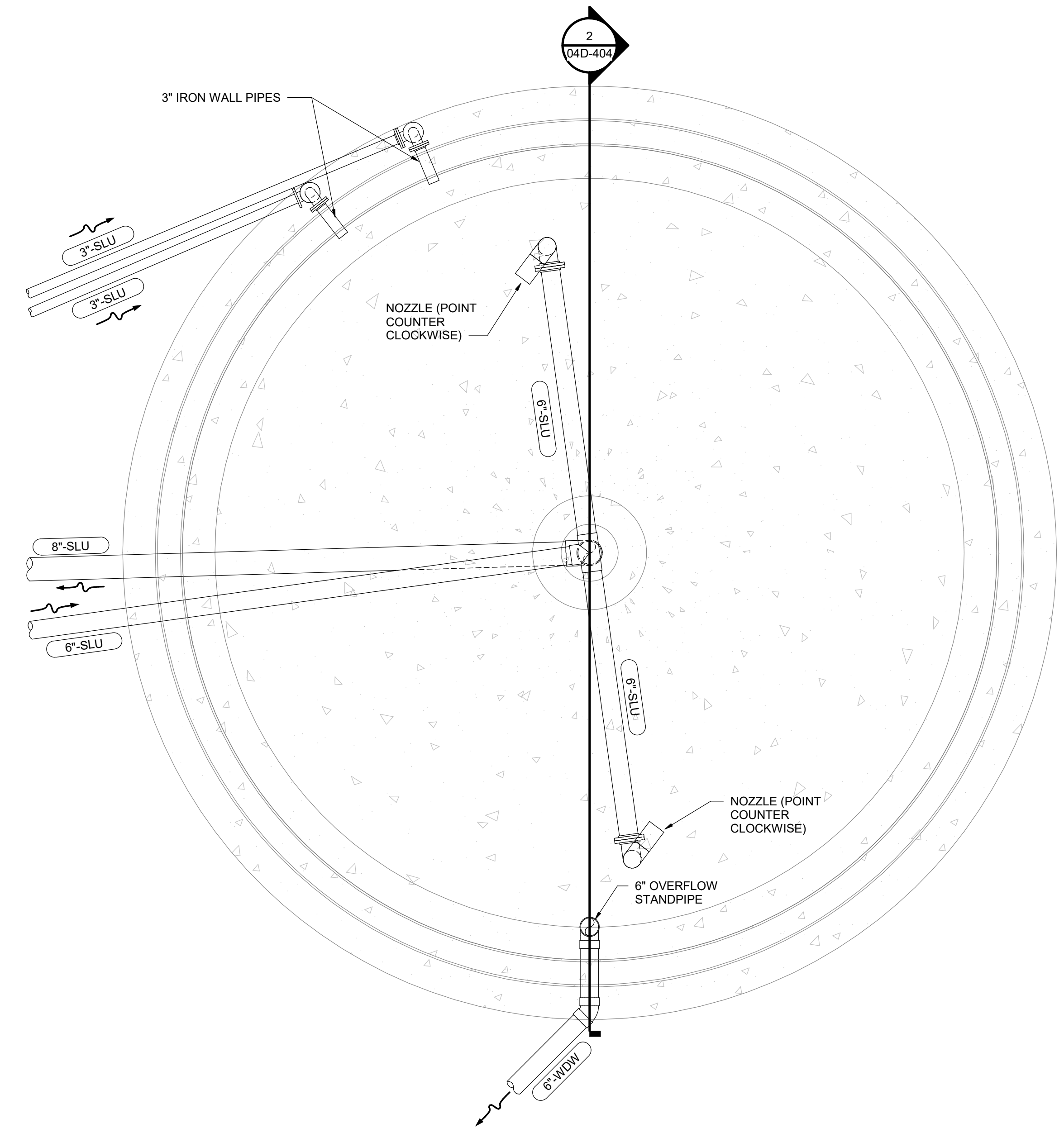


NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

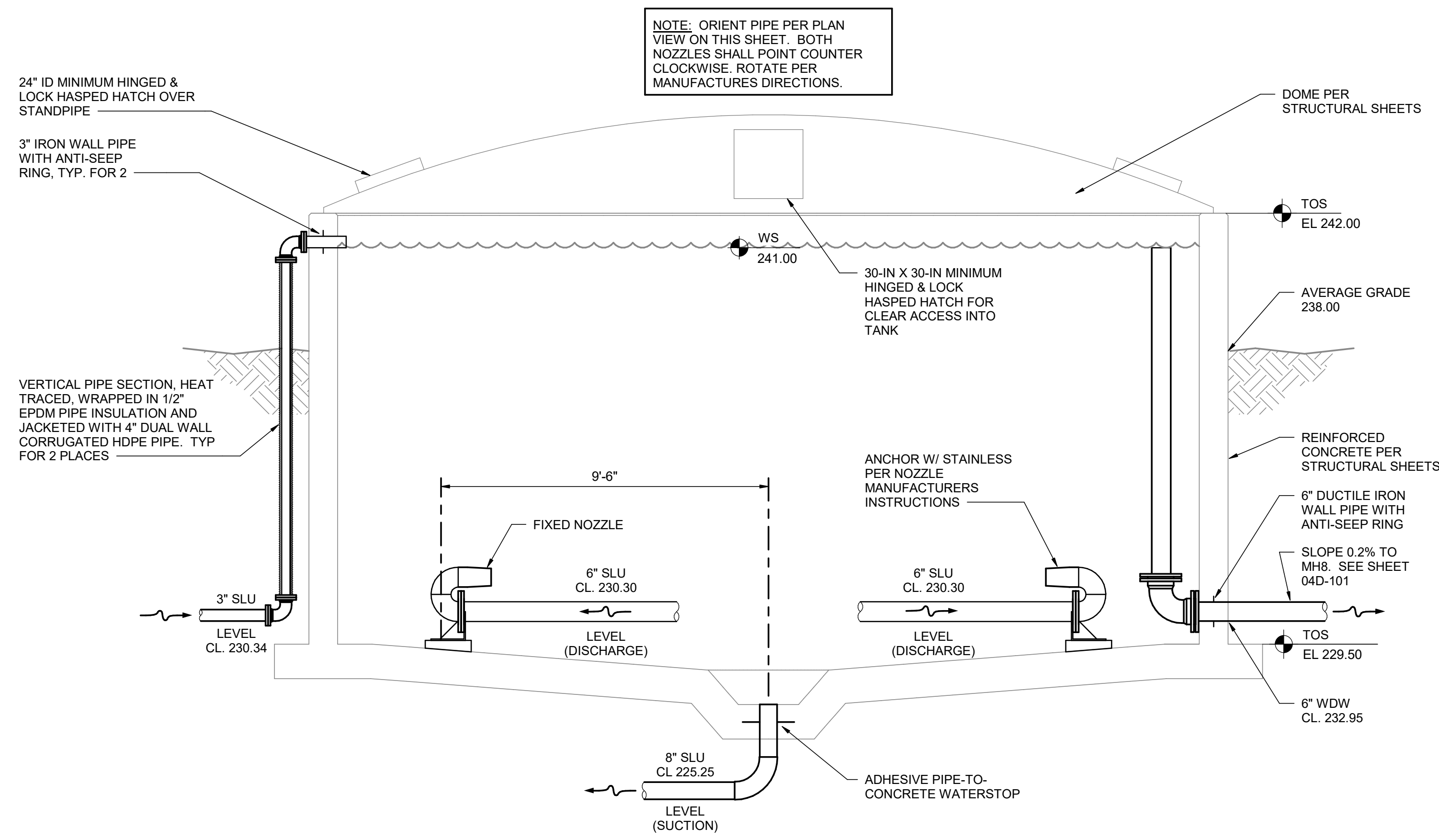
CLARIFIER PROCESS PIPING PLAN & SECTION

SCALE	3/8" = 1'-0"
FILENAME	10353741-04-D.rvt

SHEET
04D-403

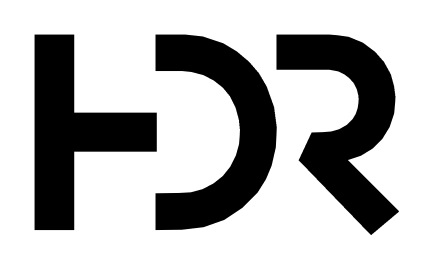


1 SLUDGE STORAGE PROCESS PIPING PLAN
04D-404 3/8" = 1'-0"



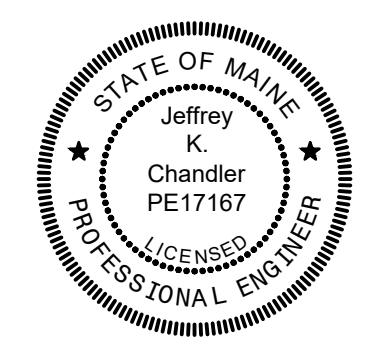
2 SLUDGE STORAGE PROCESS PIPING SECTION
04D-404 3/8" = 1'-0"

Autodesk Docs/10353741_Main/DWF_NewGloucester Impr_2022/10353741-04-D.rvt 5/16/2024 9:06:05 AM



ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
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ARCHITECTURAL	M. BASKIN
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ELECTRICAL	A. KANER
PROJECT NUMBER	10353741

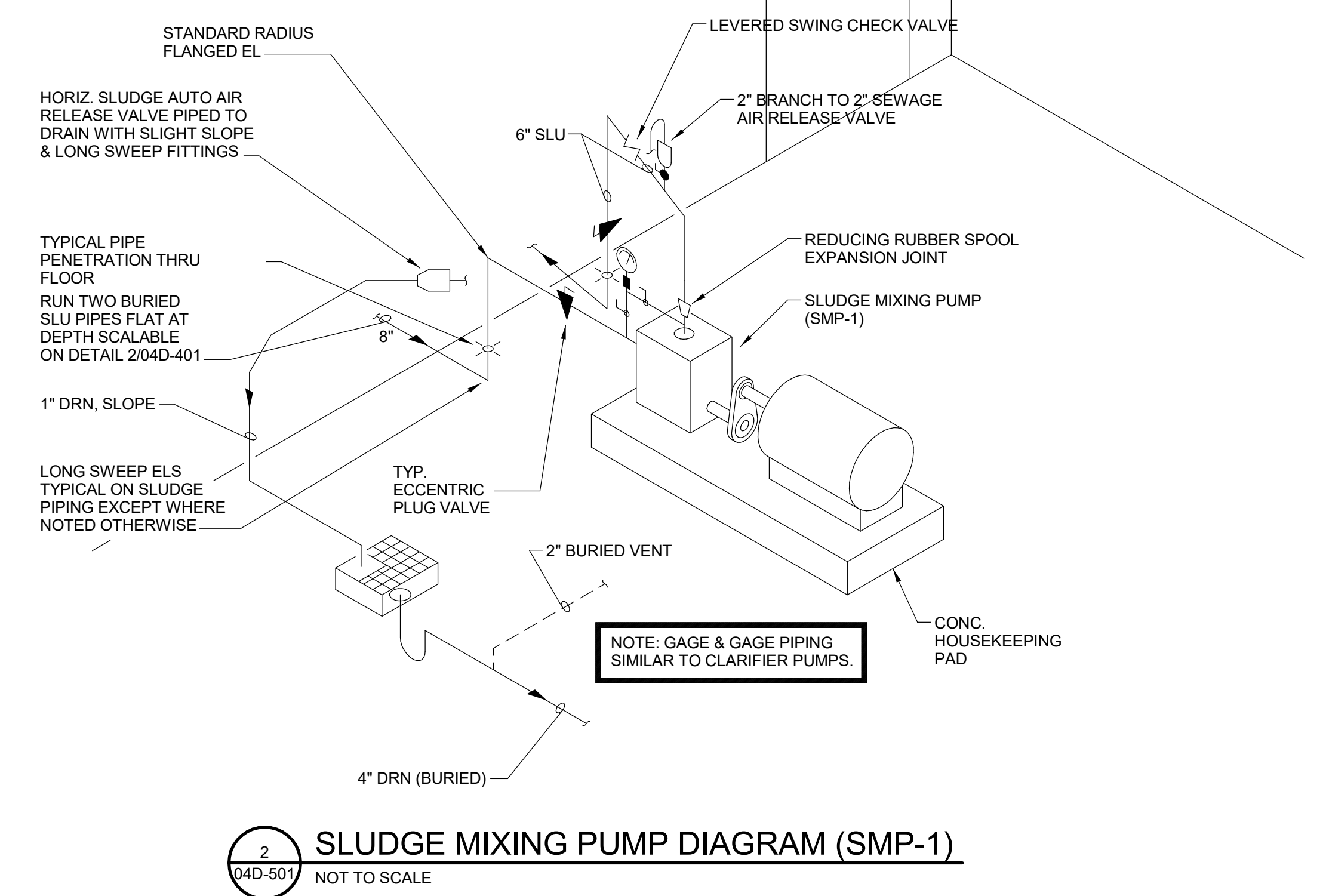
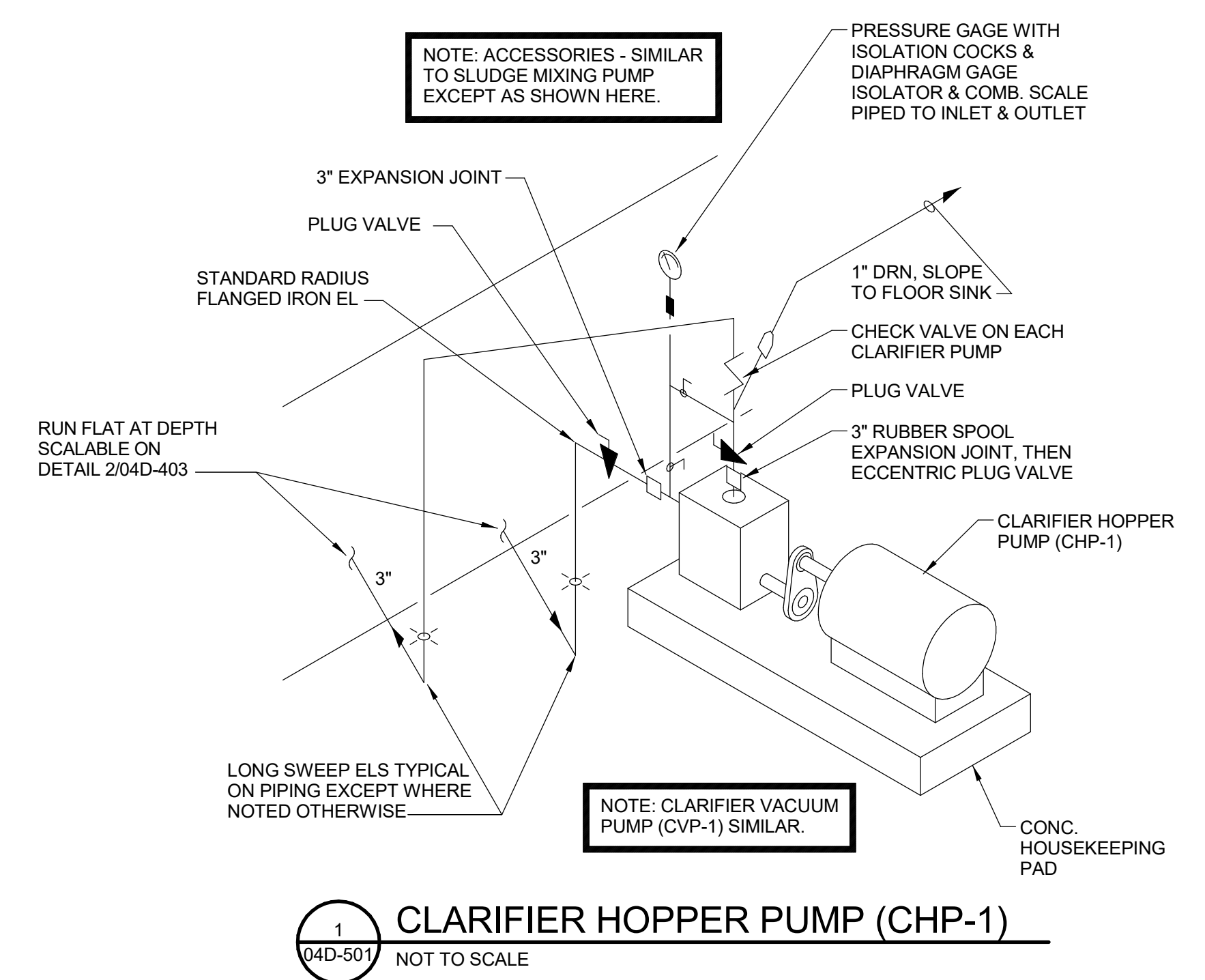


NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

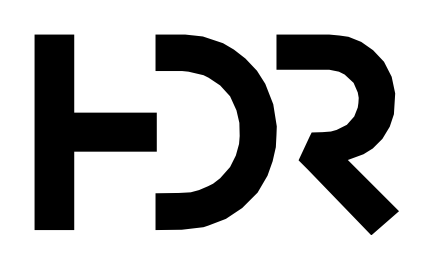
SLUDGE STORAGE PROCESS PIPING PLAN & DETAILS

FILENAME	10353741-04-D.rvt
SCALE	3/8" = 1'-0"

SHEET
04D-404

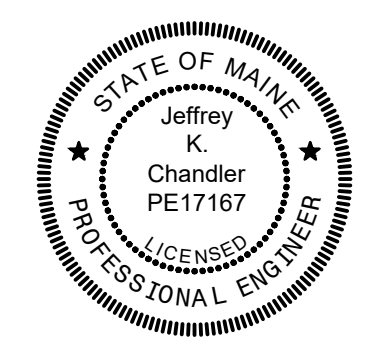


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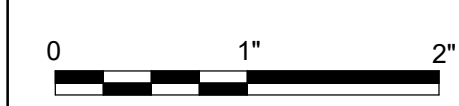
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER ANDREW GURSKI	
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741



