

TOWN OF WAREHAM, MASSACHUSETTS

GENERATOR REPLACEMENT AT SALT WORKS ROAD AND TERRY LANE PUMPING STATIONS

SEPTEMBER 2020

GHD PROJECT NUMBER: 112-06153

CONTRACT NO. 2020-02

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TOWN MANAGER
DEREK SULLIVAN

DIRECTOR OF WATER POLLUTION CONTROL
GUY CAMPINHA SR.

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JAMES R. GIBERTI
CHAIRMAN

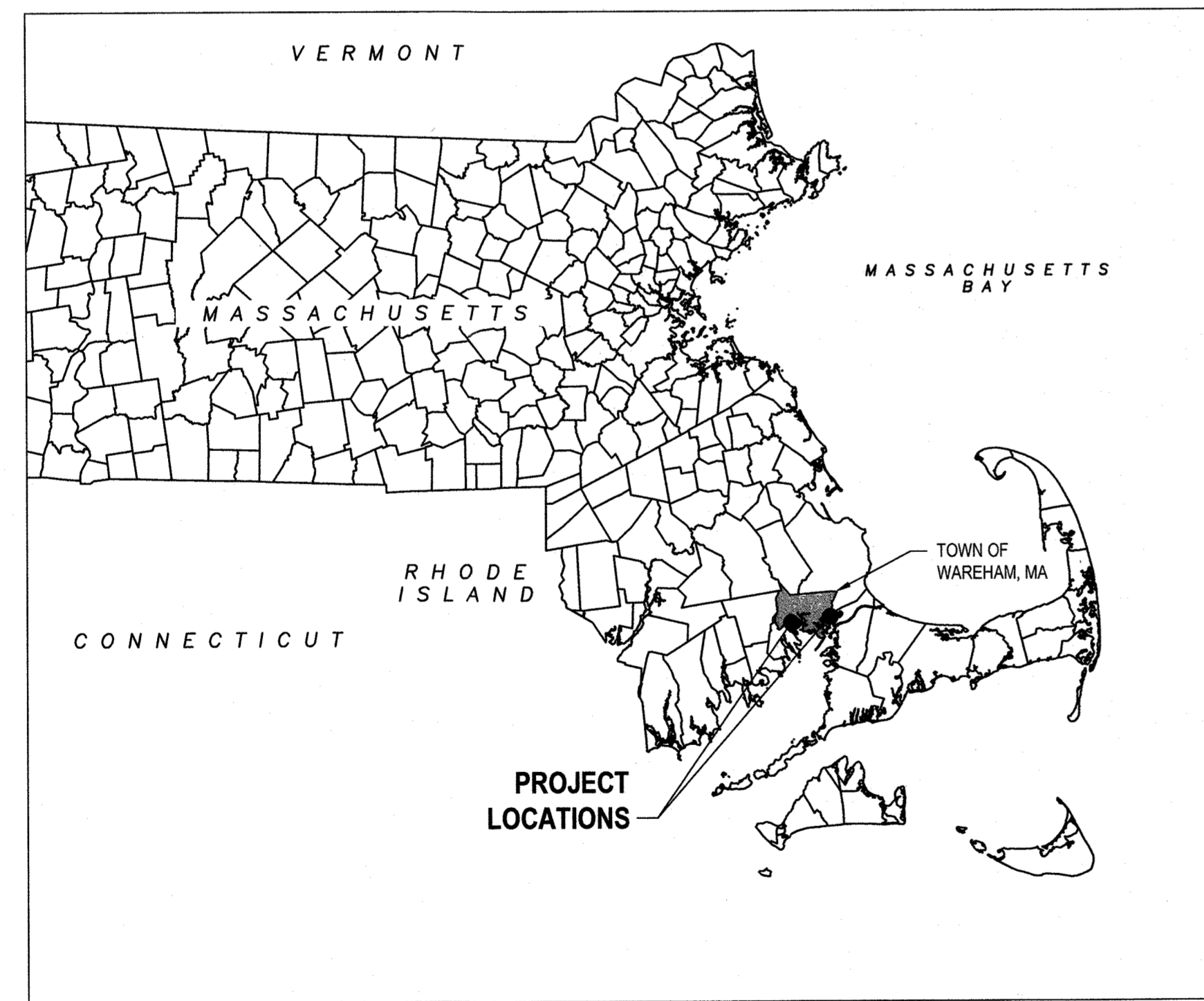
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MALCOM R. WHITE
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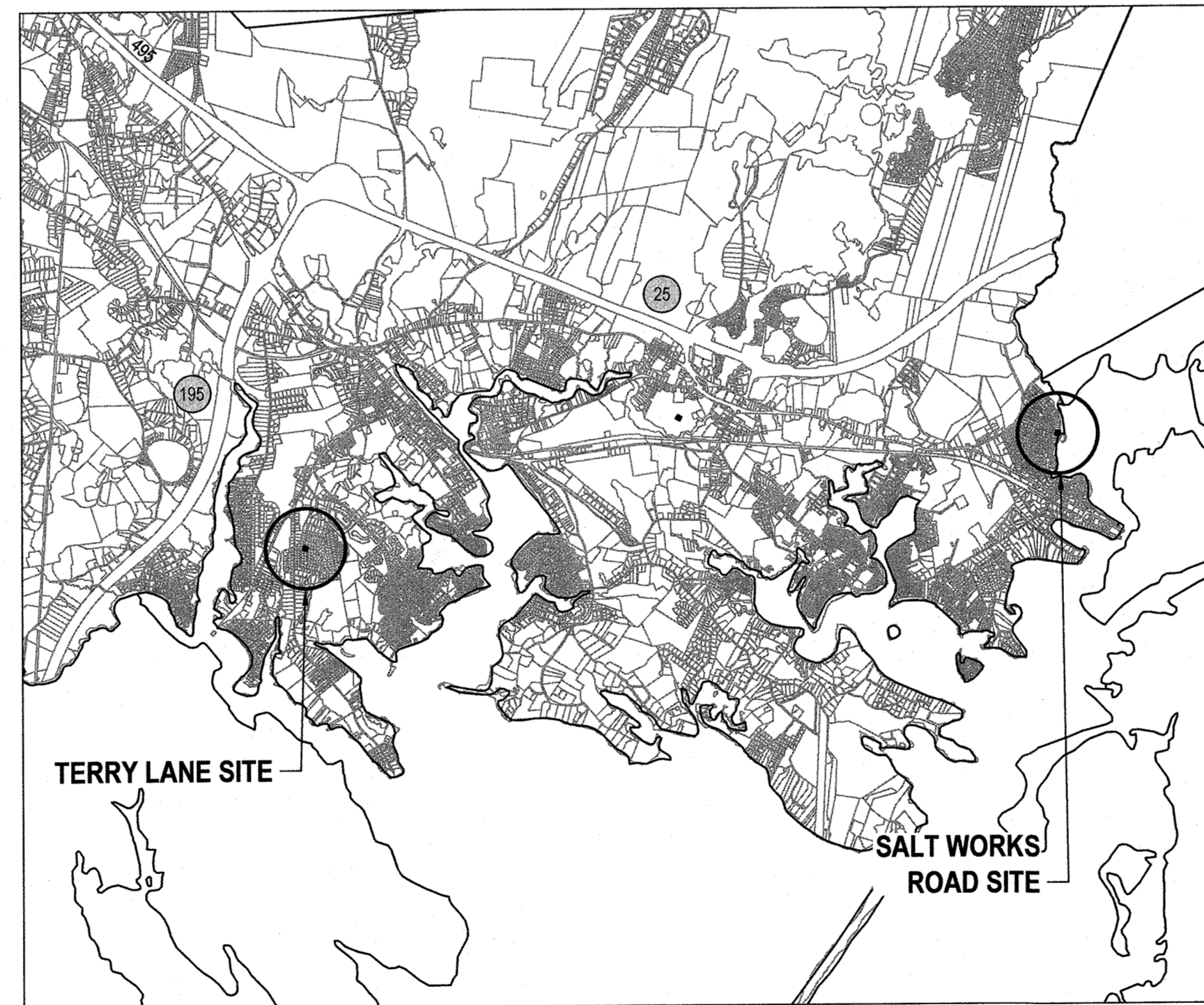
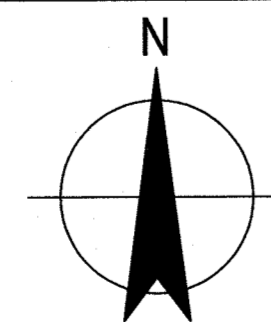
PETER DUNLOP
COMMISSIONER

SANDRA SLAVIN
CLERK

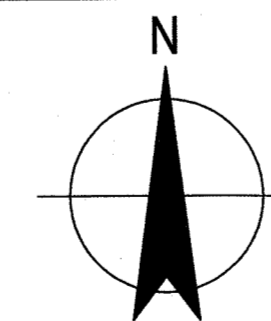
PATRICK TROPEANO
BOS LIAISON



VICINITY MAP



LOCATION MAP



DRAWING LIST

SHEET NO. DRAWING TITLE

GENERAL

- G101 VICINITY AND LOCATION MAPS AND DRAWING LIST
- G102 ABBREVIATIONS, LEGENDS AND SYMBOLS
- G103 GENERAL AND STAGING NOTES AND SEDIMENTATION AND EROSION CONTROL NOTES AND DETAILS

CIVIL

- C101 SALT WORKS ROAD AND TERRY LANE PUMP STATIONS - SITE PLANS
- C102 MISCELLANEOUS DETAILS

STRUCTURAL

- S001 GENERAL STRUCTURAL DETAILS
- S101 SALT WORKS ROAD GENERATOR PLATFORM PLANS AND SECTIONS
- S102 TERRY LANE GENERATOR PLATFORM PLAN AND SECTIONS

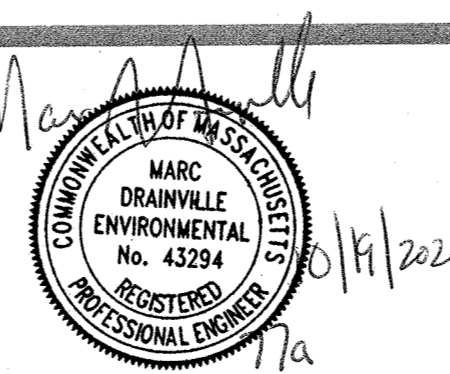
ELECTRICAL

- E001 ELECTRICAL NOTES, LEGENDS, SYMBOLS, ABBREVIATIONS AND DETAILS
- E101 SALT WORKS ROAD PUMP STATION ELECTRICAL DEMOLITION
- E102 SALT WORKS ROAD PUMP STATION ELECTRICAL PLAN, ONE-LINE DIAGRAM, PANELBOARD AND SCHEMATICS
- E103 TERRY LANE PUMP STATION - ELECTRICAL DEMOLITION
- E104 TERRY LANE PUMP STATION ELECTRICAL PLAN, ONE-LINE DIAGRAM, PANELBOARD AND SCHEMATICS

No.	Issue	Drawn	Approved	Date
0	FOR BIDDING AND CONSTRUCTION	JDF	RHK	09/24/2020

Bar is one inch on original size sheet
0 1"

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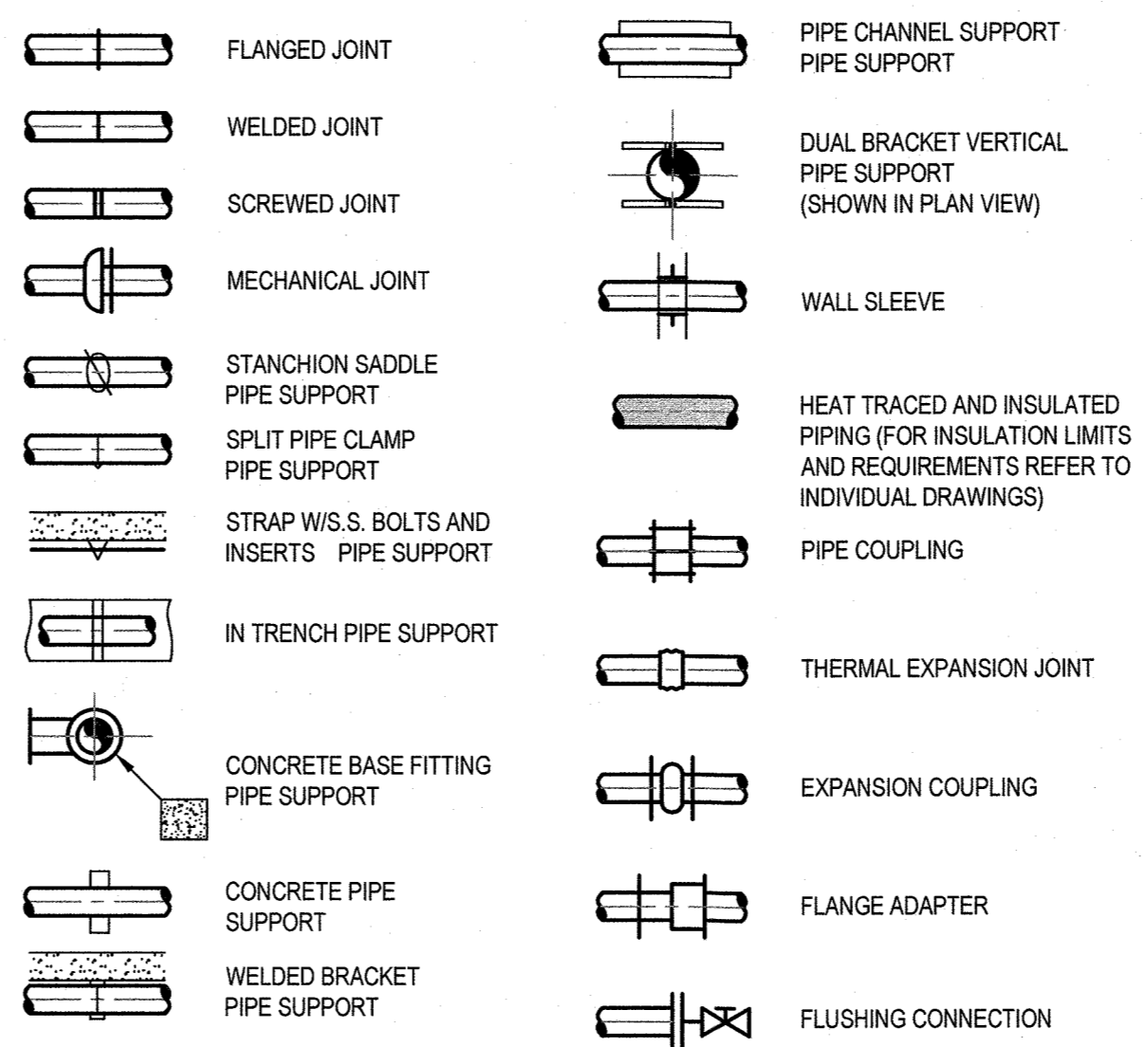
Drawn	J. FOSDICK	Designer	C. CURTIN
Drafting Check	J. FOSDICK	Design Check	R. KLEEKAMP
Project Manager		Date	
This document shall not be used for construction unless signed and sealed for construction.			
Scale	AS SHOWN		

Client	TOWN OF WAREHAM		
Project	GENERATOR REPLACEMENT		
Title	VICINITY AND LOCATION MAPS AND DRAWING LIST		
Project No.	11206153		
Original Size	Arch D	Sheet No.	11206153-G101

ABBREVIATIONS

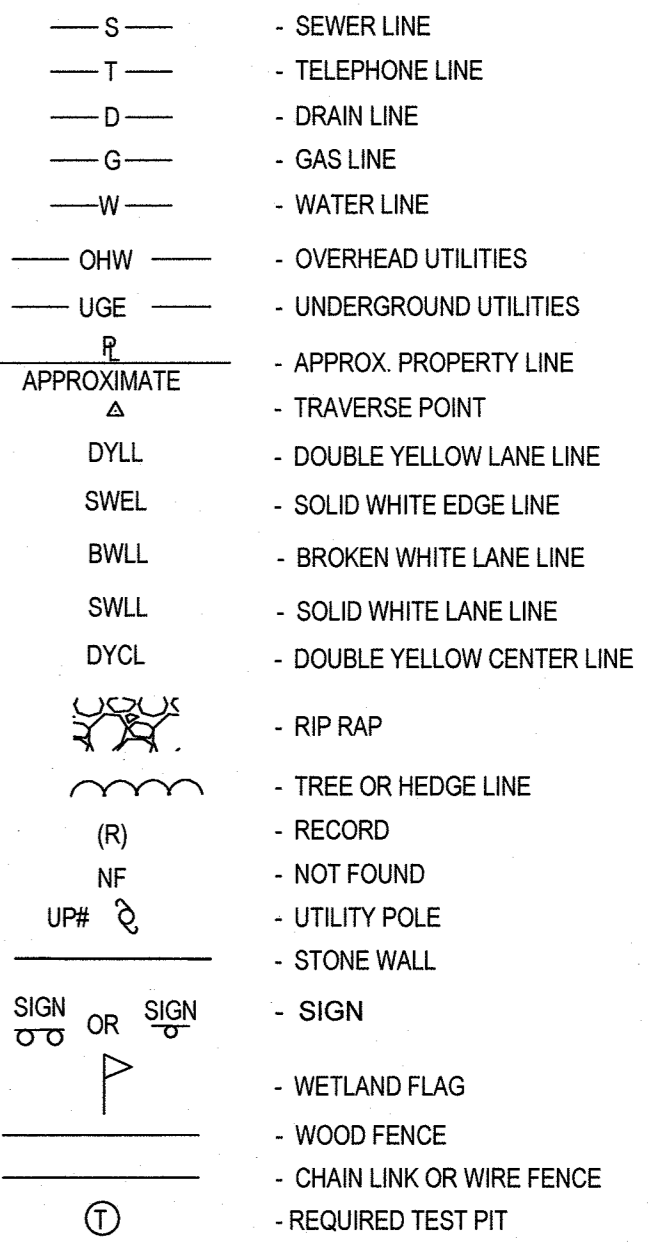
AB ANCHOR BOLT	EA EACH	LL LIVE LOAD	REM REMOVE
AC ASBESTOS CEMENT	ECC ELECTRICAL CONTRACTOR	LLV (H) LONG LEG VERT. / (HOR.)	REP REPAIR
ADDL ADDITIONAL	ECC ECCENTRIC	LWL LOW WATER LEVEL	REQD REQUIRED
EFF ABOVE FINISHED FLOOR	EFF EFFLUENT	LAM LAMINATE	REV REVISE
AST ASPHALT TILE	EL or ELEV ELEVATION	LAV LAVATORY	RF ROOF
ACTL ACOUSTIC TILE	ELB ELBOW	LT WT LIGHTWEIGHT	RFG ROOFING
ADJ ADJUSTABLE	ELEC ELECTRIC	LG LENGTH/LONG	RL ROOF LEADER
AGGR AGGREGATE	ENAM ENAMEL	LPT LOW POINT	RM ROOM
ALLOW ALLOWANCE	ENG ENGINE	LT LIGHT	RUBB RUBBER
ALT ALTERNATE	ENGR ENGINEER	LV LOUVER	RES FLR RESILIENT FLOORING
ALUM ALUMINUM	ENT ENTRANCE		
ARCH ARCHITECT OR ARCHITECTURAL	ENR ENHANCED NUTRIENT REMOVAL	M MOTOR	S SOUTH
ASB ASBESTOS	EQUIP EQUIPMENT	MCC MOTOR CONTROL CENTER	'S' SUCTION
ASPH ASPHALT	EX EXIST	MBAS MAGNETITE-BALLASTED ACTIVATED SLUDGE	SF SQUARE FOOT
ASSY ASSEMBLY	EXC EXCAVATE	MGD MILLION GALLONS PER DAY	SLDG SLIDE GATE
ACOUS ACOUSTICAL (SOUND DEADENING)	EXH EXHAUST	MH MANHOLE	SLCG SLUICE GATE
APPROX APPROXIMATE	EXP EXPANSION	MJ MECHANICAL JOINT	SJ STOP JOINT
ATAD AUTOTHERMAL AEROBIC DIGESTION	EXT EXTERIOR	MO MASONRY OPENING	SP STOP PLATE
	EXTEND EXTENDED OPERATOR	MAS MASONRY	SS STAINLESS STEEL
BASP BALLASTED ACTIVATED SLUDGE PROCESS	OPER OPER	MATR MATERIAL	SWD SIDE WATER DEPTH
BET BETWEEN	EXTR EXTRUDE	MAX MAXIMUM	SADL SADDLE
BF BLIND FLANGE		MECH MECHANICAL	SAN SANITARY
BFV BUTTERFLY VALVE	FC FOOT CANDLE/ FLUSHING CONNECTION	MEMB MEMBRANE	SCH SCHEDULE
Bl or B BUILDING LINE	FCV FLOW CONTROL VALVE	MET METAL	SECT SECTION
BM BENCH MARK/ BEAM	FD FLOOR DRAIN/ FIRE DOOR	MEZZ MEZZANINE	SEL SELECTION
BOF BOTTOM OF FOOTING	FE FIRE EXTINGUISHER	MFR MANUFACTURER	SEW SEWER
BU BUILT UP	FF FAR FACE/ FINISHED FLOOR	MIN MINIMUM	SH SHEET
BV BALL VALVE	FG FIBERGLASS	MIR MIRROR	SIM SIMILAR
BO BOARD	FM FORCE MAIN	MISC MISCELLANEOUS	SOI SPRAYED ON INSULATION
BIT BITUMINOUS	FAB FABRICATE	MLS MIXED LIQUOR SUSPENDED SOLIDS	SPEC SPECIFICATION
BLDG BUILDING	FDN FOUNDATION	MTD MOUNTING	SQ SQUARE
BLK BLOCK	FIN FINISH	MULT MULTIPLE	ST STREET
BP BASE PLATE	FIN RAD FIN RADIATOR		STAT STATION
BRG BEARING	FTG FITTING	N NORTH	STL STEEL
BRK BRICK	FIX FIXTURE	NF NEAR FACE	STOR STORAGE
BRZ BRONZE	FL FLASHING/ FLANGE	NIC NOT IN CONTRACT	STD STANDARD
BOT or B BOTTOM	FLX CON FLEXIBLE CONTAINMENT TUBE	NPT NATIONAL PIPE THREAD	STIRR STIRRUPS
	FLS FLOORING	NPW NON POTABLE WATER	STRUC STRUCTURAL or STRUCTURE
	FLR FLOOR	NTS NOT TO SCALE	SUR SURFACE
	FLOUR FLUORESCENT	No. or # NUMBER	SUS SUSPENDED/ SUSPENSION
	FOC FACE OR COLUMN	NOM NOMINAL	SYM SYMMETRICAL
	FPRF FIREPROOF	NAT NATURAL	SCP STRUCTURAL CLAY PIPE
	FRP FIBERGLASS REINFORCED PLASTIC	NS NO SMOKING	
	FS FOOTING STEP		
	FST FINAL SETTLING TANK		
	FT FEET		
	FTG FOOTING		
	FURR FURRING/ FURRED		
	F&C FRAME AND COVER		
	F&G FRAME AND GRATING		
	G NATURAL GAS		
	GC GENERAL CONTRACTOR		
	GI GALVANIZED IRON		
	GPM GALLONS PER MINUTE		
	GV GATE VALVE		
	GWG GLAZED WALL FINISH		
	GA GAUGE		
	GAL GALLON		
	GALV GALVANIZED		
	GEN GENERATOR		
	GL GLASS		
	GR GRADE		
	GRAN GRANITE		
	GYP GYPSUM		
	GYP BD GYPSUM BOARD		
	GMU GLAZED MASONRY UNIT		
	H&V HEATING and VENTILATING		
	HD HEAVY DUTY		
	HDPE HIGH DENSITY POLYETHYLENE		
	HDBD HARDBOARD		
	H EXCH HEAT EXCHANGER		
	HWL HIGH WATER LEVEL		
	HWIR HARDWARE		
	HGT or HT HEIGHT		
	HM HOLLOW METAL		
	HOR or H HORIZONTAL		
	HP HORSEPOWER		
	HPT HIGH POINT		
	HTR HEATER		
	HYD HYDRANT		
	I IRON		
	I INLET		
	IN FC INSIDE FACE		
	ID INSIDE DIAMETER		
	INCL INCINERATOR		
	INCL INCLUDE		
	INF INFILUENT		
	INSUL INSULATION		
	INT INTERIOR		
	INV INVERT		
	IPS INTERNAL PIPE SIZE		
	IO INPUT/ OUTPUT		
	JCT JUNCTION		
	JST JOIST		
	JT JOINT		
	JAN CLO JANITOR'S CLOSET		
	KC KEENE'S CEMENT		
	LE LEFT END		

MISCELLANEOUS SYMBOLS

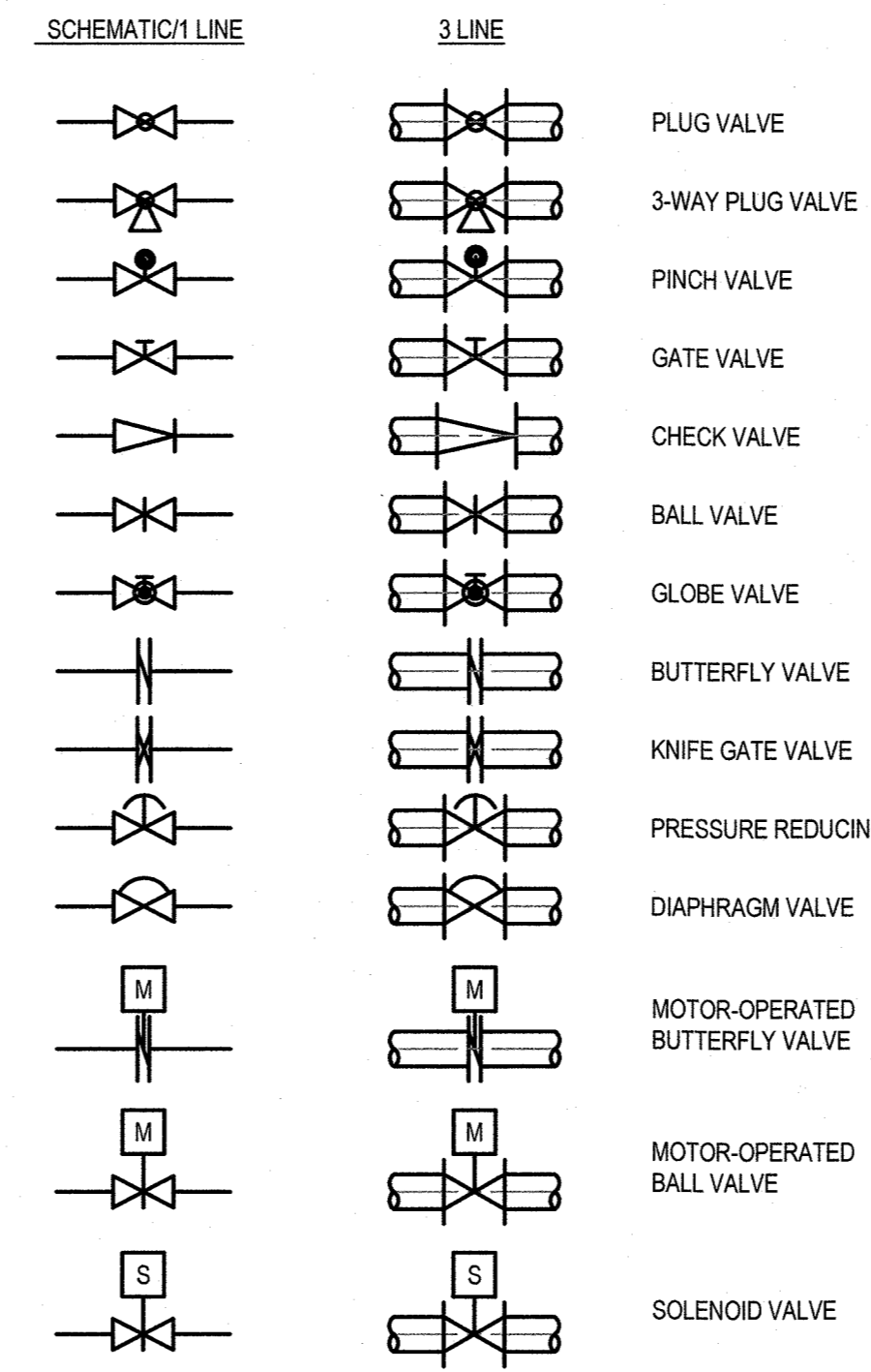


- NF - NOW OR FORMERLY
- ELEV. - ELEVATION
- ⊙ - DRAIN MANHOLE
- ⊙ - SEWER MANHOLE
- ⊙ - MANHOLE
- ⊙ - CATCH BASIN
- ⊙ - TRAFFIC SIGNAL
- WS ⊙ - WATER SERVICE
- GS ⊙ - GAS SERVICE
- SS ⊙ - SEWER SERVICE
- ⊙ - WATER VALVE
- ⊙ - GAS VALVE
- ⊙ - SEWER VALVE
- RCP - REINFORCED CONCRETE PIPE
- CMP - CORRUGATED METAL PIPE
- HDPE - HIGH DENSITY POLYETHYLENE PIPE
- D.I. - DUCTILE IRON
- C.I. - CAST IRON
- FE - FLARED END
- LSA - LANDSCAPED AREA
- TCB - TOP CURB BITUMINOUS
- GC - TOP CURB GRANITE
- TCCB - TOP CAPE COD BERM
- GUY - GUY WIRE ANCHOR
- EP - EDGE PAVEMENT
- BIT CONC - BITUMINOUS CONCRETE

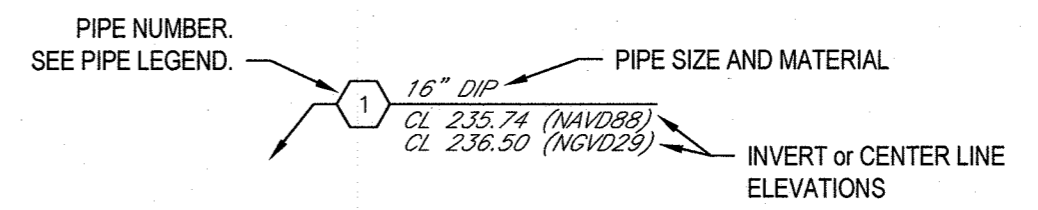
LEGEND



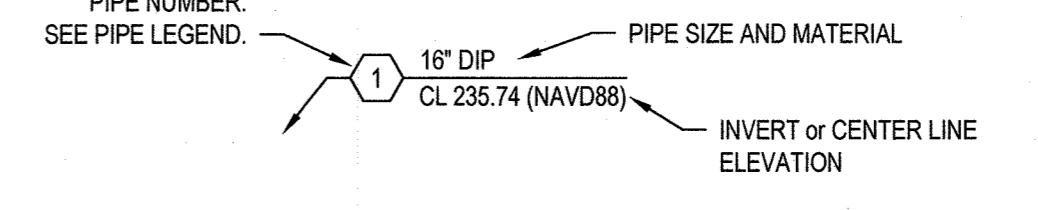
VALVE SYMBOLS



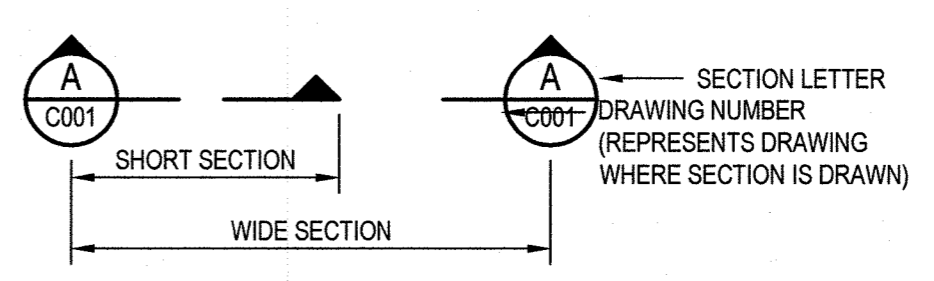
EXISTING PIPE CALLOUT



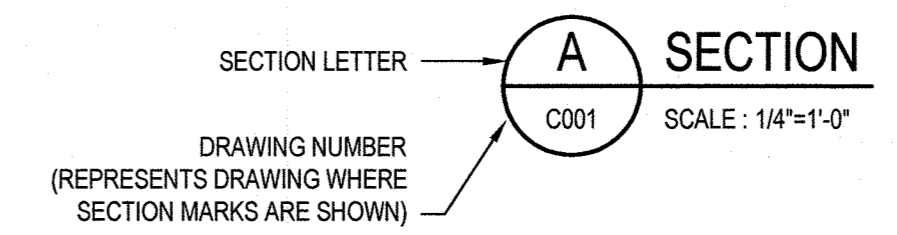
NEW PIPE CALLOUT



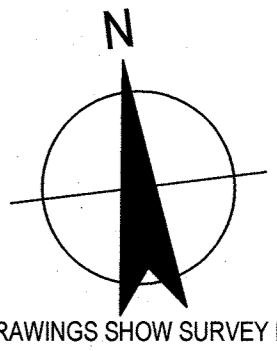
TYPICAL SECTION MARKS (FOR PLANS)



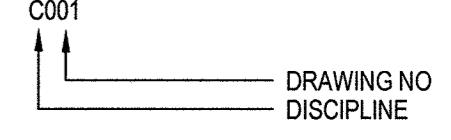
TYPICAL SECTION SUB-TITLE



NORTH ARROW



DESIGNATION INDEX (EXAMPLE)



DISCIPLINE DESIGNATION

- G GENERAL
- C CIVIL
- D DEMOLITION
- S STRUCTURAL

GENERAL LEGEND

NEW GRAPHICS, EQUIPMENT, CONDITIONS, STRUCTURES, ETC. ARE SHOWN AS BOLD LINEWORK AND IN THIS TEXT FORMAT.
EXISTING GRAPHICS, EQUIPMENT, CONDITIONS, STRUCTURES, ETC. ARE SHOWN AS LIGHT LINEWORK AND IN THIS TEXT FORMAT.

