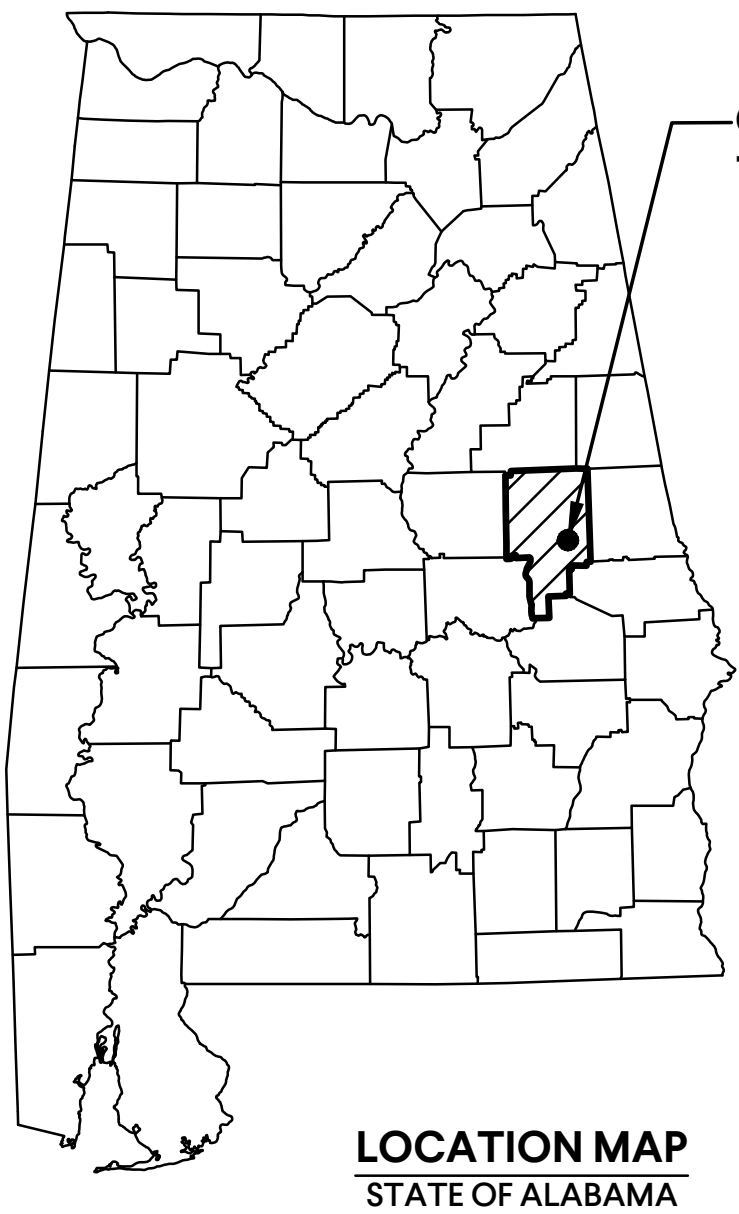


2022 CWSRF SANITARY SEWER SYSTEM LIFT STATION UPGRADES

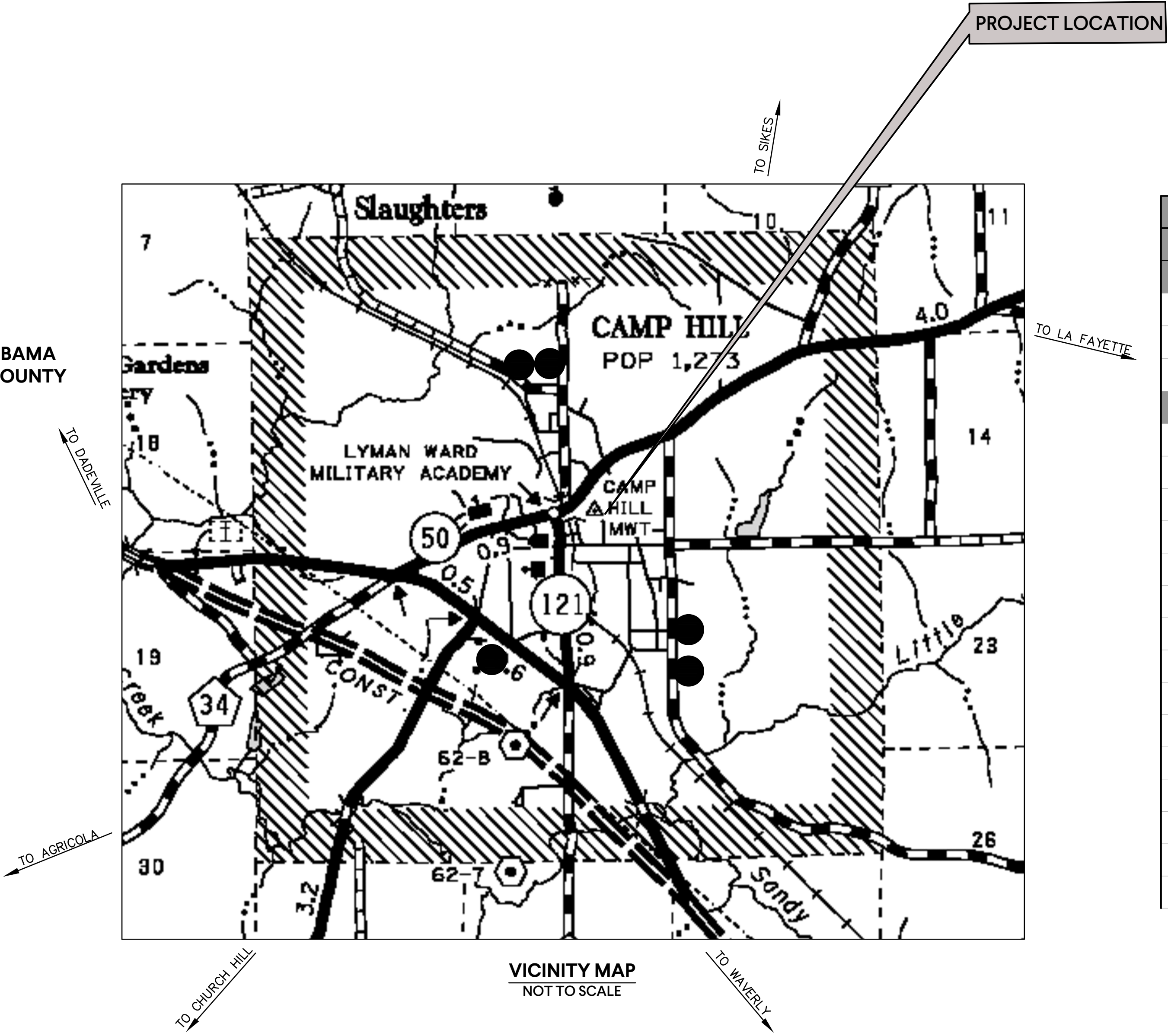
GMC PROJECT NO. CMGM 22-0156(2)
CWSRF PROJECT NO. CS010915-01



TOWN OF CAMP HILL
TALLAPOOSA COUNTY, AL



CAMP HILL, ALABAMA
TALLAPOOSA COUNTY



DRAWING INDEX		
SHT #	SEQ. #	SHEET TITLE
GENERAL		
1	G-001	INDEX TO DRAWINGS, VICINITY MAP & LOCATION MAP
2	G-002	PROJECT NOTES & SYMBOLS LEGEND
3	G-003	OVERALL PROJECT MAP
CIVIL		
4	C-301	LIFT STATION #1 & #3 DEMO PLAN & SITE PLAN
5	C-302	LIFT STATION #4 & #5 DEMO PLAN & SITE PLAN
6	C-303	LIFT STATION #9 DEMO PLAN & SITE PLAN
7	C-901	LIFT STATION #3 DETAILS
8	C-902	TRAFFIC CONTROL DETAILS
9	E-001	ELECTRICAL NOTES, ABBREVIATIONS, & LEGEND
10	E-002	LIFT STATIONS #1, #2, #6, #7, #8 ELECTRICAL WORK
11	E-101	LIFT STATION #3 ELECTRICAL SITE PLAN
12	E-102	LIFT STATION #3 ELECTRICAL RISER DIAGRAM & DETAILS
13	E-103	LIFT STATION #4 ELECTRICAL SITE PLAN
14	E-104	LIFT STATION #4 ELECTRICAL RISER DIAGRAM & DETAILS
15	E-105	LIFT STATION #5 ELECTRICAL SITE PLAN
16	E-106	LIFT STATION #5 ELECTRICAL RISER DIAGRAM & DETAILS
17	E-107	LIFT STATION #9 ELECTRICAL SITE PLAN
18	E-108	LIFT STATION #9 ELECTRICAL RISER DIAGRAM & DETAILS

DECEMBER 2023



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ISSUE DATE

ISSUE DATE
Prelim 22 Aug 2023
Final 22 Dec 2023

DRAWN BY: jpd

CHECKED BY: tvc

SANITARY SEWER SYSTEM
LIFT STATION UPGRADES
TOWN OF CAMP HILL

CMGM 22-0156(2)

Construction Drawings



COVER SHEET

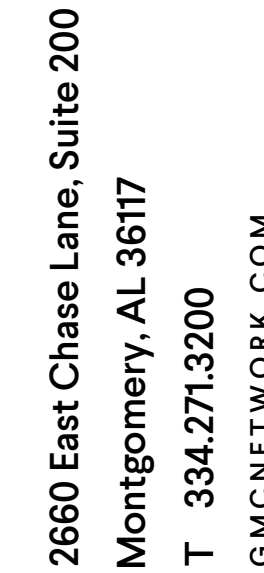
G-001
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- THE ENGINEER WILL PROVIDE AN PROJECT REPRESENTATIVE TO BE AVAILABLE. THE PROJECT REPRESENTATIVE CAN BE REACHED AT (334) 271-3200, 2660 EASTCHASE LANE, SUITE 200, MONTGOMERY, ALABAMA 36117.
2. THE PROJECT REPRESENTATIVE WILL HAVE ON HANDS, AT ALL TIMES (1) APPROVED PERMIT, (2) PLANS AND SPECIFICATIONS, (3) A COPY OF PART VI OF THE MUTCD, (4)TRAFFIC CONTROL PLAN.
3. CALL ALABAMA LINE LOCATE CENTER.
4. DO NOT DISTURB SURVEY MARKER.
5. THE LOCATION AND SIZE OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND VERIFY LOCATION OF ANY AND ALL SUBSURFACE UTILITY LINES PRIOR TO STARTING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