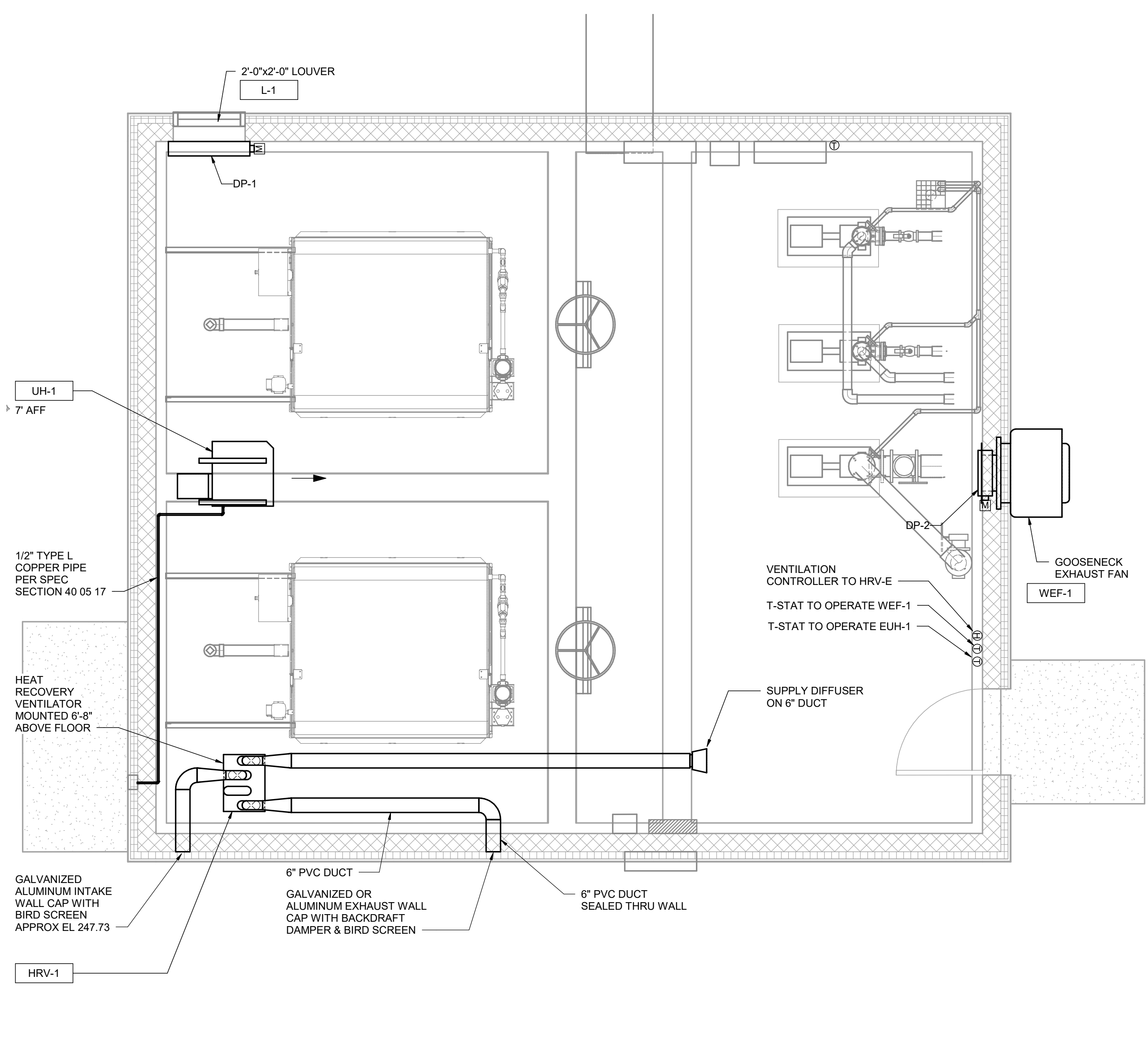
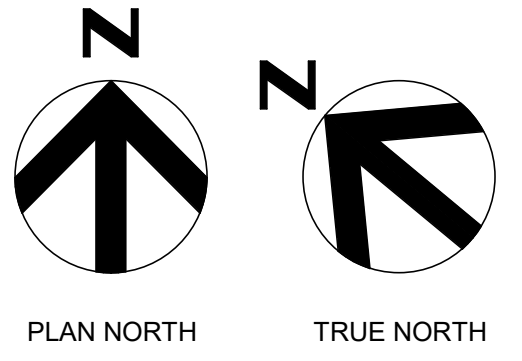
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

DRUMFILTER BUILDING DETAILS

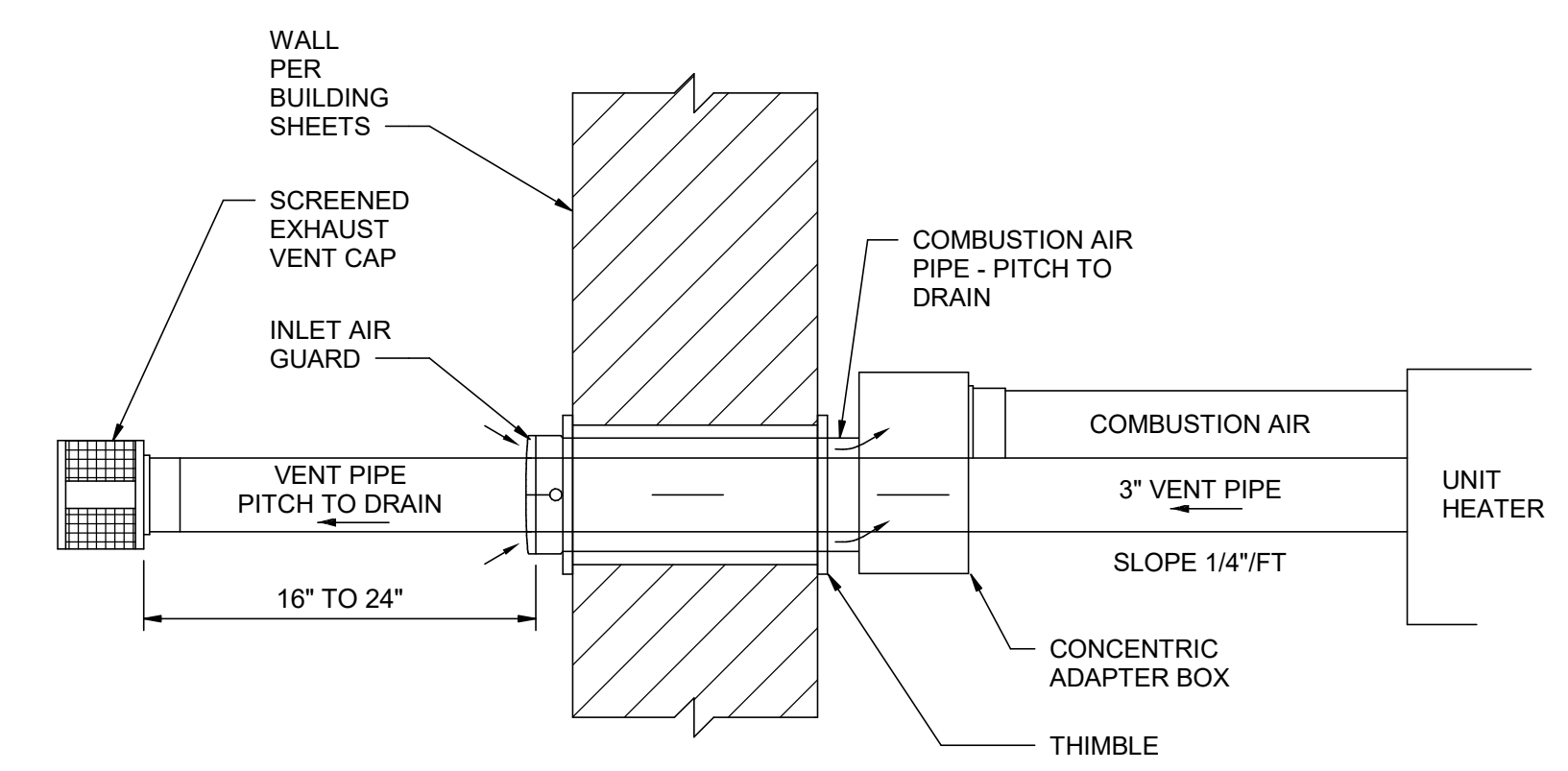


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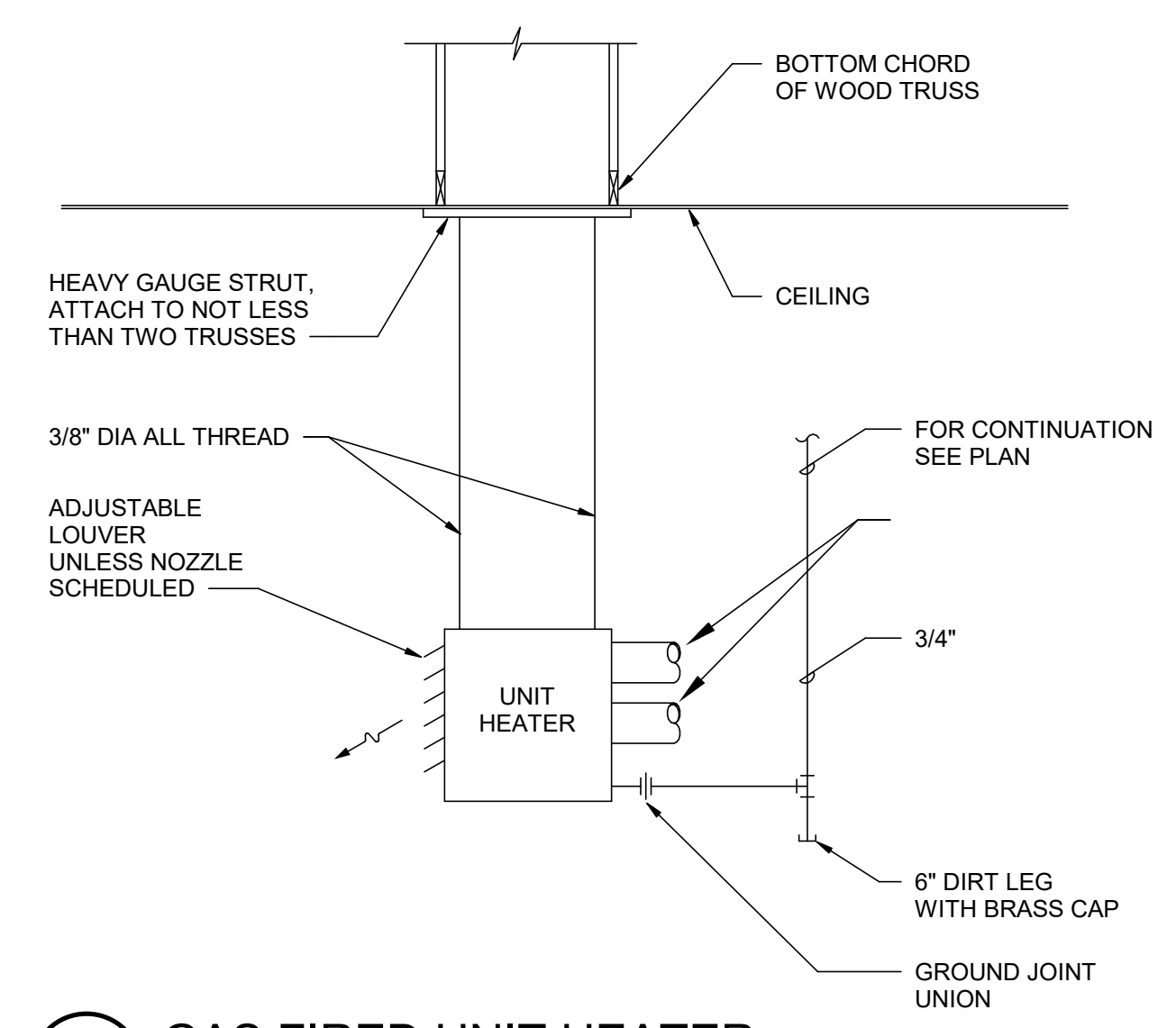
SHEET
04D-501



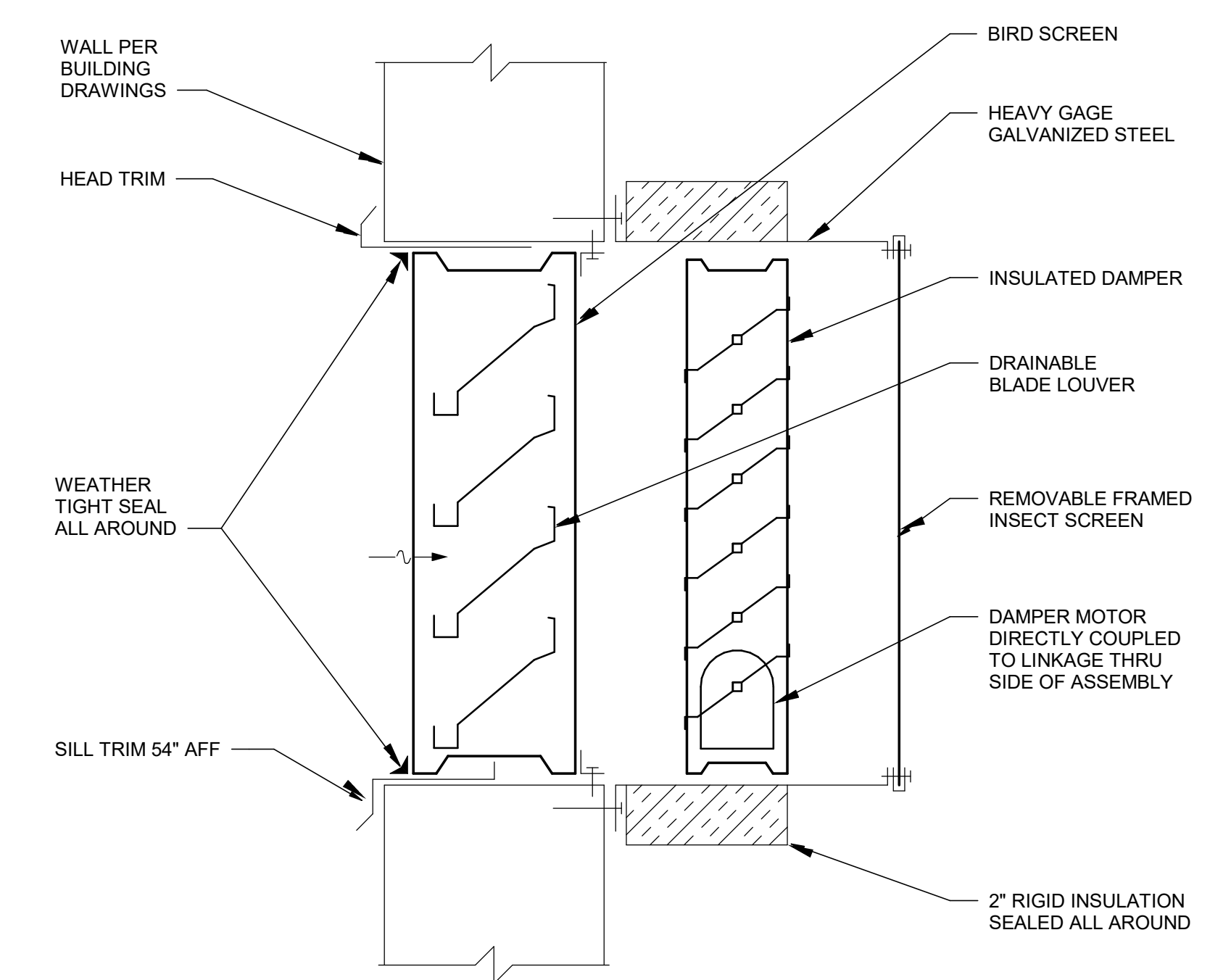
MECHANICAL PLAN
3/8" = 1'-0"



2 VENTING DETAIL
NOT TO SCALE

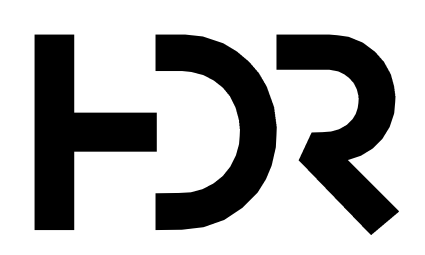


3 GAS FIRED UNIT HEATER
1" = 1'-0"



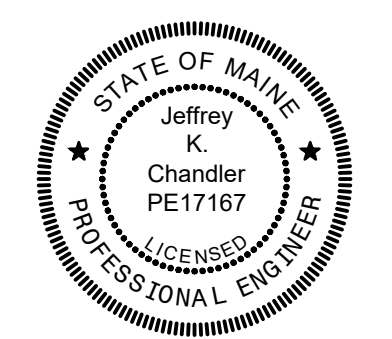
1 LOUVER & DAMPER DETAIL
NOT TO SCALE

Autodesk Docs/10357541_MaineDIF_NewGloucester_Impr_2022/10357541-04-E.rvt 5/16/2024 9:10:56 AM



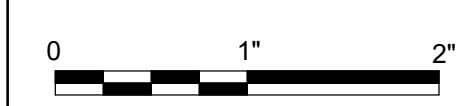
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10357541