<p>Bar is one inch on original size sheet 0 1"</p>								<p>Drawn J. FOSDICK Designer C. CURTIN</p>		<p>Client TOWN OF WAREHAM</p>	
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<p>0 FOR BIDDING AND CONSTRUCTION</p>				<p>JDF RHK 09/24/2020</p>		<p>Date</p>		<p>Scale AS SHOWN</p>		<p>Original Size Arch D Sheet No. 11206153-G102</p>	
<p>No. Issue Drawn Approved Date</p>				<p>Drawn Approved Date</p>		<p>Scale AS SHOWN</p>		<p>Original Size Arch D Sheet No. 11206153-G102</p>		<p>Sheet 2 of 13</p>	

GENERAL NOTES:

(THESE NOTES APPLY TO ALL DRAWINGS UNLESS OTHERWISE SPECIFIED)

1. SEE DATUM AND REFERENCE NOTES ON THIS SHEET FOR HORIZONTAL AND VERTICAL CONTROL INFORMATION.
2. ALL UTILITIES SHOWN ON PLAN ARE APPROXIMATE ONLY. UTILITIES ARE BASED ON DIG SAFE MARKINGS AND AVAILABLE PLANS ON RECORD.
3. CONTRACTOR SHALL PERFORM TEST PITS TO LOCATE EXISTING BURIED UTILITIES AT LOCATIONS CALLED OUT ON SITE PLANS OR AS NEEDED IN THE FIELD OR AS DIRECTED BY THE ENGINEER TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION.
4. CONDITIONS IN THE FIELD MAY VARY FROM THOSE SHOWN HEREIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT HIS WORK.
5. EXISTING FACILITIES AND PIPING SHOWN LIGHT. NEW FACILITIES AND PIPING SHOWN HEAVY.
6. THE CONTRACTOR SHALL CALL-BEFORE-YOU-DIG AT 1-888-DIG-SAFE FOR LOCATING AND STAKEOUT OF ANY UTILITY PRIOR TO EXCAVATION. THE CONTRACTOR SHALL ALSO PERFORM EXPLORATORY EXCAVATIONS TO LOCATE EXISTING UTILITIES. APPROXIMATE LOCATIONS OF UTILITIES ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY EXISTING UTILITIES DAMAGED DUE TO HIS / HER OPERATIONS.
7. ALL EXISTING ELEVATIONS SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE AND PAVED APRONS WITHIN THE LIMIT OF WORK AS SHOWN ON THE CONTRACT DRAWINGS AS WELL AS ANY DAMAGED CONCRETE OR PAVED APRONS, ROADS OR DRIVES DURING CONSTRUCTION.
9. WHERE NEW UNDERGROUND PIPING IS CONNECTED TO EXISTING UNDERGROUND PIPING, CONTRACTOR IS REQUIRED TO PERFORM EXPLORATORY EXCAVATIONS IN THESE AREAS, AS REQUIRED, TO CONFIRM EXISTING PIPING LOCATIONS AND ELEVATIONS. REFER TO SPECIFICATION SECTION 01010.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT OF ALL EXCAVATIONS, AS REQUIRED, INCLUDING SHEETING AND BRACING. CONTRACTOR SHALL ALSO STRUCTURALLY SUPPORT AND / OR PROTECT WATER MAIN, GAS MAIN, STORM SEWER, SANITARY SEWER OR ANY OTHER UTILITY AND APPURTENANCES WHERE NECESSARY WHEN EXCAVATING ADJACENT TO OR CROSSING SAID UTILITY.
11. CONTRACTOR SHALL CLEAR AND GRUB TO THE LIMITS SHOWN ON THE CONTRACT DRAWINGS. ANY VEGETATION DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION BEYOND THE LIMITS SHALL BE REPLACED AT NO COST TO THE OWNER.

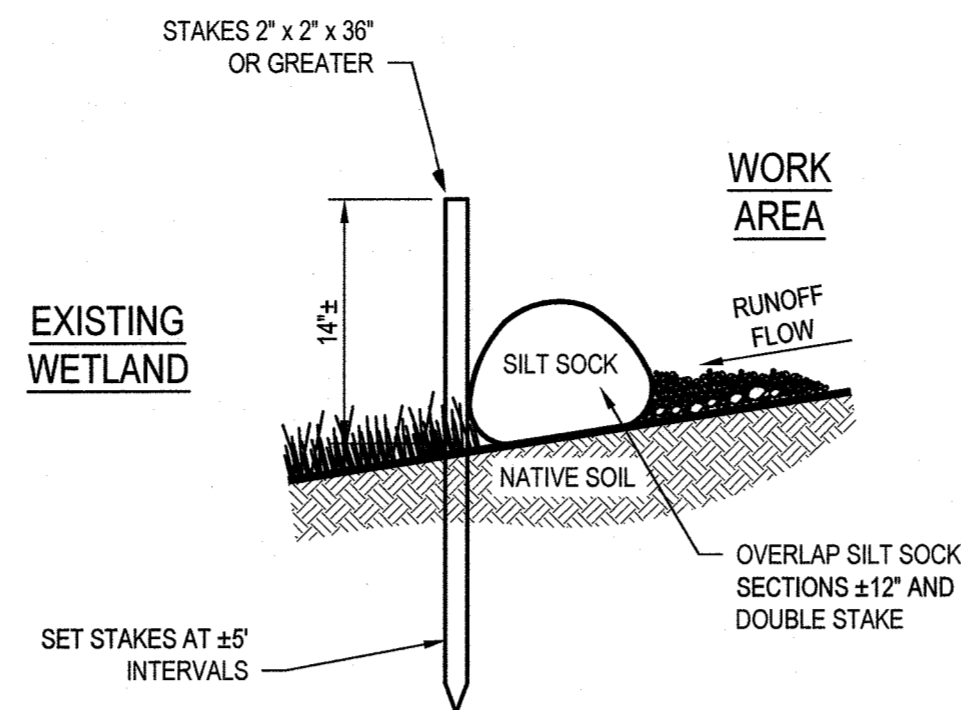
GENERAL DEMOLITION NOTES

(THESE NOTES APPLY TO ALL DRAWINGS)

1. FOR CLARITY PURPOSES THE DRAWINGS DO NOT SHOW THE ENTIRE EXTENT AND SCOPE OF DEMOLITION WORK TO BE PERFORMED. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL ITEMS SHOWN ON THE DRAWINGS, AND AS REQUIRED IN THE SPECIFICATIONS, OR AS NECESSARY TO ACCOMPLISH THE WORK.
2. DEMOLITION LOCATIONS WERE DEVELOPED FROM AVAILABLE RECORD DRAWINGS OBTAINED FROM THE OWNER AND IS INTENDED ONLY TO SHOW BASIC SYSTEM CONFIGURATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACTUAL SITE CONDITIONS. PRIOR TO THE DEMOLITION, THE CONTRACTOR SHALL CONFIRM EXACT EXTENT OF DEMOLITION.
3. REMOVE AND PROPERLY DISPOSE OF CONSTRUCTION DEBRIS.
4. SHADED OR CROSS HATCHED AREAS ARE TO BE DEMOLISHED. EQUIPMENT, PIPING, AND STRUCTURES TO BE REPLACED OR RELOCATED ARE NOTED AS SUCH.
5. CONTRACTOR SHALL FILL IN VOIDS CREATED BY REMOVING PIPE, BOLTS, REBAR, CONDUIT AND OTHER SIMILAR ITEMS WITH GROUT AND MAKE FLUSH WITH SURROUNDING SURFACE. ALL ITEMS REMAINING ARE TO BE CUT AND GROUND FLUSH WITH SURROUNDING SURFACE. REMAINING EMBEDDED METALS EXPOSED TO CORROSIVE ENVIRONMENTS SHALL BE COATED AFTER GRINDING FLUSH WITH SURROUNDING SURFACE.

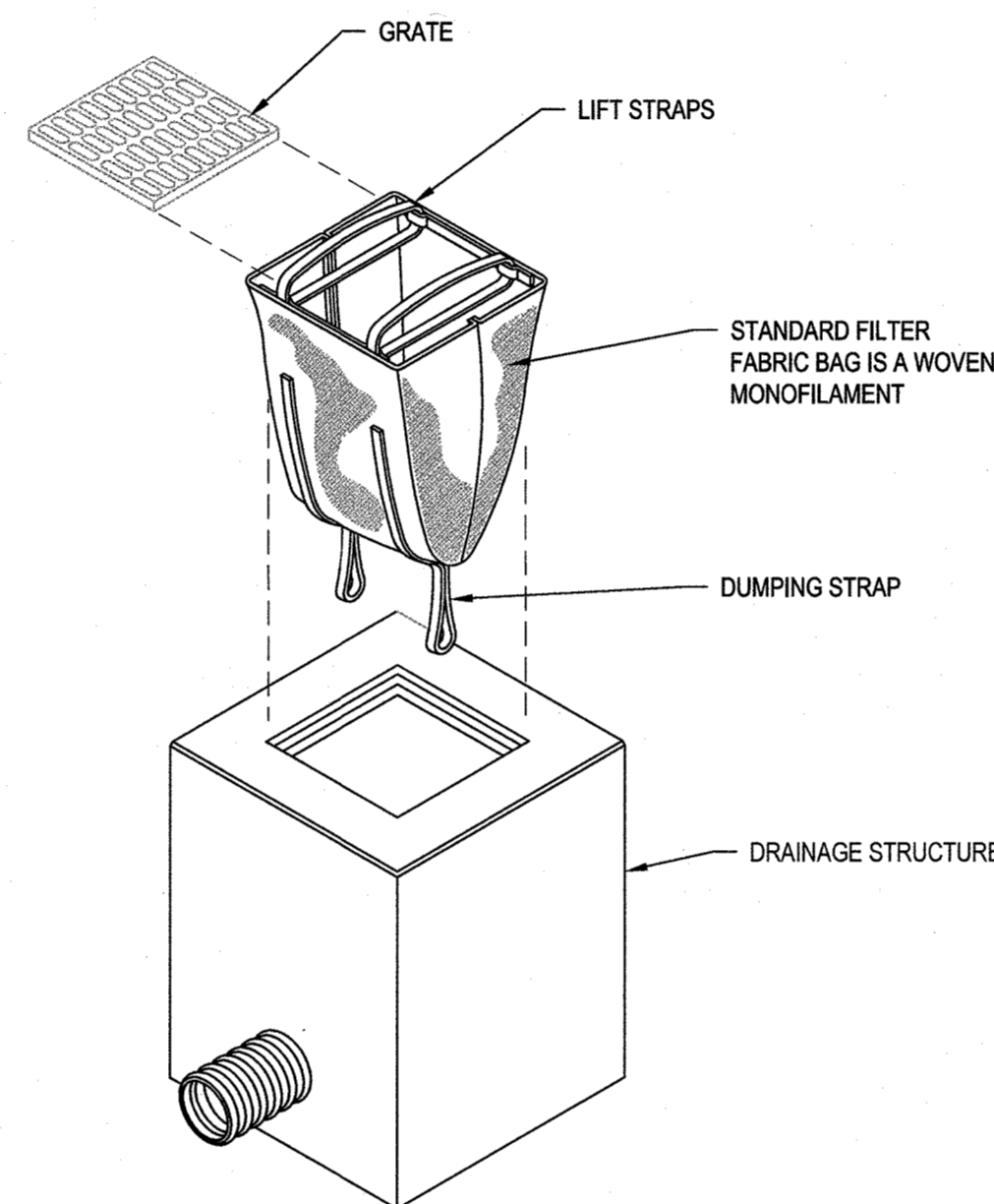
STAGING AREA NOTES:

1. FINAL STAGING AREA LOCATION TO BE DETERMINED WITH OWNER PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR SECURITY OF MATERIALS AND EQUIPMENT LEFT ON SITE
2. ANY AREA WITHIN THE STAGING AREA DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.



NOTE:
EROSION CONTROL DEPICTED IS SILT SOCK, FILTERMATT, COMPOST SOCK, STRAW ROLL / WATTLE OR EQUAL.

1 SILT SOCK DETAIL
NOT TO SCALE



2 SEDIMENTATION CONTROL AT CATCH BASIN
NOT TO SCALE

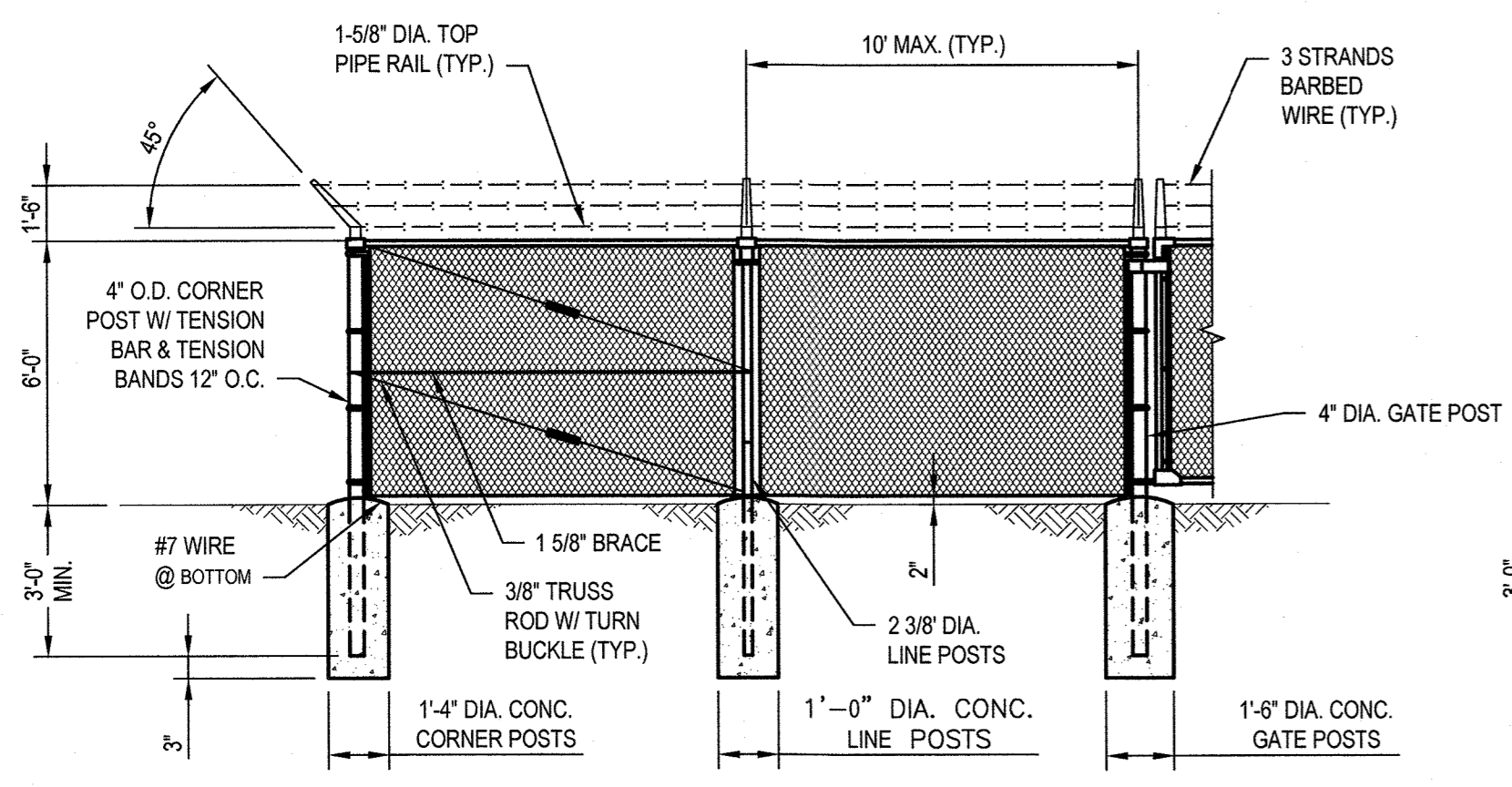
EROSION & SEDIMENTATION CONTROL NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR DAILY AND IMMEDIATELY AFTER PERIODS OF RAINFALL. REPAIR AND/OR MAINTENANCE OF SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE MADE AS SOON AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL CONTROL MEASURES ON THIS SITE.
2. FINAL LOCATION OF ALL SEDIMENTATION CONTROL MEASURES SHALL BE COORDINATED WITH THE TOWN OF WAREHAM CONSERVATION OFFICE PRIOR TO ANY CONSTRUCTION.
3. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RESTABILIZATION WILL BE SCHEDULED IMMEDIATELY AFTER ANY DISTURBANCE.
4. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ALL CONSTRUCTION ACTIVITIES.
5. ANCHOR ALL TOPSOIL STOCK PILES WITH STRAW MULCH AND RING WITH SILT FENCE, OR HAYBALE BARRIER.
6. SEDIMENT REMOVAL FROM DRAINAGE STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEDIMENT SHALL BE DISPOSED OF IN A MANNER WHICH DOES NOT RESULT IN ADDITIONAL EROSION AND WHICH IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND REGULATORY REQUIREMENTS.
7. THE EROSION AND SEDIMENTATION CONTROL MEASURES DESCRIBED HEREIN ARE INTENDED AS A GENERAL GUIDE FOR THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY AND ALL WORK NECESSARY TO PREVENT EROSION OF SOIL FROM THE CONSTRUCTION SITE. TO PREVENT EROSION, THE CONTRACTOR SHALL PROVIDE SILT FENCES OR OTHER CONTROL MEASURES AS THE NEED ARISES DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
8. PAVED ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES.
9. REFER TO SPECIFICATION SECTION 01564 FOR MORE DETAILS.

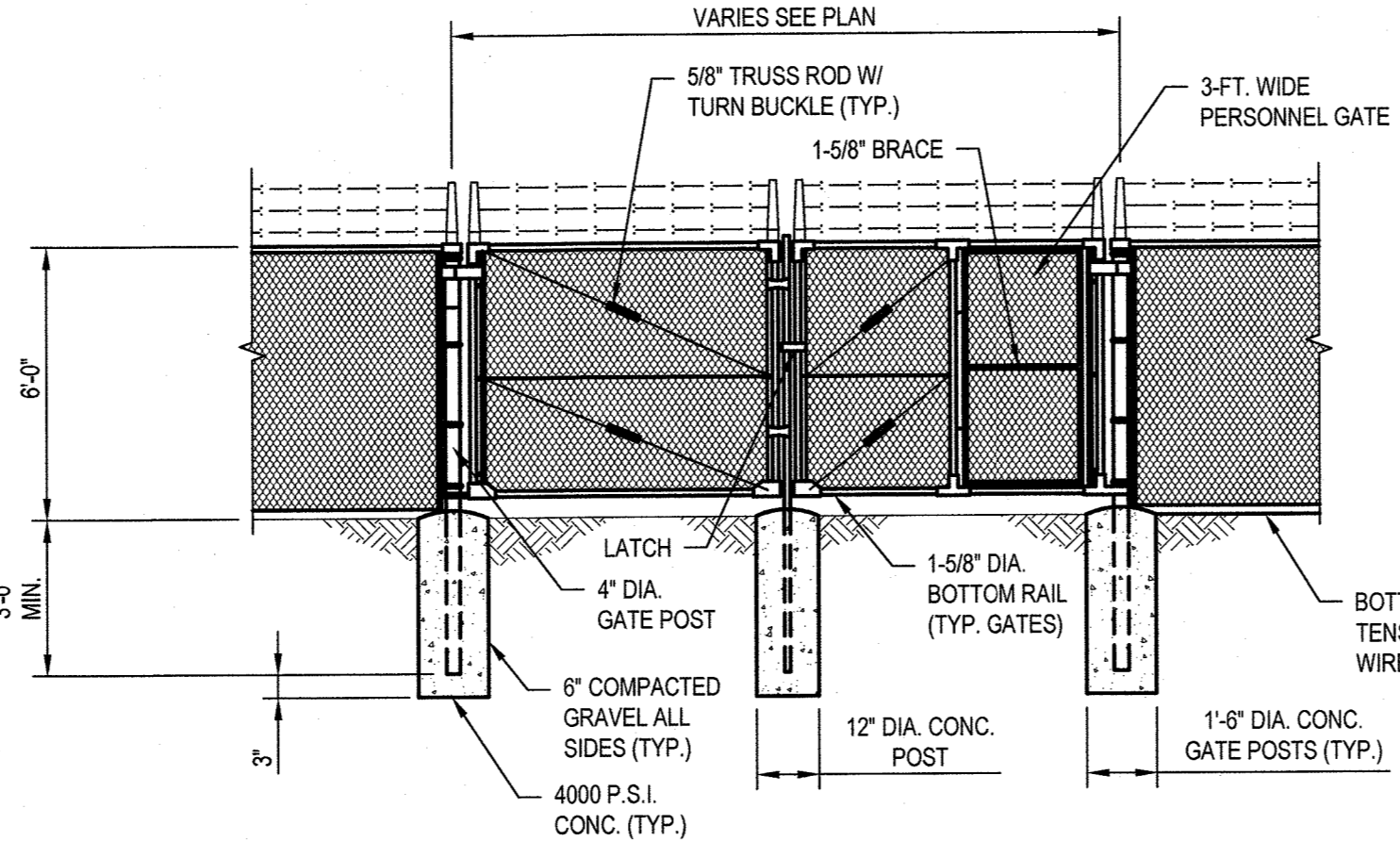
DATUM AND REFERENCE NOTES:

1. CONDITIONS IN THE FIELD MAY VARY FROM THOSE SHOWN HEREIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT HIS WORK.
2. HORIZONTAL DATUM IS BASED UPON MASSACHUSETTS STATE COORDINATE SYSTEM, NAD 83 IN FEET. VERTICAL DATUM IS BASED UPON NAVD88 IN FEET.
3. SURVEYED: SALT WORKS ROAD ON 12/19/2019 AND TERRY LANE ON 12/20/2019 BY GREEN SEAL ENVIRONMENTAL INC., 114 STATE ROAD, BUILDING B, SAGAMORE BEACH, MA 02562.
4. UNDERGROUND UTILITIES SHOWN ON SITE PLANS ARE BASED UPON VISIBLE ABOVE GROUND EVIDENCE AND RECORD INFORMATION AND ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS BEFORE BEGINNING ANY EXCAVATION. (DIGSAFE 1-888-344-7233)
5. PARCEL AND RIGHT OF WAY LINES WERE OBTAINED FROM MASS. GIS.
6. THE SITE IS LOCATED IN FEMA FLOOD ZONE AE (EL. 14') AS SHOWN ON FIRM 25023C0576K, EFFECTIVE 2/5/2014.

<p>Bar is one inch on original size sheet 0 1"</p>								<p>Drawn J. FOSDICK Designer C. CURTIN</p>		<p>Client TOWN OF WAREHAM</p>	
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<p>0 FOR BIDDING AND CONSTRUCTION</p>				<p>JDF RHK 09/24/2020</p>		<p>Date</p>		<p>Scale AS SHOWN</p>		<p>Title GENERAL AND STAGING NOTES AND SEDIMENTATION AND EROSION CONTROL NOTES AND DETAILS</p>	
<p>No. Issue Drawn Approved Date</p>				<p>Project No. 11206153</p>		<p>Original Size</p>		<p>Arch D</p>		<p>Sheet No. 11206153-G103</p>	
<p>Plot Date: 24 September 2020 - 11:50 AM</p>				<p>Plotted By: Craig Curtin</p>		<p>Filename: G:\66411206153\Digital_Design\ACAD 2017\Sheets\General\112-06153-G003.dwg</p>		<p>Sheet 3 of 13</p>		<p>This document shall not be used for construction unless signed and sealed for construction.</p>	



TYPICAL CORNER

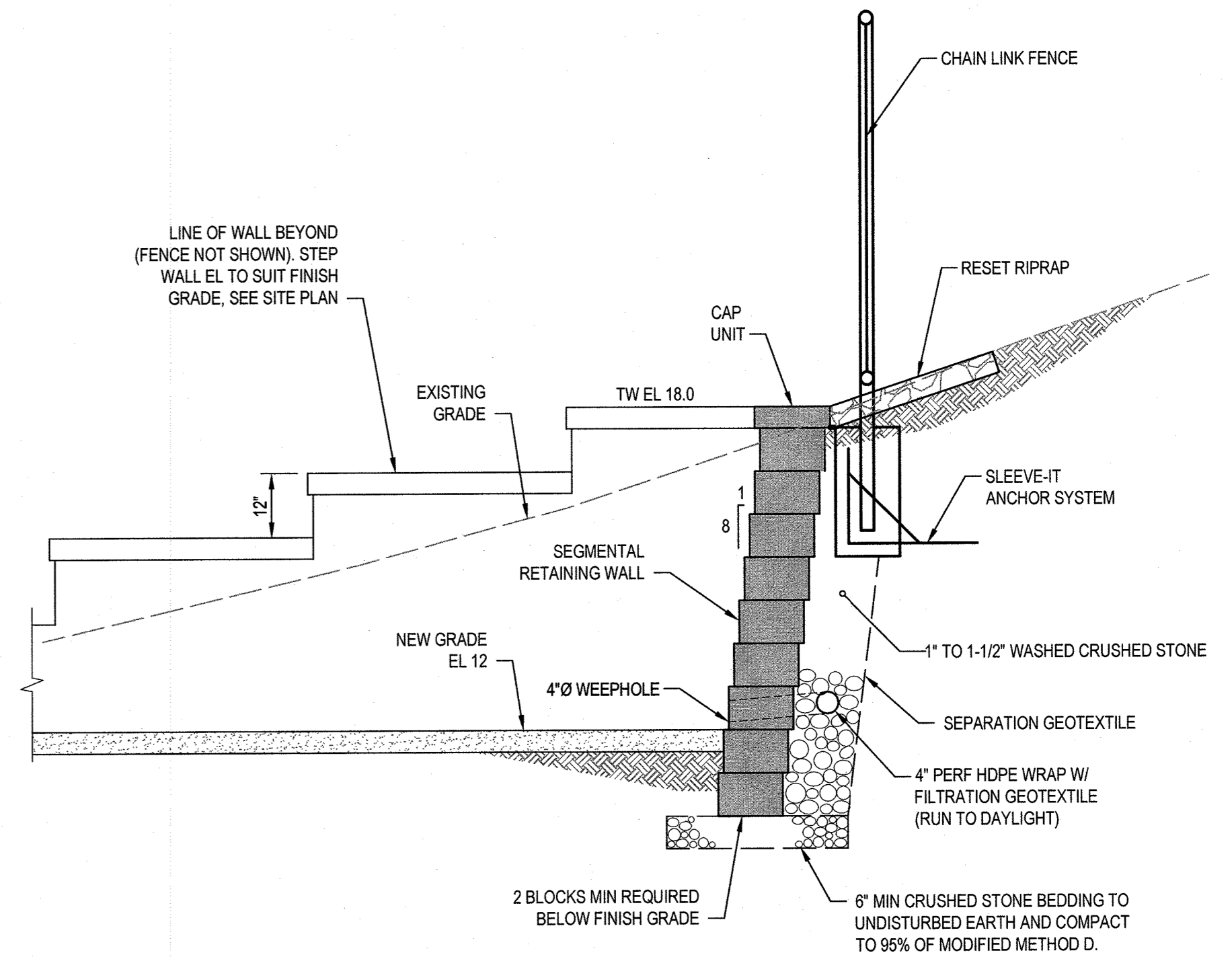


DOUBLE LEAF GATE DETAIL

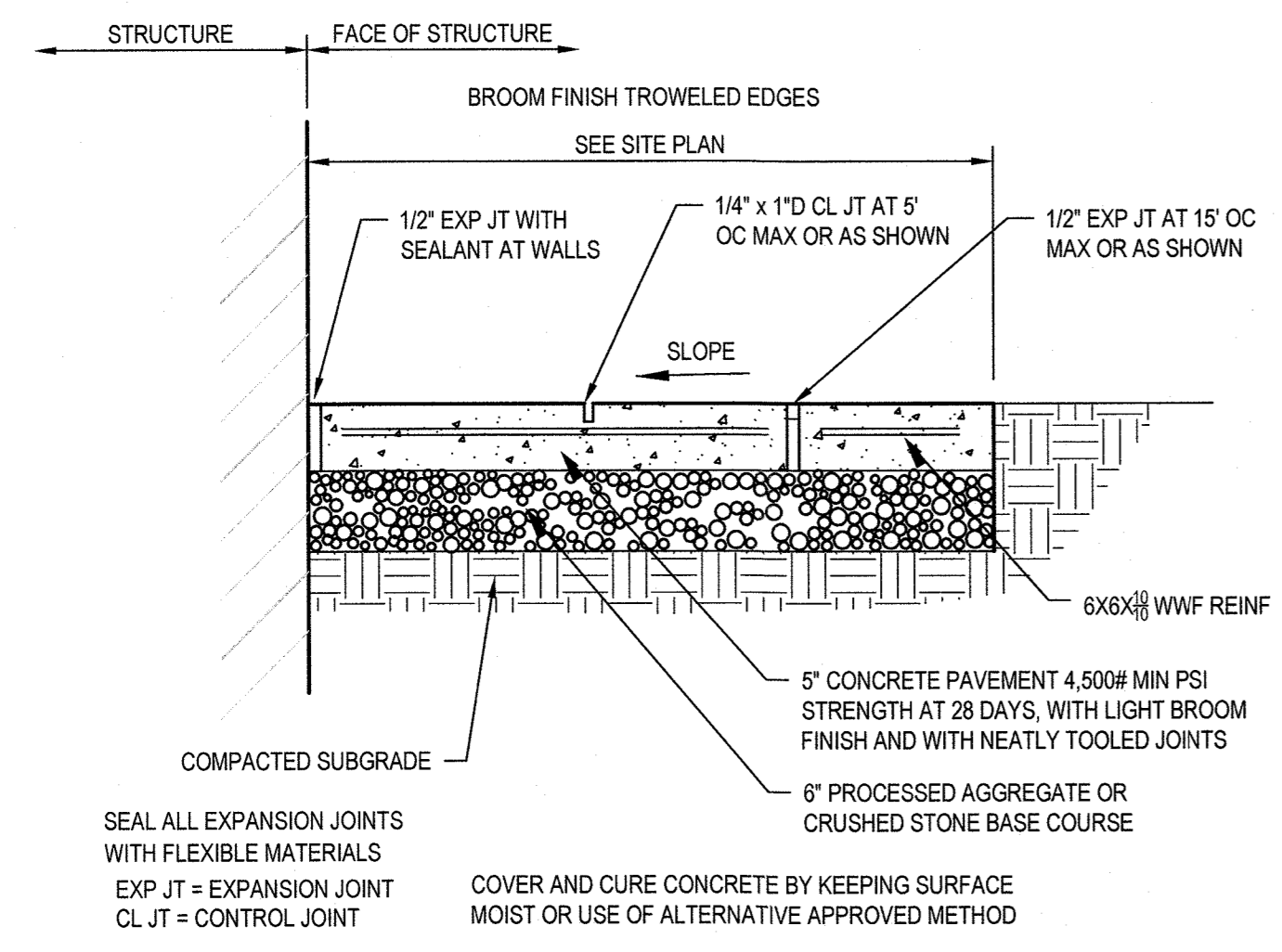
- NOTES:**
- FOR NON-SENSORED FENCES, DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPE OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
 - SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT AS NOTED.
 - ALL GATE FRAMES SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM F900 1.90\"/>