6. ANY SOLID WASTE ENCOUNTERED DURING CONSTRUCTION (I.E., WOOD, STUMPS, ETC.) MUST BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. (ADEM)
7. CONTRACTOR SHALL MINIMIZE THE DISTURBANCE TO ANY EXISTING LANDSCAPING AND TREES.
8. CONTRACTOR SHALL SAW CUT EXISTING TREE ROOTS ON TREES THAT WILL BE RETAINED DURING CONSTRUCTION TO MINIMIZE THE DISTURBANCE TO THE TREES.
9. ANY LANDSCAPING (SHRUBS, FLOWERS, ORNAMENTAL GRASS, ETC.) DISTURBED WITHIN THE TEMPORARY CONSTRUCTION EASEMENT DURING CONSTRUCTION SHALL BE REPLACED AND OR TRANSPLANTED, AND RESTORED TO PRE-CONSTRUCTION CONDITIONS.
10. ANY PROPERTY CORNERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN, WHICH WILL BE IN ACCORDANCE WITH "BEST MANAGEMENT PRACTICES", BEFORE ANY WORK COMMENCES AND THESE PLANS SHALL BE APPROVED BY THE OWNER.
12. COMBINATIONS OF SILT FENCING AND HAY BALES SHALL BE USED AS PROJECT CONDITIONS WARRANT TO PREVENT SEDIMENT RUNOFF FROM REACHING CREEKS & STREAMS WITHIN THE PROJECT AREA.

EXISTING BENDS	
EXISTING CABLE: MARKER	
EXISTING CABLE: OVERHEAD	
EXISTING CENTERLINE	
EXISTING CONCRETE MONUMENT	
EXISTING CREEK OR DITCH	
EXISTING CULVERT	
EXISTING EASEMENT	
EXISTING ELECTRICAL: BURIED	
EXISTING ELECTRICAL: OVERHEAD	
EXISTING FENCE: BARB WIRE	
EXISTING FENCE: CHAIN LINK	
EXISTING FENCE: WOOD	
EXISTING FIBER OPTIC: BURIED	
EXISTING FIBER OPTIC MARKER	
EXISTING FIRE HYDRANT ASSEMBLY	
EXISTING FLUSH HYDRANT	
EXISTING GAS MAIN	
EXISTING GAS MARKER	
EXISTING GAS METER	
EXISTING GAS VALVE	
EXISTING GAS VENT	
EXISTING GRATE INLET	
EXISTING GUY WIRE	
EXISTING IRON PIN	
EXISTING LIGHT POLE	
EXISTING NAIL SET	
EXISTING POWER BOX	
EXISTING POWER POLE	
EXISTING PROPERTY LINE	
EXISTING RAIL ROAD TRACKS	
EXISTING REDUCER	
EXISTING R.O.W.	
EXISTING SANITARY SEWER CLEAN OUT	
EXISTING SANITARY SEWER FORCE MAIN	
EXISTING SANITARY SEWER MANHOLE	
EXISTING SANITARY SEWER LINE	
EXISTING SANITARY SEWER VALVE	
EXISTING SIGN	
EXISTING TELEPHONE: BURIED	
EXISTING TELEPHONE MANHOLE	
EXISTING TELEPHONE PEDESTAL	
EXISTING TELEPHONE POLE	
EXISTING TREE	
EXISTING TREE LINE	
EXISTING WATER MAIN	
EXISTING WATER METER	
EXISTING WATER VALVE	
EXISTING WELL	