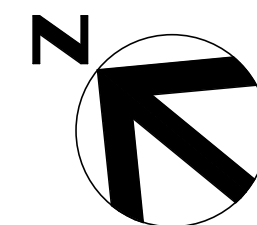
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING MECHANICAL PLAN



FILENAME | 10357541-04-E.rvt
SCALE | As indicated

SHEET
04M-101



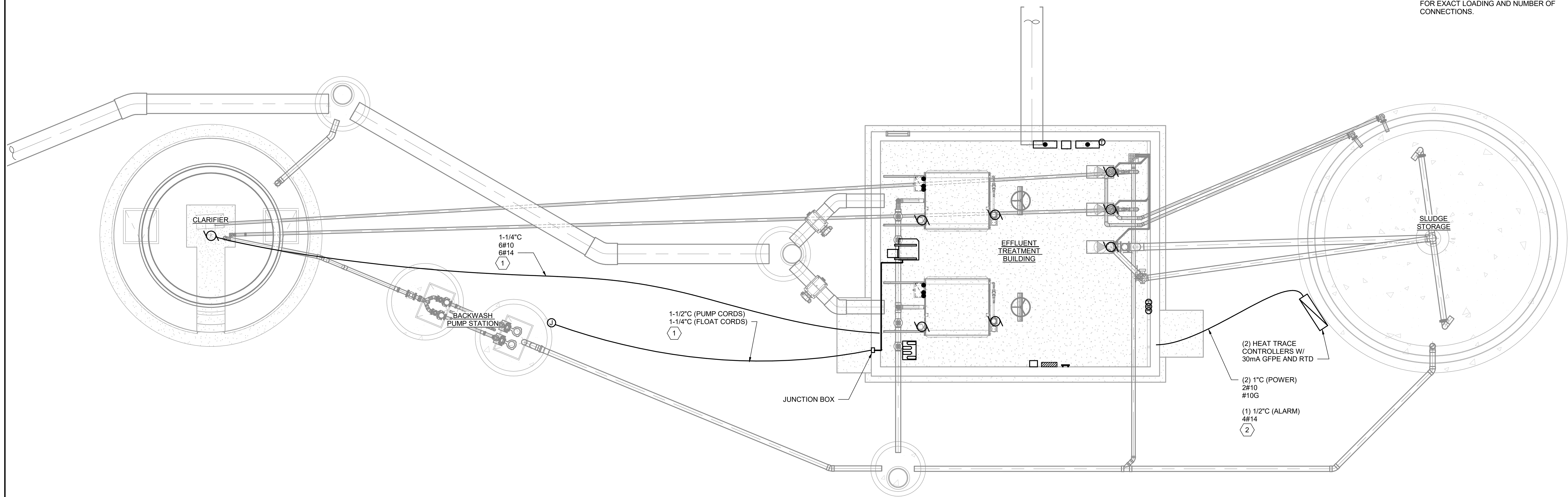
TRUE NORTH

GENERAL NOTES:

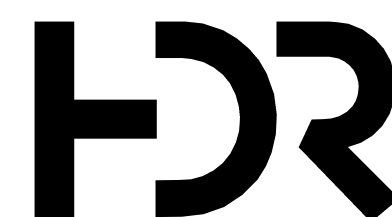
- 1. REFER TO 01E-102 FOR SITE POWER AND COMMUNICATIONS CONDUIT ROUTING.

KEYNOTES #

- 1. CONDUIT AND WIRE IS SHOWN FOR BIDDING PURPOSES ONLY. CONFIRM REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS.
- 2. PROVE (2) 30A CIRCUITS FOR TWO HEAT TRACES ON SLUDGE TANK STAND-PIPES. PROVIDE 2#14 LOW TEMP. ALARM CONTACT FROM EACH HEAT TRACE PANEL TO ALARM JUNCTION BOX. REFER TO DETAIL 2 / 04D-404 AND SPECIFICATION 40 41 13 FOR DETAILS. COORDINATE WITH MFG. REQUIREMENTS FOR EXACT LOADING AND NUMBER OF CONNECTIONS.

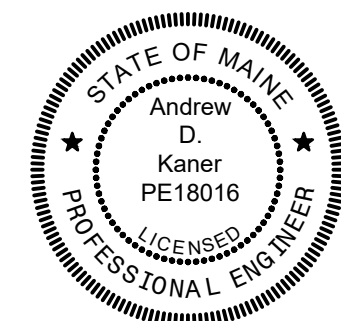


Autodesk Docs/10357541_Main/DIF_NewGloucester Impr_2022/10357541-04-E.rvt 5/16/2024 9:11:18 AM



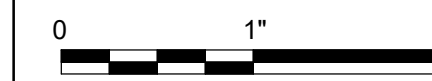
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
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PROJECT NUMBER	10357541



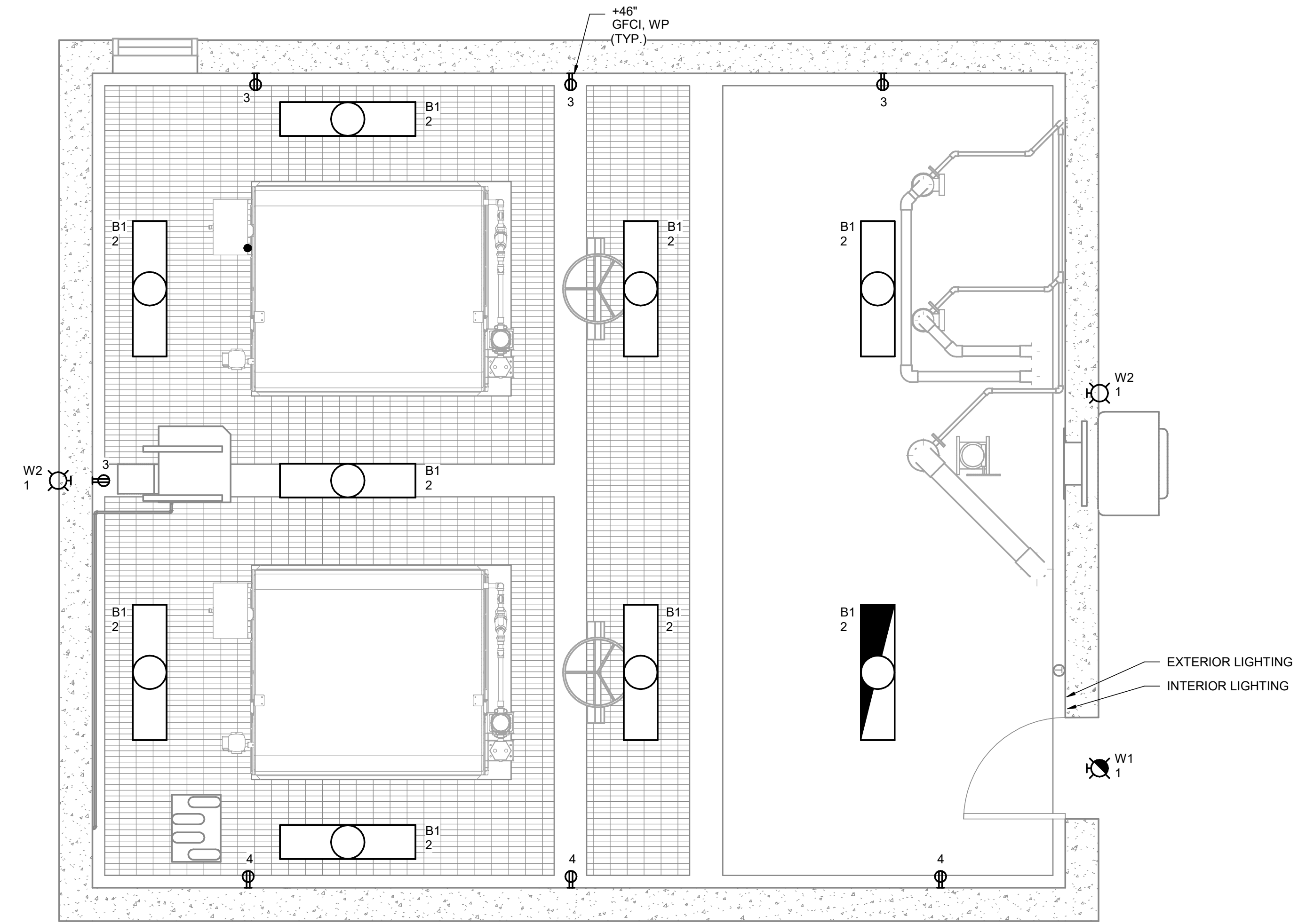
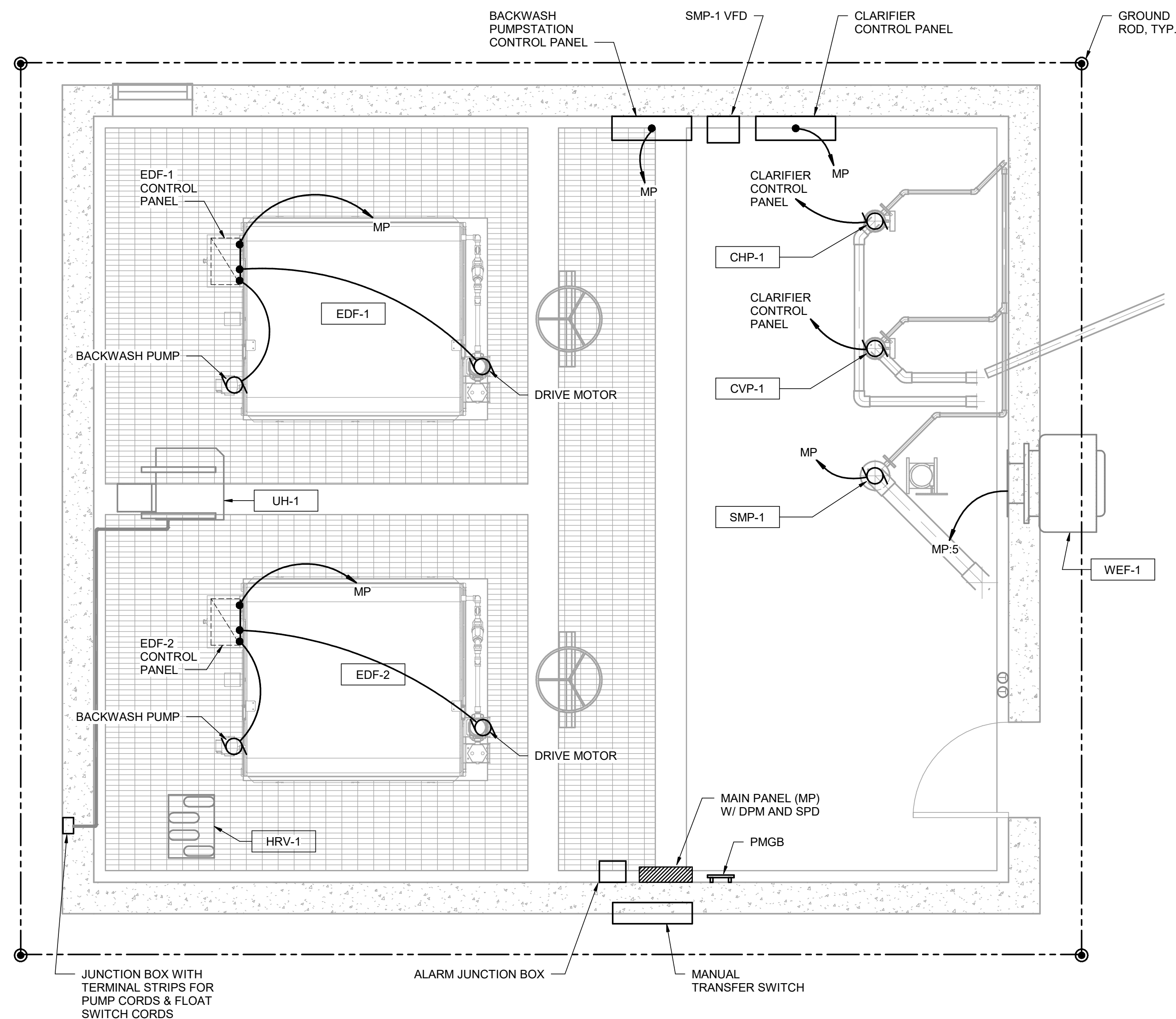
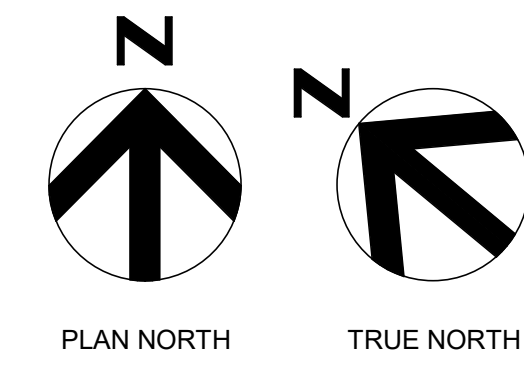
NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

OVERALL EFFLUENT ELECTRICAL PLAN



FILENAME | 10357541-04-E.rvt
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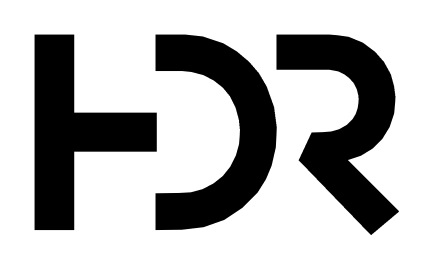
SHEET
04E-101



1 EFFLUENT TREATMENT BUILDING - POWER PLAN
3/8" = 1'-0"

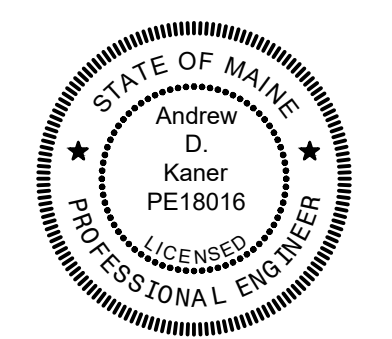
2 EFFLUENT TREATMENT BUILDING - LIGHTING PLAN
3/8" = 1'-0"

Autodesk Docs/10357541_Main/DIF_NewGloucester_Impr_2022/10357541-04-E.rvt 5/16/2024 9:11:04 AM



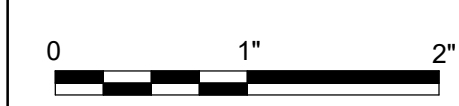
ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
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NEW GLOUCESTER STATE FISH HATCHERY
Phase III Facility Conversion