GATES SHALL BE DESIGNATED AS FOLLOWS:

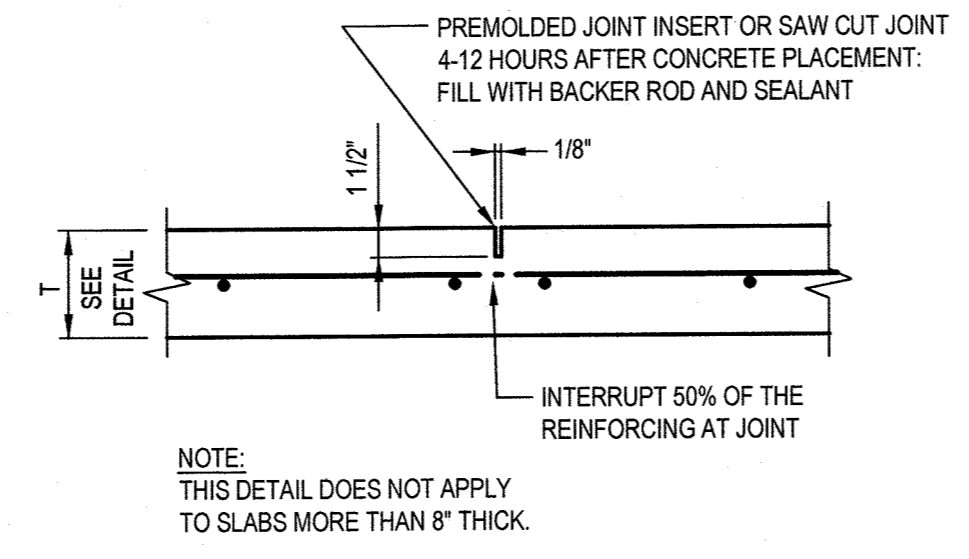
FENCE TYPE	FE5, FE6, ETC.
FENCE HEIGHT	INCHES
TYPE OPENING	SO (SINGLE)
HINGE	DO (DOUBLE)
OPENING POSTS	RA (STANDARD)
	HO (OFFSET)
EXAMPLES:	FE6-84-DO-RA-24
	FE5-48-SO-HO-6



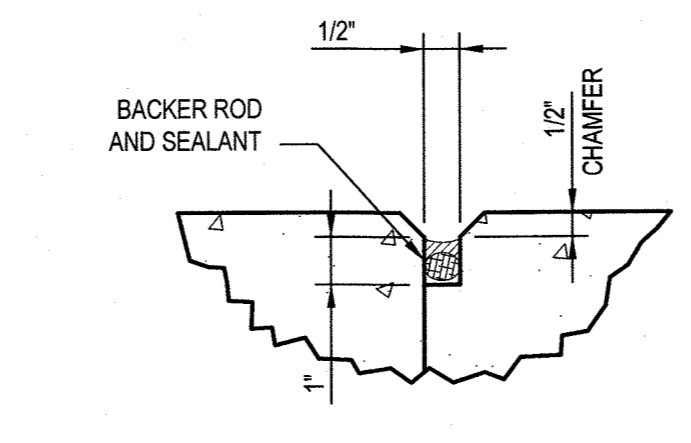
RETAINING WALL-TYPICAL SECTION



CONCRETE APRON DETAIL

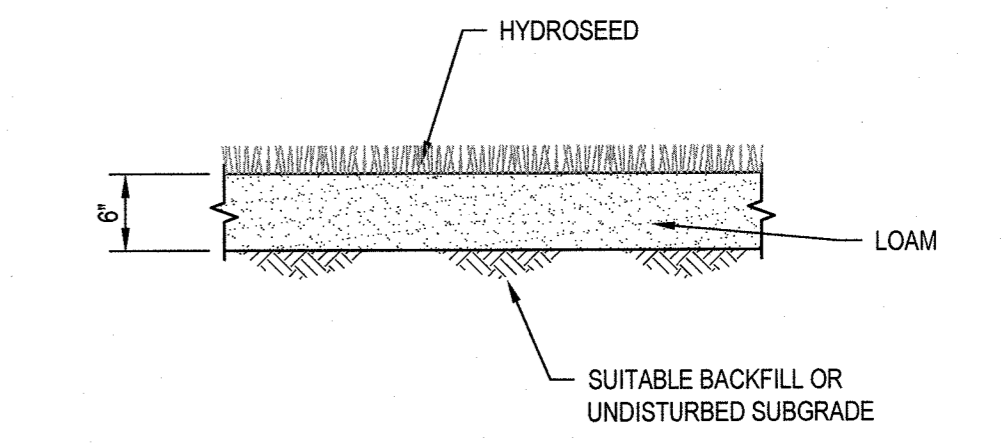


CONTROL JOINT DETAIL (CL JT)



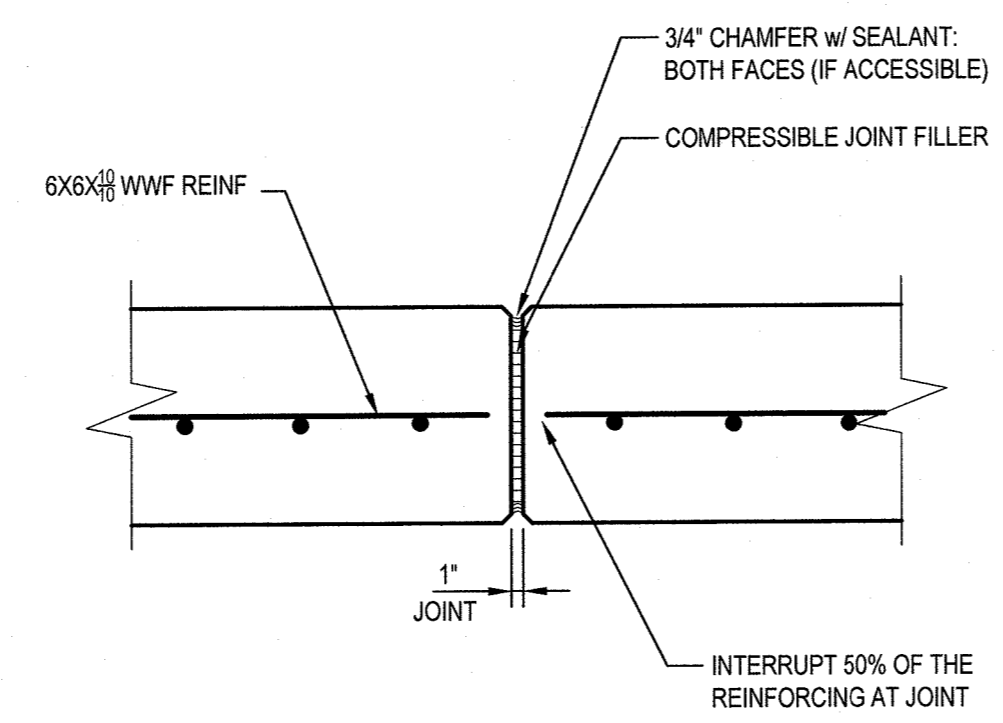
JOINT SEALANT DETAIL

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

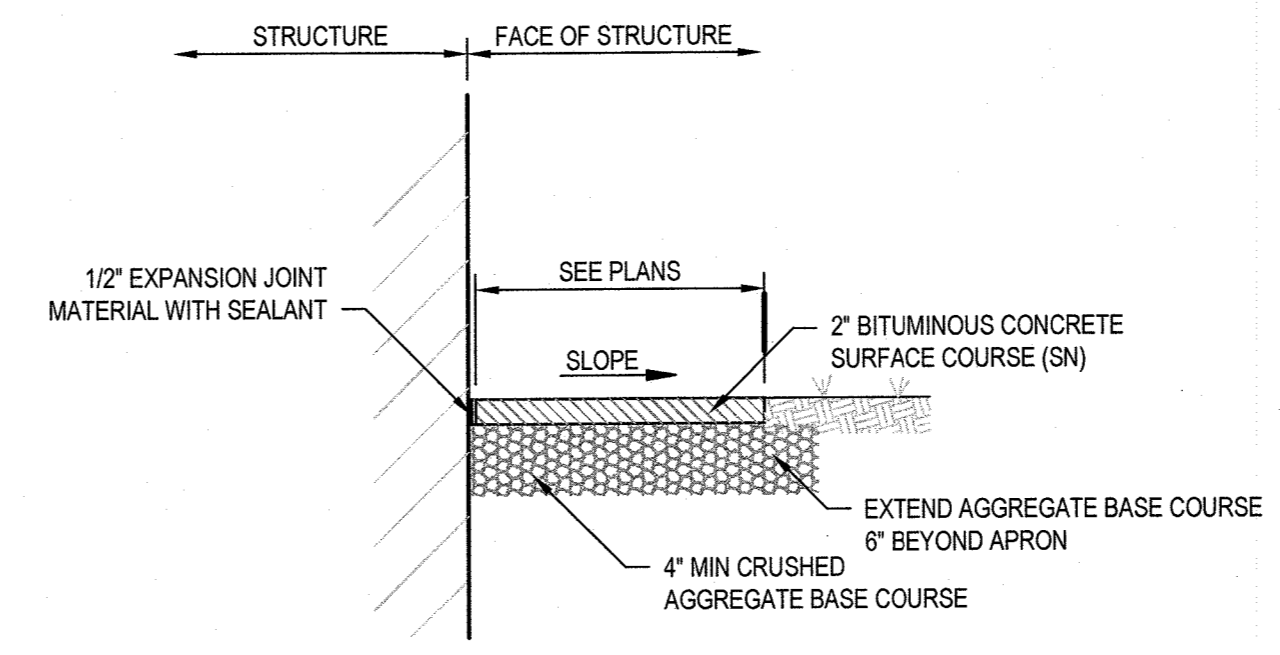


LOAM AND SEED - SECTION

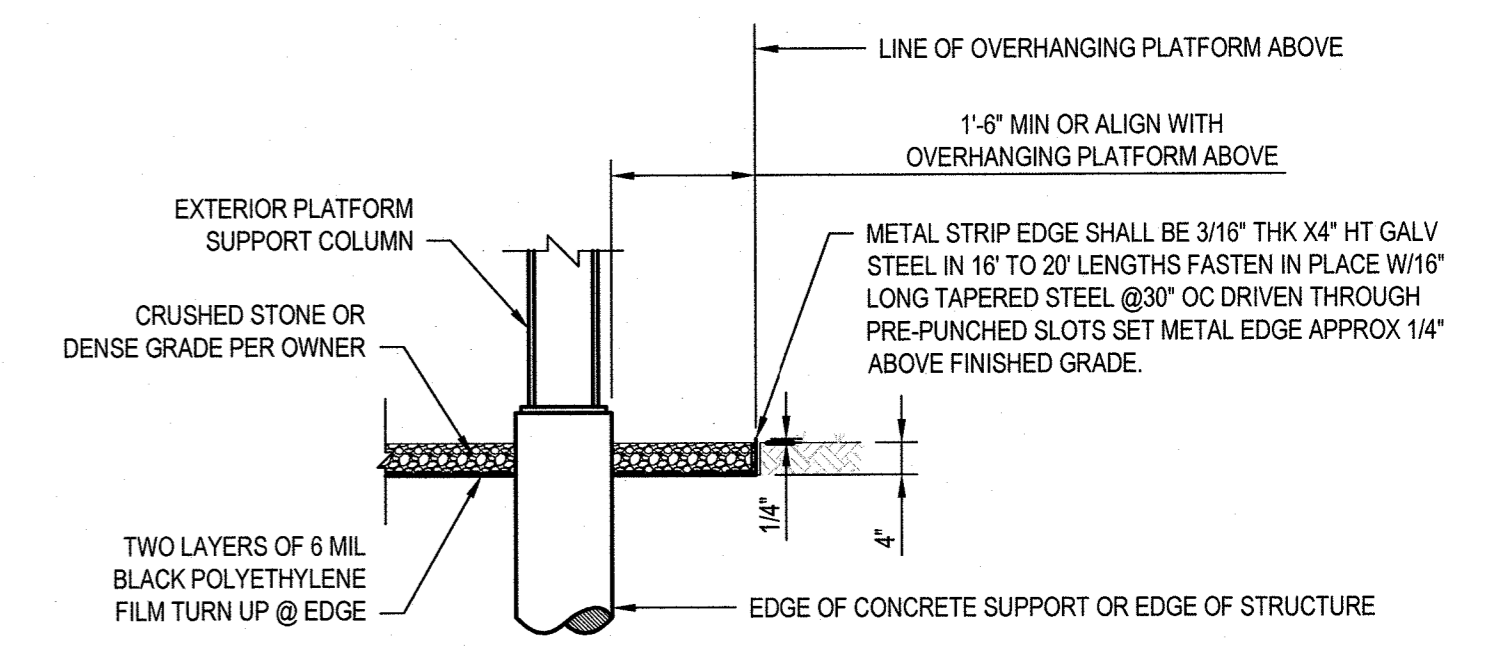
- NOTES:**
- PROVIDE BROOMED FINISH ON CONCRETE SURFACE.
 - USE 3/4 INCH EDGING TOOL ON ALL OUTSIDE EDGES AND JOINT TO SCALE.
 - CONTROL JOINT (CL JT), NOT LESS THAN 2\"/>



EXPANSION JOINT DETAIL (EXP JT)



BIT CONC APRON DETAIL

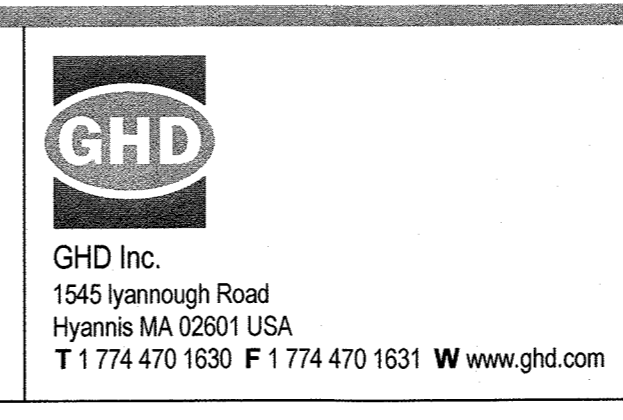
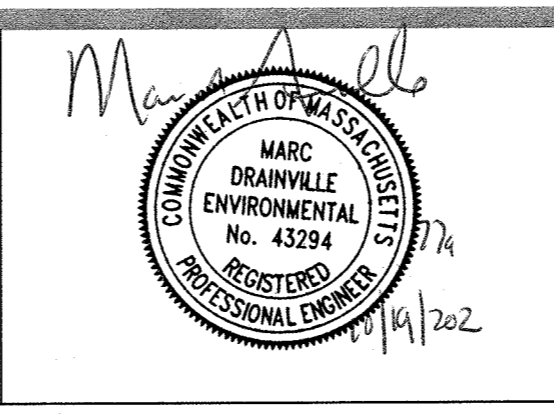


SURFACE TREATMENT DETAIL AT PLATFORM

No.	Issue	Drawn	Approved	Date
0	FOR BIDDING AND CONSTRUCTION	JDF	RHK	09/24/2020

Bar is one inch on original size sheet
0 1"

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Drafting Check	J. FOSDICK	Design Check	R. KLEEKAMP
Project Manager		Date	
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Scale	AS SHOWN		

Client	TOWN OF WAREHAM		
Project	GENERATOR REPLACEMENT		
Title	MISCELLANEOUS DETAILS		
Project No.	11206153		
Original Size	Arch D	Sheet No.	11206153-C102
		Sheet	5 of 13

GENERAL CONCRETE CONSTRUCTION NOTES

- A. Reinforced concrete design follows ACI 318-14 except for liquid containment structures which are designed in accordance with ACI 350-06, "Code Requirements for Environmental Engineering Concrete Structures and Commentary."
- B. Unless noted otherwise, all concrete shown is structural concrete with a 4000 psi 28-day compressive strength and Type II Portland Cement. Refer to Section 03300 of the specification.
- C. Reinforcement will be new Billet Steel, conforming to ASTM A-615 Grade 60, deformed.
- D. Detail, fabricate and erect reinforcing bars in accordance with "Details and Detailing of Concrete Reinforcement," (ACI 315-99).
- E. Unless otherwise shown, all reinforcing steel shall be provided with minimum concrete cover as follows:

Slabs on grade	- top reinf. (interior)	1 1/2"
	- top reinf.	2"
	- bottom reinf.	3"

Foundation slabs/footing	- top reinf.	2"
	- bottom reinf.	3"

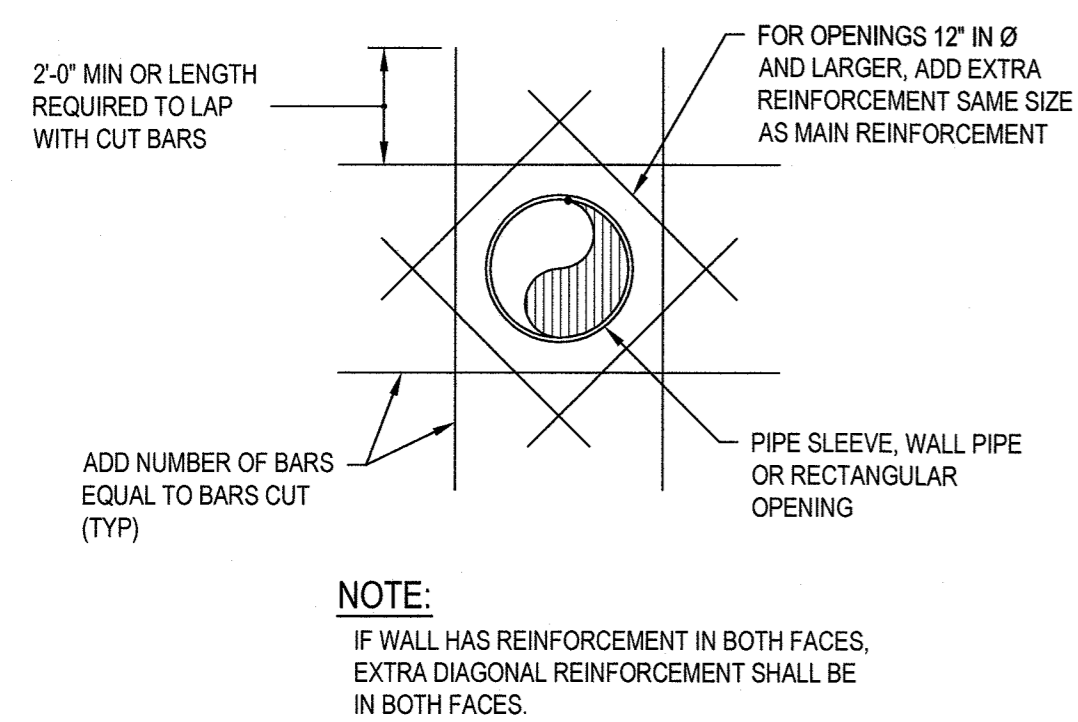
Beams and columns	-	2"
Walls	-	2"
- F. Lap splices and embedments for reinforcement shall follow the chart shown on this drawing unless otherwise indicated on the drawings.
- G. Any revisions to joint placement, pour sequencing or reinforcing splices must be submitted to the engineer for review and approval prior to submittal of reinforcing steel shop drawings.
- H. Cure concrete at a minimum temperature of 50° F for seven days, following the criteria of ACI 308-R01.
- I. Concrete surfaces shall be finished per Section 03300 of the specification.
- J. Chamfer exposed concrete edges 3/4" x 3/4" unless otherwise noted.
- K. Equipment pad dimensions, housekeeping pad dimensions and openings for hatches, ducts and pipes must be coordinated with approved equipment shop drawings, and with the requirements shown on other drawings, this project set.
- L. The contractor is responsible for maintaining stability and preventing floatation of structures during all phases of construction.

1 CONCRETE CONSTRUCTION NOTES
NO SCALE

BAR SIZE	MIN LAP SPlice LENGTH (INCHES)		MIN EMBEDMENT LENGTH (INCHES)	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
3	16	12	12	12
4	20	14	14	12
5	24	18	18	14
6	28	21	21	18
7	45	36	36	27
8	57	45	45	36
9	72	56	56	45
10	90	69	69	54
11	108	84	84	64

- NOTES:**
- A. $F_c = 4,000$ PSI (NORMAL WEIGHT CONCRETE), $F_y = 60,000$ PSI.
 - B. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
 - C. LAP SPLICES SHOWN ARE TENSION LAPS, CLASS B.
 - D. MINIMUM CLEAR COVER IS 1.5 INCHES. MINIMUM SPACING IS 4 INCHES.

2 SPLICE AND EMBEDMENT CHART
NO SCALE



3 WALL / SLAB OPENING REINFORCEMENT
NO SCALE

STRUCTURAL DESIGN DATA:

(BASED ON THE IBC, MASSACHUSETTS STATE BUILDING CODE (780 CMR) - NINTH EDITION, BASE VOLUME)

ROOF LIVE LOAD, $L_r = 20$ psf

SLAB LIVE LOAD = 100 psf

ROOF SNOW LOAD

GROUND SNOW LOAD $P_g = 30$ psf
 SNOW EXPOSURE FACTOR $C_e = 1.0$
 ROOF THERMAL FACTOR $C_t = 1.2$
 SNOW LOAD IMPORTANCE FACTOR $I = 1.1$
 FLAT ROOF SNOW LOAD $P_f = 30$ psf

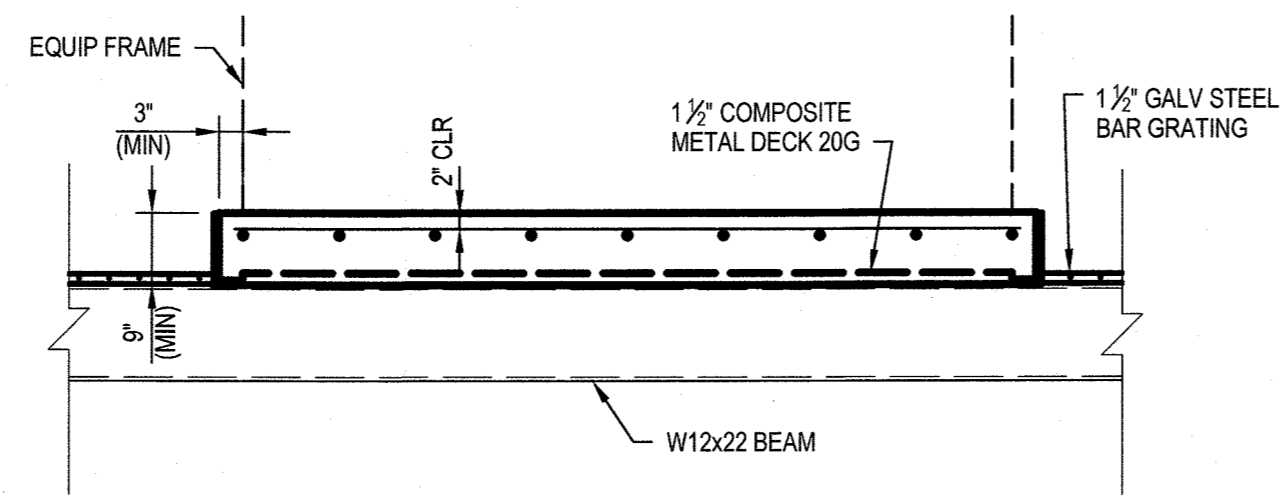
RAIN ON SNOW SURCHARGE = 5 psf
 DESIGN SNOW LOAD $P_s = 35.0$ psf

WIND LOAD

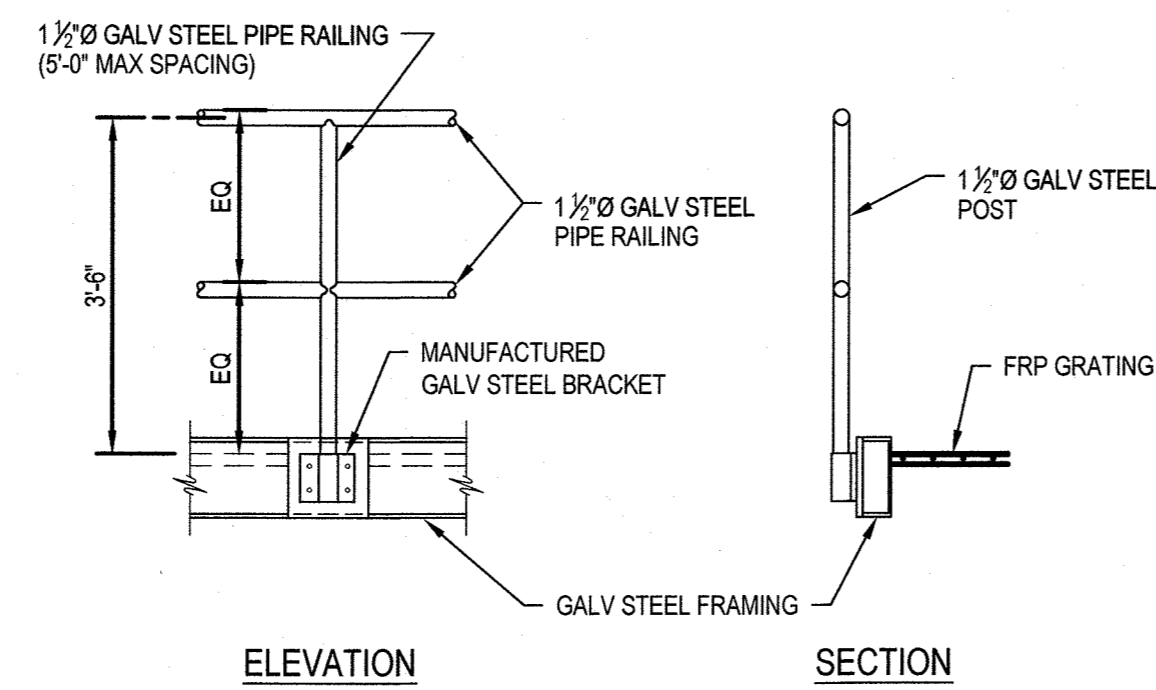
BASIC WIND SPEED $V = 149$ mph
 OCCUPANCY CATEGORY III
 WIND EXPOSURE - CATEGORY C
 INTERNAL PRESSURE COEFFICIENT $C_{pi} = \pm 0.00$

EARTHQUAKE DESIGN DATA
 SEISMIC IMPORTANCE FACTOR, $I = 1.25$
 OCCUPANCY CATEGORY III
 MAPPED ACCELERATION PARAMETERS:
 $S_s = 0.173$
 $S_1 = 0.059$
 SITE CLASS D
 SPECTRAL RESPONSE COEFFICIENTS:
 $S_{ds} = 0.185$
 $S_{d1} = 0.095$
 SEISMIC DESIGN CATEGORY B