REQUIRED AIR RELEASE VALVE	
REQUIRED BENDS	
REQUIRED BORE CROSSING	
REQUIRED BURIED ELECTRICAL	
REQUIRED CURE IN PLACE PIPING (CIPP)	
REQUIRED FENCE	
REQUIRED FIRE HYDRANT ASSEMBLY	
REQUIRED FLUSH HYDRANT	
REQUIRED FORCE MAIN	
REQUIRED GAS METER	
REQUIRED GAS VALVE	
REQUIRED GRATE INLET	
REQUIRED GRAVITY LINE WITH MANHOLE	
REQUIRED OPEN/CUT PAVEMENT PATCH	
REQUIRED PERMANENT EASEMENT	
REQUIRED PROPERTY LINE	
REQUIRED REDUCER	
REQUIRED TAP SLEEVE & VALVE	
REQUIRED TEMPORARY EASEMENT	
REQUIRED WATER MAIN	
REQUIRED WATER METER	
REQUIRED WATER VALVE	
REQUIRED CCTV INSPECTION	

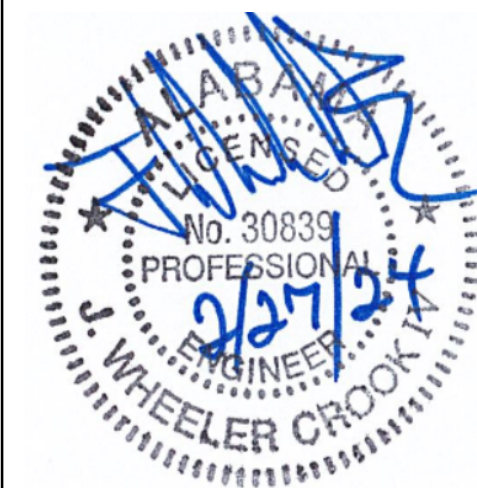
1. UTILITIES INDICATED ON THE DRAWING ARE SHOWN AS EVIDENT BY SURFACE INVESTIGATION AND ARE PROVIDED FOR GENERAL INFORMATION ONLY. THE CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES AND VERIFY LOCATION OF ANY AND ALL SUBSURFACE UTILITY LINES PRIOR TO STARTING WORK.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND RESET FENCING TO ORIGINAL CONDITION WHERE REQUIRED AT NO ADDITIONAL COST.
3. 3' MINIMUM DISTANCE REQUIRED BETWEEN EXISTING UTILITY MAIN AND REQ'D UTILITY MAIN UNLESS OTHERWISE NOTED.
4. EXACT LOCATION OF AIR RELEASE VALVES TO BE DETERMINED IN THE FIELD BY THE ENGINEER UNLESS OTHERWISE NOTED.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR AND GRUB AS NECESSARY TO INSTALL THE NEW PIPELINE.



ISSUE	DATE
ISSUE DATE	
Prelim	22 Aug 2023
Final	22 Dec 2023
DRAWN BY:	jap
CHECKED BY:	wc

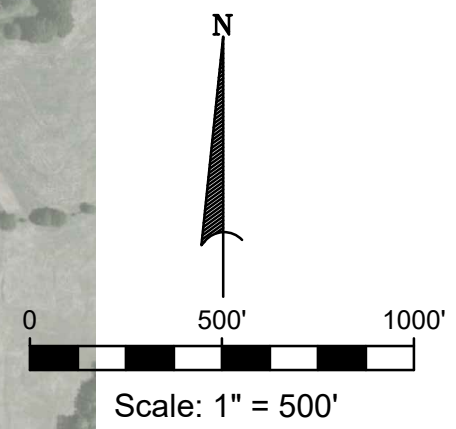
**SANITARY SEWER SYSTEM
LIFT STATION UPGRADES**
TOWN OF CAMP HILL

CMGM 22-0156(2)
Scale:
Construction Drawings



Project Notes & Legend

G-002



Overall Map

G-003
sheet of _____



**SANITARY SEWER SYSTEM
LIFT STATION UPGRADES**
TOWN OF CAMP HILL

CMGM 22-0156(2)