EFFLUENT TREATMENT BUILDING ELECTRICAL PLANS

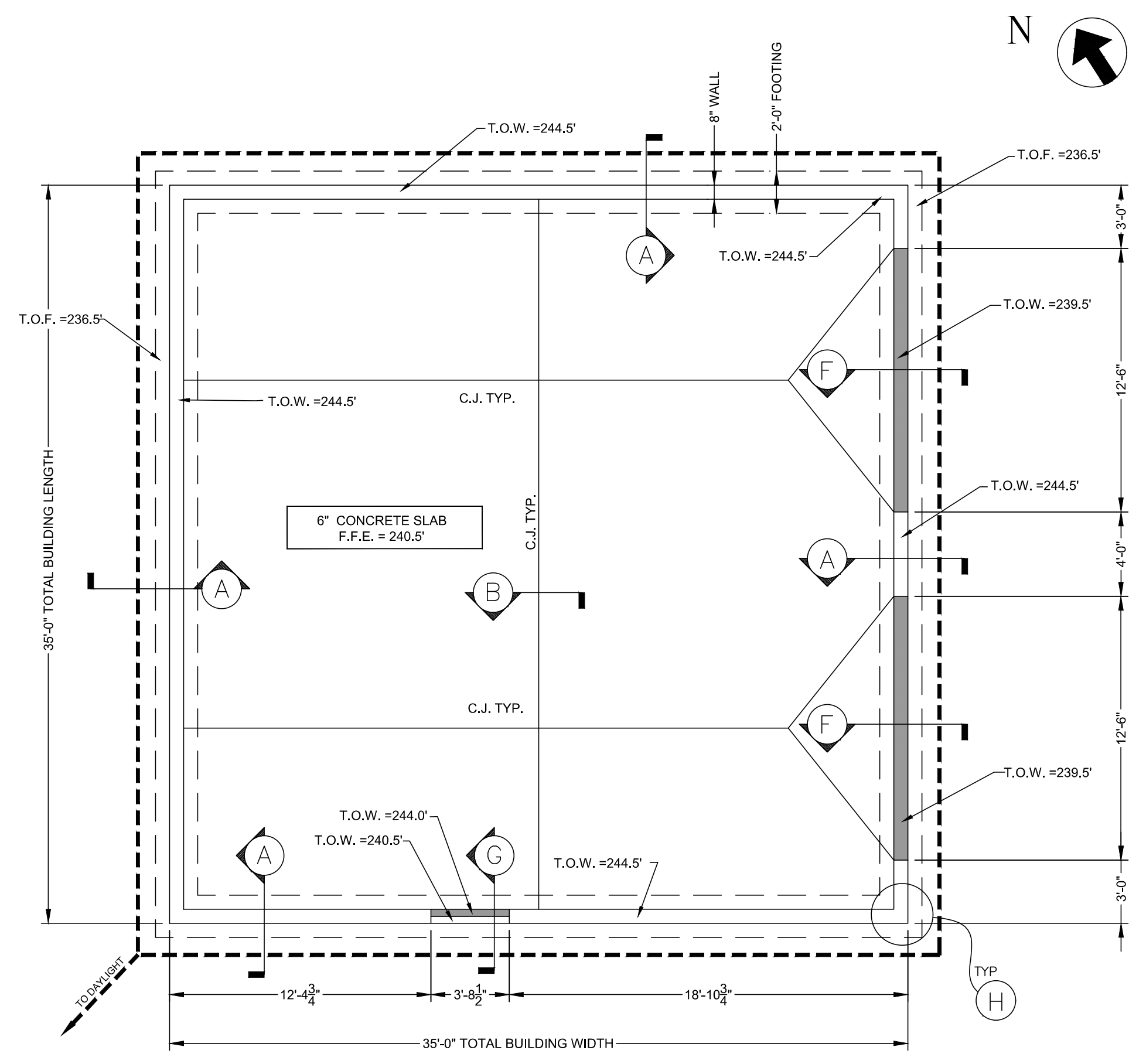


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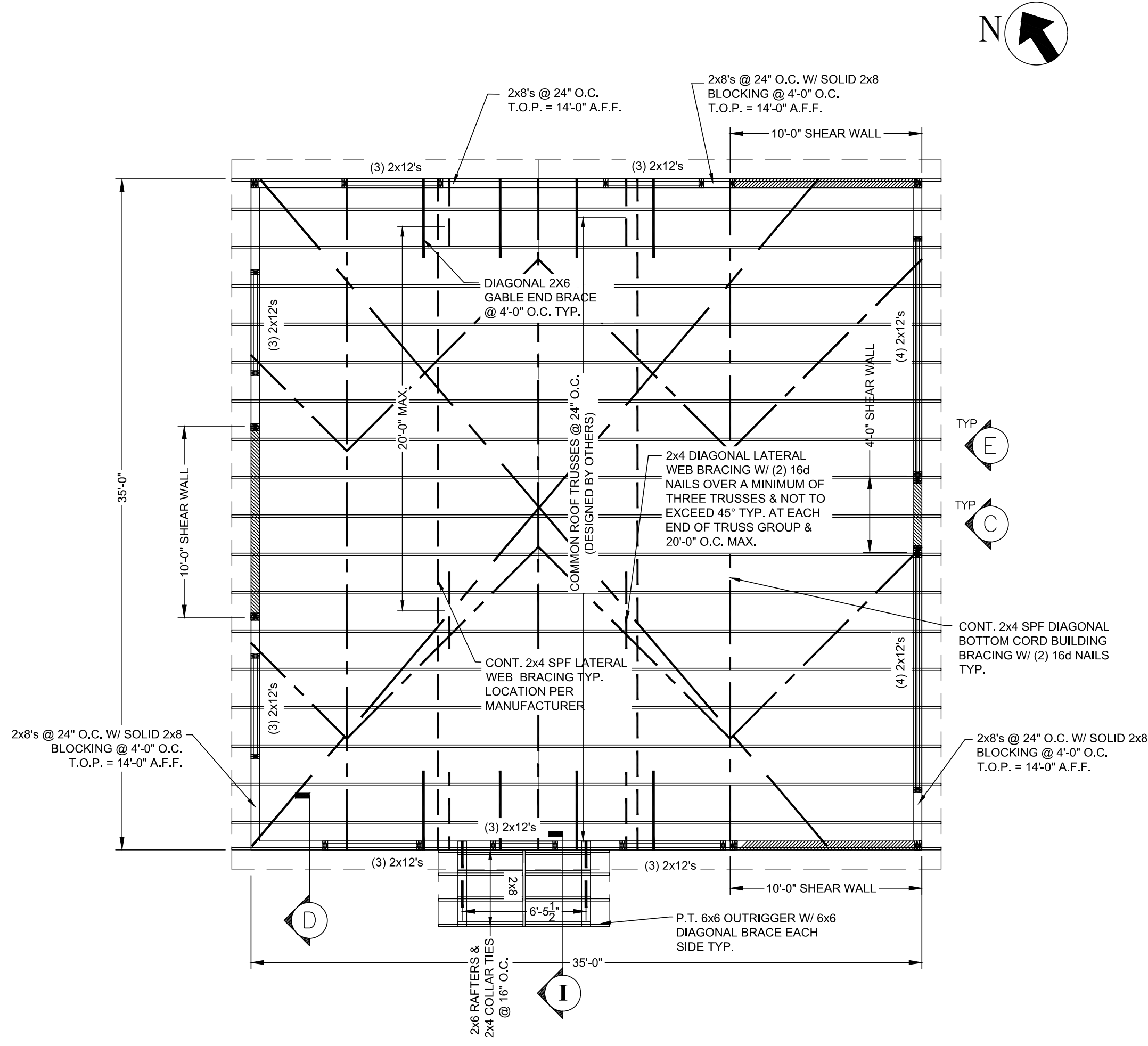
SHEET
04E-401

BRACING LEGEND

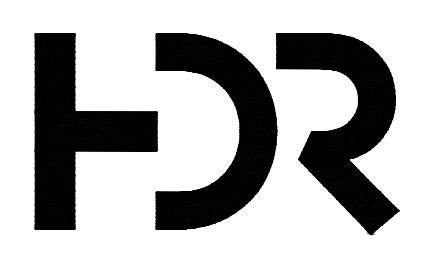
- GABLE END BRACE
- - - LATERAL WEB BRACE
- - - LATERAL DIAGONAL WEB BRACE
- - - BOTTOM CHORD BRACE



FOUNDATION PLAN
SCALE 3/16" = 1'-0"

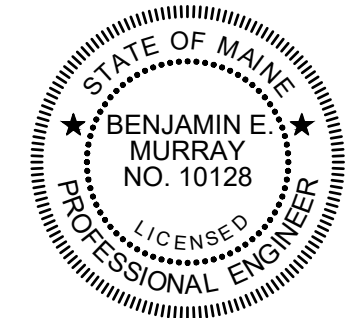


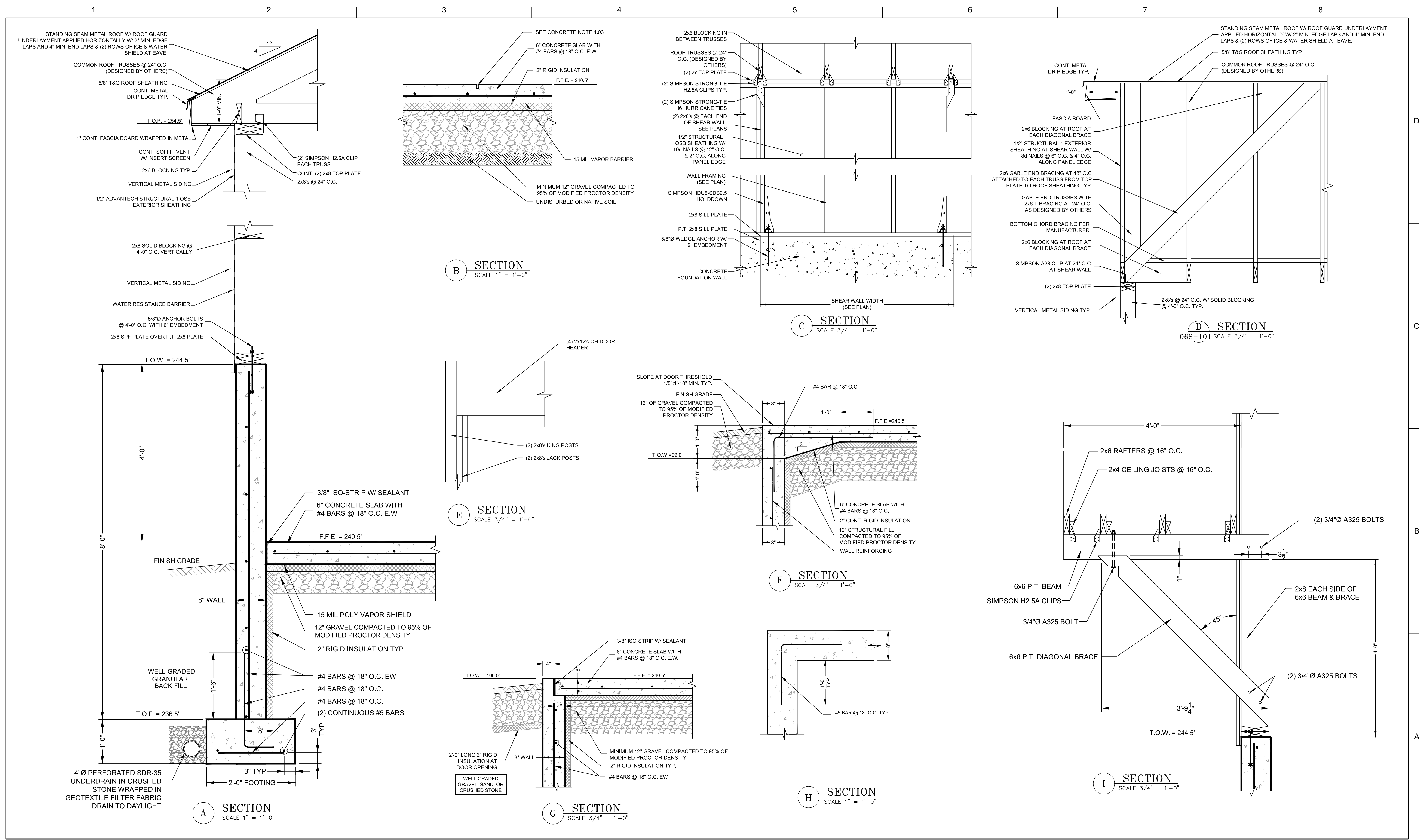
ROOF FRAMING PLAN
SCALE 3/16" = 1'-0"



ISSUE	DATE	DESCRIPTION
	01/31/2024	ISSUED FOR BID

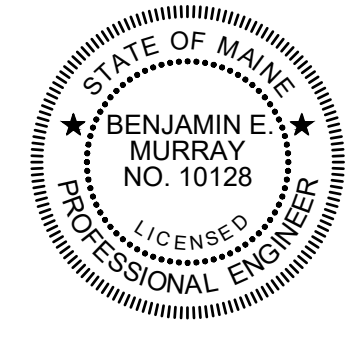
PROJECT MANAGER	BEM
PROJECT NUMBER	10353741





ISSUE	DATE	DESCRIPTION
01/31/2024	ISSUED FOR BID	

PROJECT MANAGER	BEM
PROJECT NUMBER	10353741

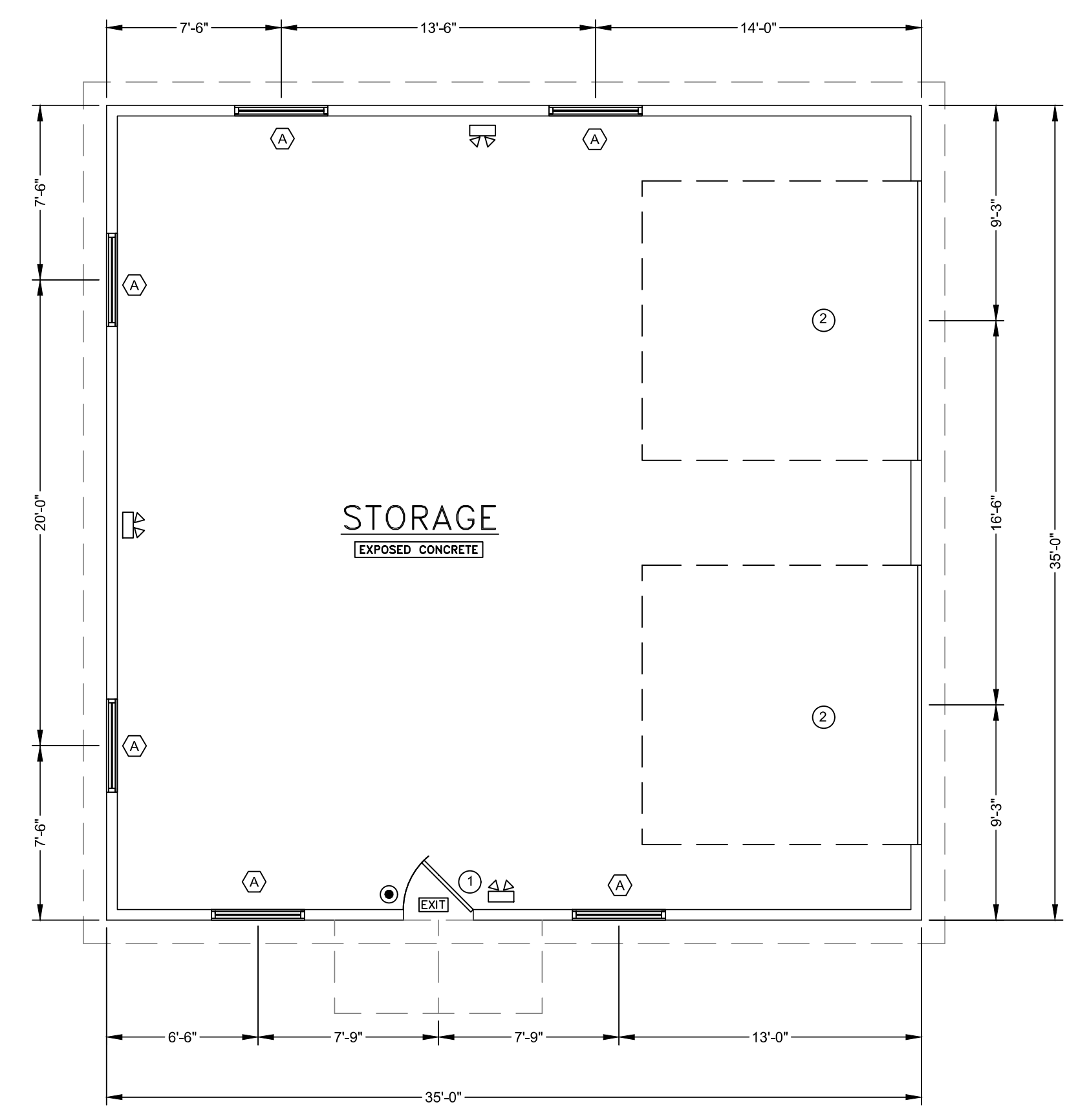


CODE ANALYSIS
 MAINE UNIFORM BUILDING CODE AND ENERGY CODE (MUBEC)
 A 2015 IBC
 B 2015 IECC

BUILDING DATA:
 A. OCCUPANCY: S-1 MODERATE HAZARD STORAGE
 B. CONSTRUCTION TYPE (602): VB
 C. ALLOWABLE AREA: 9,000 SF
 D. ACTUAL FLOOR AREA: 1,225 SF
 E. MAX. ALLOWABLE HEIGHT (STORIES): 40' (1)
 F. ACTUAL HEIGHT (STORY): < 40' (1)
 G. OCCUPANT LOAD: 1,225 SF / 300SF PER PERSON = 5 OCCUPANTS
 H. EGRESS REQUIREMENTS: 2 EXITS
 I. MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200 FT
 J. ACTUAL TRAVEL DISTANCE: 35'

ENERGY ANALYSIS:
 1. BUILDING IS NOT HEATED OR COOLED THUS MEETS EXEMPTION C402.2 IN 2015 IECC FOR NOT HAVING TO MEET THERMAL REQUIREMENTS OF ENERGY CODE.

PLUMBING FIXTURES:
 1. EXISTING FACILITIES ONSITE HAVE ADEQUATE RESTROOM, MOP SINK, AND DRINKING FOUNTAINS. THE NEW ADDITION STORAGE BUILDING SHALL NOT REQUIRE A RESTROOM, MOP SINK, AND DRINKING FOUNTAIN BECAUSE EXISTING FACILITIES ARE AVAILABLE ONSITE.



FIRST FLOOR PLAN
 SCALE 3/16" = 1'-0"

LEGEND

- PROPOSED WALL
- EXIT SIGN
- EMERGENCY LIGHTING
- FIRE EXTINGUISHER

NOTE:
 1. FIRE EXTINGUISHER, BRACKET MOUNTED EQUAL TO 2A:10B:C, 5LB CAPACITY

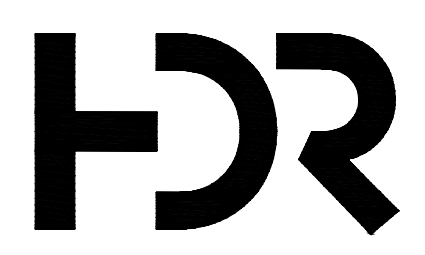
WINDOW SCHEDULE

NO.	QUANTITY	SIZE	TYPE	FRAME	REMARKS
A	6	4'-0" x 3'-0"	AWNING	ALUMINUM	ANDERSEN AXW41 UNIT 400 SERIES

DOOR SCHEDULE

NO.	QUANTITY	SIZE	TYPE	FRAME	REMARKS
1	1	3'-0" x 6'-8"	METAL INSULATED	METAL	HINGES, LEVER HARDWARE, ADA THRESHOLD, CLOSER, DEAD BOLT, ENTRY LOCKSET
2	2	12'-0" x 12'-0"	OVERHEAD	NA	TRACK, AUTOMATIC OPENER, REMOTE

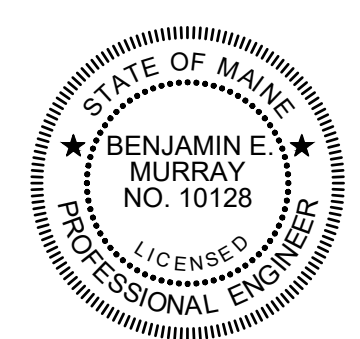
NOTES:
 1. DOOR LEVER HARDWARE SHALL RETRACT DEADBOLT TO ALLOW FOR FREE EGRESS.
 2. DOORS SHALL HAVE WEATHSTRIPPING, BOTTOM DOOR SWEEP, AND WALL GUARD.