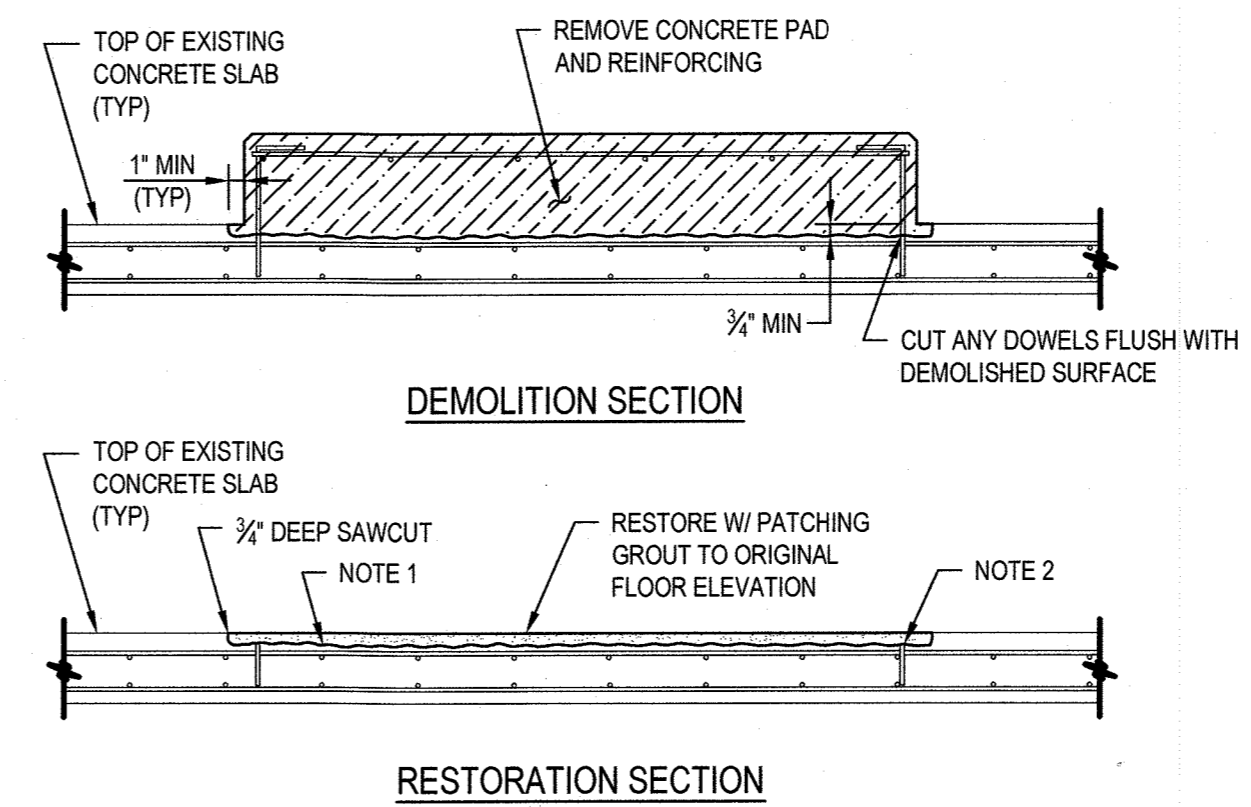
4 STRUCTURAL DESIGN DATA
NO SCALE



5 EQUIPMENT PAD DETAIL
NO SCALE

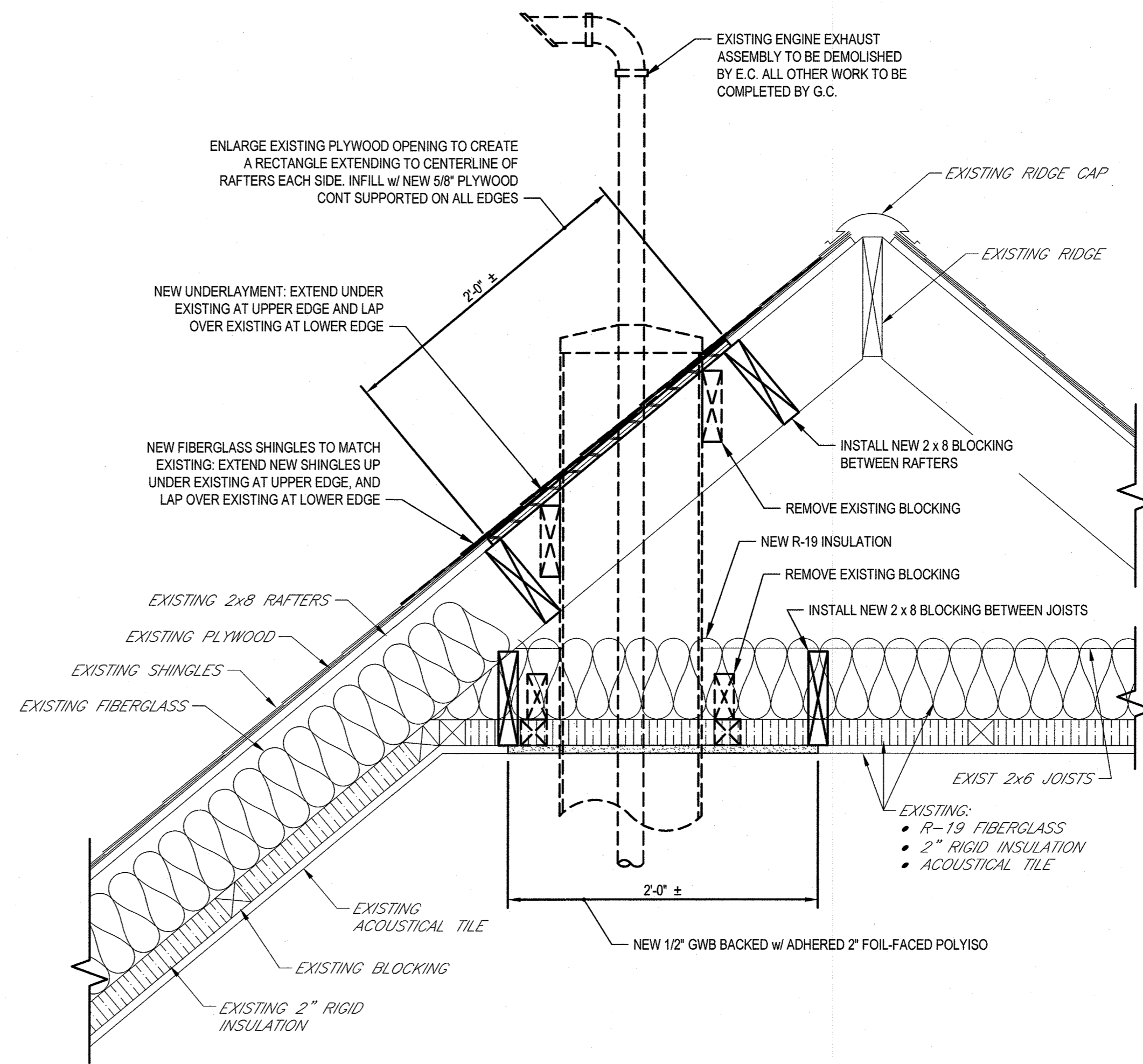


6 STEEL RAILING: SIDE MOUNTED TO ALUMINUM OR STEEL
NO SCALE



- NOTES:**
- SANDBLAST OR MECHANICALLY REMOVE ALL LOOSE AND SPALLED MATERIALS. COAT EXPOSED CONCRETE WITH EPOXY BONDING ADHESIVE PRIOR TO PLACING PATCHING GROUT.
 - CUT REINFORCING FLUSH AND COAT WITH ANTI-CORROSION PRIMER.
 - G.C. TO DEMOLISH CONCRETE CURB AND PATCH IN ACCORDANCE WITH THIS DETAIL. REFER TO E101 AND E102 FOR LOCATION OF DEMOLITION.

7 CONCRETE PAD DEMO/RESTORATION DETAIL
NO SCALE

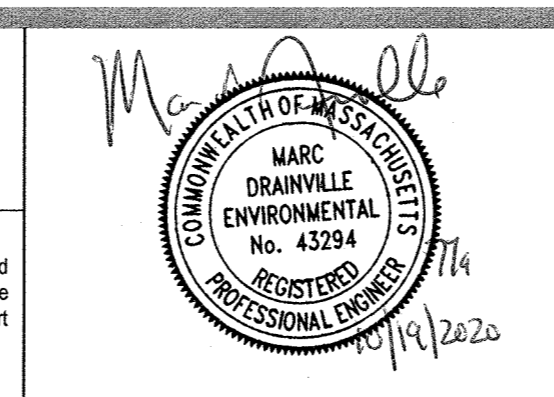


8 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"

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No.	Issue	Drawn	Approved	Date

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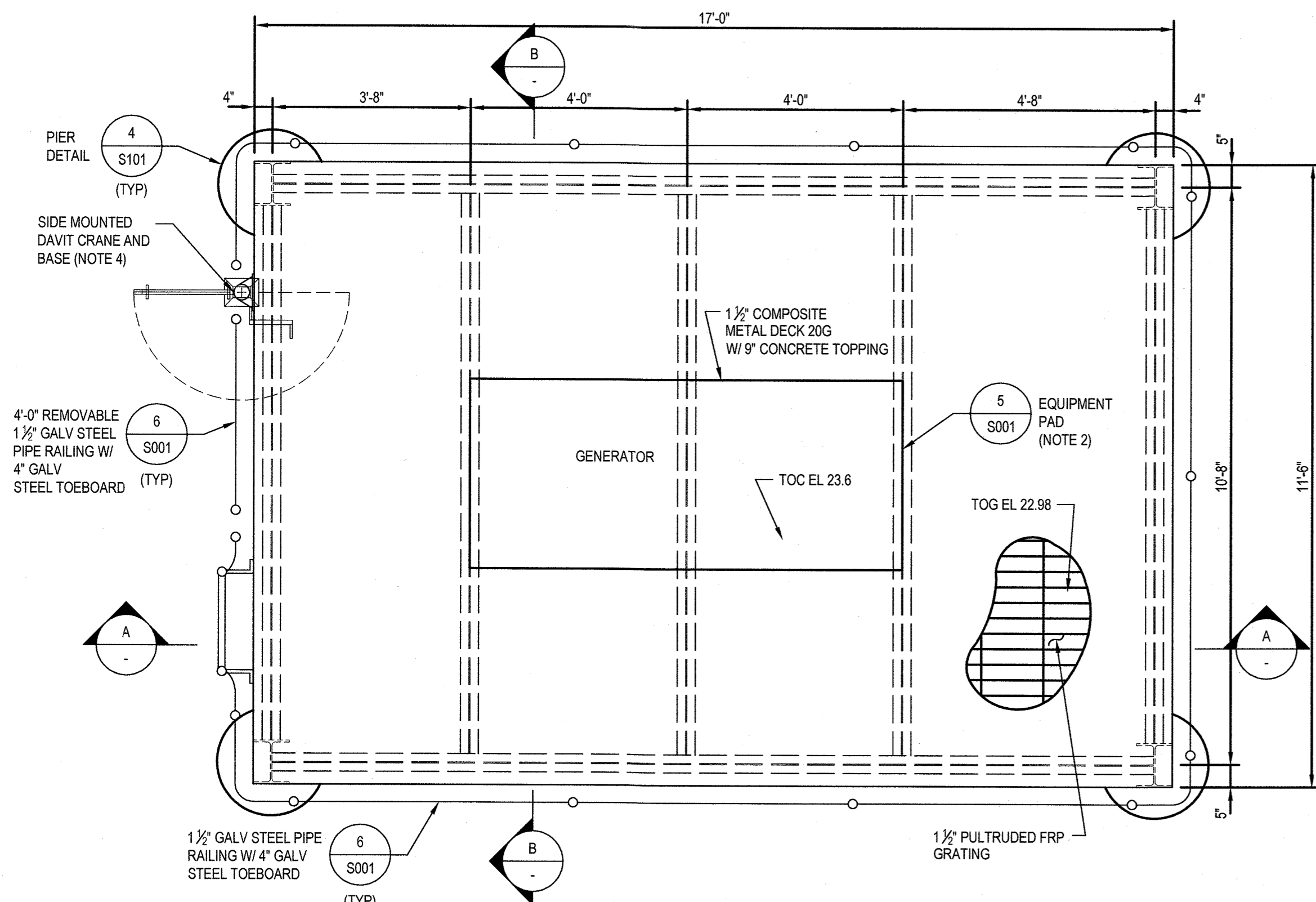
GHD
 GHD Inc.
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 Hyannis MA 02601 USA
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Drafting	M. WIESTLING	Design	K. LANTZY
Check		Check	
Project Manager		Date	
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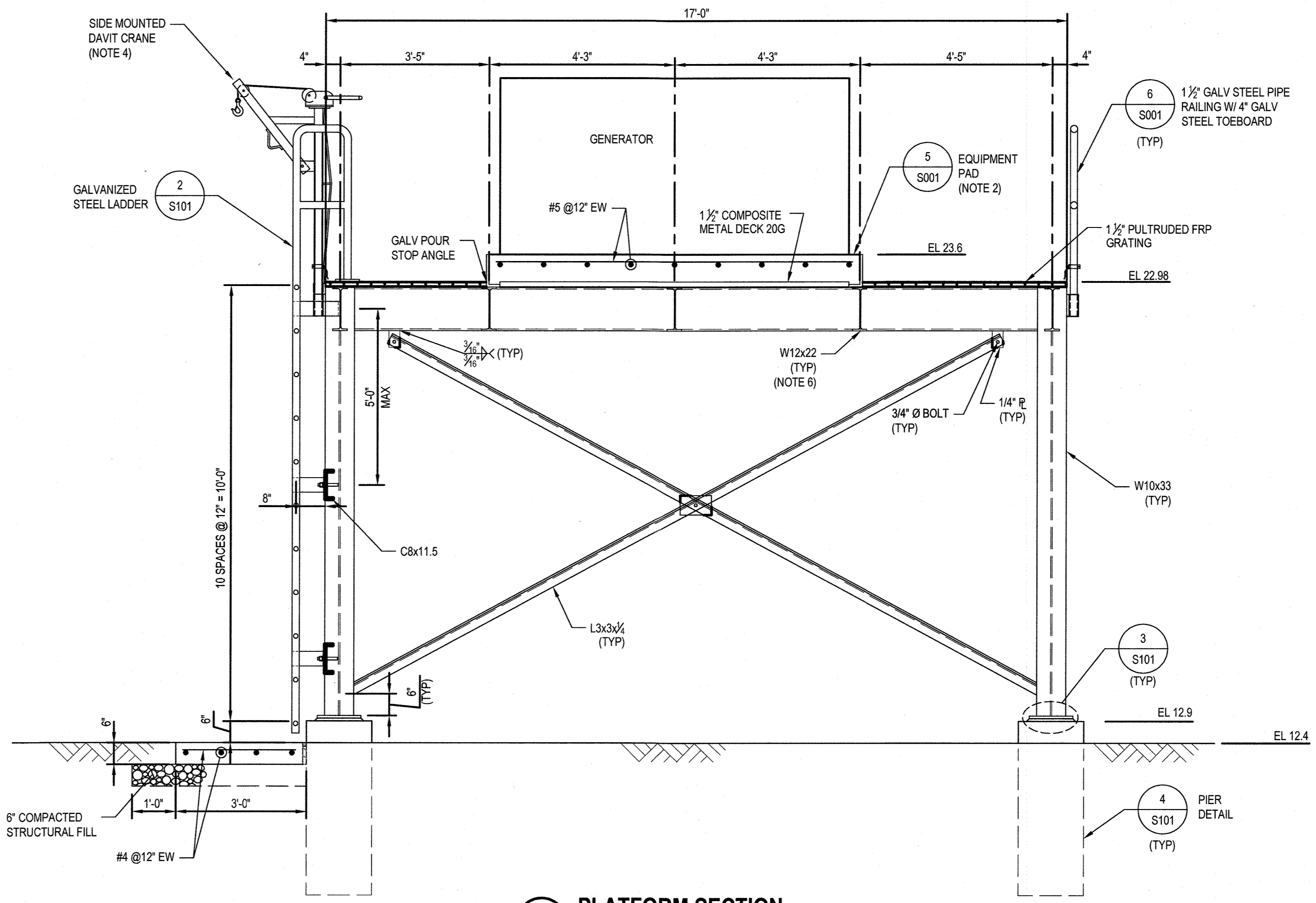
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Project	GENERATOR REPLACEMENT
Title	GENERAL STRUCTURAL DETAILS
Project No.	11206153
Original Size	Arch D
Sheet No.	11206153-S001

SHEET GENERAL NOTES

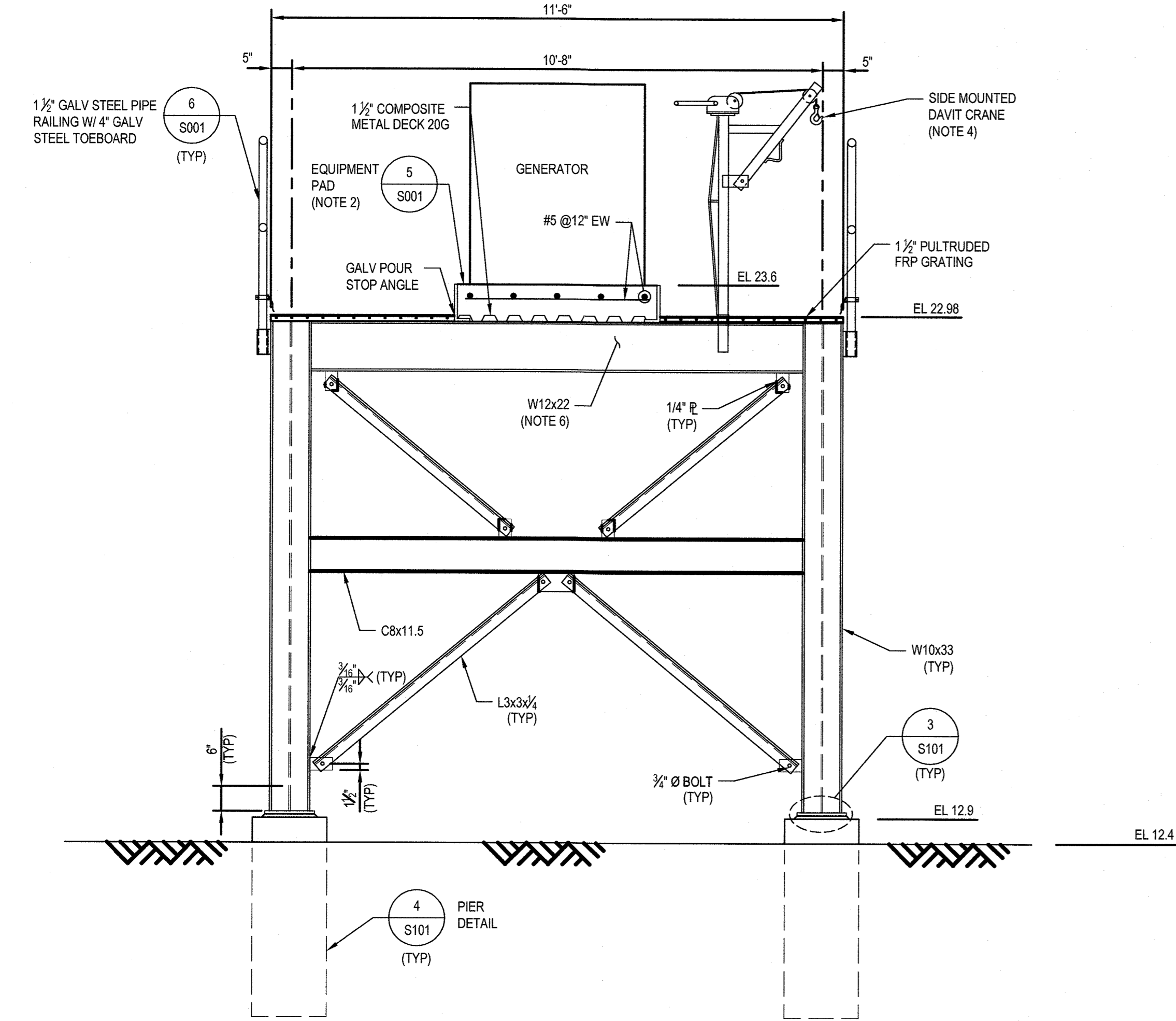
- REFER TO DRAWING S001 FOR 'CONCRETE NOTES' AND DETAILS.
- COORDINATE PIPE AND EQUIPMENT LOCATIONS WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND DRAWINGS OF OTHER DISCIPLINES. GENERAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR SIZE, LOCATION AND INSTALLATION OF BOX OUTS AND CONDUITS.
- PROVIDE 90° HOOK AT TOP OF EVERY OTHER BAR.
- COORDINATE FINAL LOCATION OF DAVIT BASE WITH APPROVED DAVIT AND LOCATION OF ADJACENT EQUIPMENT TO ALLOW FOR ACCESS AND USE OF THE DAVIT CRANE.
- ALL STEEL IS TO BE GALVANIZED UNLESS NOTED OTHERWISE.
- COORDINATE FINAL LOCATION OF BEAMS WITH FINAL LOCATION OF GENERATOR.
- METAL DECK TO HAVE A MINIMUM OF 2" BEARING AND STEEL GRATING TO HAVE A MINIMUM OF 1 1/2" BEARING.



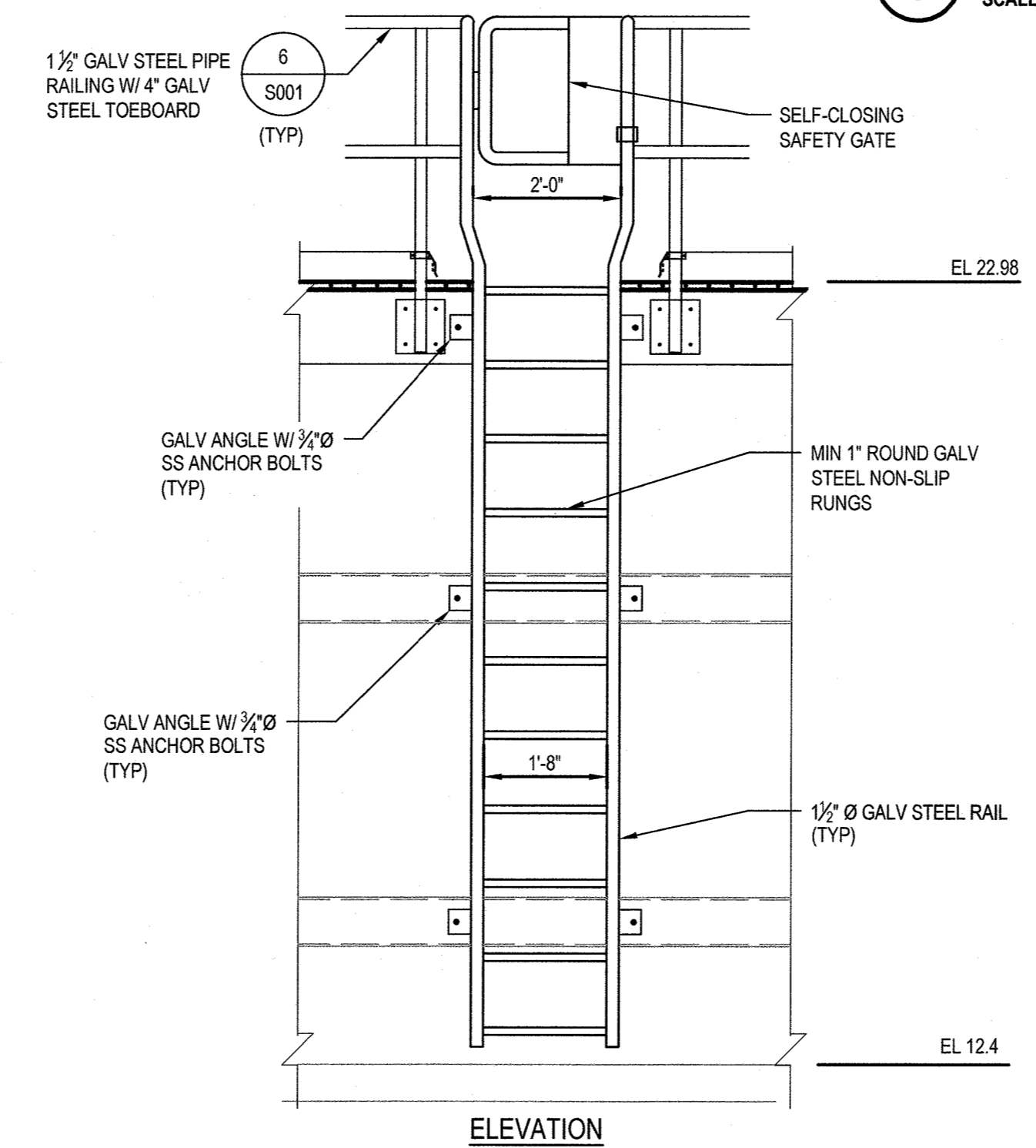
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SCALE: 1/2" = 1'-0"
0 1' 2' 4'



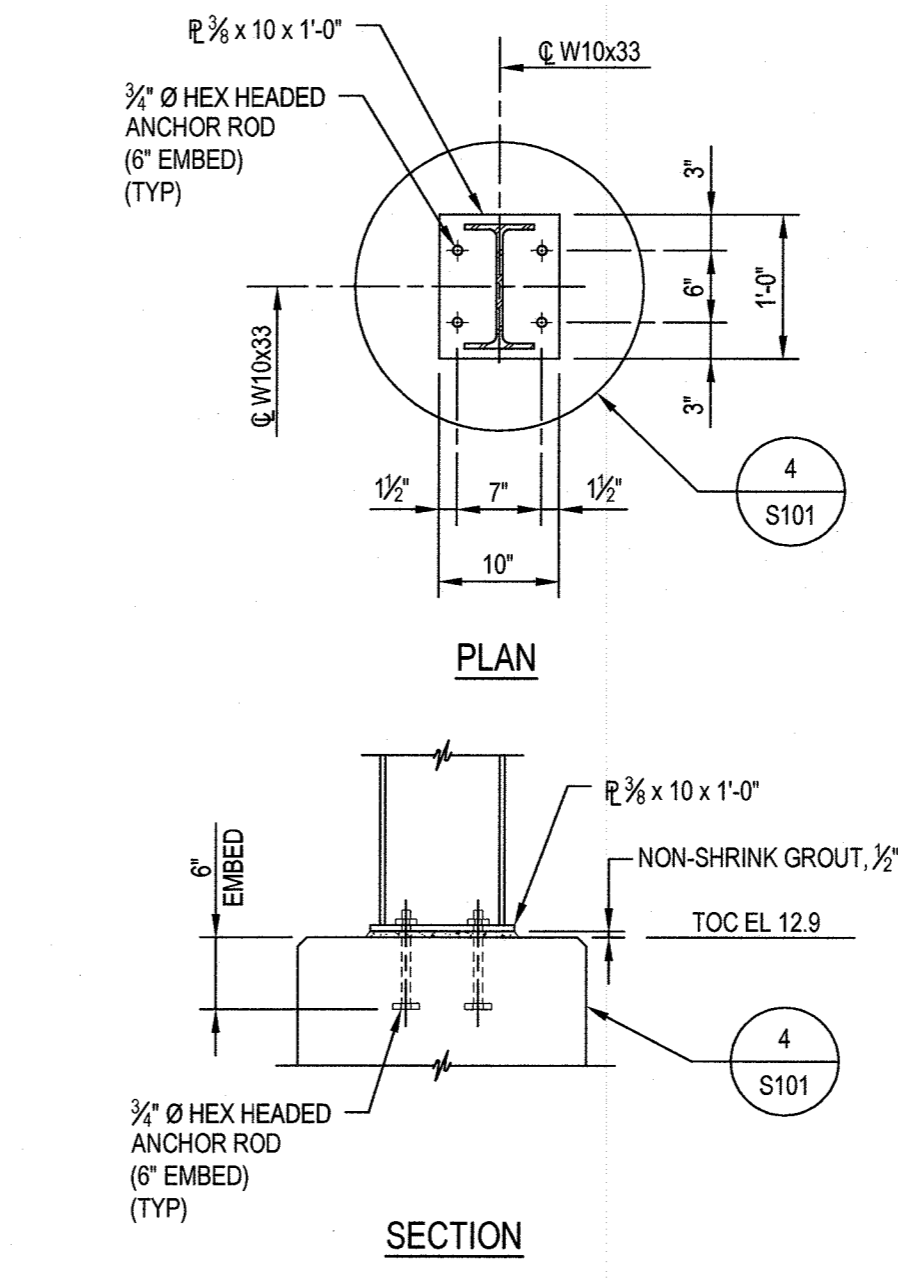
A PLATFORM SECTION
SCALE: 1/2" = 1'-0"
0 1' 2' 4'



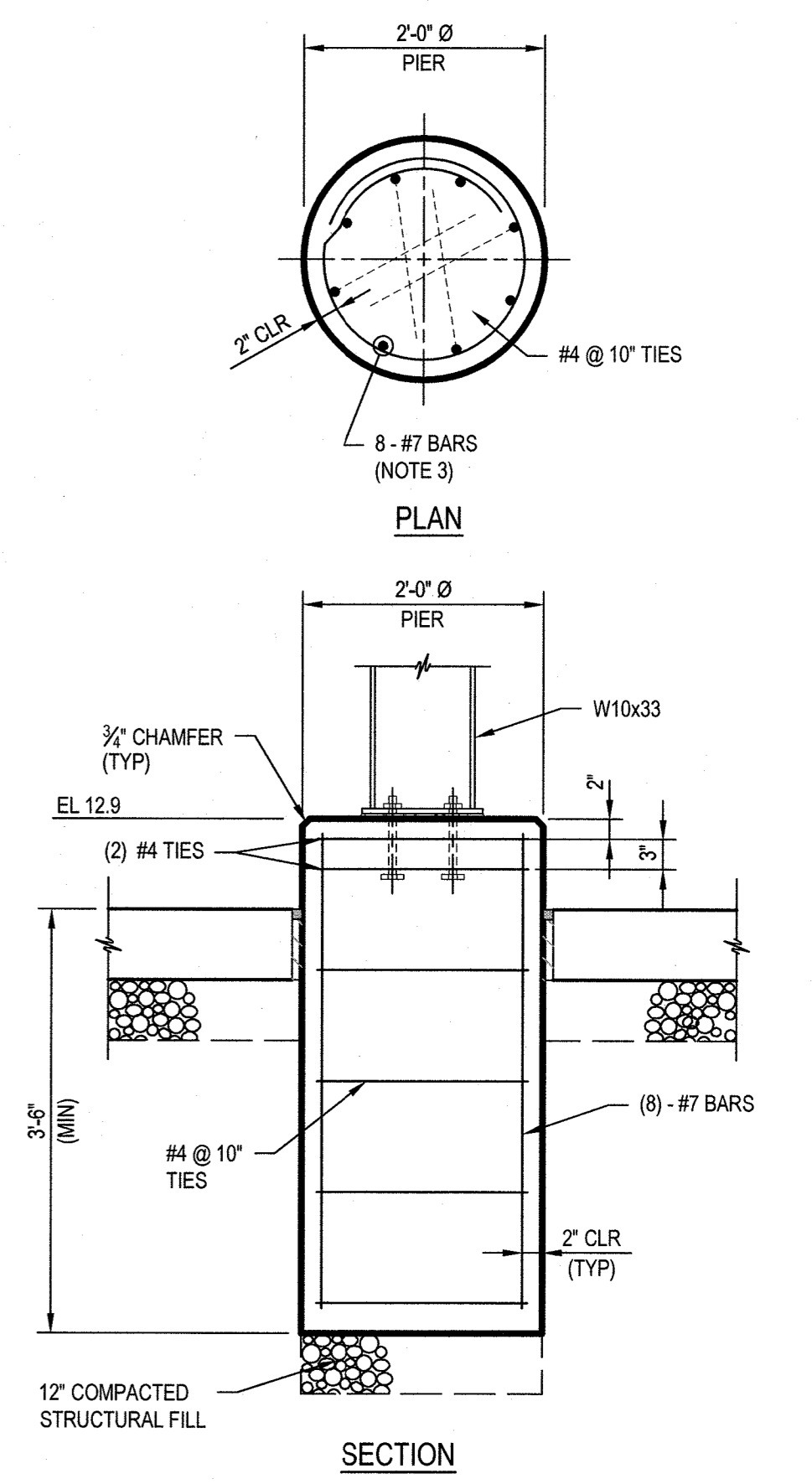
B PLATFORM SECTION
SCALE: 1/2" = 1'-0"
0 1' 2' 4'