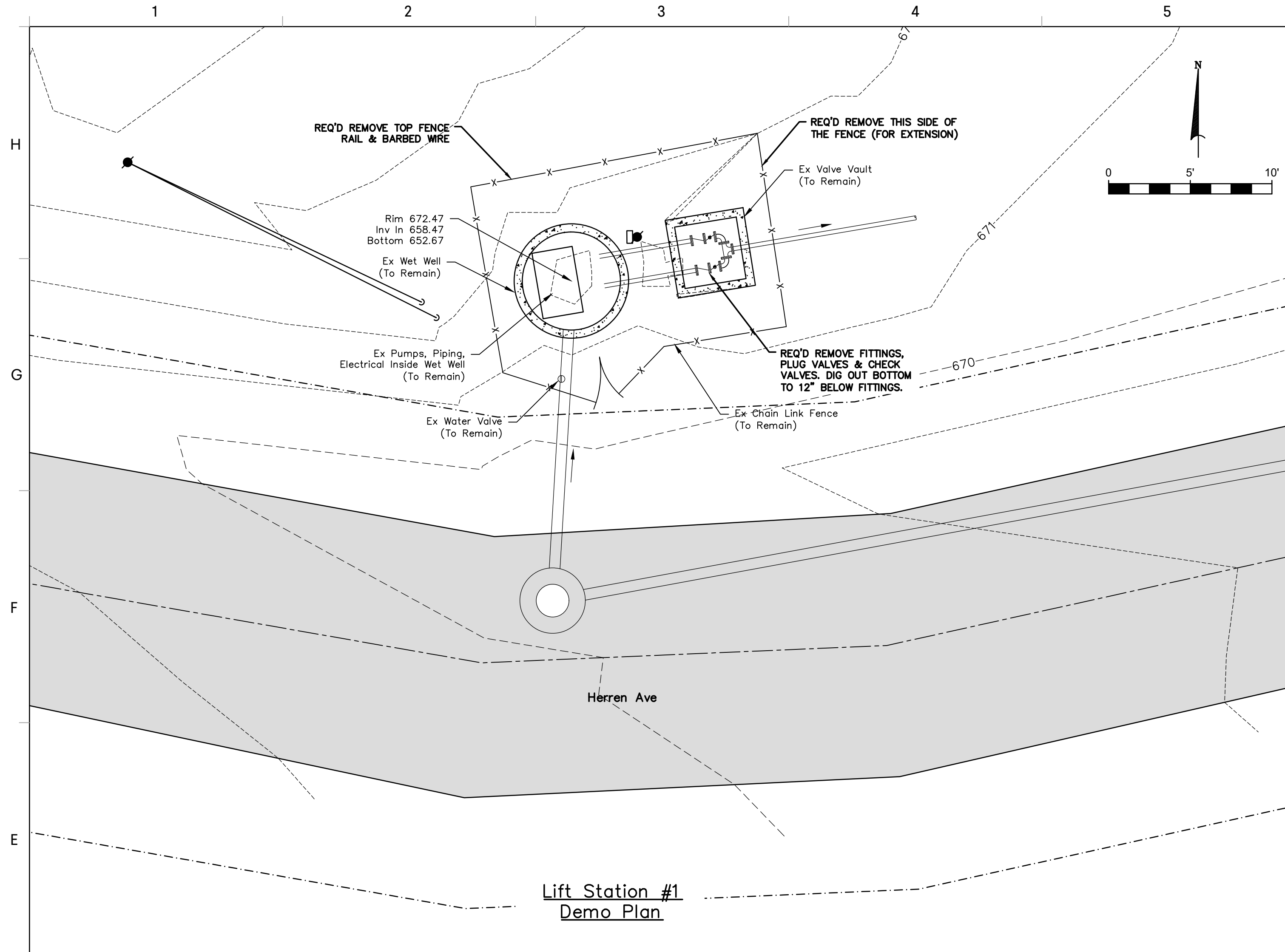
Construction Drawings

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DRAWN BY: jap	

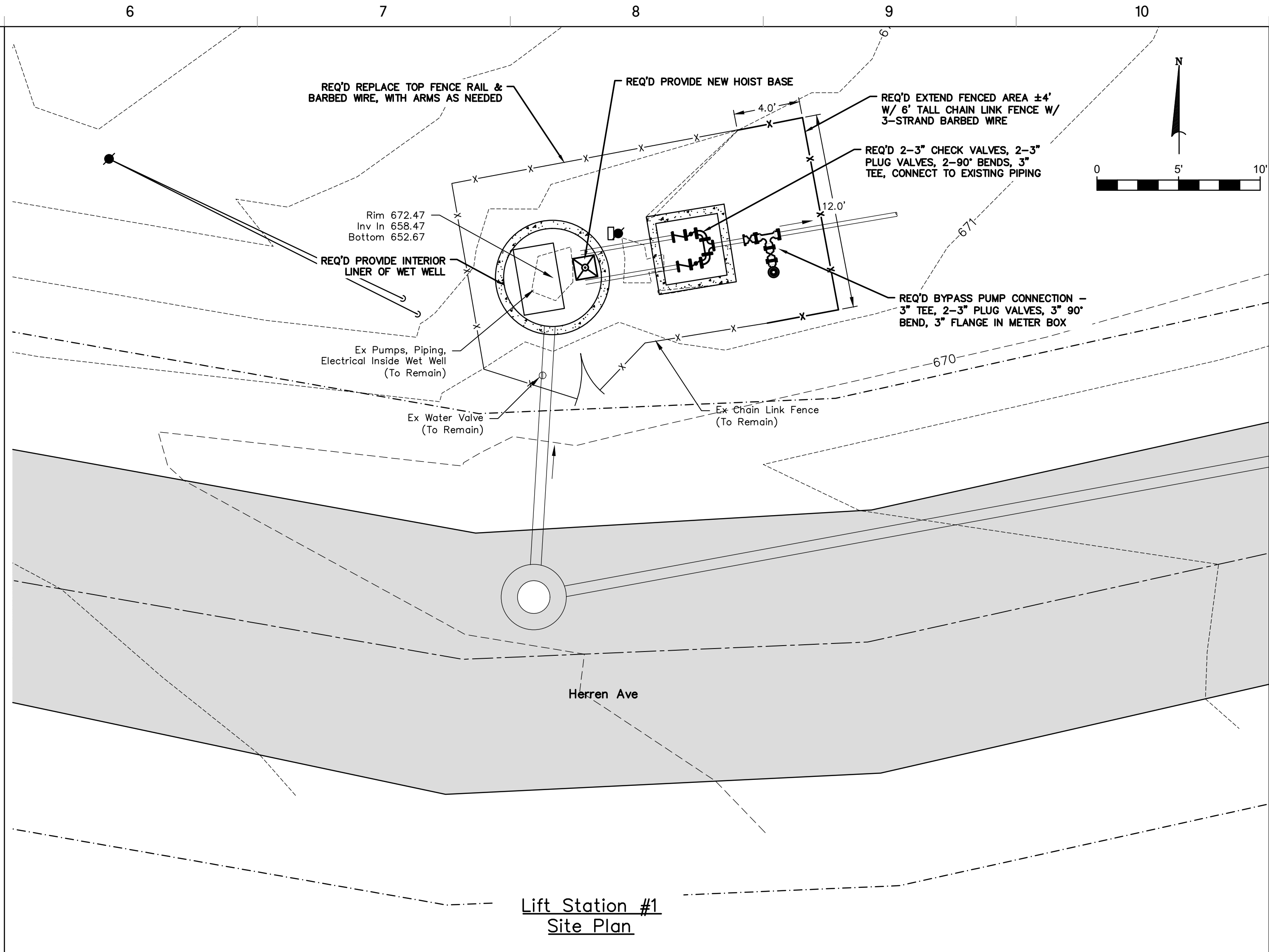
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GNC