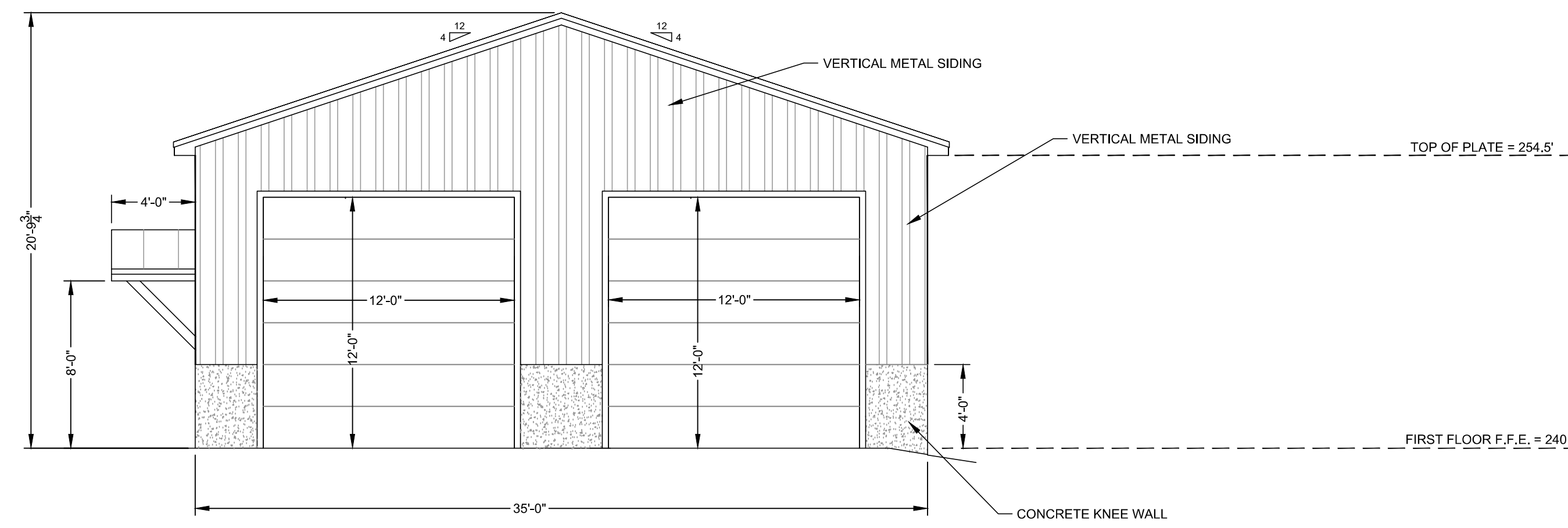


ISSUE	DATE	DESCRIPTION
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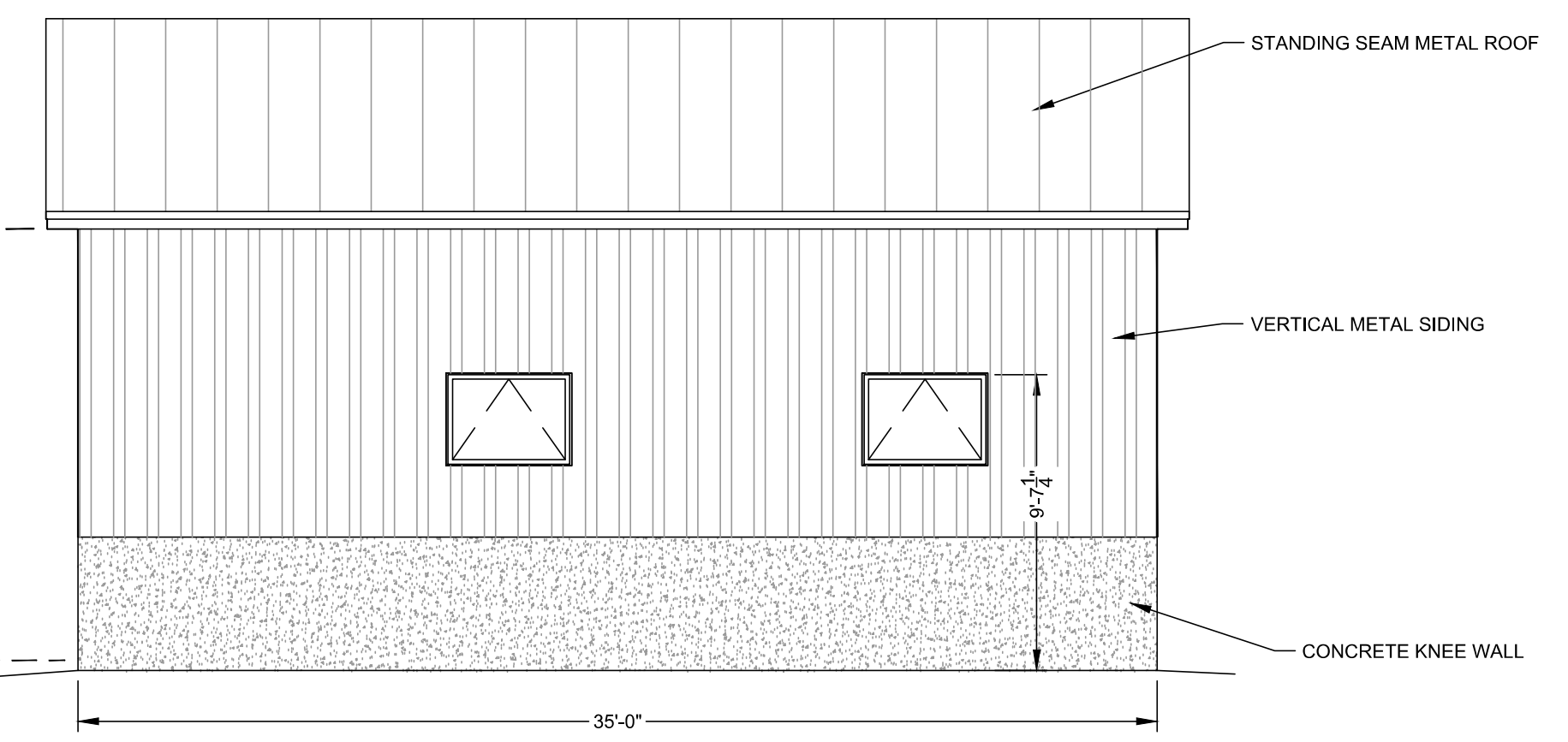
PROJECT MANAGER BEM

PROJECT NUMBER	10353741
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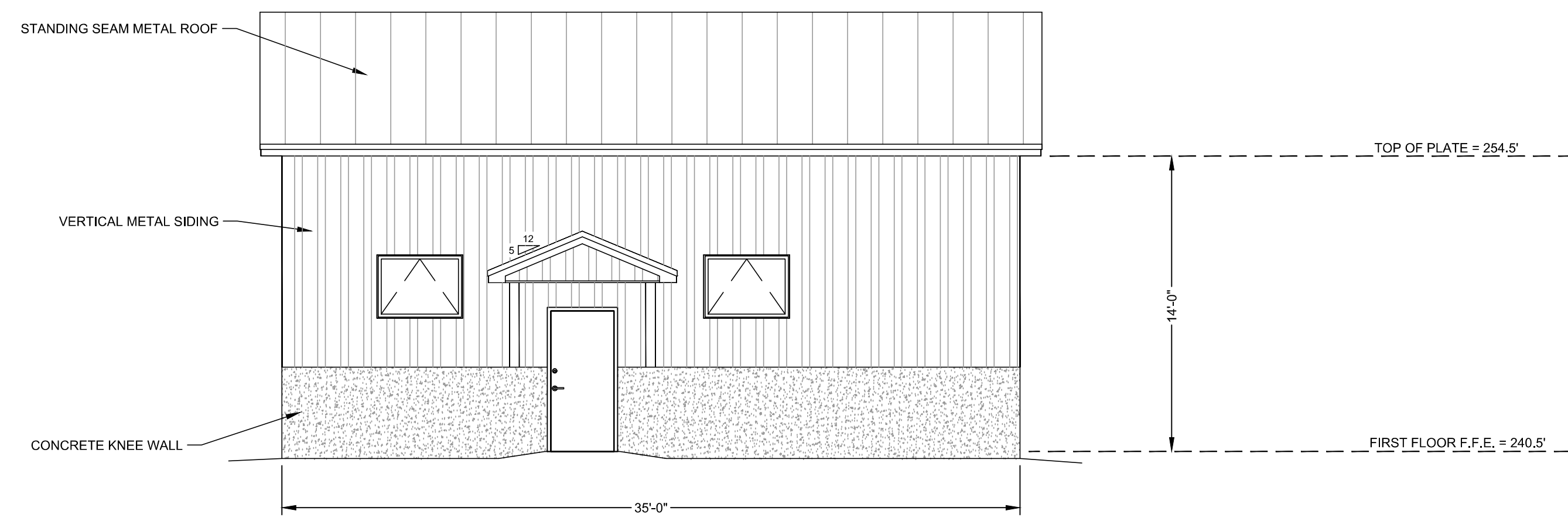




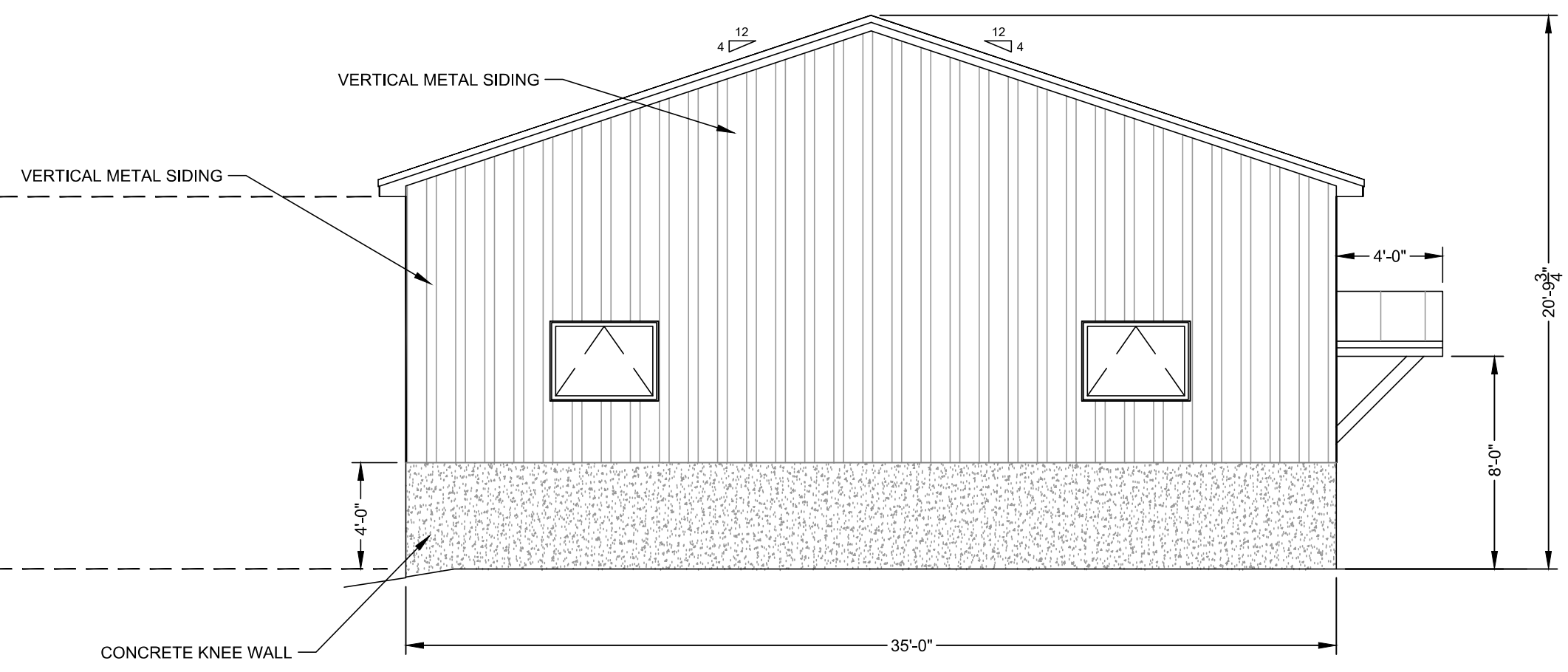
EAST ELEVATION
SCALE 3/16" = 1'-0"



NORTH ELEVATION
SCALE 3/16" = 1'-0"



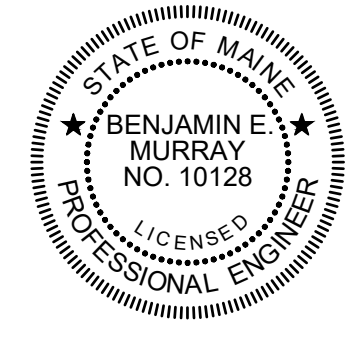
SOUTH ELEVATION
SCALE 3/16" = 1'-0"



WEST ELEVATION
SCALE 3/16" = 1'-0"

ISSUE	DATE	DESCRIPTION
01/31/2024	ISSUED FOR BID	

PROJECT MANAGER	BEM
PROJECT NUMBER	10353741

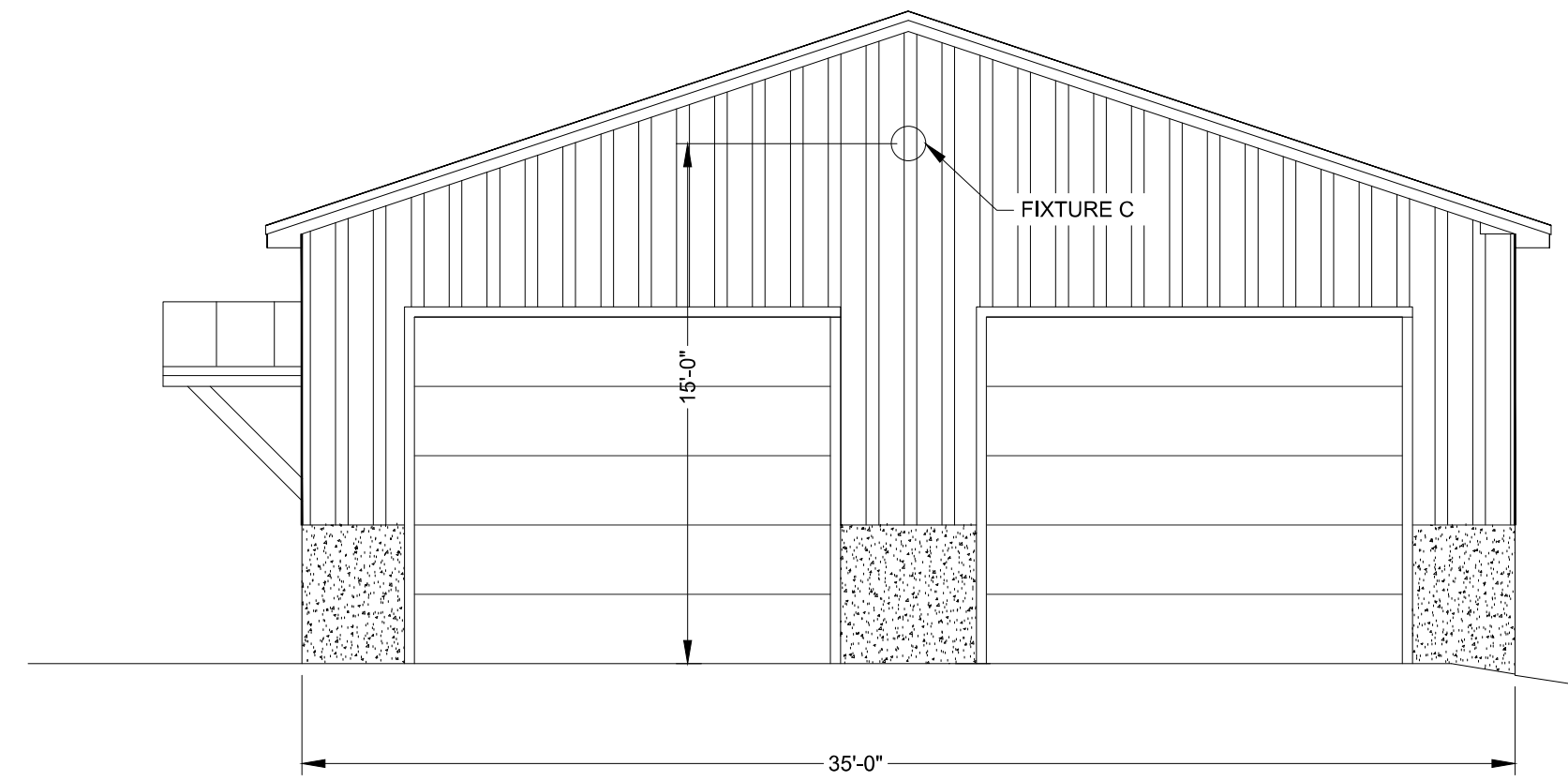
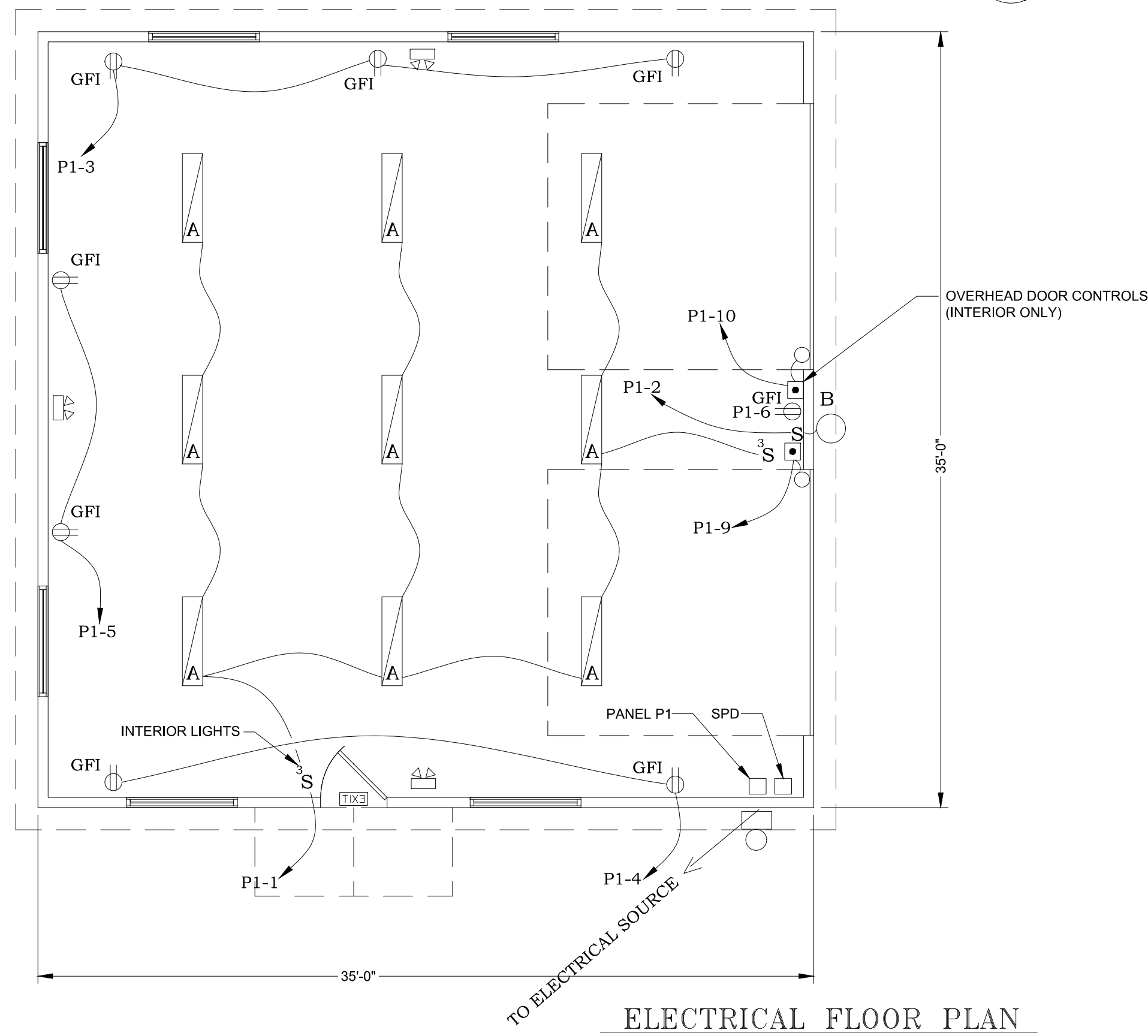