2 GALVANIZED STEEL LADDER DETAIL
SCALE: 1/2" = 1'-0"
0 1' 2' 4'



3 BASE PLATE DETAIL
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

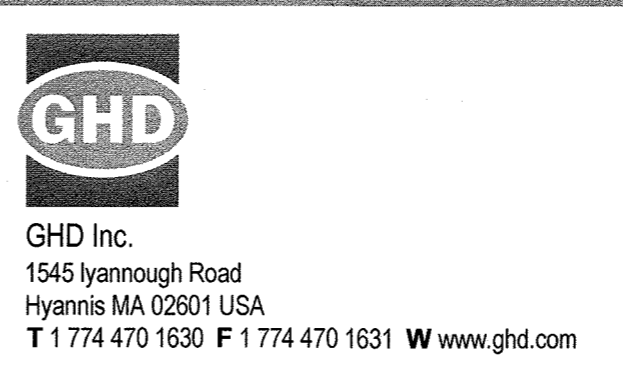
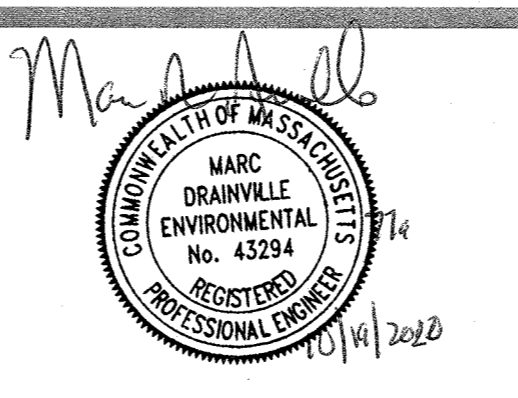


4 PIER DETAIL
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

No.	Issue	Drawn	Approved	Date
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0 1" 2" 4"

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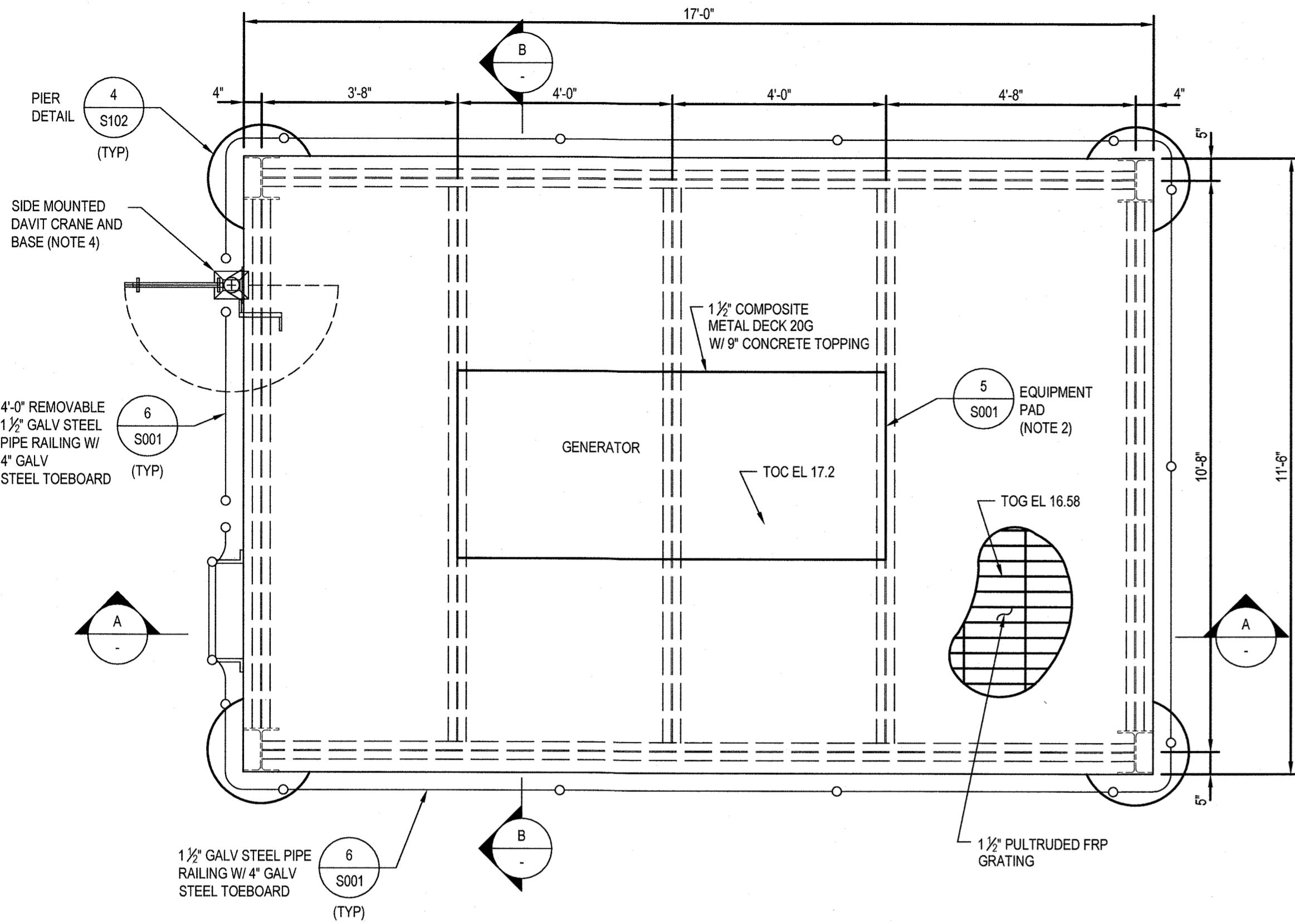


Drawn **B. ZAWACKI**
Designer **B. ZAWACKI**
Drafting Check **M. WIESTLING**
Design Check **K. LANTZY**
Project Manager
Date
Scale **AS SHOWN**

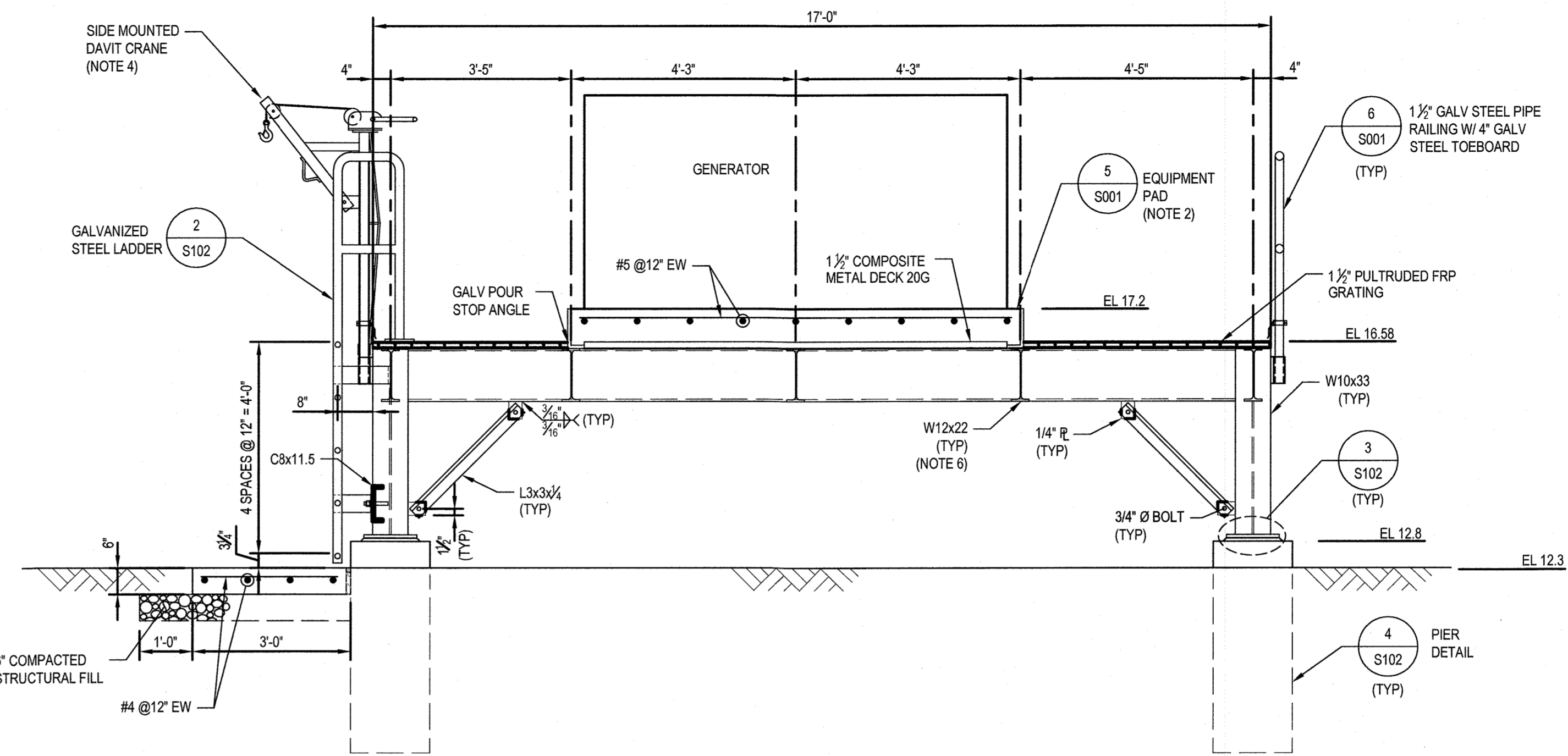
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Project **GENERATOR REPLACEMENT**
Title **SALT WORKS ROAD GENERATOR PLATFORM PLAN AND SECTIONS**
Project No. **11206153**
Original Size
Arch D **11206153-S101**
Sheet No. **11206153-S101**
Sheet **7** of **13**

SHEET GENERAL NOTES

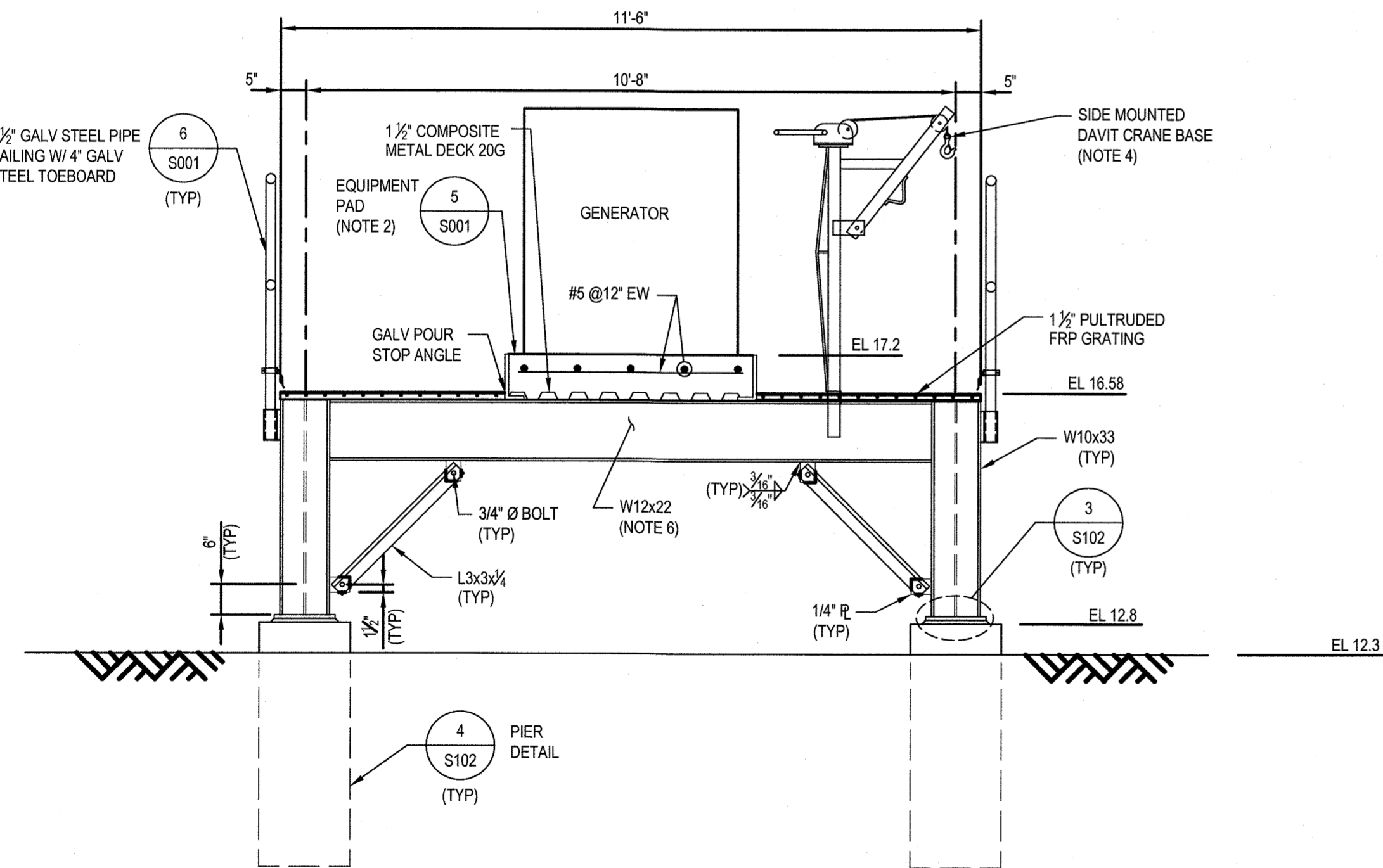
- REFER TO DRAWING S001 FOR 'CONCRETE NOTES' AND DETAILS.
- COORDINATE PIPE AND EQUIPMENT LOCATIONS WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND DRAWINGS OF OTHER DISCIPLINES. GENERAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR SIZE, LOCATION AND INSTALLATION OF BOX OUTS AND CONDUITS.
- PROVIDE 90° HOOK AT TOP OF EVERY-OTHER BAR.
- COORDINATE FINAL LOCATION OF DAVIT BASE WITH APPROVED DAVIT AND LOCATION OF ADJACENT EQUIPMENT TO ALLOW FOR ACCESS AND USE OF THE DAVIT CRANE.
- ALL STEEL IS TO BE GALVANIZED UNLESS NOTED OTHERWISE.
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- METAL DECK TO HAVE A MINIMUM OF 2" BEARING AND STEEL GRATING TO HAVE A MINIMUM OF 1 1/2" BEARING.



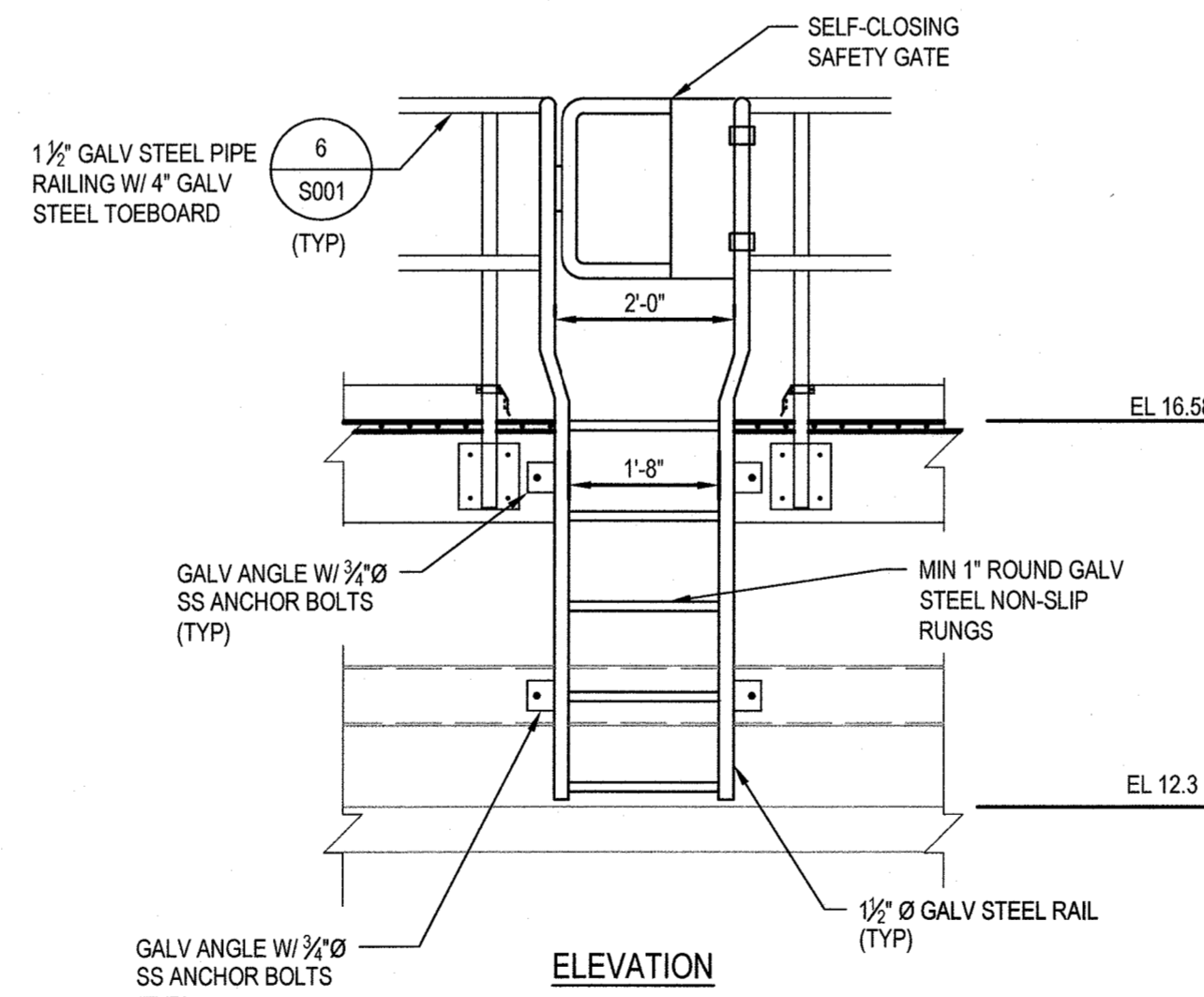
1 PLATFORM PLAN
SCALE: 1/2" = 1'-0"
0 1' 2' 4'



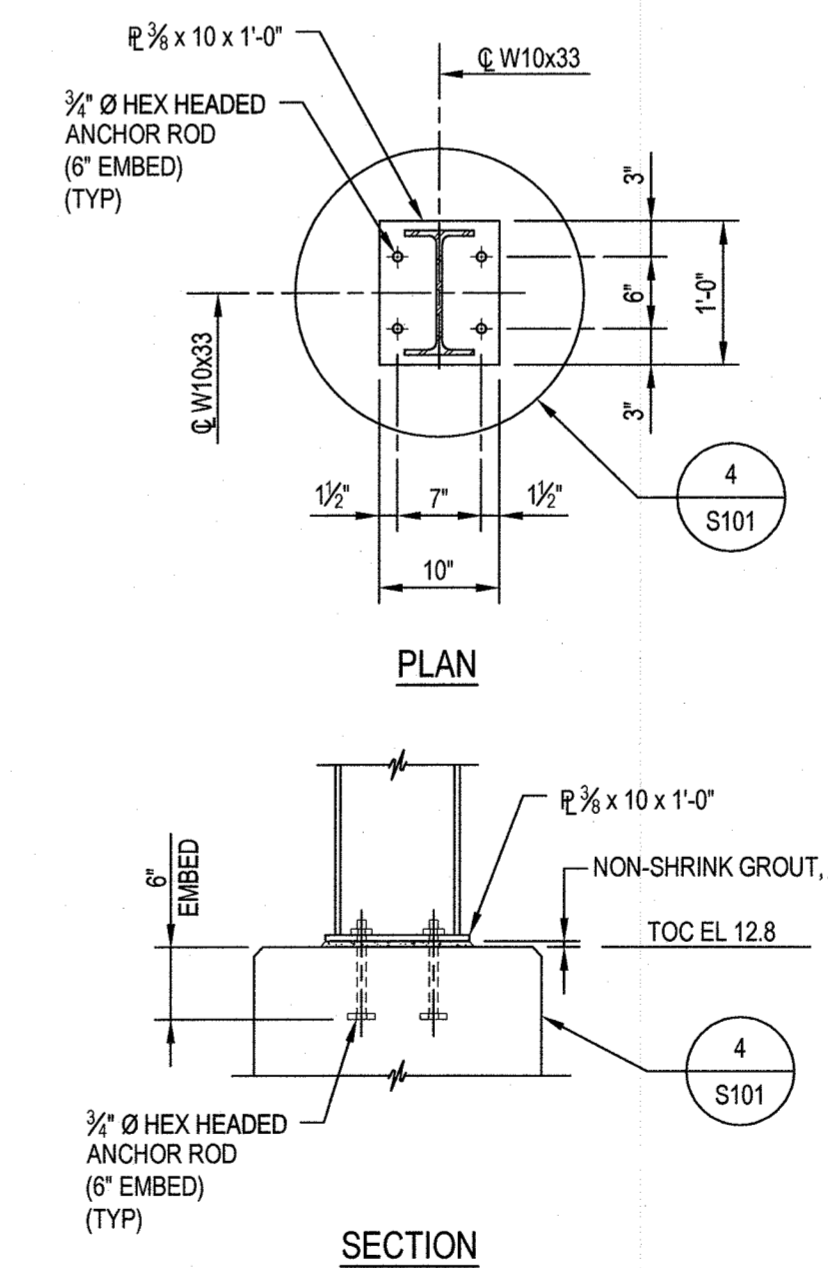
A PLATFORM SECTION
SCALE: 1/2" = 1'-0"
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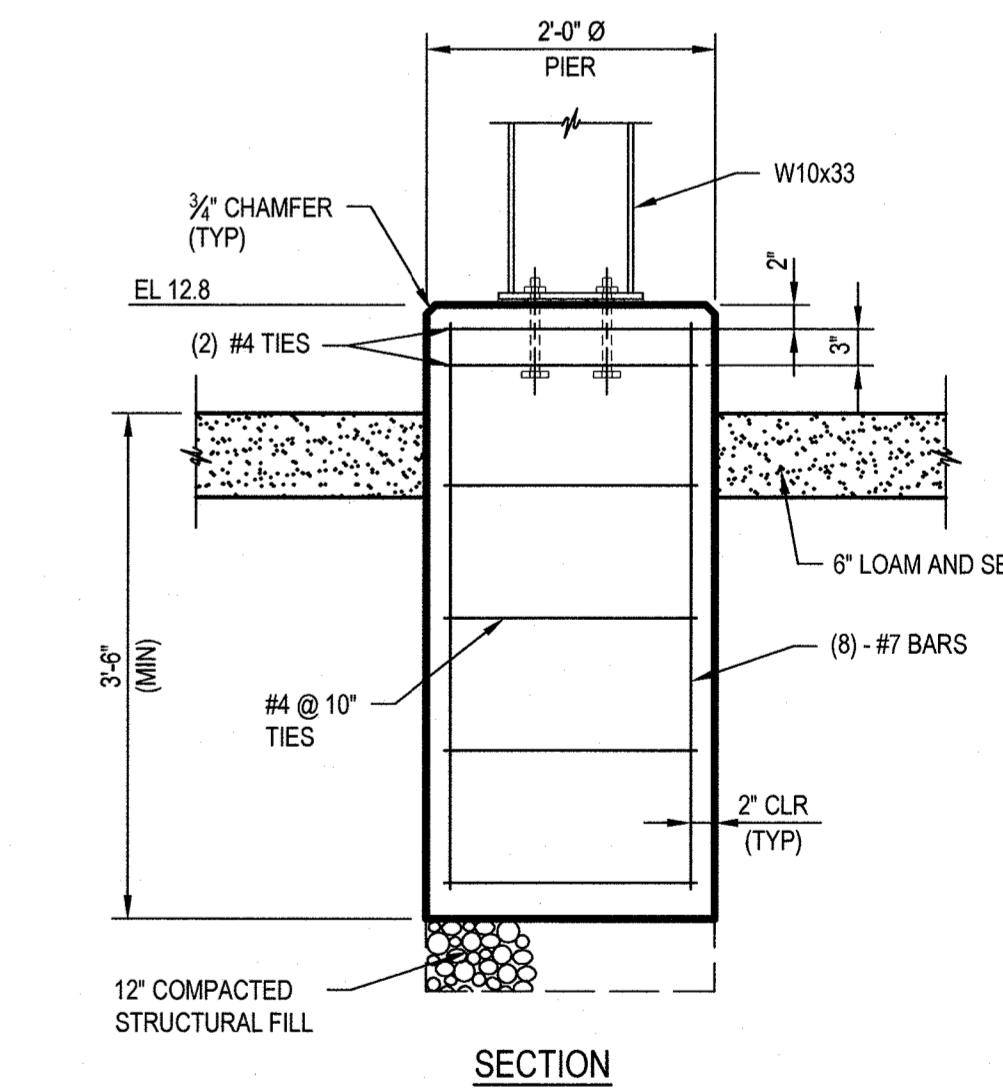
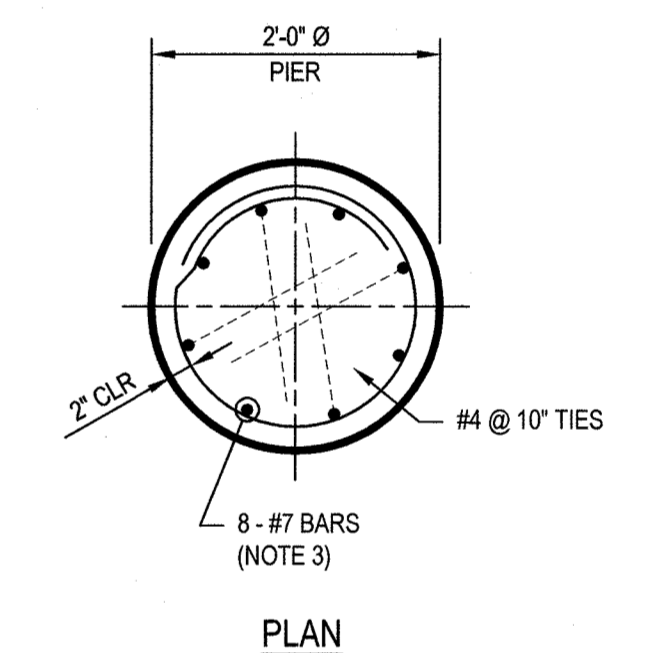
B PLATFORM SECTION
SCALE: 1/2" = 1'-0"
0 1' 2' 4'



2 GALVANIZED STEEL LADDER DETAIL
SCALE: 1/2" = 1'-0"
0 1' 2' 4'



3 BASE PLATE DETAIL
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

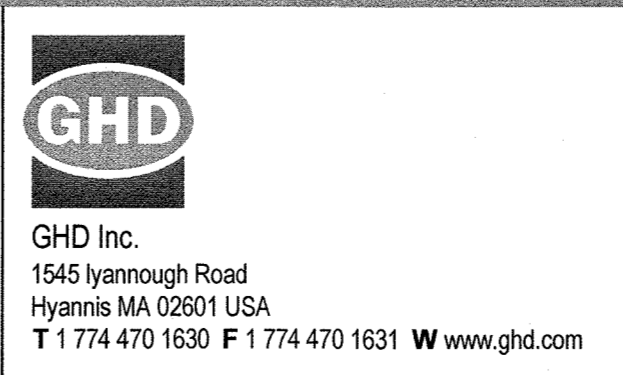
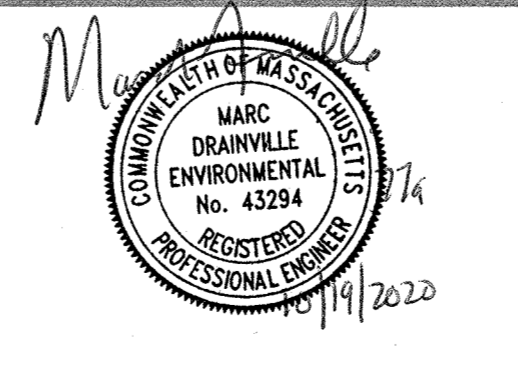


4 PIER DETAIL
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

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No.	Issue	Drawn	Approved	Date