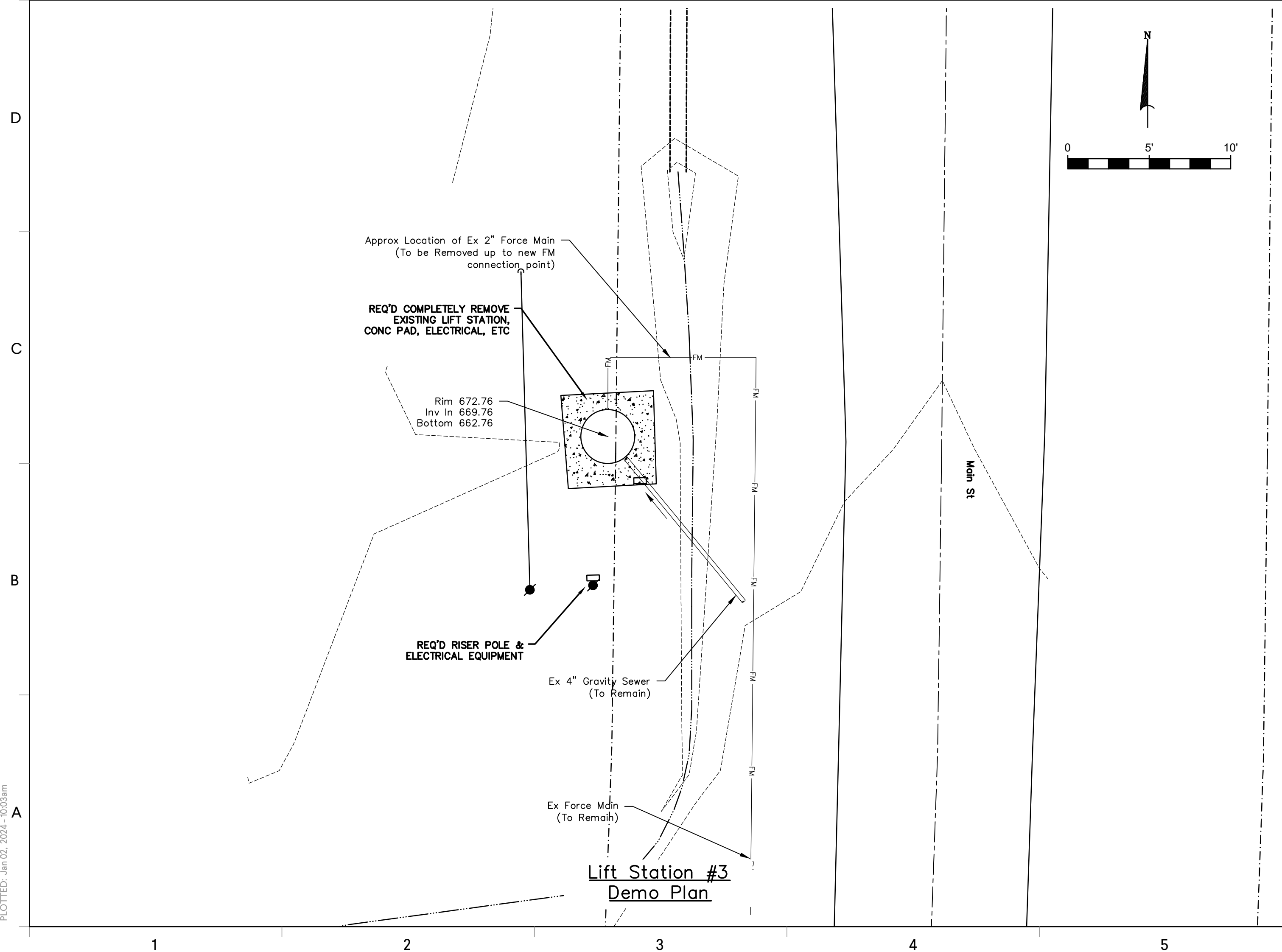
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PLOTTED: Jan 02, 2024 - 10:03am