LEGEND

- LED LIGHTING FIXTURE; LETTER INDICATES TYPE
- DUPLEX 20A RECEPTACLE 48" AFF
- SINGLE POLE SWITCH 48" AFF
- 3 WAY SWITCH 48" AFF
- UTILITY METER
- OHE OVERHEAD ELECTRICAL WIRES
- OVERHEAD DOOR OPERATOR CONTROL
- PANEL OR AS LABELED
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- GFI GROUND FAULT CIRCUIT PROTECTOR
- SPD SURGE PROTECTIVE DEVICE
- OHD OVERHEAD DOOR

A FIELD COORDINATE MOUNTING FOR POWER TO OVERHEAD DOOR

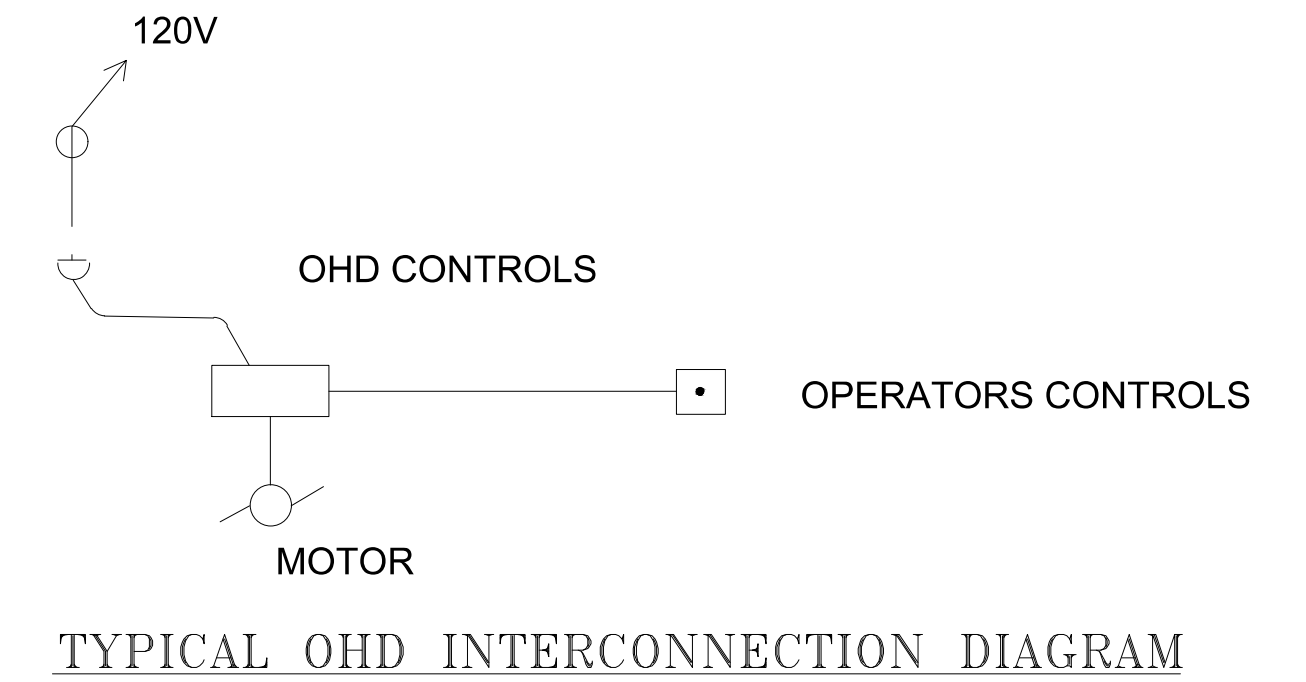
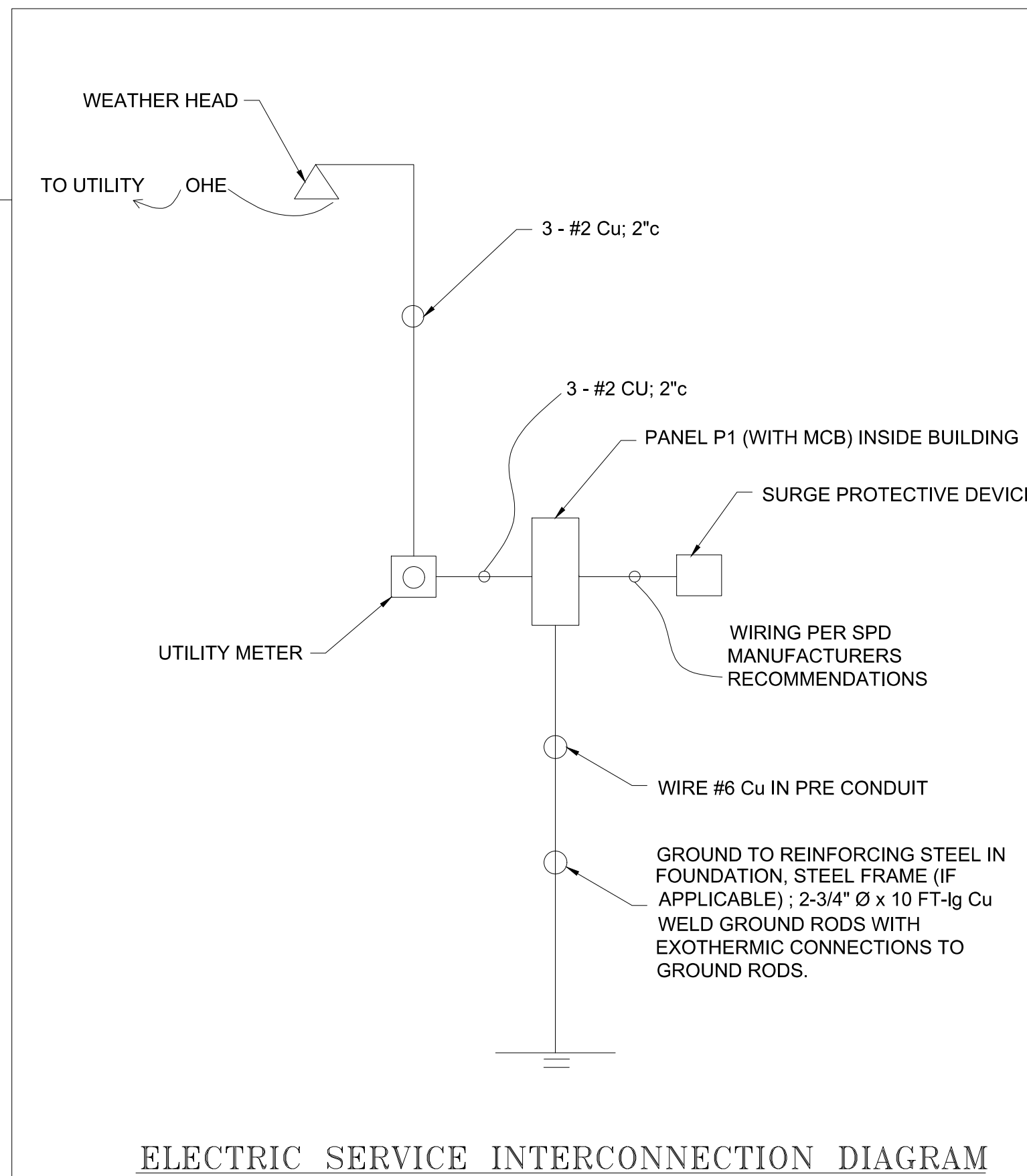
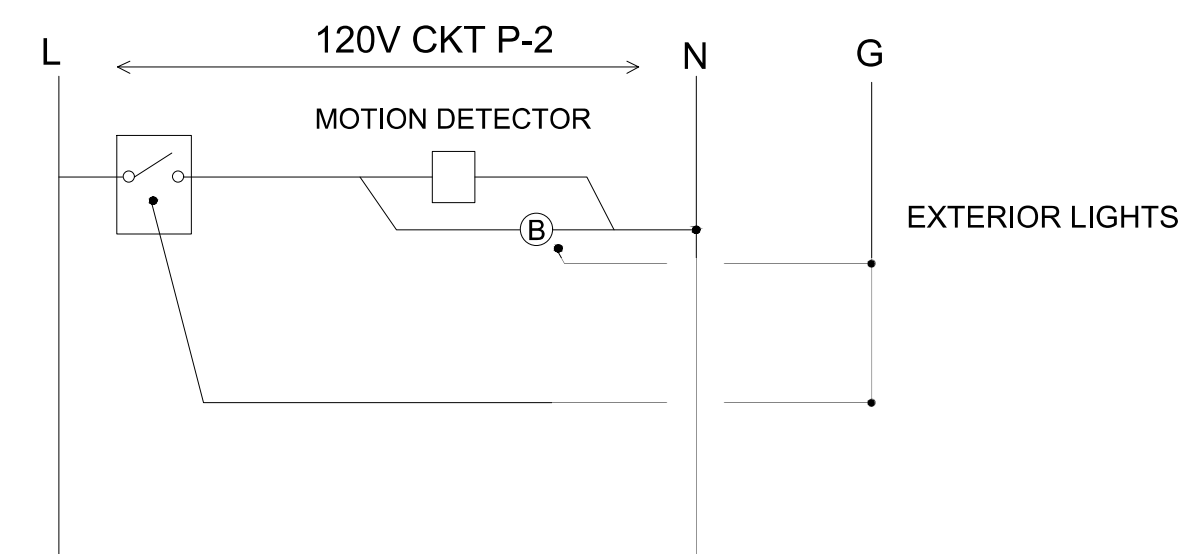
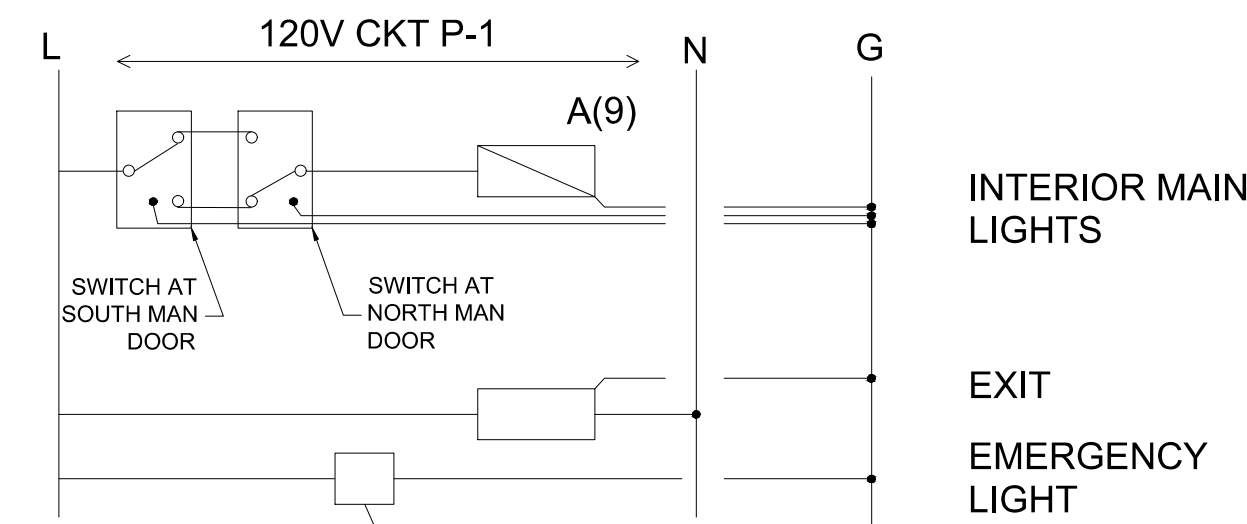
NOTE: CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR INTERIOR LIGHTING CIRCUIT AND RECEPTACLE CIRCUITS AND PROVIDE CONDUCTORS THAT LIMIT THE VOLTAGE DROP TO A MAXIMUM OF 3%. CALCULATIONS SHALL BE SUBMITTED WITH SHOP DRAWINGS FOR ENGINEERS APPROVAL.