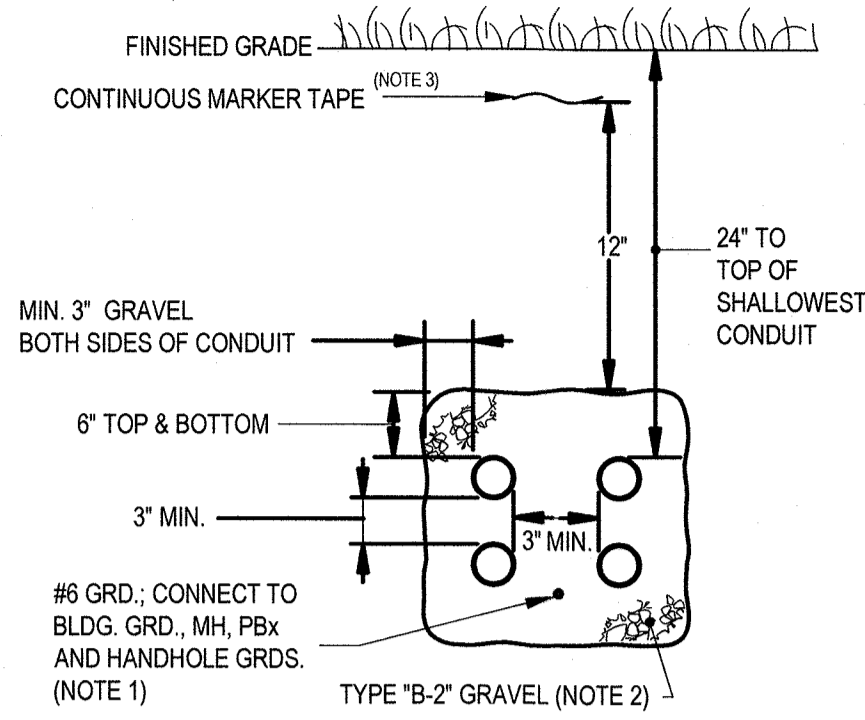
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Project Manager Date
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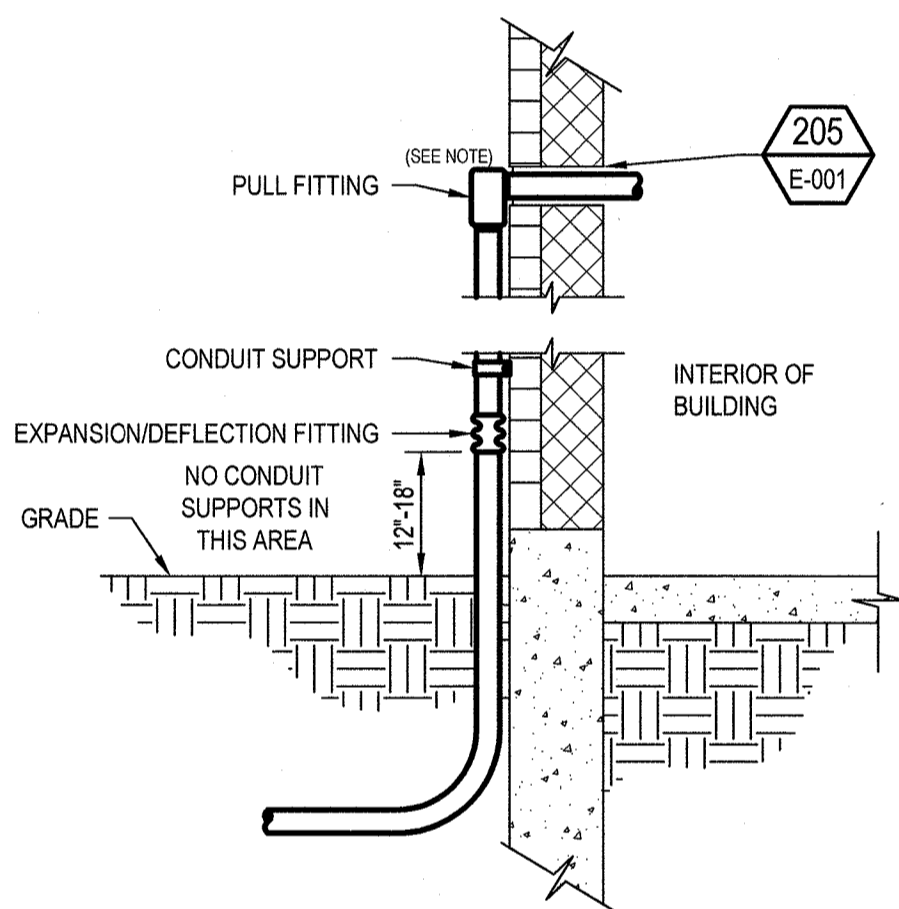
Client **TOWN OF WAREHAM**
Project **GENERATOR REPLACEMENT**
Title **TERRY LANE GENERATOR PLATFORM PLAN AND SECTIONS**
Project No. **11206153**
Original Size **Arch D** Sheet No. **11206153-S102** Sheet 8 of 13



DUCTBANK NOTES:

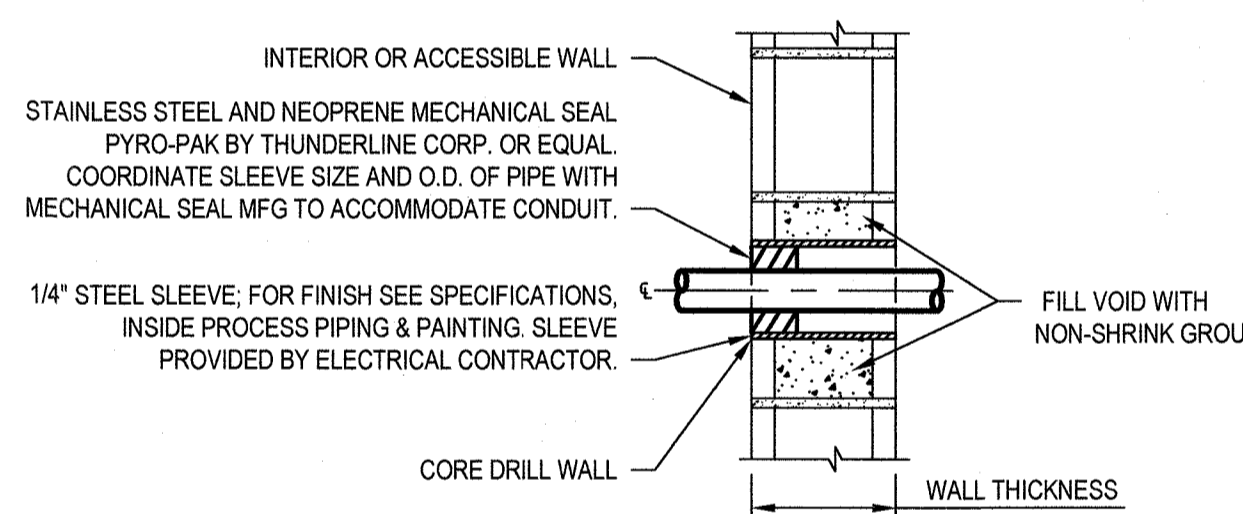
- IF EXISTING OR NEW GROUNDS ARE NOT AVAILABLE AT DUCTBANK ENDS, PROVIDE ONE 3/4"x10' GROUND ROD, OFFSET TO SIDE OF DUCTBANK, FOR TERMINATION OF DUCTBANK GROUNDING CONDUCTORS.
- CONTRACTOR SHALL BE PERMITTED TO USE OTHER SUITABLE GRAVEL WITH 2" MAXIMUM SIZE EXCEPT CRUSHED AGGREGATE SHALL NOT BE PERMITTED.
- ON DUCTBANKS WIDER THAN 30-INCHES, PROVIDE TWO ROWS OF WARNING TAPE, PLACED NEAR THE OUTER EDGES OF THE DUCTBANK.

106 DUCTBANK DETAIL
SCALE: NOT TO SCALE

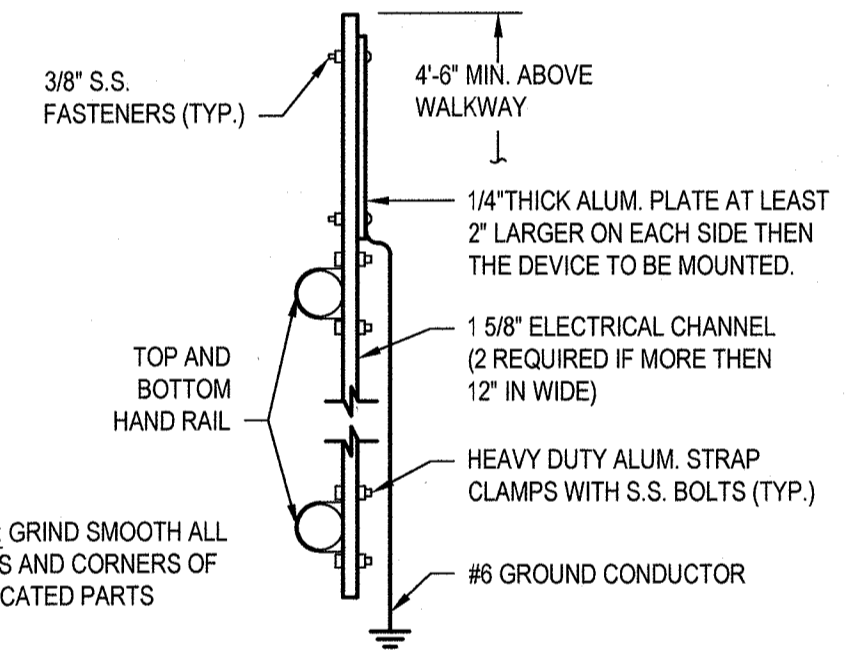


NOTE: ALL FITTINGS SHALL BE WATER-TIGHT AND CONDUIT PENETRATION SHALL BE AS HIGH AS FEASIBLY POSSIBLE TO LIMIT WATER PENETRATION DURING FLOODING.

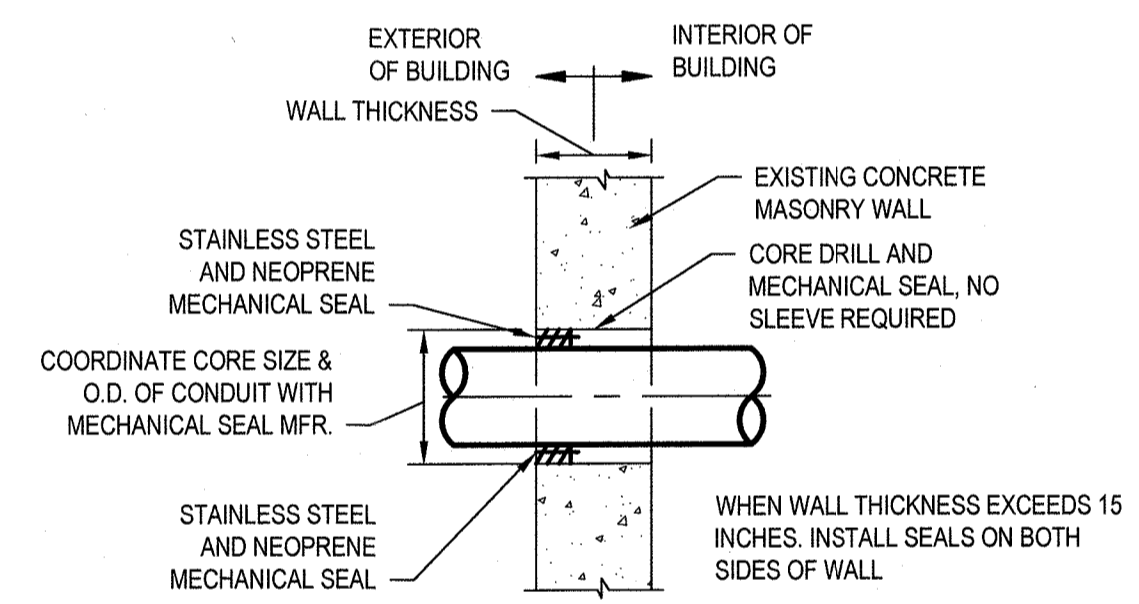
201 TYPICAL BELOW GRADE TO ABOVE GRADE CONDUIT DETAIL
SCALE: NOT TO SCALE



205 TYPICAL CONDUIT THRU BLOCK WALL
SCALE: NOT TO SCALE



307 RAILING MOUNTING STAND DETAIL
SCALE: NOT TO SCALE



203 CONDUIT PENETRATION THRU CONCRETE WALL
SCALE: NOT TO SCALE

- LED AREA LIGHT.
 - DIE-CAST ALUMINUM HOUSING WITH HINGED SPUN ALUMINUM HOOD, COATED WITH POLYESTER POWDER PAINT, GRAY STAINLESS STEEL HARDWARE.
 - TYPE IV DISTRIBUTION, VANDAL RESISTANT OPTICS.
 - SUITABLE FOR OUTDOOR APPLICATION GASKETED HOOD.
 - UNIVERSAL VOLTAGE, 60W LED MINIMUM, 7600 LUMENS OUTPUT WITH SURGE PROTECTION.
 - CRI 4000K MINIMUM.
 - MINIMUM 150,000 HOUR LED RATING L70.
 - TEN YEAR WARRANTY.
- MANUFACTURERS:
DECO LIGHTING: GLADETINO SERIES
NLS LIGHTING: NV LED SERIES
OR APPROVED EQUAL

MOUNTING POLE:
- POLES: COMPLY WITH ASTM A596, GRADE A, CARBON STEEL; STANDARD DUTY, TAPERED, 1-PIECE CONSTRUCTION UP TO 10 FEET IN HEIGHT WITH ACCESS HANDHOLE COORDINATED IN POLE WALL WITH CONDUIT SEAL AND LOCKABLE COVER.
- ROUND 10-FOOT POLE WITH BAKED POWDERCOAT FINISH AND CAST ALUMINUM ANCHOR BASE.
- POLE STRENGTH ANALYSIS: MULTIPLY THE ACTUAL EQUIVALENT PROJECTED AREA OF LUMINAIRE AND BRACKET BY A FACTOR OF 1.5 TO OBTAIN EQUIVALENT PROJECTED AREA TO BE USED IN POLE SELECTION. ASSUME A WIND SPEED OF 110MPH.
- STANCHION MOUNT TO PLATFORM DECK WITH STRAPPING ON BOTH HANDRAIL TUBES.

LUMINAIRE 'WL2' SPECIFICATION
SCALE: NOT TO SCALE

NEW / EXISTING TEXT IDENTIFIER

- NEW WORK, EQUIPMENT AND STRUCTURES ARE SHOWN IN THIS TEXT FORMAT
- EXISTING EQUIPMENT, CONDITIONS AND STRUCTURES ARE SHOWN IN THIS TEXT FORMAT.

GROUNDING NOTES

- THE GROUNDING SYSTEM IS SHOWN DIAGMATICALLY. EXACT LOCATION OF CABLE GROUND RODS AND CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
- ALL BURIED GROUNDING CABLE CONNECTIONS SHALL BE CADWELDED OR THERMOWELDED. THE WELDED CONNECTIONS SHALL BE LEFT EXPOSED FOR INSPECTION BY ENGINEER PRIOR TO BACKFILLING.
- WHERE EXPOSED TO MECHANICAL INJURY, THE GROUNDING CONDUCTOR SHALL BE SUITABLY PROTECTED BY PIPE OR OTHER MECHANICAL PROTECTION. EACH END OF PROTECTING CONDUIT (IF METALLIC) SHOULD BE GROUNDED TO THE BARE CABLE.
- ALL EXPOSED CABLE LUGS AND CONNECTORS SHALL BE OF THE COMPRESSION TYPE UNLESS OTHERWISE NOTED.
- STEEL MUST BE CLEANED THOROUGHLY AND CABLE MUST BE COMPLETELY DRY BEFORE MAKING WELD CONNECTIONS.
- THE GROUNDING SYSTEM SHALL BE CONNECTED TO A METALLIC WATERLINE WITH A MINIMUM OF 10 FEET LENGTH UNDERGROUND AND TO THE GROUNDING ELECTRODES.
- GROUNDING SYSTEM SHALL BE CONNECTED TO FOOTING STEEL.
- REMOVE PAINT FROM UNDER ALL GROUND LUGS AND BARS, INCLUDING SHOP FABRICATED PANELS.

ABBREVIATIONS

A or AMP	AMPERE, AMPS	SV	SOLENOID VALVE
AC	ALTERNATING CURRENT	SW	SWITCH
AF	AMPERE FRAME SIZE	SWD	SWITCHING DUTY
AFG	ABOVE FINISHED FLOOR	TC	TERMINAL CABINET OR TIMED CLOSED
AIC	AMPS INTERRUPTING CURRENT	TDR	TIME DELAY RELAY
ALT	ALTERNATOR	TERM	TERMINAL
ANN	ANNUNCIATOR	TR	TRANSFER SWITCH
ASV	AIR SOLENOID VALVE	TR.SW.	24-HOUR TIMER
AT	AMPERE TRIP RATING	TR24	TORQUE SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	TSP	TWISTED SHIELDED PAIR
AUX	AUXILIARY	TST	TWISTED SHIELDED TRIAD
AWG	AMERICAN WIRE GAUGE	TYP	TYPICAL
BKR	BREAKER	UGIE	UNDERGROUND ELECTRIC
C or COND	CONDUIT	UGT	UNDERGROUND TELEPHONE
C&W	CONDUIT & WIRE	UNK	UNKNOWN
CA	CABLE	UPS	UNINTERRUPTIBLE POWER SUPPLY
CB	CIRCUIT BREAKER	VA	VOLT-AMPERES
CDRS	CONDUCTORS	VFD	VARIABLE FREQUENCY DRIVE
CIRC	CIRCUIT	VM	VOLTMETER
CLF	CURRENT LIMITING FUSE	VSC	VOLTMETER SWITCH
COMP	COMPARTMENT	W	VARIABLE SPEED CONTROL
COR	CORROSION RESISTANT	WP	WEATHER PROOF, WATER PROOF
CP	CONTROL PANEL	XP	EXPLOSION PROOF
CPT	CONTROL POWER TRANSFORMER	XFMR	TRANSFORMER
CR	CONTROL RELAY		
CT	CURRENT TRANSFORMER		
DC	DIRECT CURRENT		
DM	DAMPER MOTOR		
DS	DISCONNECT SWITCH		
EACH	EACH		
EMH	ELECTRICAL MANHOLE		
ES	EMERGENCY SWITCH		
ESTOP	EMERGENCY STOP		
ETM	ELAPSED TIME METER		
FA	FIRE ALARM		
FLEX	FLEXIBLE		
FLOA	FLOAT SWITCH		
FS	FLOW SWITCH		
FVNR	FULL VOLTAGE NON REVERSING		
FVR	FULL VOLTAGE REVERSING		
GC	GENERAL CONTRACTOR		
GEN	GENERATOR		
GENSET	EMERGENCY POWER GENERATOR		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
GF1	GROUND FAULT INTERRUPTER		
GRD	GROUND		
HOA	HAND-OFF-AUTO SELECTOR SWITCH		
HP	HORSE POWER		
IL	INDICATING LIGHT		
IO	INPUT/OUTPUT		
ISR	INTRINSICALLY SAFE RELAY		
JB	JUNCTION BOX		
JIC	JOINT INDUSTRIAL COUNCIL		
KCMIL	THOUSAND CIRCULAR MILS		
KSU	KEY SERVICE UNIT		
KVA	KILOVOLT AMPERES		
KW	KILOWATT		
LO	LOCKOUT		
LS	LIMIT SWITCH		
mA	MILLIAMPS		
MAG	MAGNETIC		
MAX	MAXIMUM		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MCP	MOTOR CIRCUIT PROTECTOR		
MCS/	MOLDED CASE SWITCH		
T	THERMAL ONLY		
M	MAGNETIC ONLY		
AUTO	AUTOMATIC ONLY		
MDP	MAIN DISTRIBUTION PANEL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MLO	MAIN LUGS ONLY		
MMS	MANUAL MOTOR STARTER		
MSS	MOTOR STARTING SWITCH		
MTR	MOTOR TIMING RELAY		
MWTP	MOTOR WINDING THERMAL PROTECTION		
Mx	MOTOR CONTACTOR AUXILIARY CONTACT		
NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRIC CODE		
NO	NORMALLY OPEN		
NP	NAMEPLATE		
NTS	NOT TO SCALE		
OH/E	OVERHEAD ELECTRIC		
OH/L	OVERHEAD TELEPHONE		
OL	OVERLOAD RELAY		
Ø	PHASE		
P	POLE		
PB	PUSHBUTTON		
Pbx	PULL BOX		
PF	PULLING FITTING		
PLC	PROGRAMMABLE LOGIC CONTROLLER		
PNL	PANEL		
PR	PAIR		
PS	PRESSURE SWITCH		
PT	POTENTIAL TRANSFORMER		
R&R	REMOVE & REPLACE		
RECP	RECEPTACLE		
RGS	RIGID GALVANIZED STEEL CONDUIT		
ROS	REMOTE OPERATING STATION		
SA	SURGE ARRESTOR		
SCR	SILICON CONTROLLED RECTIFIER		
SEC	SECOND		
SEL or	SELECTOR SWITCH		
SEL SW	SERVICE ENTRANCE RATED		
SER	SHIELDED		
SHLD	STOP/LOCKOUT SWITCH		
SIL	SOLID NEUTRAL		
SN	SURGE PROTECTION DEVICE		
SPD	STAINLESS STEEL		
SS	SOLID STATE REDUCED VOLTAGE STARTER		
SSRV	SAFETY SWITCH		
SSW	STOP/START PUSH BUTTON		
S/S	STRANDED		
STR			

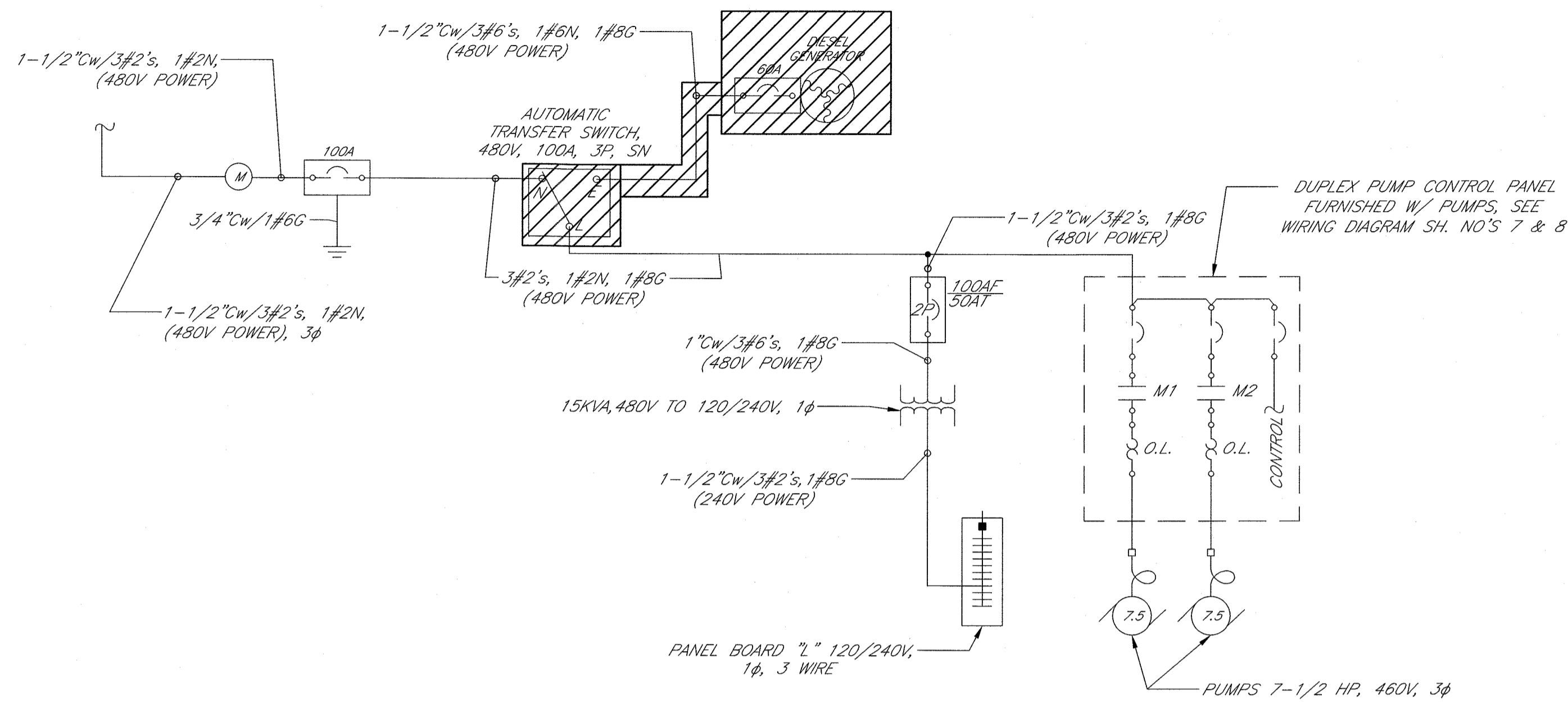
SYMBOLS

	CONTACT NORMALLY OPEN
	MOLDED CASE CIRCUIT BREAKER
	TEMPERATURE SWITCH
	FLEXIBLE CONDUIT
	TRANSFORMER
	JUNCTION BOX
	DISCONNECT SWITCH
	MOTOR OPERATED DAMPER
	MOTOR
	GROUND ROD
	SINGLE POLE SWITCH
	SEAL OFF
	ITEM TO BE DEMOLISHED

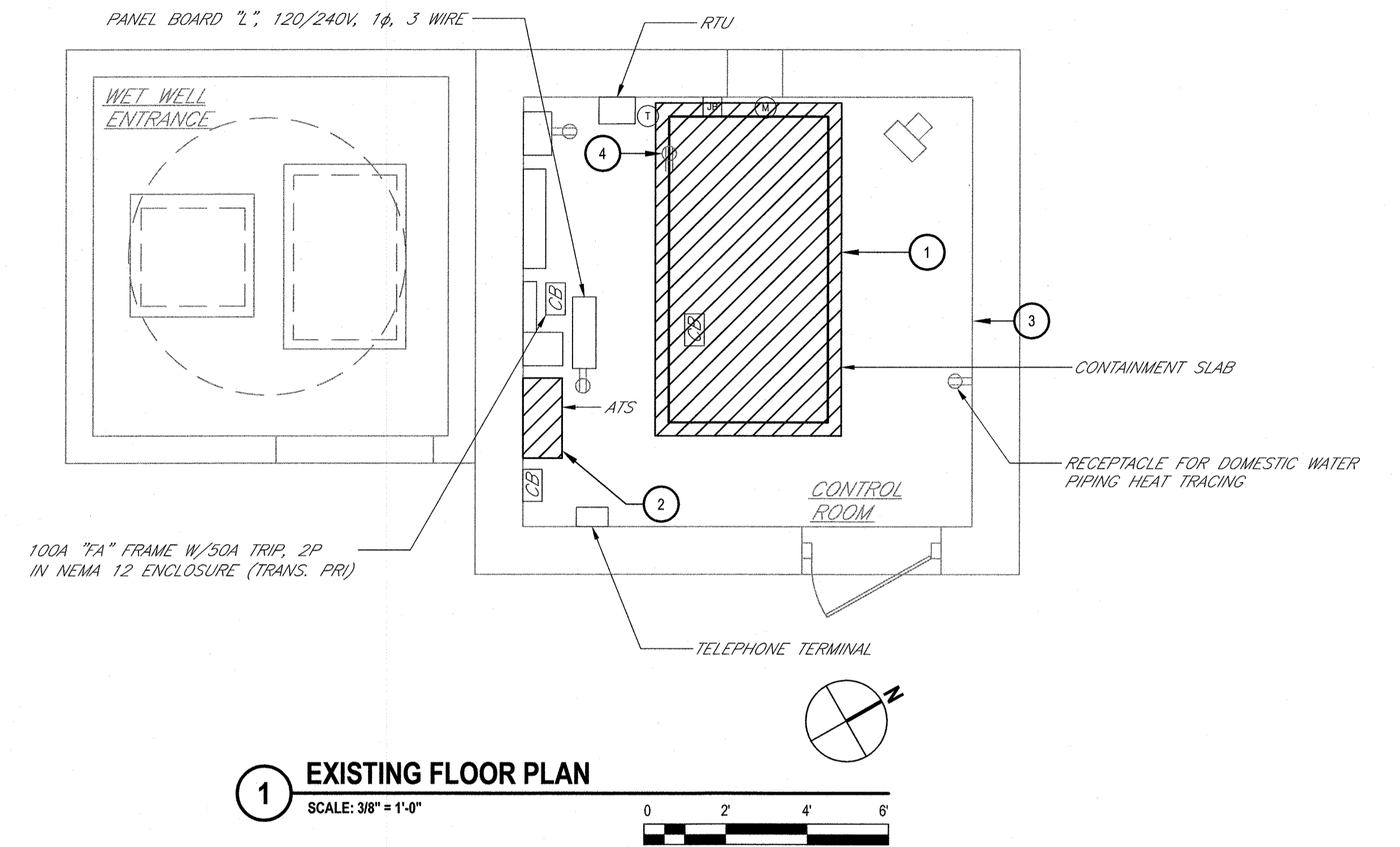
GENERAL NOTES

- POWER AND LIGHTING CIRCUITS ARE SHOWN DIAGMATICALLY. EXACT LOCATION OF CONDUIT RUNS SHALL BE DETERMINED BY THE ELECTRICAL INSTALLER IN THE FIELD, UNLESS SPECIFICALLY DIMENSIONED ON THE PLANS. CONDUIT AND WIRE INFORMATION CAN BE FOUND ON THE PLANS, EQUIPMENT SCHEDULES AND SCHEMATICS.
- EXACT EQUIPMENT CONDUIT CONNECTIONS ARE TO BE DETERMINED BY THE ELECTRICAL INSTALLER BASED UPON THE ACTUAL FIELD LOCATION OF EQUIPMENT. INSTALL CONDUIT IN ACCORDANCE WITH SPEC. SEC. 16055.
- ALL PENETRATIONS THROUGH EXISTING SOLID CONCRETE STRUCTURES WHERE SLEEVES HAVE NOT BEEN PROVIDED SHALL BE CORE DRILLED AND SIZED TO ACCEPT MECHANICAL LINK SEALS THROUGH NON-FIRE RATED WALLS, CORE HOLE AND SEAL AROUND CONDUIT WITH NON-SHRINK GROUT. THROUGH EXTERIOR WALL SEAL WATER TIGHT WITH SILICONE MASONRY SEALANT.
- EVERY EFFORT HAS BEEN MADE TO IDENTIFY REMOTE ITEMS TO BE CONNECTED BY THE ELECTRICAL TRADE. EITHER IN THE ELEMENTARIES OR IN THE SCHEDULES. HOWEVER, NOT ALL OF THE REMOTE DEVICES MAY HAVE BEEN SHOWN ON THE ELECTRICAL PLAN DRAWINGS. SEE THE DRAWINGS OF RESPECTIVE TRADES TO LOCATE OR CONFIRM THEIR LOCATION.
- ELECTRICAL TRADE SHALL COORDINATE INSTALLATION OF EQUIPMENT SUCH THAT INSTALLATION OF THEIR EQUIPMENT IS NOT STARTED UNTIL AFTER PAINTING & FINISHES, IN ACCORDANCE WITH THE ROOM FINISH SCHEDULE. HAVE BEEN COMPLETED IN EACH OF THE AREAS OR THE GENERAL CONTRACTOR AGREES THAT EQUIPMENT THAT IS INSTALLED WILL NOT PREVENT AREAS FROM BEING PAINTED OR FINISHES APPLIED IN THEIR ENTIRETY.