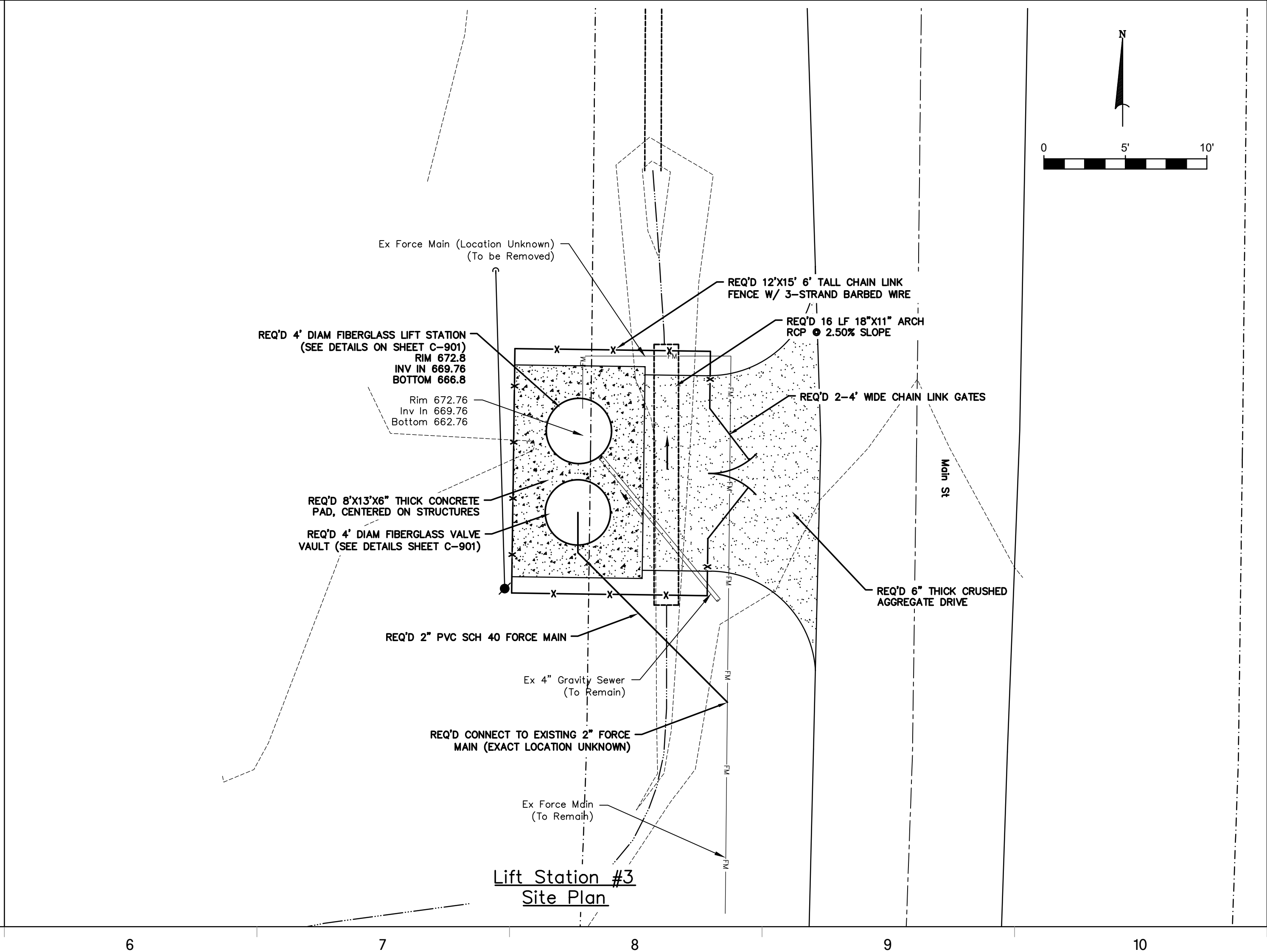
Lift Station #1
Demo Plan



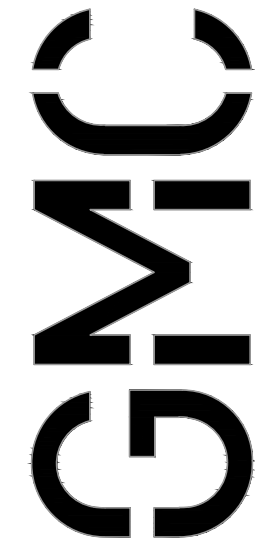
Lift Station #1
Site Plan



Lift Station #3
Demo Plan



Lift Station #3
Site Plan