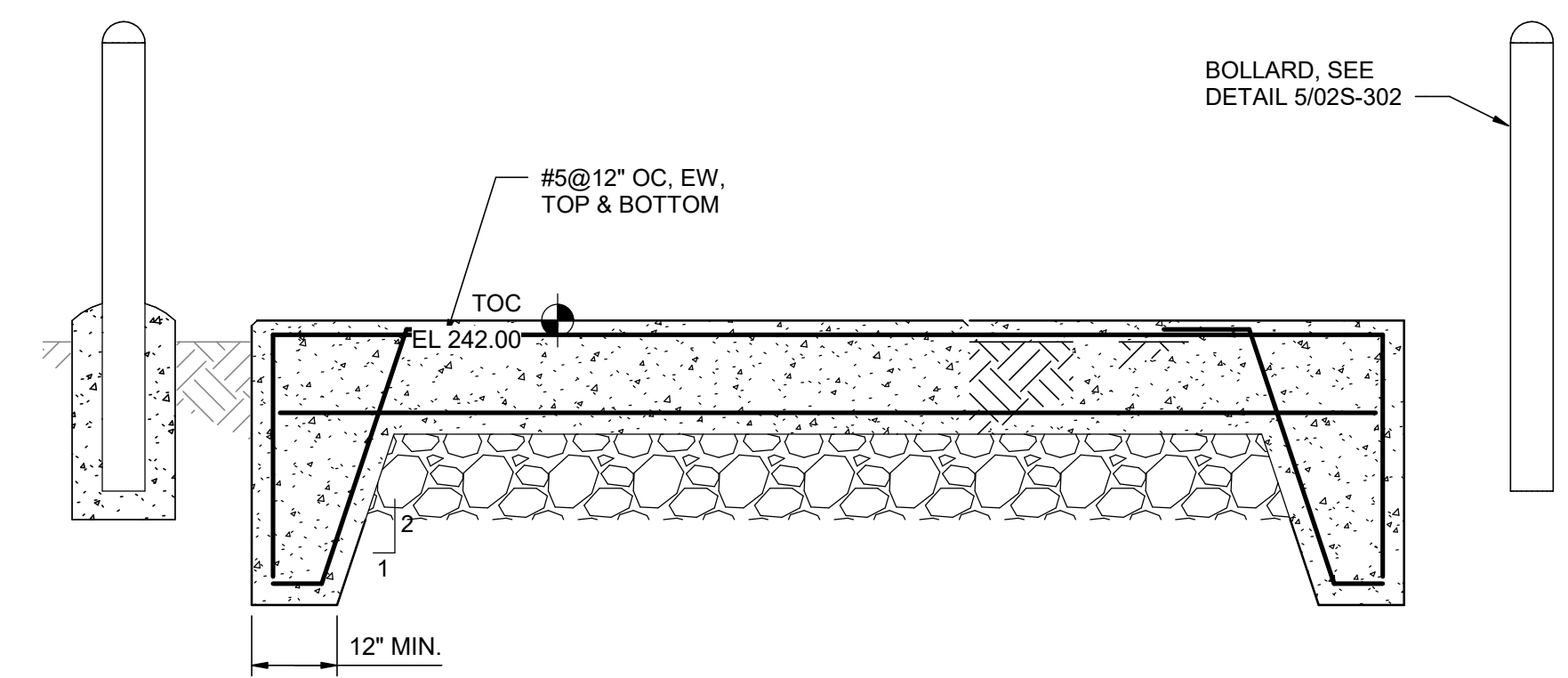
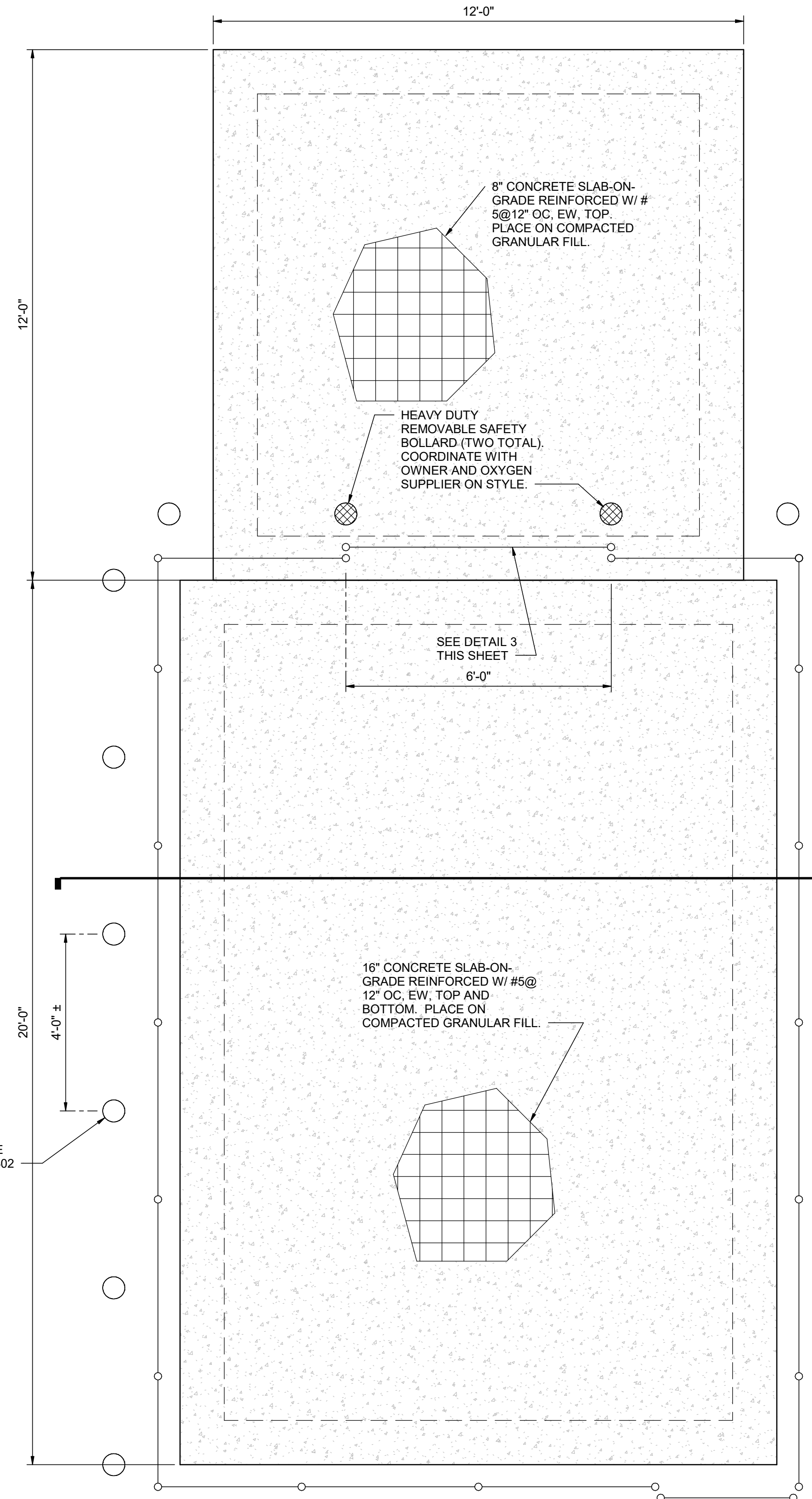
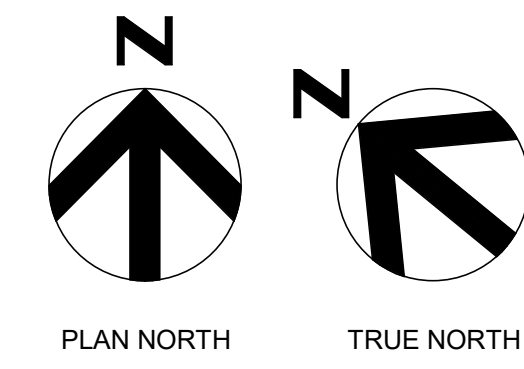
FIXTURE SCHEDULE				
TYPE	FIXTURE MAKE	FIXTURE MODEL	MOUNTING	LAMPING
A	LITHONIA	ZLN L48 5000LM FST MVOLT 50K 80 CRI WH	SURFACE ON BOTTOM OF TRUSS	21.7W/LED
B	RAB	WPLED 4T 78 N WITH SMS 500 MOTION CONTROLLER	WALL 18 FT AFG	78W/LED
EXIT	LITHONIA	LV S W I R 120 UM CW	WALL ABOVE DOOR	2.3W/LED
EMRG	LITHONIA	EU2L	WALL 10 FT AFG	LED

PANEL P1 SCHEDULE - A SURFACE MOUNTED				
100 AMP MCB, 240/120 VOLT, 1 PHASE, 3 WIRE, 60 HZ				
CIRCUIT NO.	DESCRIPTION	NO. POLES	RATING	LOAD
1	INTERIOR LIGHTS	1	20*	1.6A
2	EXTERIOR LIGHTS	1	20*	0.7A
3	RECEPT - N	1	20	4.5A
4	RECEPT - S	1	20	3.0A
5	RECEPT - E	1	20	3.0A
6	RECEPT - W	1	20	1.5A
7	SPACE	1	20	
8	SPACE	1	20	
9	OH DOOR S	1	20	9.8A
10	OH DOOR N	1	20	9.8A
11,13	SPD	2	**	
12-14	SPARE	2	20	
15,16	SPACE	1	20	
17-24	SPACE	-	20	

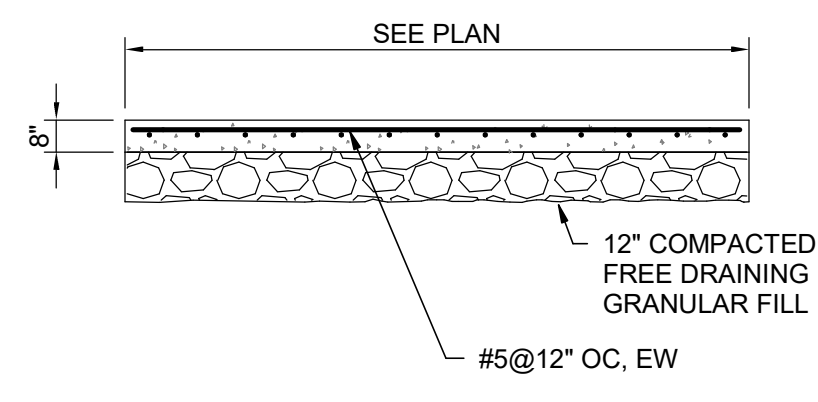
* PROVIDE HANDLE LOCK ON CIRCUITS
** RATING PER SPD MANUFACTURER RECOMMENDATION



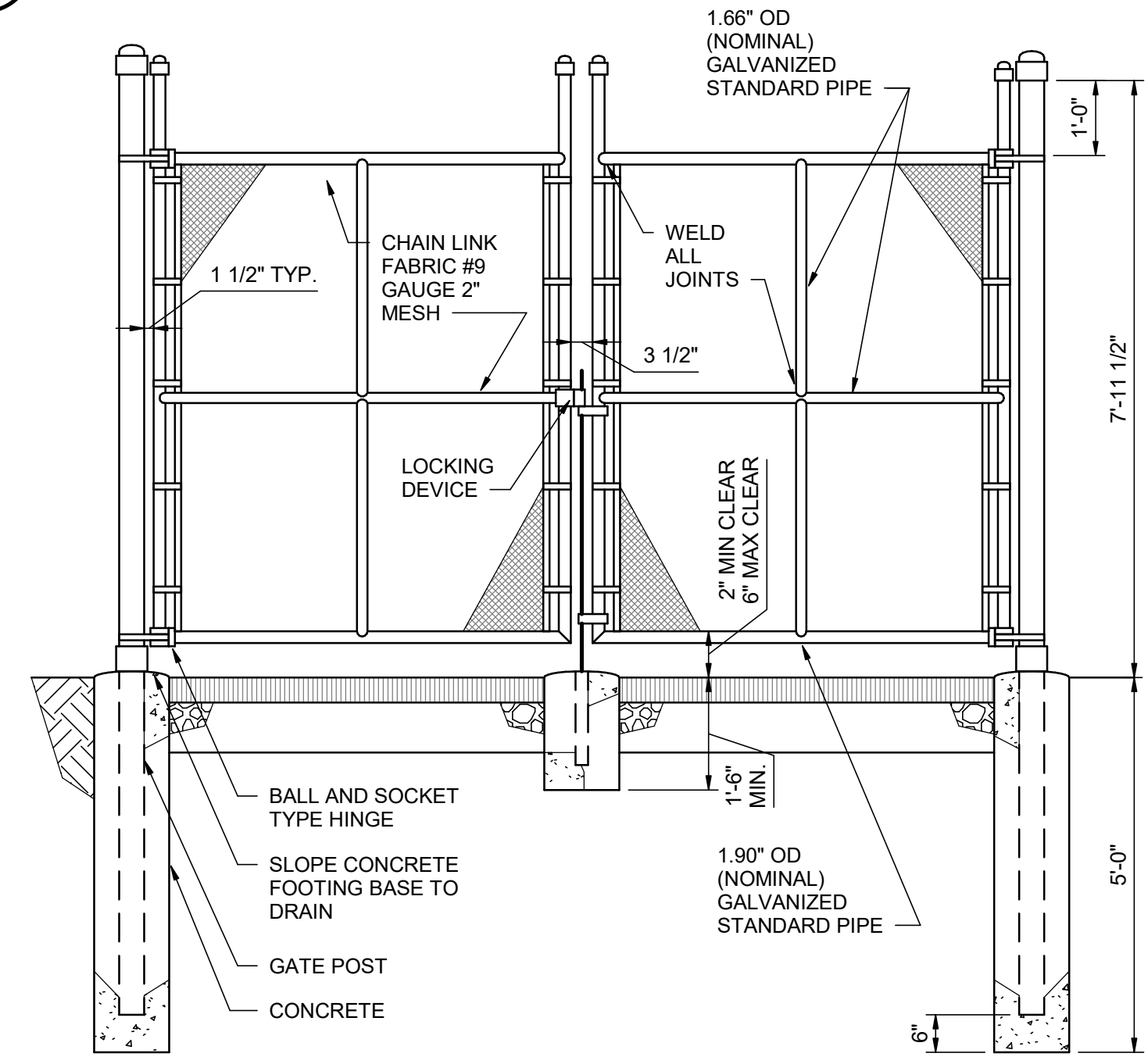
1 2 3 4 5 6 7 8



A
-
1/2" = 1'-0"

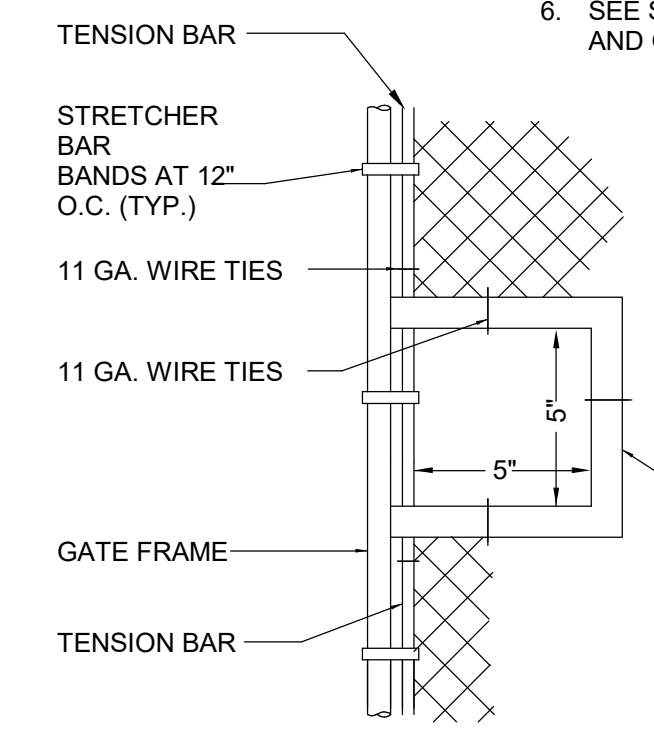


2
-
1/4" = 1'-0"

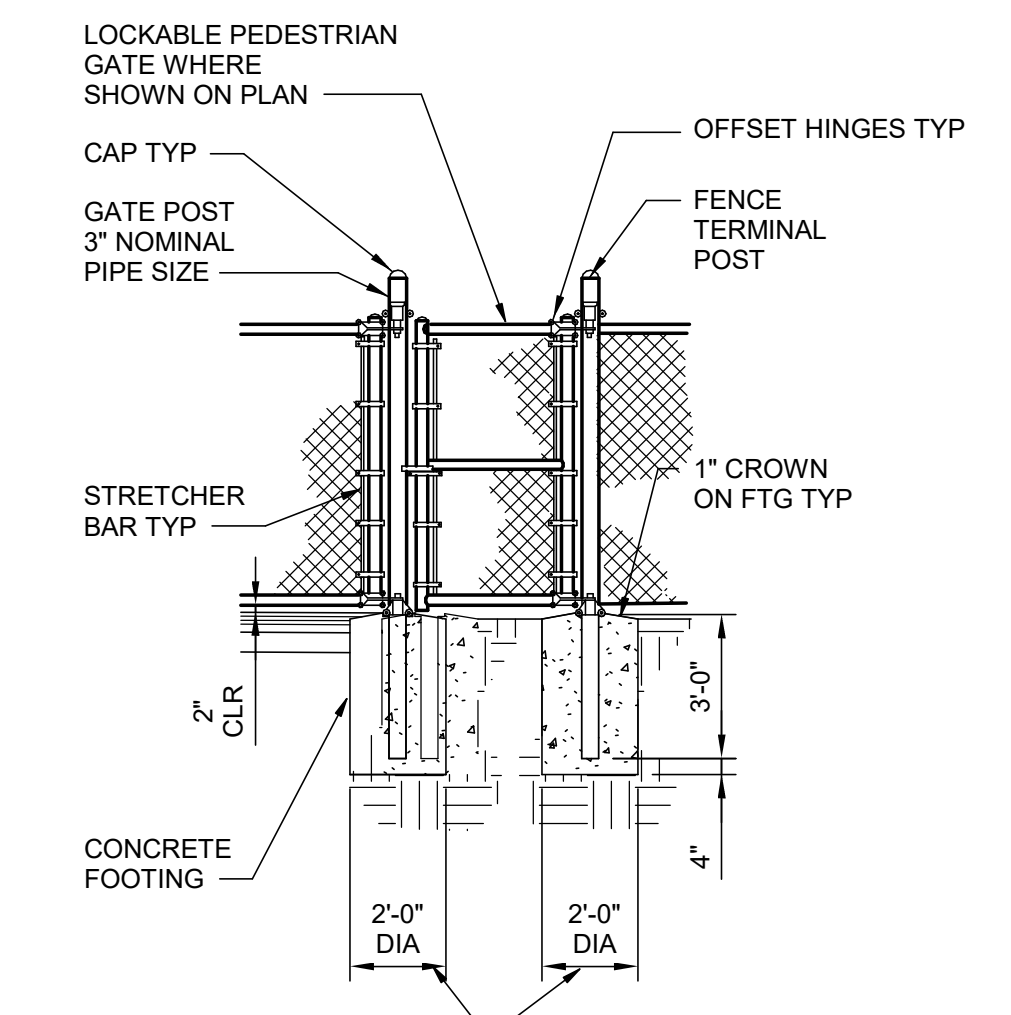


3
-
1/2" = 1'-0"

- GENERAL NOTES:**
- SEE SHEET 00S-001 FOR GENERAL STRUCTURAL NOTES.
 - SEE 00S-500 SERIES SHEETS FOR TYPICAL STRUCTURAL DETAILS.
 - REFER TO ARCHITECTURAL, PROCESS, MECHANICAL, PLUMBING, ELECTRICAL, AND DRAWINGS OF OTHER TRADES FOR LOCATIONS OF OPENINGS, DEPRESSIONS, FLOOR SLOPES AND DRAINS.
 - CONTRACTORS SHALL MARK WHERE THE REBARS ARE LOCATED.
 - SLEEVE ALL PIPE PENETRATIONS THROUGH SLAB WITH PVC PIPE SIZED TO ALLOW PIPE TO FREELY PASS THROUGH SLAB.
 - SEE SPECIFICATION 32 31 13 - CHAIN LINK FENCE AND GATES FOR ADDITIONAL INFORMATION.