<p>Bar is one inch on original size sheet 0 = 1"</p>								<p>Client TOWN OF WAREHAM Project GENERATOR REPLACEMENT Title ELECTRICAL NOTES, LEGENDS, SYMBOLS, ABBREVIATIONS AND DETAILS Project No. 11206153 Original Size Arch D Sheet No. 11206153-E001</p>	
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<p>0 FOR BIDDING AND CONSTRUCTION</p>				<p>KYJ RHK 09/24/2020</p>		<p>Date</p>		<p>Sheet 9 of 13</p>	

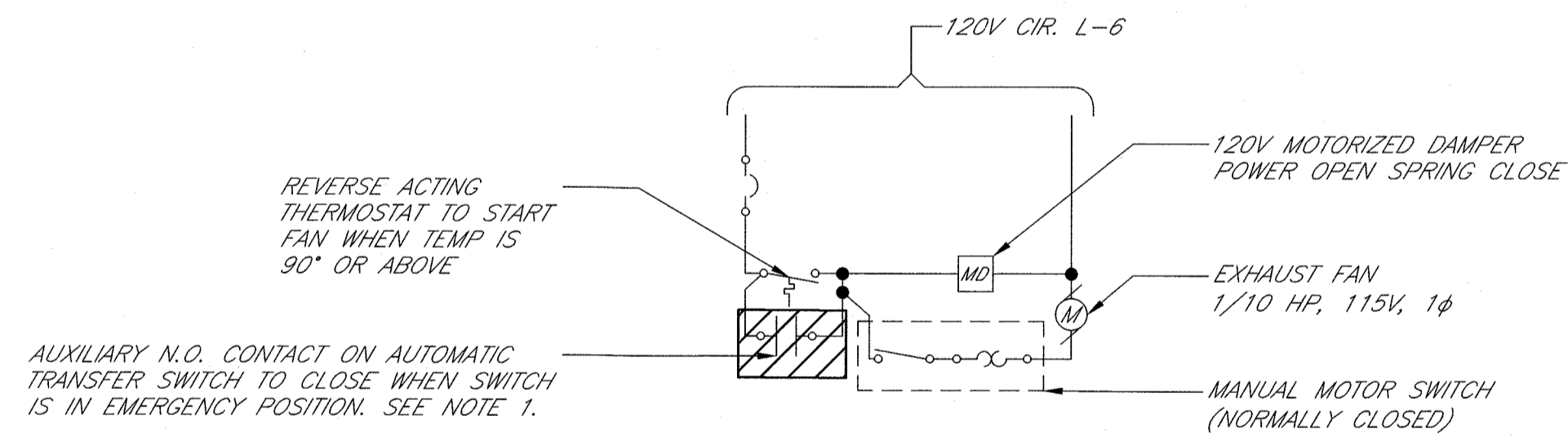


EXISTING ONE-LINE DIAGRAM
NOT TO SCALE



EC DEMOLITION KEYED NOTES:

- 1 DISCONNECT AND REMOVE THE EXISTING GENERATOR AND ALL ASSOCIATED ELECTRICAL DEVICES AND APPURTENANCES INCLUDING ASSOCIATED PIPING, CONDUIT, WIRING AND CONTROL DEVICES BACK TO SOURCE.
- 2 DISCONNECT AND REMOVE THE EXISTING ATS AND ALL ASSOCIATED ELECTRICAL DEVICES AND APPURTENANCES.
- 3 FOR GC WORK SEE SHEET C101.
- 4 REMOVE EXISTING POWER WIRING FROM EMBEDDED CONDUIT. CUT CONDUIT STUB-UP AT FLOOR. RELOCATE THE EXISTING RECEPTACLE AS ILLUSTRATED ON SHEET E102.

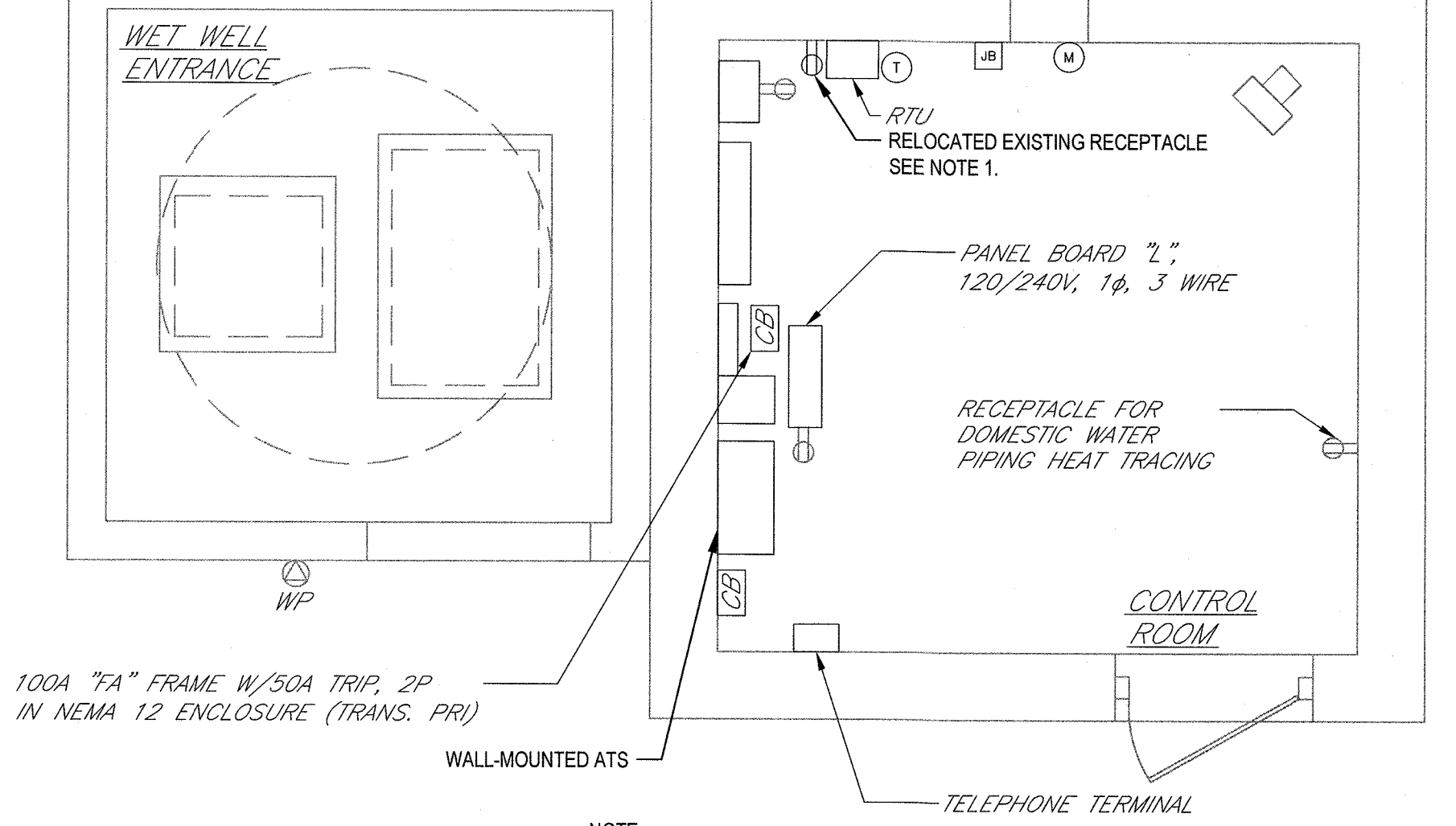
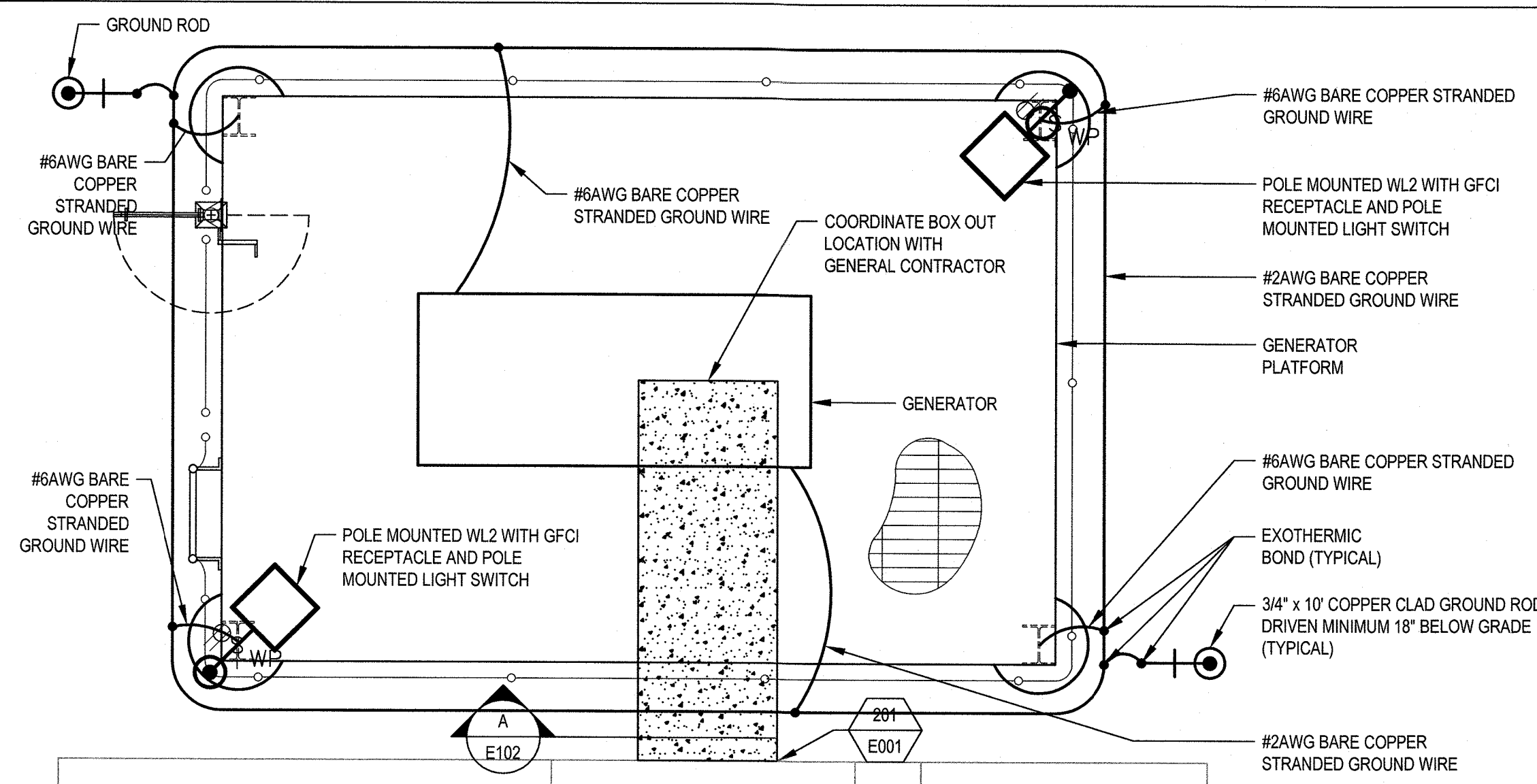


NOTES:

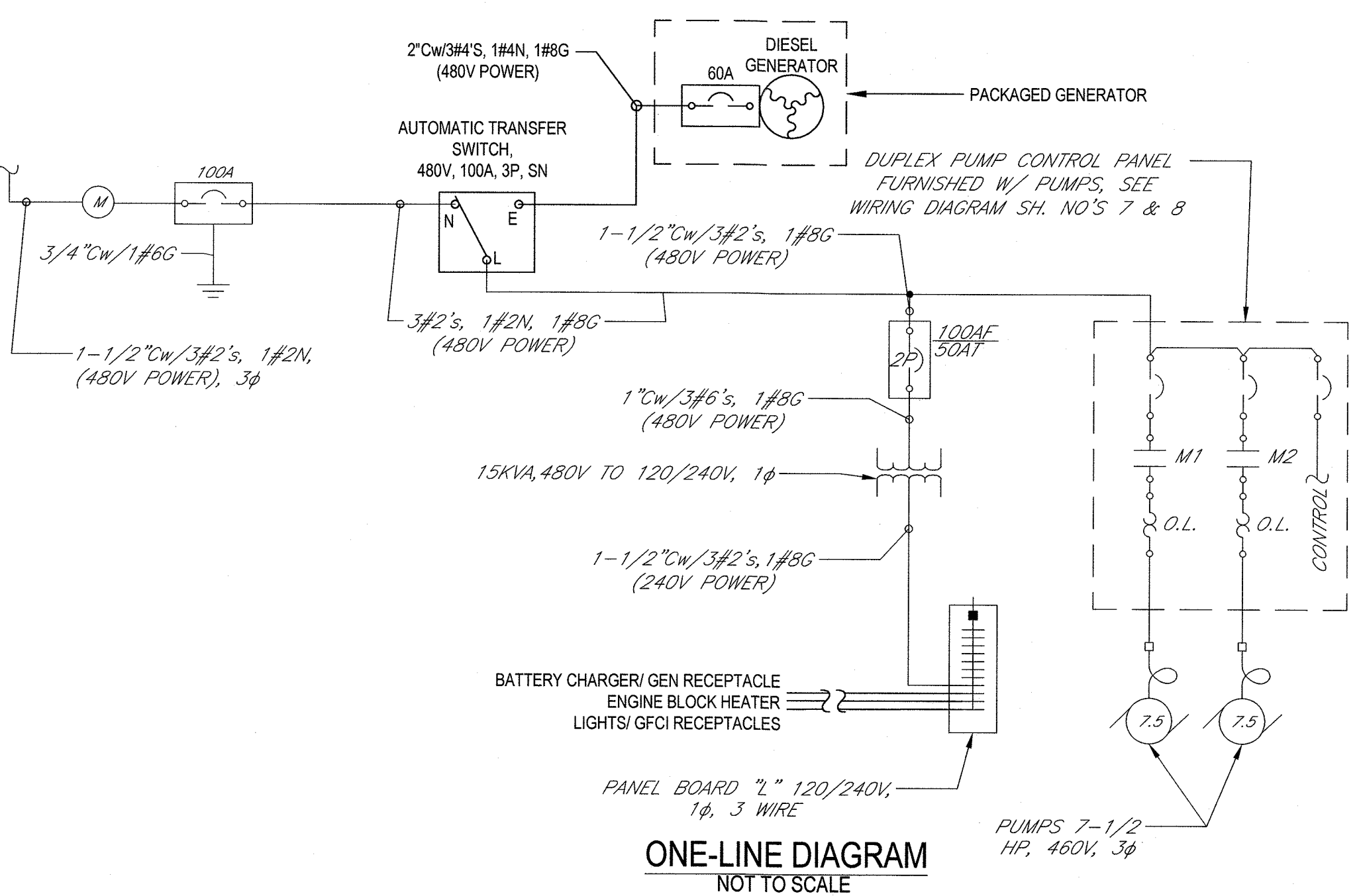
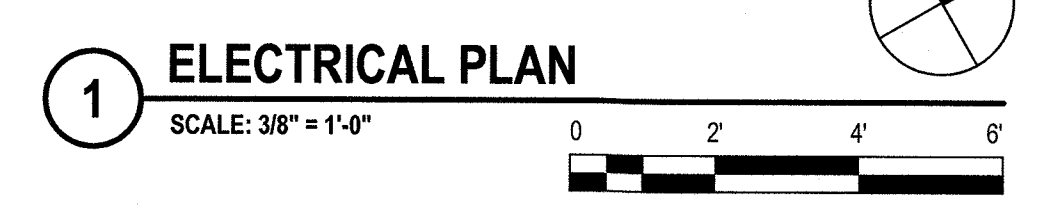
1. DISCONNECT EXISTING ATS CONTACT TO ALLOW THE EXHAUST FAN TO OPERATE BASED UPON TEMPERATURE ONLY.

EXISTING EXHAUST FAN WIRING MODIFICATION DETAIL
NOT TO SCALE

<p>Bar is one inch on original size sheet 0 1"</p>						<p>GHD Inc. 1545 Iyannough Road Hyannis MA 02601 USA T 1 774 470 1630 F 1 774 470 1631 W www.ghd.com</p>		<p>Drawn K. JAMIL Designer K. JAMIL</p> <p>Drafting Check T. DEVINER, WILBUR Design Check T. DEVINER, WILBUR</p> <p>Project Manager Date</p> <p>This document shall not be used for construction unless signed and sealed for construction.</p>		<p>Client TOWN OF WAREHAM</p> <p>Project GENERATOR REPLACEMENT</p> <p>Title SALT WORKS ROAD PUMP STATION ELECTRICAL DEMOLITION</p> <p>Project No. 11206153</p> <p>Original Size Arch D Sheet No. 11206153-E101</p>		<p>Sheet 10 of 13</p>	
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NOTE:
1. DISCONNECT THE RECEPTACLE FROM POWER FEED CONDUIT AND RELOCATE IT TO THE NORTH WALL.



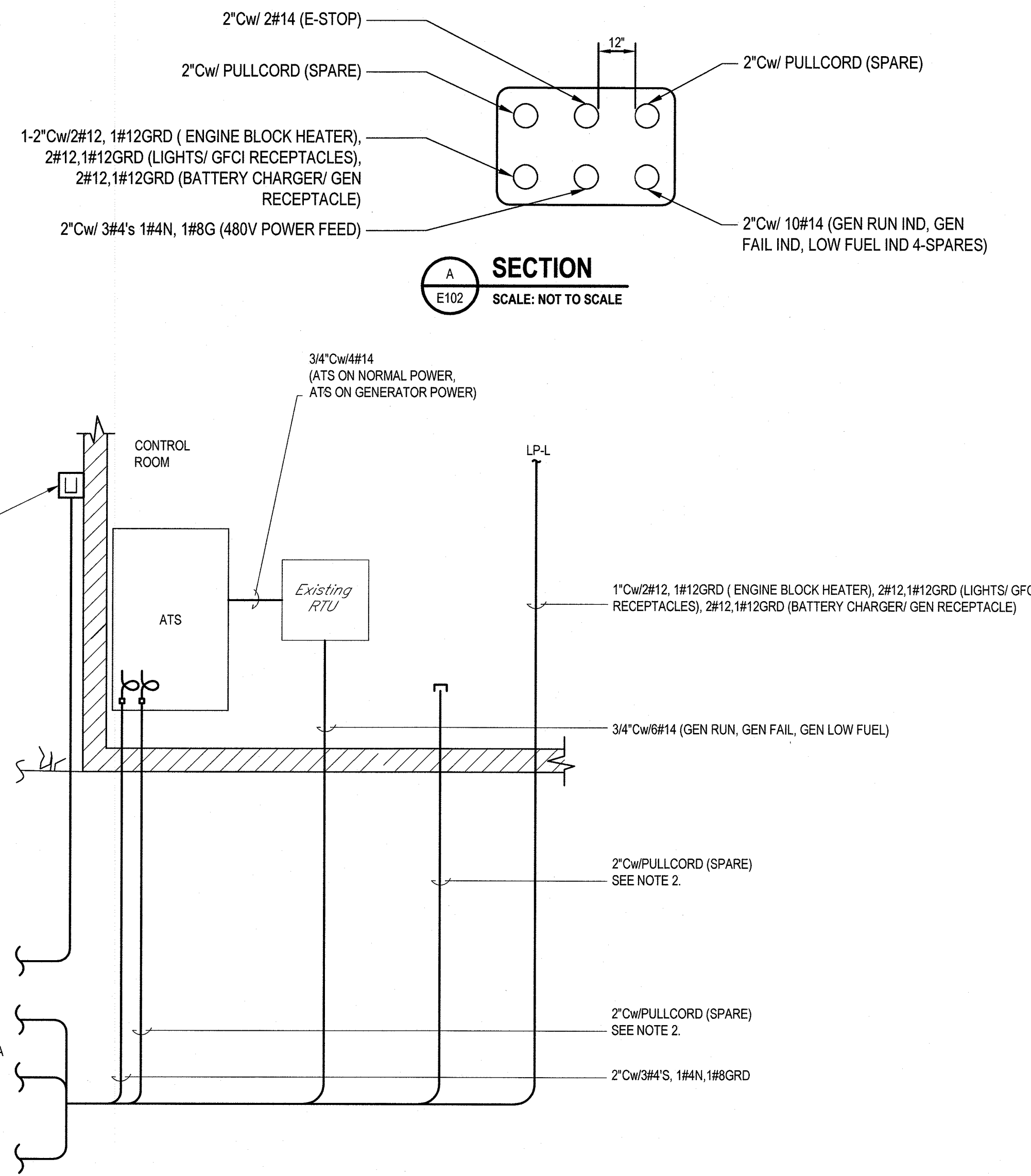
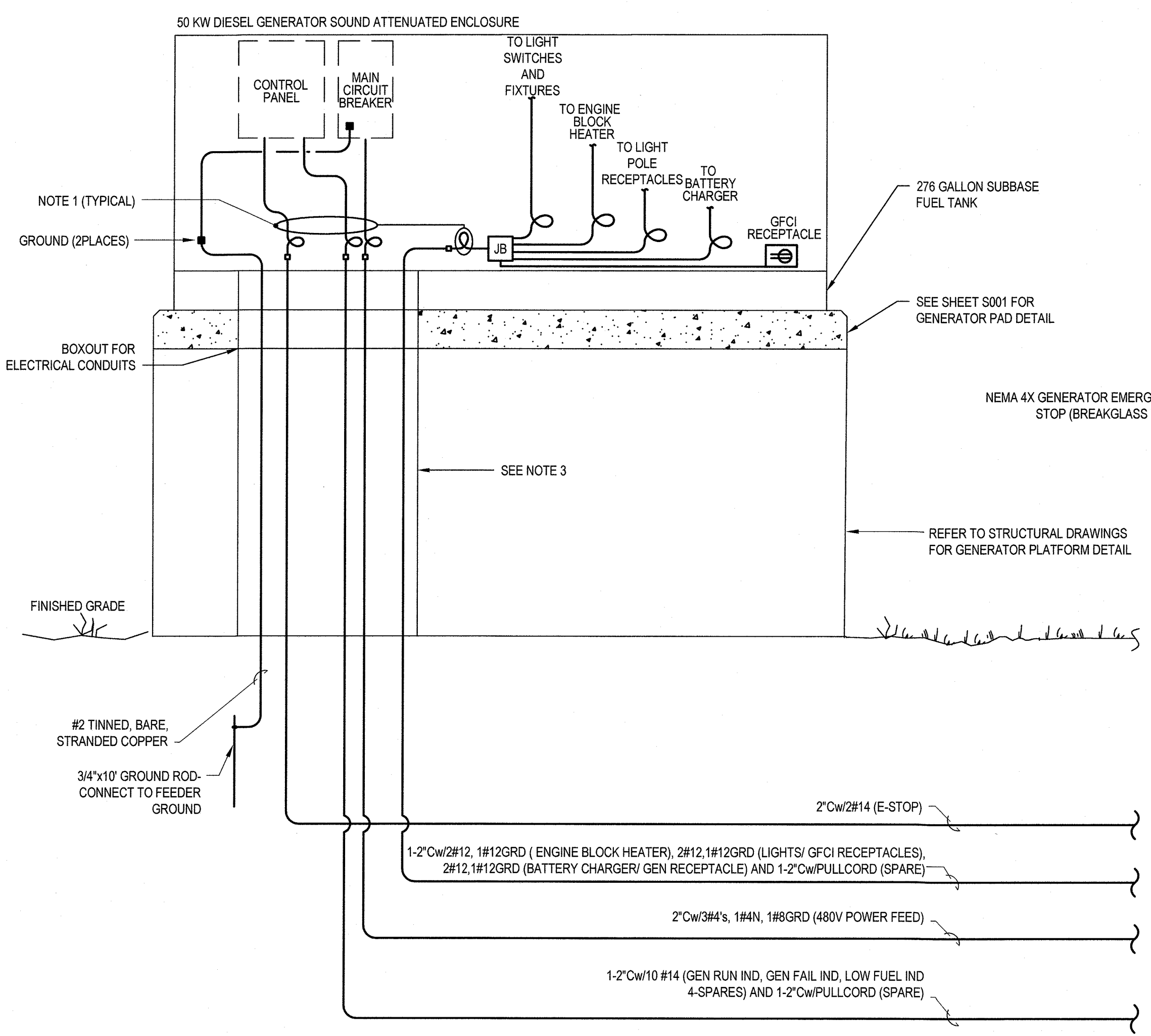
LOCATION: HERRY LANE PUMP STATION, CONTROL ROOM
 MAIN BUS RATINGS: 100 AMP, 120/240 VOLTS, 1 PHASE, 3 WIRE
 MINIMUM SHORTCIRCUIT INTERRUPTION RATING:
 MAIN BREAKER TRIP: 100 AT CONNECTED LOAD:

EXISTING PANELBOARD L SCHEDULE

FED FROM: TRANSFORMER
 INCOMING FEED: 1-1/2\"/>

DESCRIPTION	DIAGRAM/NOTE	LOAD	CB TRIP/POLE	CIR.	A B C	CIR.	CB TRIP/POLE	LOAD	DIAGRAM/NOTE	DESCRIPTION
LIGHTS			20A/1P	1			2	20A/1P		OUTLETS & BATTERY
BATTERY CHARGER/ GEN RECEPTACLE			20A/1P	3			4	20A/1P		WET WELL EXH FAN
W.W. LIGHTS & BLOWER			20A/1P	5			6	25A/1P		EXHAUST FAN
ENGINE BLOCK HEATER			20A/1P	7			8	20A/1P		WATER HEATER
HEATER			30A/2P	9			10	20A/1P	3	LIGHT/ GFCI RECEPTACLES
MAIN BREAKER			100A/2P	11			12			SPACE
				13			14			
				15			16			

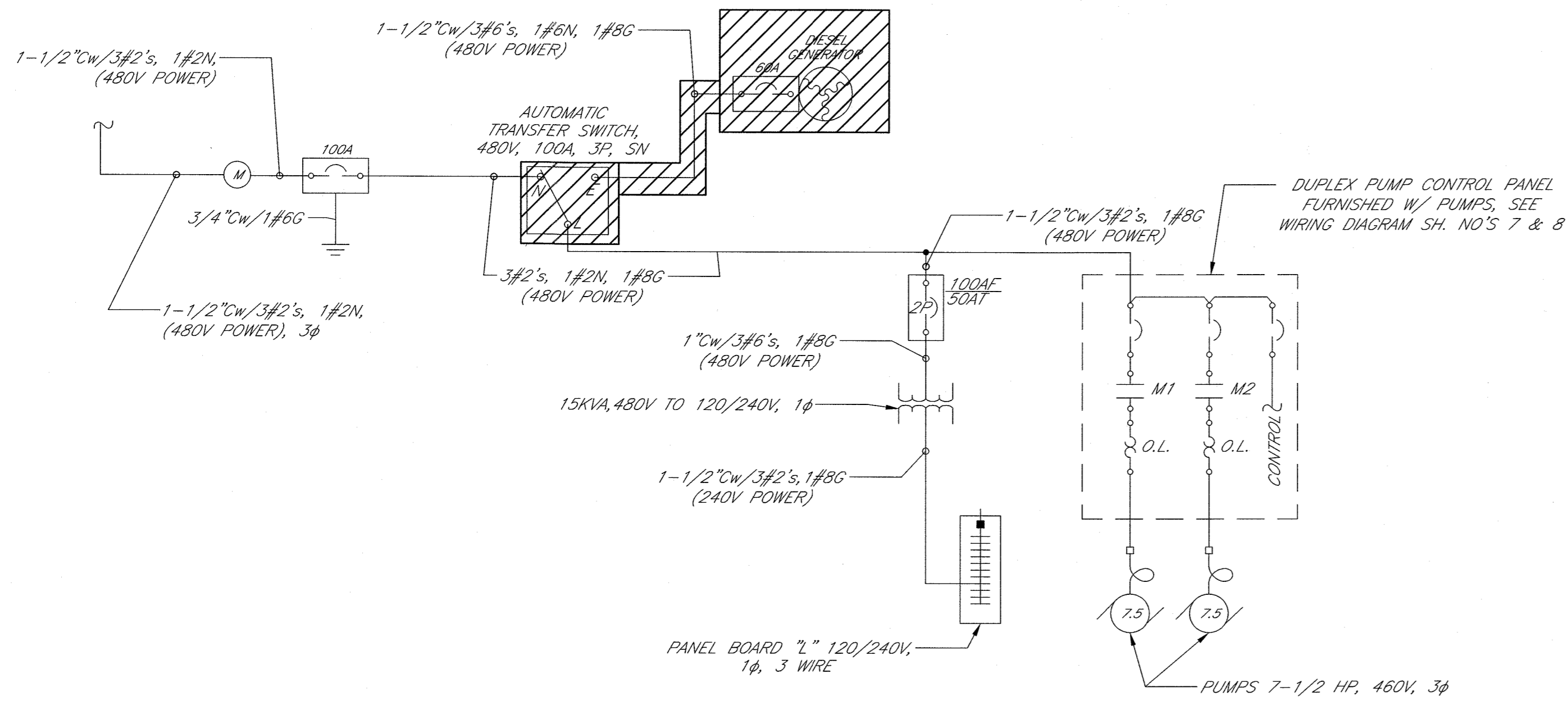
- PANELBOARD GENERAL NOTES:
- EXISTING PANELBOARD: SQUARE D TYPE NQDD PANELBOARD, 100 AMPS, 120/240V, 1φ, 3 WIRE.
 - FOR SINGLE PHASE CIRCUITS - PROVIDE 3/4\"/>
 - PROVIDE A 20A/1P CIRCUIT BREAKER IN THE EXISTING SPACE.



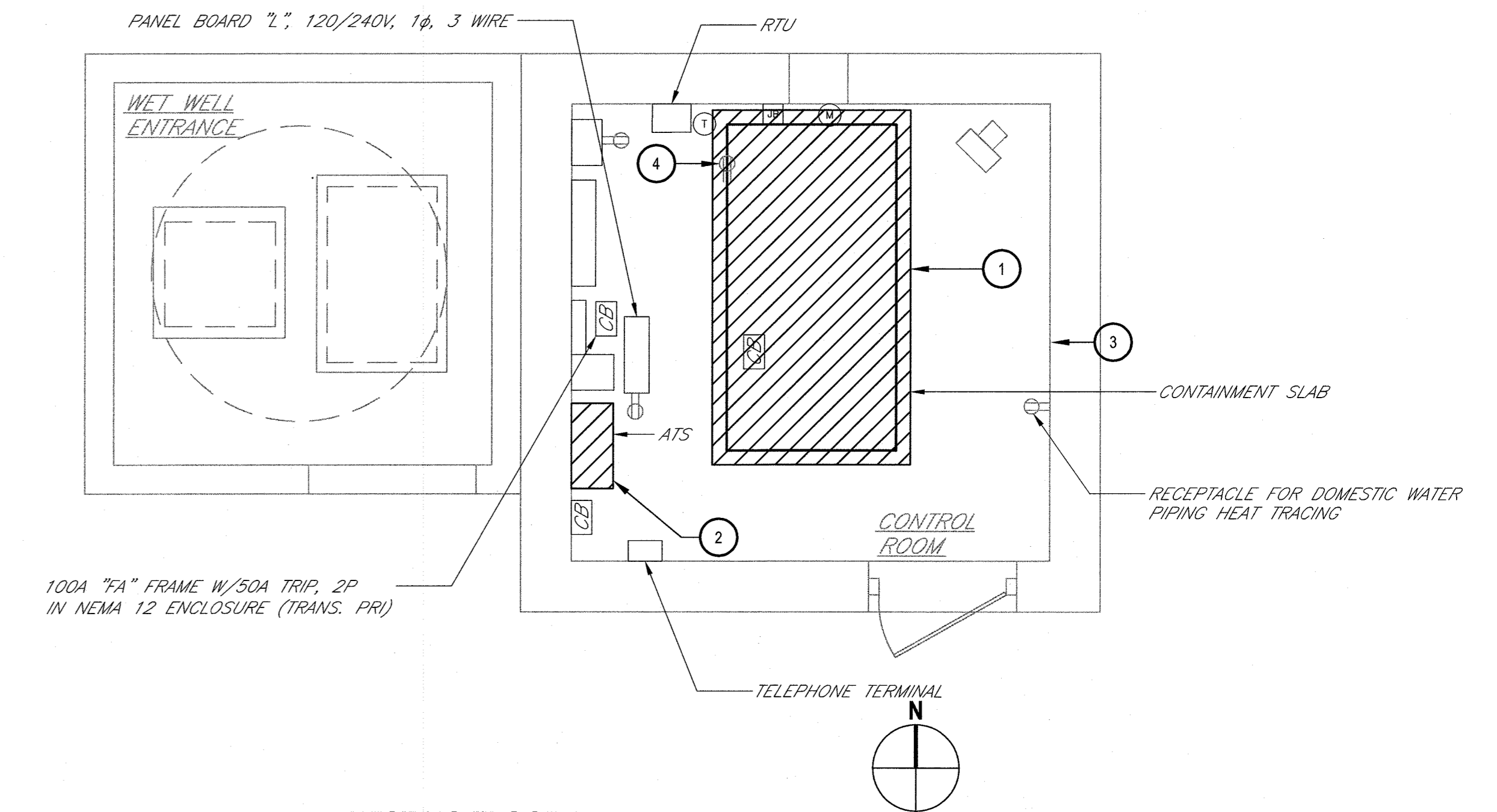
- NOTES:
- PROVIDE FLEXIBLE CONDUIT/CONDUCTORS WITH SUFFICIENT SLACK TO ALLOW UP TO 2-INCHES OF PLATFORM HEAVING/SETTLEMENT DURING FREEZE/THAW PERIODS.
 - TERMINATE AND CAP SPARE CONDUITS APPROX. 24\"/>
 - CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORTS OF CONDUIT RISE IN ACCORDANCE WITH NFPA 70.