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SANITARY SEWER SYSTEM
LIFT STATION UPGRADES

TOWN OF CAMP HILL

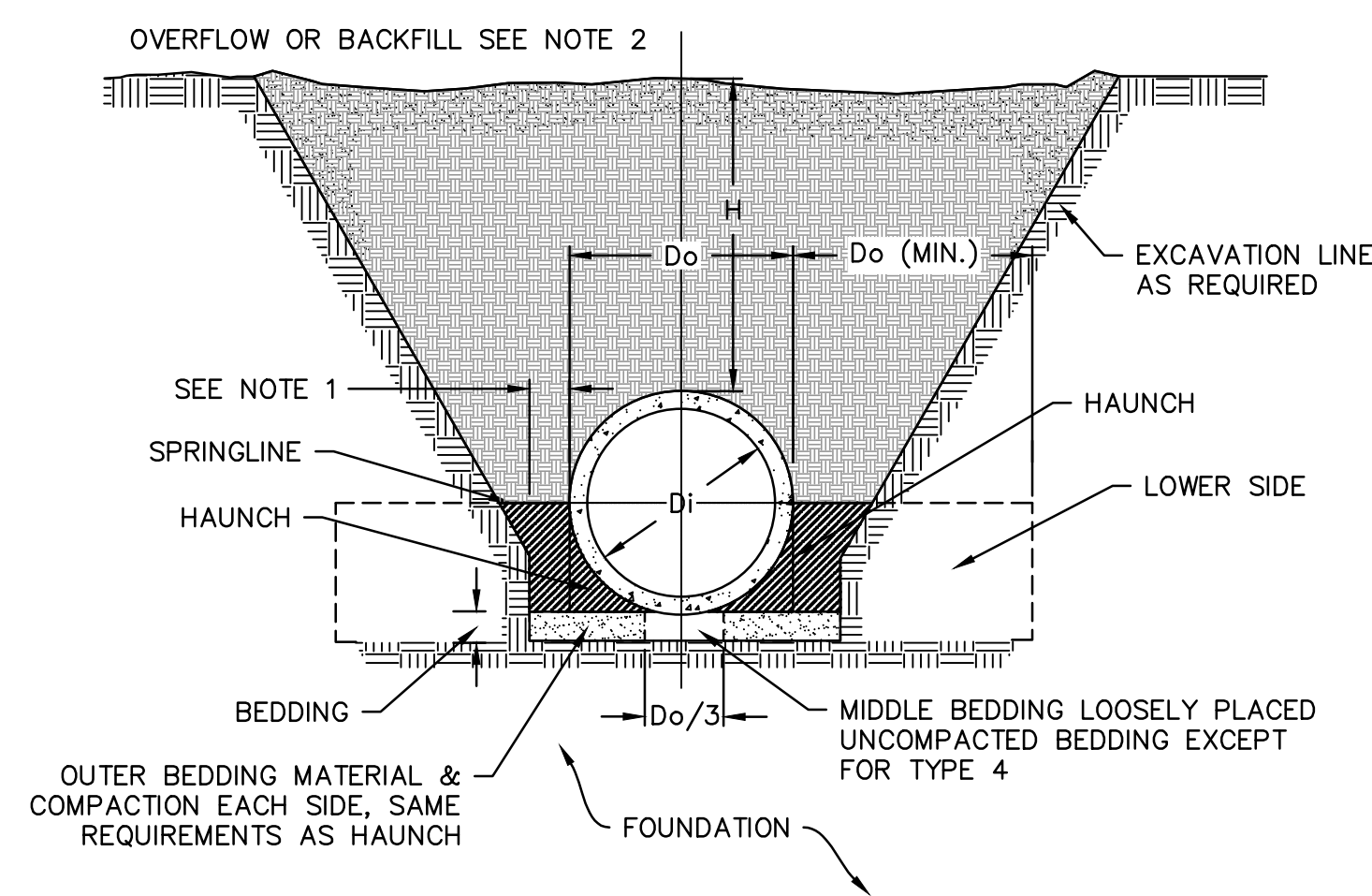
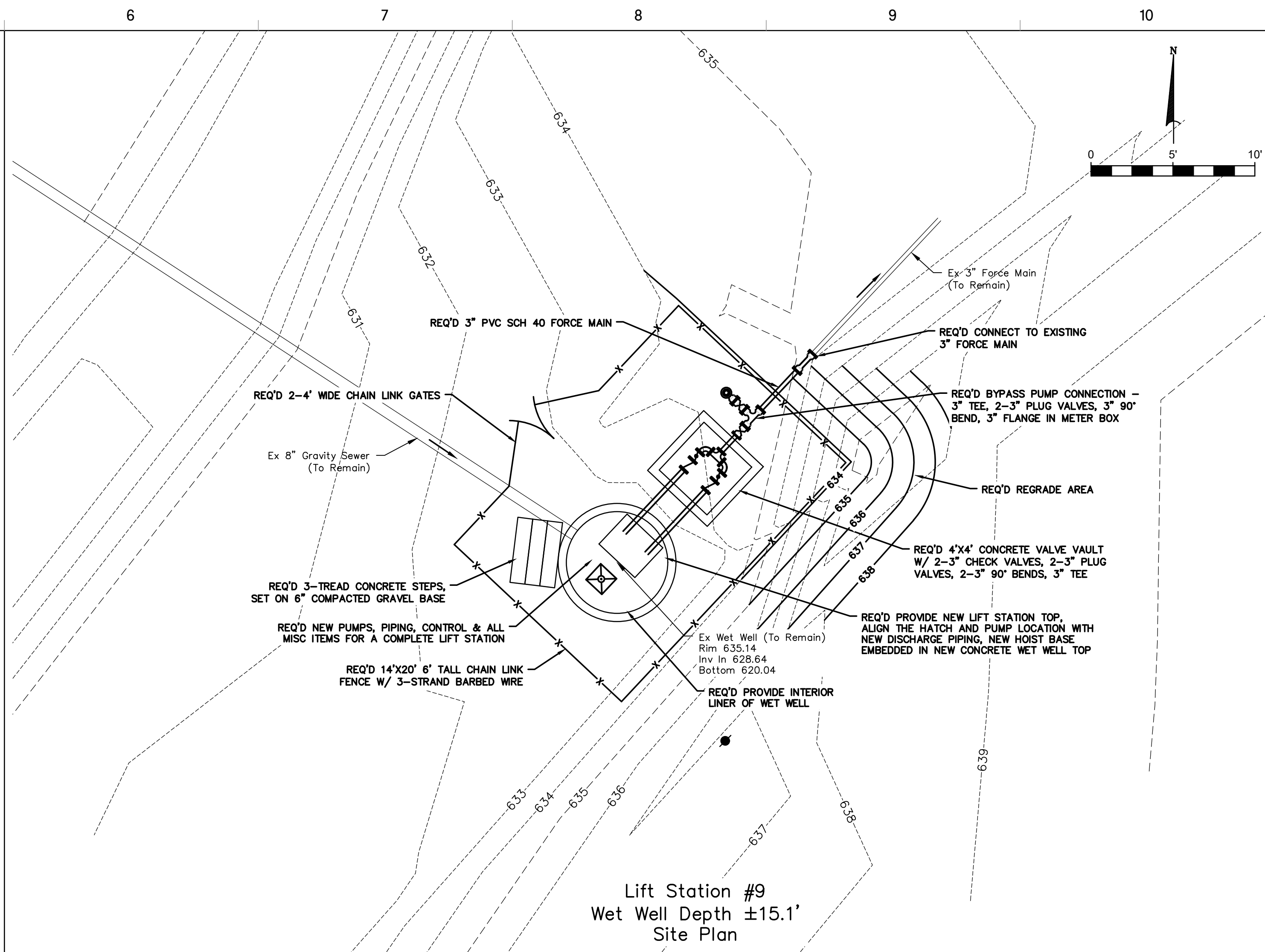
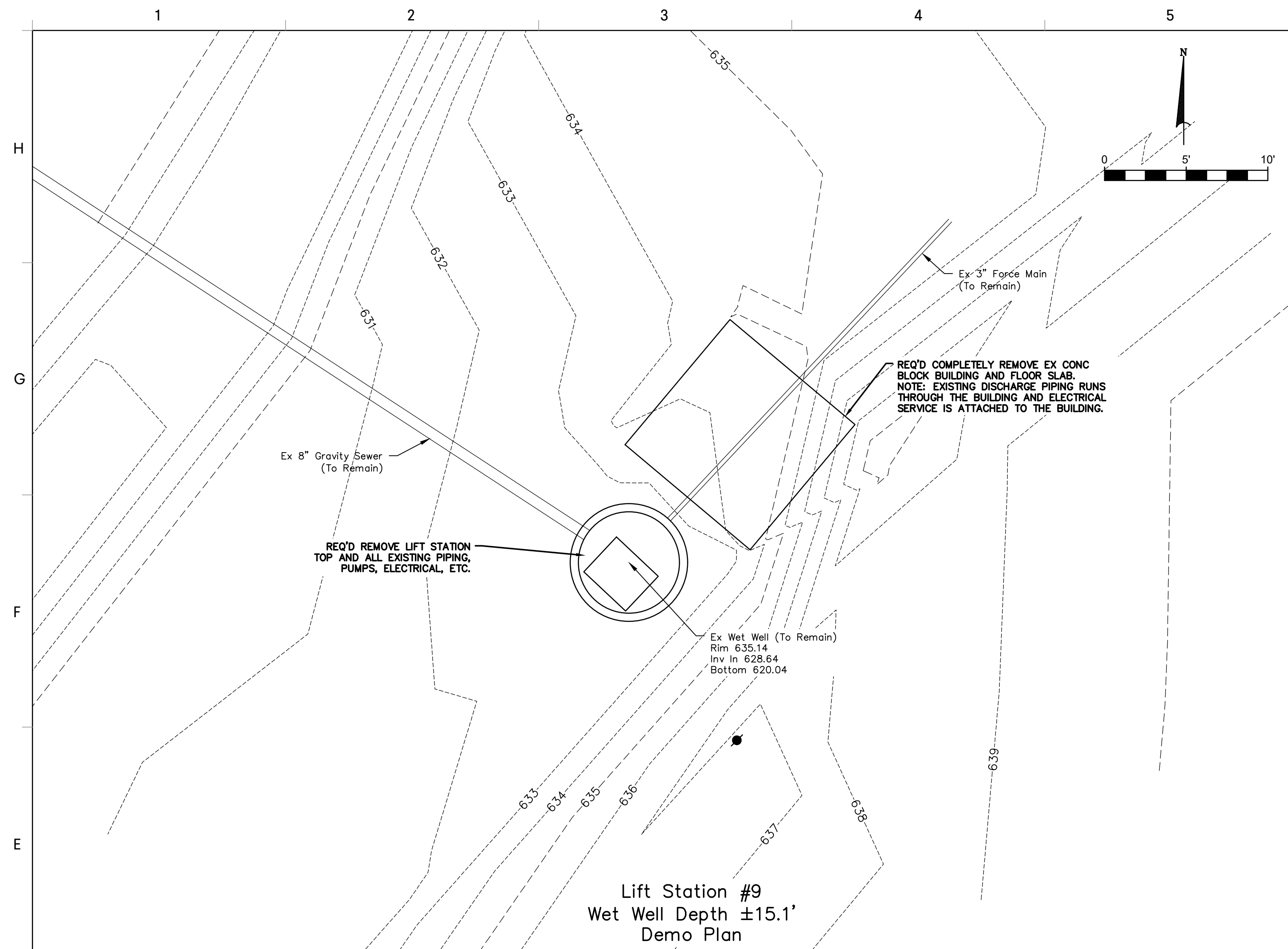
CMGM 22-0156(2)