4
-
NOT TO SCALE

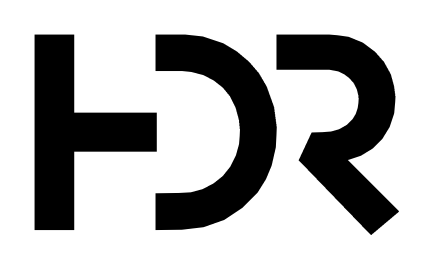


NOTE:

- USE 3'-0" DIA CONCRETE FOOTING HOLE FOR POST DIAMETERS GREATER THAN 5" AND USE 4'-0" DIA CONCRETE FOOTING HOLE FOR POST DIAMETERS GREATER THAN 6".

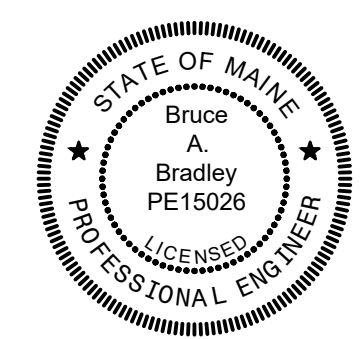
5
-
NOT TO SCALE

Autodesk Docs/10353741_Main/DIF_NewGloucester Impr_2022/10353741-06-U-OXYGEN_PAD.rvt 5/16/2024 9:00:27 AM



ISSUE	DATE	DESCRIPTION
	05/03/2024	ISSUED FOR BID

PROJECT MANAGER	ANDREW GURSKI
CIVIL	J. GAGNON
STRUCTURAL	B. BRADLEY
ARCHITECTURAL	M. BASKIN
PROCESS	J. CHANDLER
MECHANICAL	J. CHANDLER
ELECTRICAL	A. KANER
PROJECT NUMBER	10353741

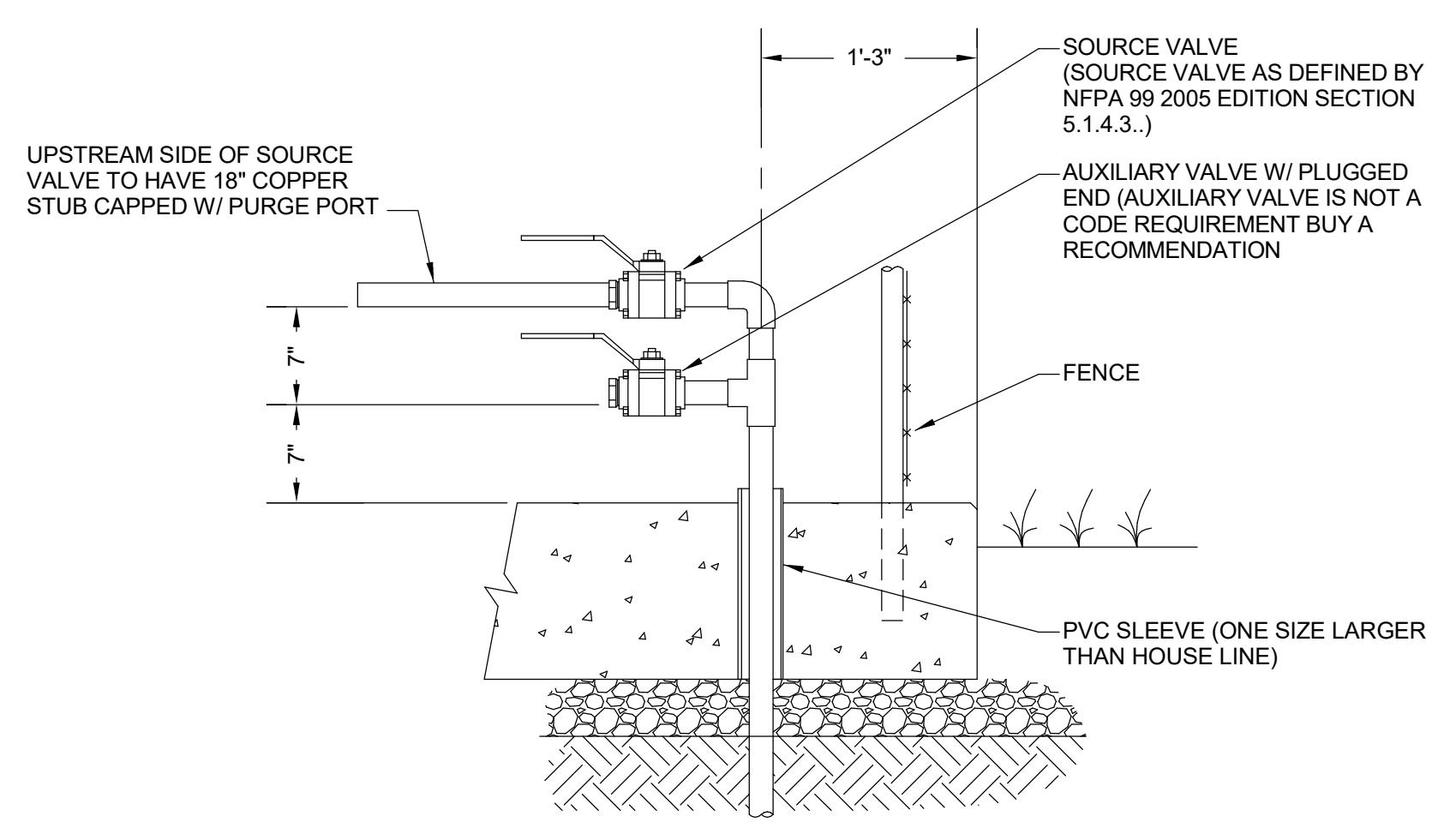
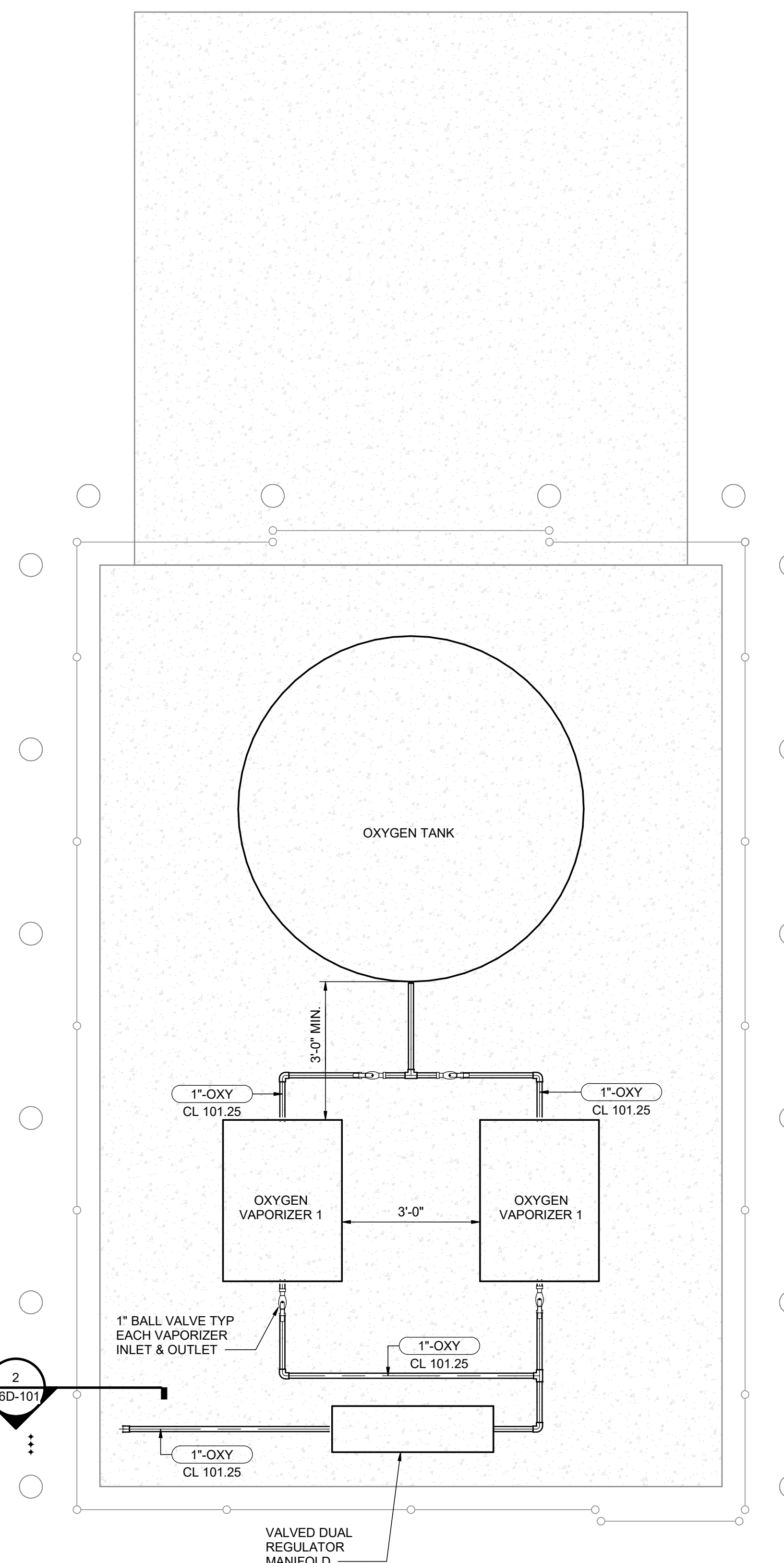
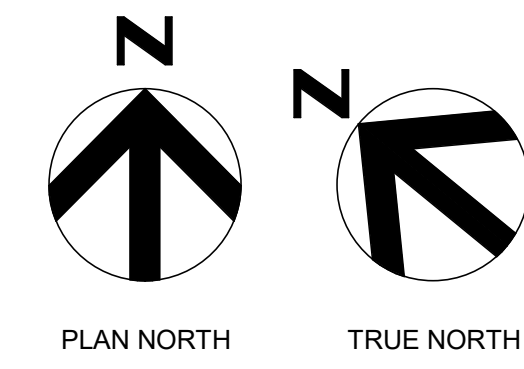


IMPROVEMENTS AT NEW GLOUCESTER STATE FISH HATCHERY

OXYGEN PAD STRUCTURAL PLAN AND SECTION

0 1" 2" FILENAME 10353741-06-U
SCALE As indicated

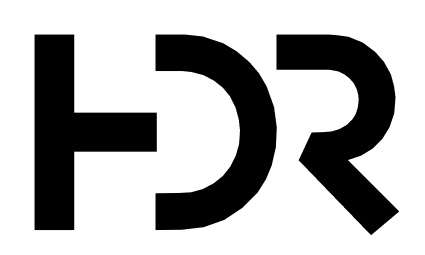
SHEET
06S-101



2 HOUSE LINE DETAIL
NOT TO SCALE

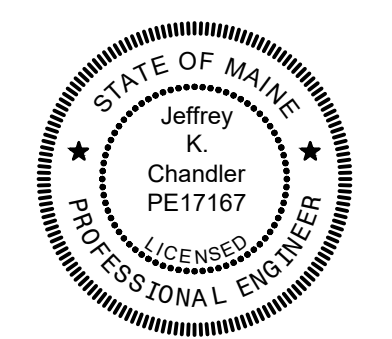
0 1 2 4
PROCESS PLAN
1/2" = 1'-0"

Autodesk Docs//10353741_Main/DIF_New/Gloucester Impr_2022/10353741-06-U-OXYGEN_PAD.rvt 5/16/2024 9:00:34 AM

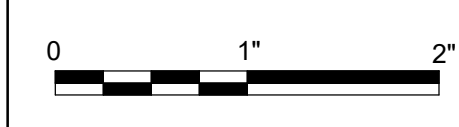


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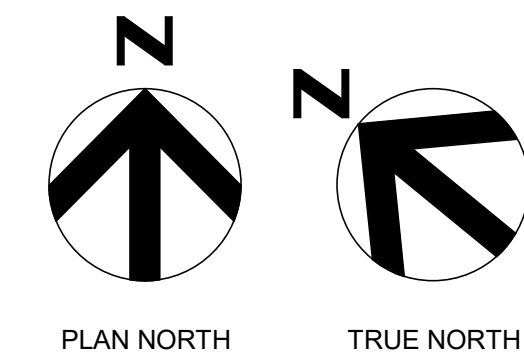
IMPROVEMENTS AT NEW GLOUCESTER STATE FISH HATCHERY



OXYGEN PAD PROCESS PLAN

FILENAME | 10353741-06-U
SCALE | As indicated

SHEET
06D-101

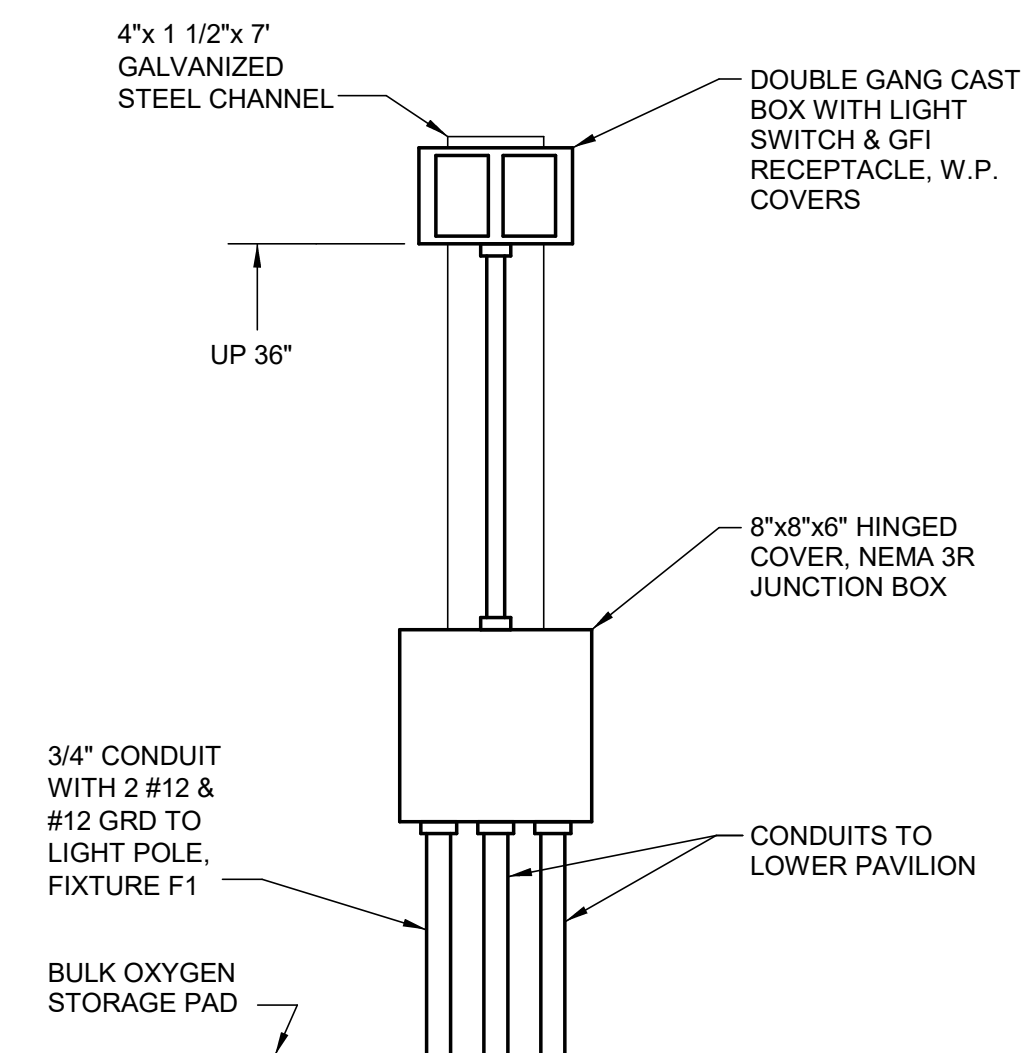


TO AJB IN LOWER PAVILION

1/2" C
2#14

OXYGEN TANK LOW LEVEL ALARM

1C



2
-
OXYGEN PAD JUNCTION BOX RECEPTACLE DETAIL
NOT TO SCALE

2
06E-101

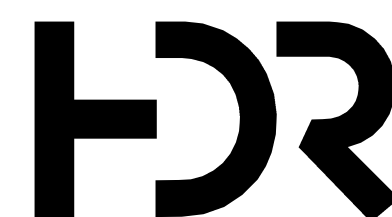
LOWER PAVILION LP3

[TWO CIRCUITS]:
3/4" C
2#12
#12G

POLE-MOUNT LIGHT 'F1'. SEE LUMINAIRE SCHEDULE FOR DETAILS.

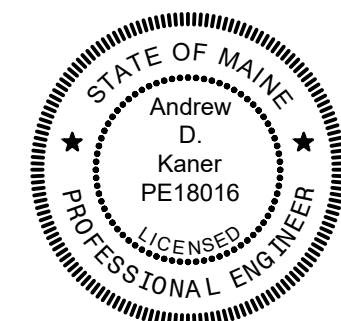


1
-
ELECTRICAL PLAN
1/2" = 1'-0"



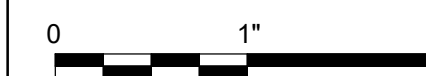
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IMPROVEMENTS AT NEW GLOUCESTER STATE FISH HATCHERY

OXYGEN PAD ELECTRICAL PLAN



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