GENERATOR ELECTRICAL CONNECTION SCHEMATIC
 NOT TO SCALE

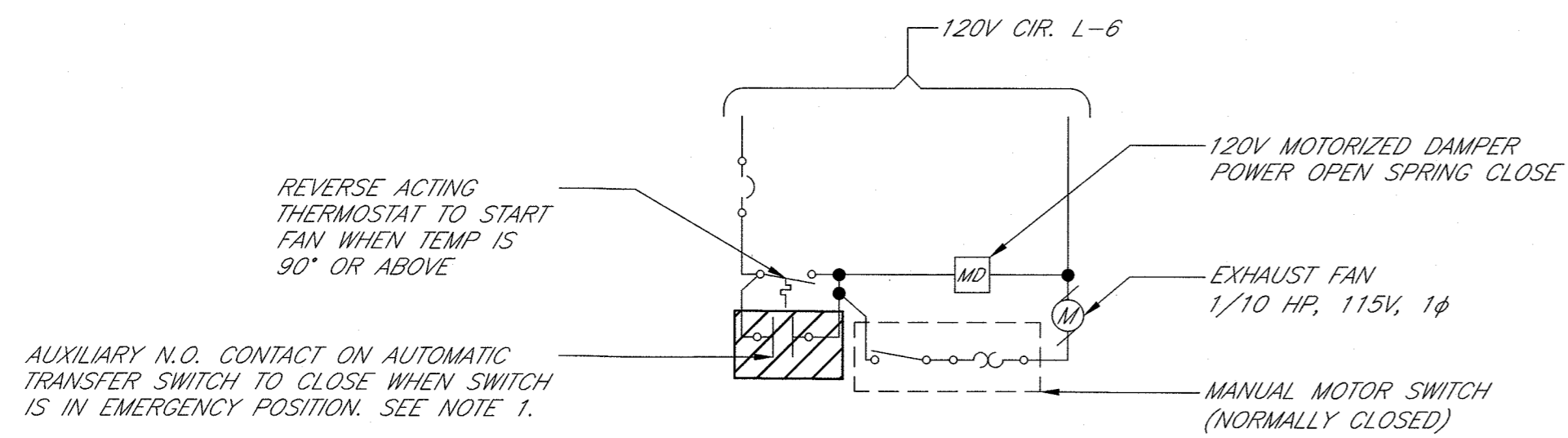
Bar is one inch on original size sheet 0 1"								Drawn K. JAMIL Designer K. JAMIL Drafting Check T. DEVINER/WILBUR Design Check T. DEVINER/WILBUR Project Manager Date Scale AS SHOWN		Client TOWN OF WAREHAM Project GENERATOR REPLACEMENT Title SALT WORKS ROAD PUMP STATION ELECTRICAL PLAN, ONE-LINE DIAGRAM, PANELBOARD AND SCHEMATICS Project No. 11206153 Original Size Arch D Sheet No. 11206153-E102	
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EXISTING ONE-LINE DIAGRAM
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EXISTING FLOOR PLAN
SCALE: 3/8" = 1'-0"



NOTES:

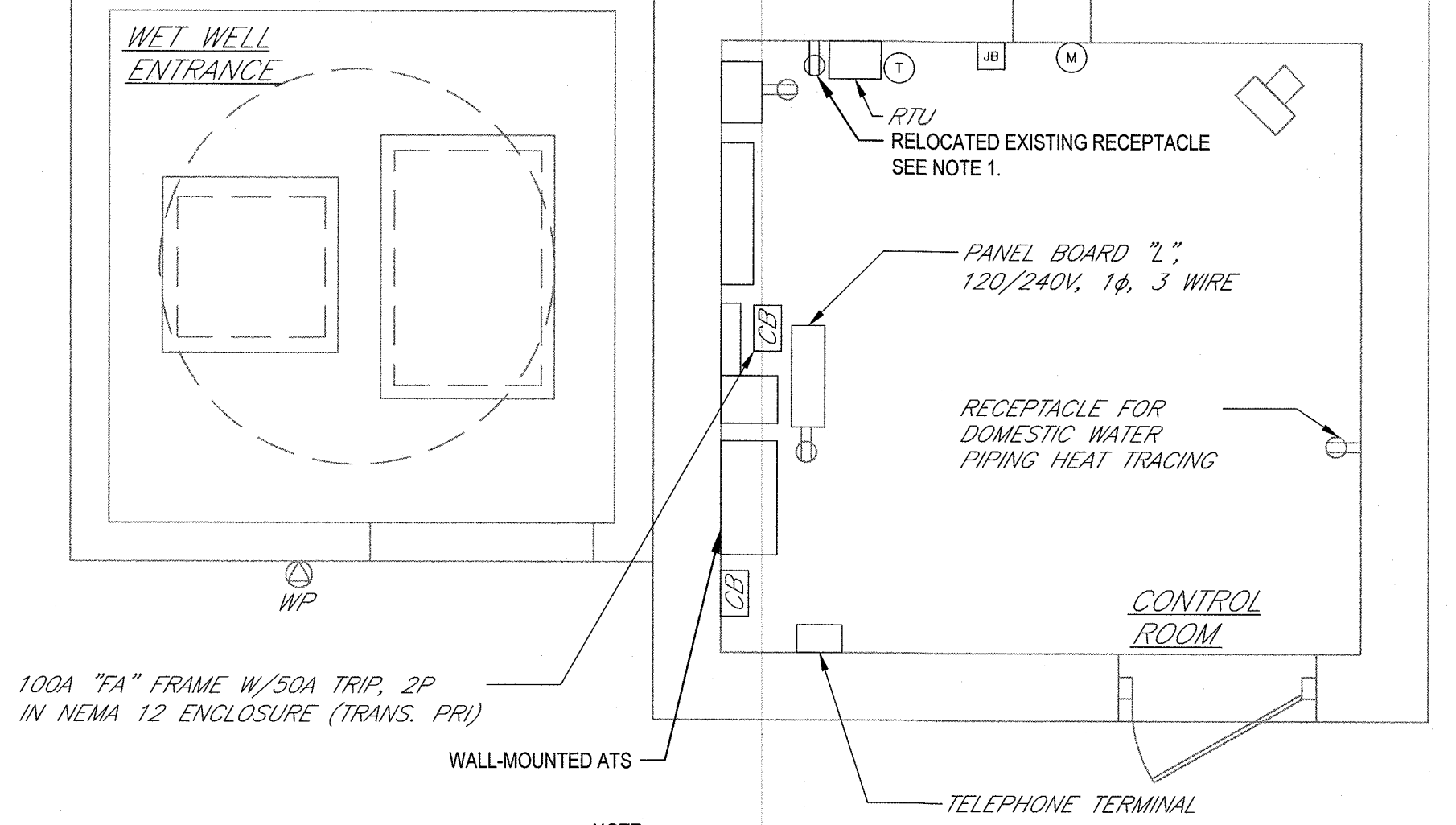
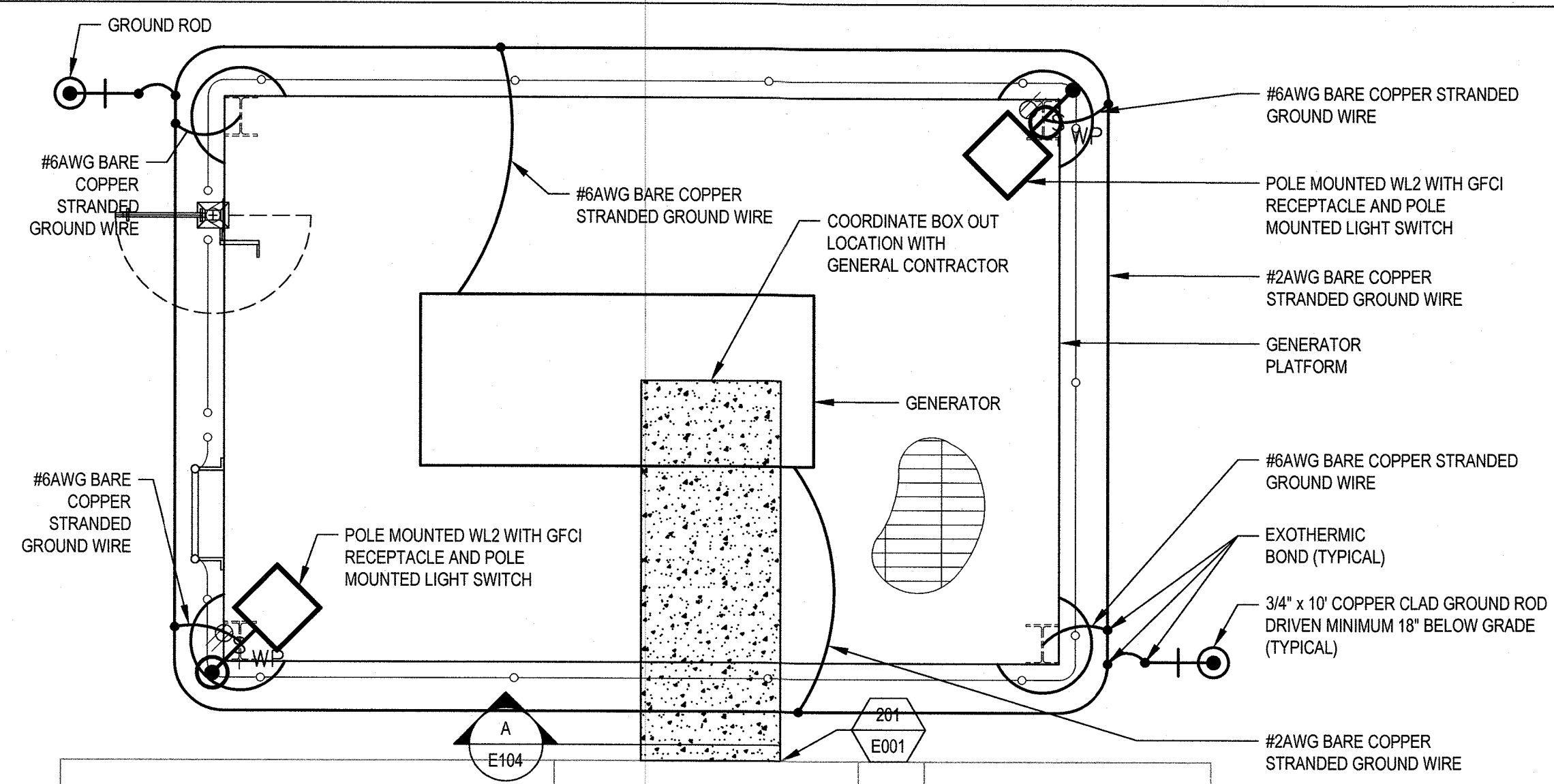
1. DISCONNECT EXISTING ATS CONTACT TO ALLOW THE EXHAUST FAN TO OPERATE BASED UPON TEMPERATURE ONLY.

EXISTING EXHAUST FAN WIRING MODIFICATION DETAIL
NOT TO SCALE

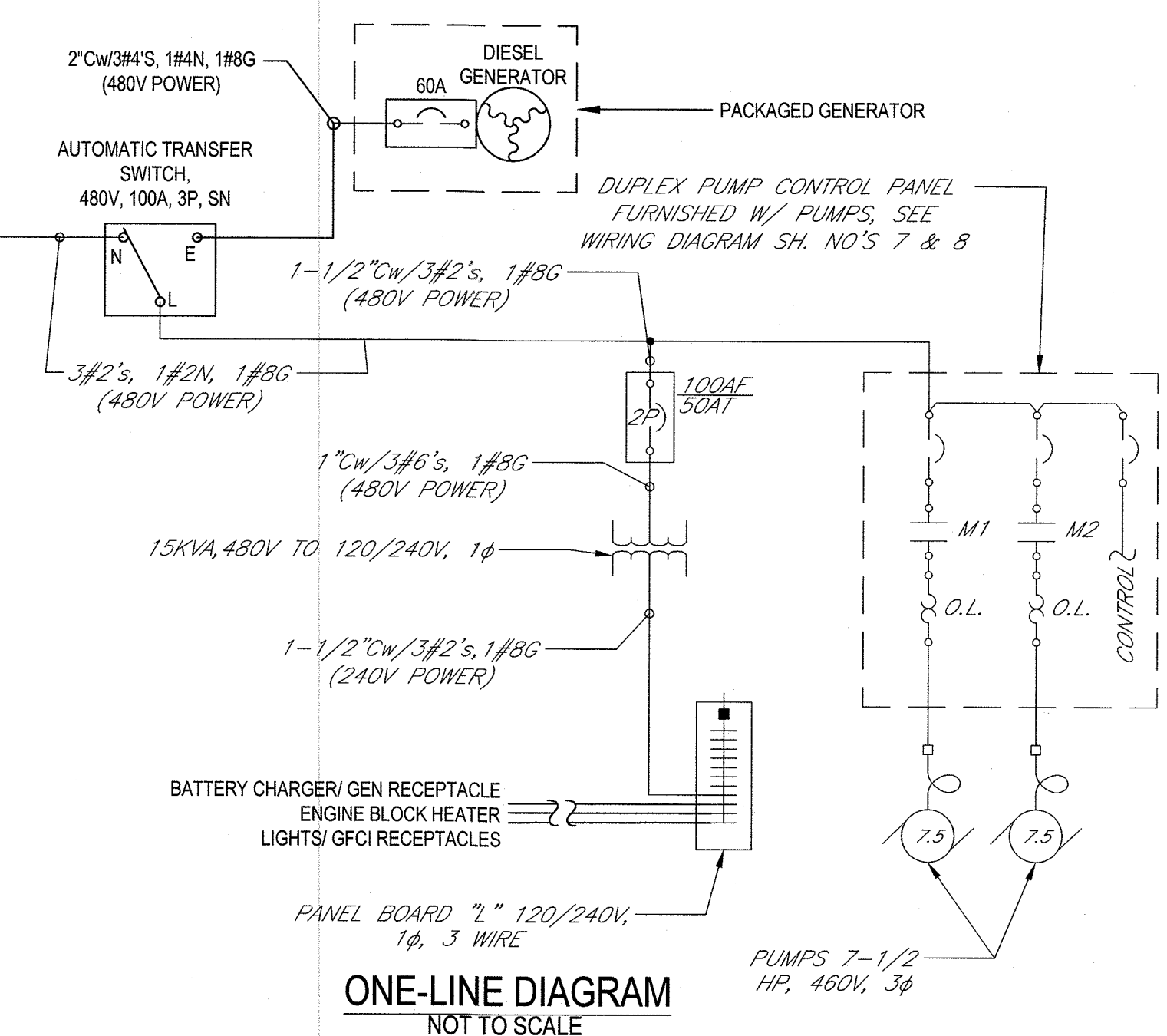
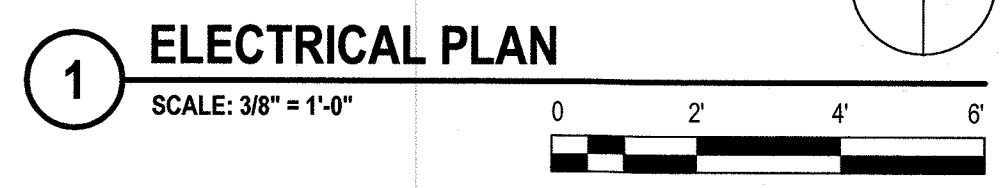
EC DEMOLITION KEYED NOTES:

- 1 DISCONNECT AND REMOVE THE EXISTING GENERATOR AND ALL ASSOCIATED ELECTRICAL DEVICES AND APPURTENANCES INCLUDING ASSOCIATED PIPING, CONDUIT, WIRING AND CONTROL DEVICES BACK TO SOURCE.
- 2 DISCONNECT AND REMOVE THE EXISTING ATS AND ALL ASSOCIATED ELECTRICAL DEVICES AND APPURTENANCES.
- 3 FOR GC WORK SEE SHEET E101.
- 4 REMOVE EXISTING POWER WIRING FROM EMBEDDED CONDUIT. CUT CONDUIT STUB-UP AT FLOOR. RELOCATE THE EXISTING RECEPTACLE AS ILLUSTRATED ON SHEET E102.

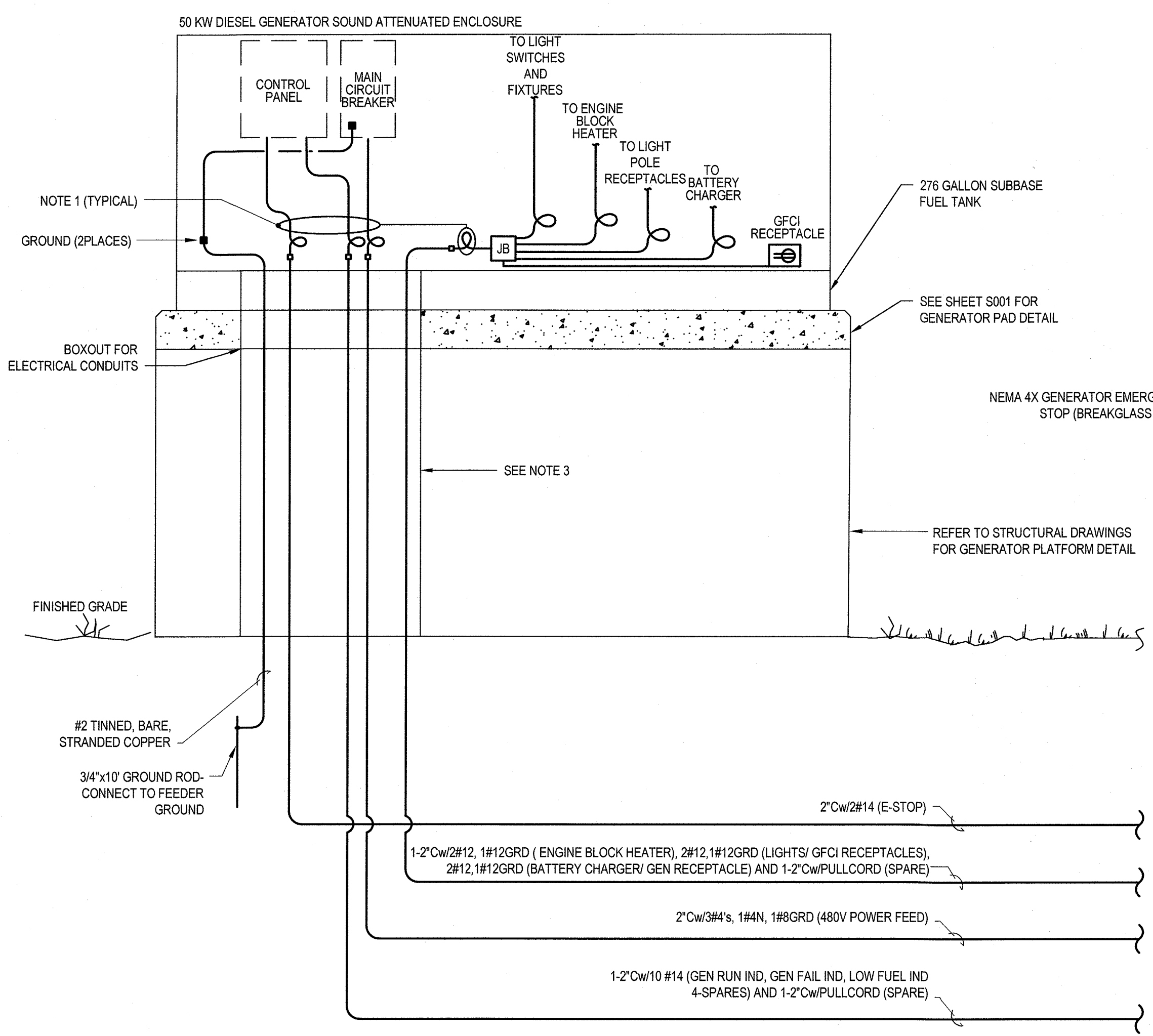
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<p>0 FOR BIDDING AND CONSTRUCTION</p>				<p>Project Manager</p>	<p>Date</p>	<p>Title TERRY LANE PUMP STATION - ELECTRICAL DEMOLITION</p>	
<p>No. Issue Drawn KYJ Approved RHK Date 09/24/2020</p>				<p>This document shall not be used for construction unless signed and sealed for construction.</p>	<p>Scale AS SHOWN</p>	<p>Project No. 11206153 Original Size Arch D Sheet No. 11206153-E103</p>	



NOTE:
1. DISCONNECT THE RECEPTACLE FROM POWER FEED CONDUIT AND RELOCATE IT TO THE NORTH WALL.



ONE-LINE DIAGRAM
NOT TO SCALE



- NOTES:
1. PROVIDE FLEXIBLE CONDUIT/CONDUCTORS WITH SUFFICIENT SLACK TO ALLOW UP TO 2-INCHES OF PLATFORM HEAVING/SETTLEMENT DURING FREEZE/THAW PERIODS.
 2. TERMINATE AND CAP SPARE CONDUITS APPROX. 24" AFF.
 3. CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORTS OF CONDUIT RISE IN ACCORDANCE WITH NFPA 70.

GENERATOR ELECTRICAL CONNECTION SCHEMATIC
NOT TO SCALE

LOCATION: TERRY LANE PUMP STATION, CONTROL ROOM
MAIN BUS RATINGS: 100 AMP, 120/240 VOLTS, 1 PHASE, 3 WIRE
MINIMUM SHORTCIRCUIT INTERRUPTION RATING:
MAIN BREAKER TRIP: 100 AT CONNECTED LOAD.

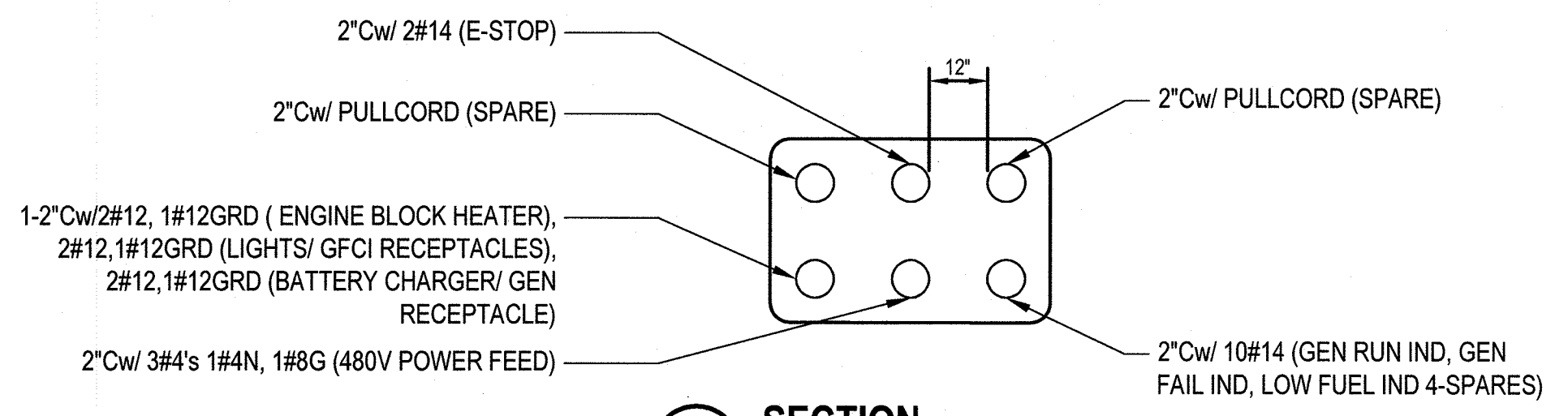
EXISTING PANELBOARD L SCHEDULE

FED FROM: TRANSFORMER
INCOMING FEED: 1-1/2" CW/3#2's, 1#8G (240V POWER)
ENCLOSURE: NEMA 1
* INDICATES GFCI CIRCUIT BREAKER

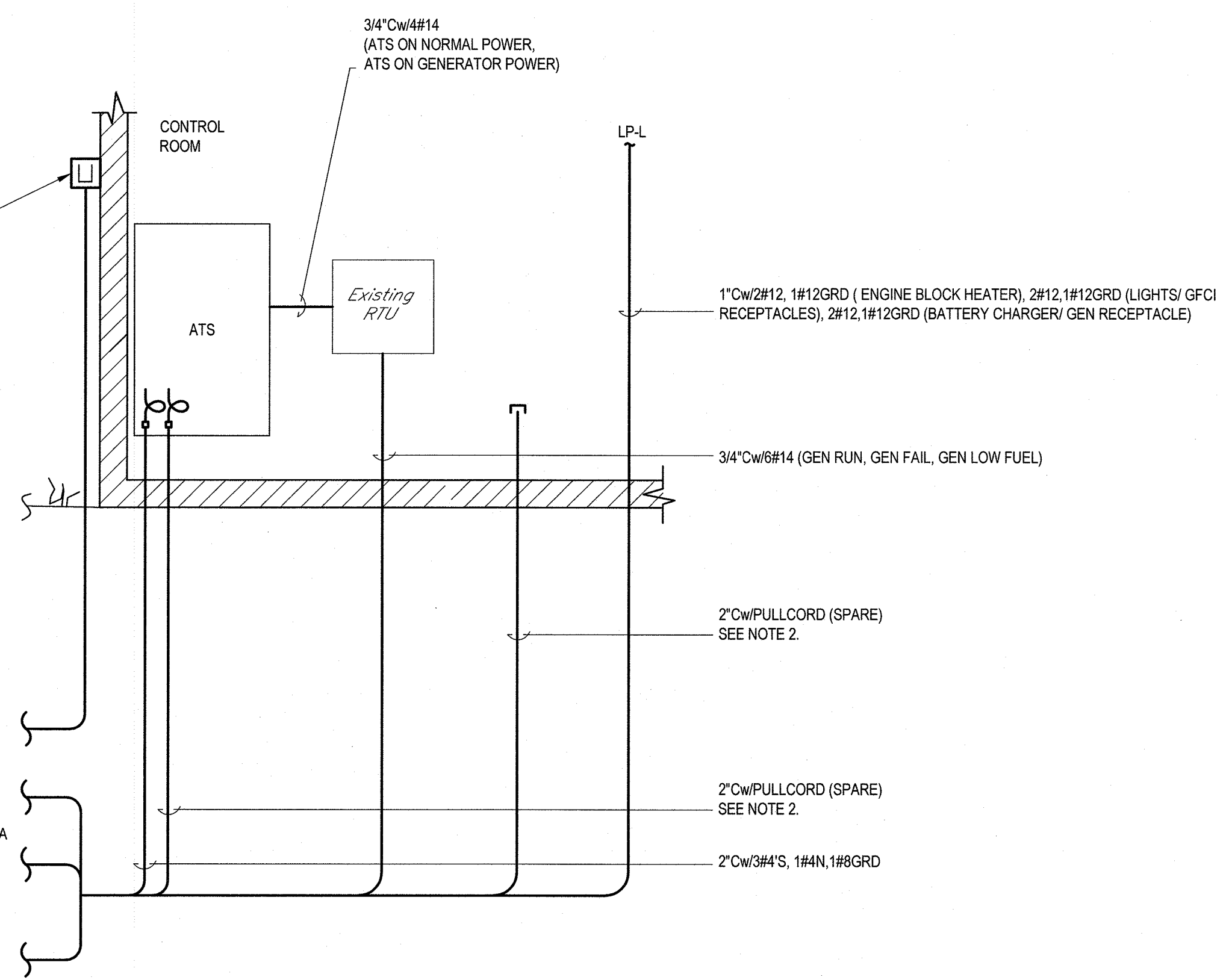
SEE PANELBOARD NOTES ON THIS SHEET

DESCRIPTION	DIAGRAM/NOTE	LOAD	CB TRIP/POLE	CIR.	A B C	CIR.	CB TRIP/POLE	LOAD	DIAGRAM/NOTE	DESCRIPTION
LIGHTS			20A/1P	1			2	20A/1P		OUTLETS & BATTERY
BATTERY CHARGER/ GEN RECEPTACLE			20A/1P	3			4	20A/1P		WET WELL EXH FAN
W.W. LIGHTS & BLOWER			20A/1P	5			6	25A/1P		EXHAUST FAN
ENGINE BLOCK HEATER			20A/1P	7			8	20A/1P		WATER HEATER
HEATER			30A/2P	9			10	20A/1P	3	LIGHTS/ GFCI RECEPTACLES
				11			12			SPACE
				13			14			
MAIN BREAKER			100A/2P	15			16			

- PANELBOARD GENERAL NOTES:
1. EXISTING PANELBOARD: SQUARE D TYPE NQOD PANELBOARD, 100 AMPS, 120/240V, 1φ, 3 WIRE.
 2. FOR SINGLE PHASE CIRCUITS - PROVIDE 3/4" CW #12, #12 GRD FOR 20 AMP CIRCUITS SERVING EQUIPMENT WITHIN 60' OF PANELBOARD. UNLESS OTHERWISE NOTED, INCREASE CONDUIT AND WIRE SIZE IN ACCORDANCE WITH SPEC. SECTION 16055 AND THE N.E.C. FOR LONGER CIRCUITS OR CIRCUITS MORE THAN 20 AMPS.
 3. PROVIDE A 20A/1P CIRCUIT BREAKER IN THE EXISTING SPACE.



SECTION
A
E104
SCALE: NOT TO SCALE



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<p>0 FOR BIDDING AND CONSTRUCTION</p>		<p>KYJ RHK 09/24/2020</p>		<p>Drawn: Approved: Date:</p>		<p>Scale: AS SHOWN</p>		<p>Sheet No. 13 of 13</p>			