Construction Drawings



Lift Station #1 & #3
Demo Plan & Site Plan

C-301
sheet of

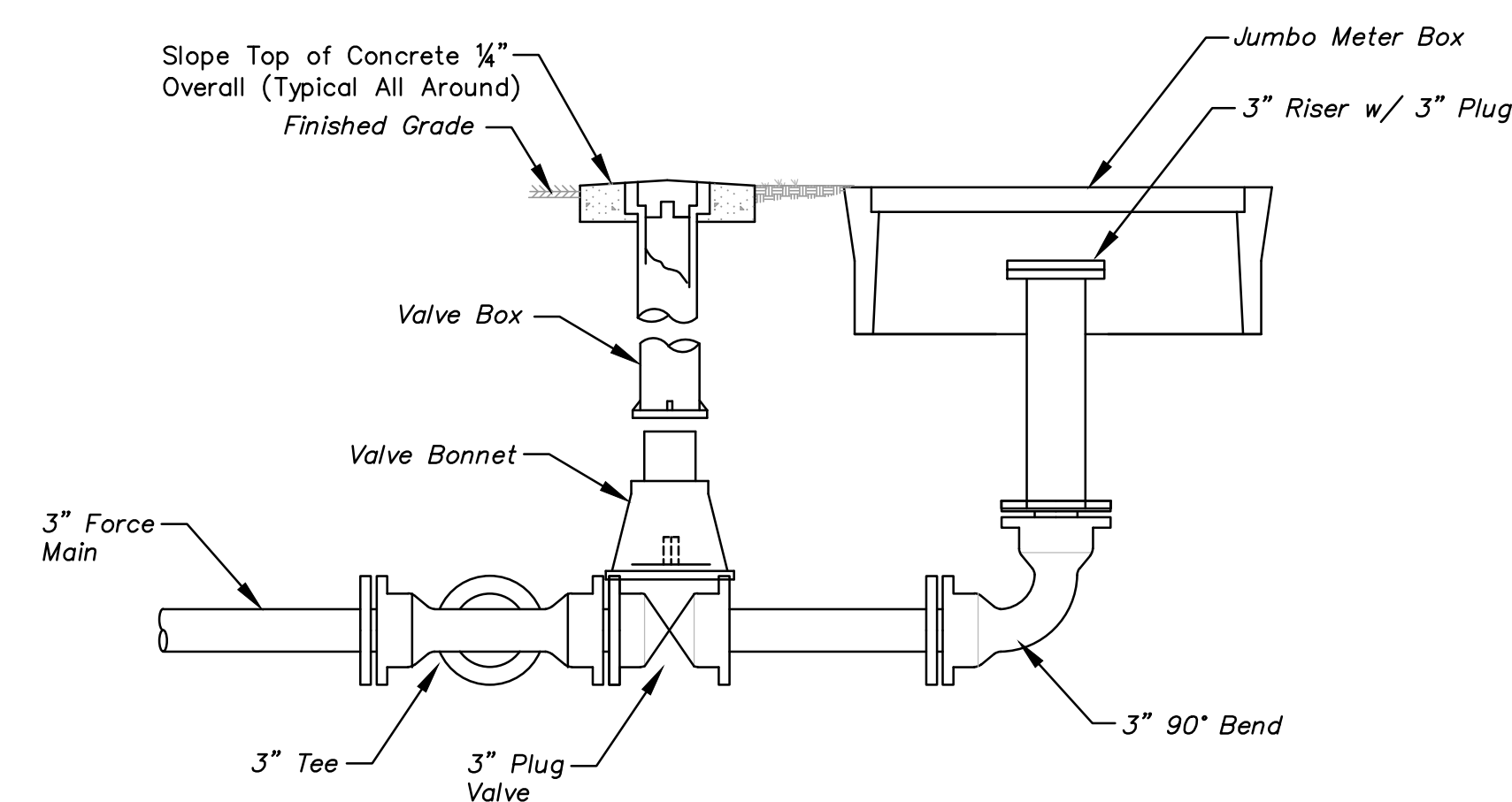


1. CLEARANCE BETWEEN PIPE & TRENCH WALL SHALL BE ADEQUATE TO ENABLE SPECIFIED COMPACTION BUT NOT MORE THAN $D_o/6$.
2. OVERFILL OR BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO A1, A3, A2-4, A2-5 OR A4.
3. COMPACTION SHALL BE ACCORDING WITH TABLE NO. 1. PROCTOR STANDARD DENSITY SHALL FOLLOW THE AASHTO T-99, T310.
4. WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE OWNER AND THE ENGINEER OF RECORD SHALL BE NOTIFIED.
5. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
6. EMBANKMENT LOADING SHALL BE USED WHEN TRENCH WALLS CONSIST OF EMBANKMENT UNLESS A GEOTECHNICAL ANALYSIS IS MADE AND THE SOIL IN THE TRENCH WALLS IS COMPACTED TO A HIGHER LEVEL THAN THE SOIL IN THE BACKFILL ZONE.
7. REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING PRIOR TO PLACEMENT OF THE PIPE.
8. ****ALL RCP STORM PIPE IN THIS PROJECT SHALL BE INSTALLED ACCORDING TO ASTM C1479, TYPE 2 INSTALLATION.****

 FINAL BACKFILL INSTALLED ACCORDING TO ASTM C1479, TYPE 2 INSTALLATION
 STRUCTURAL BACKFILL INSTALLED ACCORDING TO ASTM C1479, TYPE 2 INSTALLATION

TABLE NO. 1 SOIL AND MINIMUM COMPACTION REQUIREMENTS			
INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH & OUTER BEDDING	LOWER SIDE
TYPE 1	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	95% PROCTOR STANDARD FOR SOIL A1 & A3	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 95% PROCTOR STANDARD FOR SOIL A2-4 & A2-5 OR EMBANKMENT TO THE SAME REQUIREMENTS
TYPE 2	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	90% PROCTOR STANDARD FOR SOIL A1 & A3 OR 95% FOR SOILS A2-4, A2-5 & A4	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% PROCTOR STANDARD FOR SOIL A1 & A3 OR 90% PROCTOR STANDARD FOR SOIL A2-4, A2-5 & A4 OR EMBANKMENT TO THE SAME REQUIREMENTS

TYPICAL TRENCH DETAIL FOR REINFORCED CONCRETE PIPE
N.T.S.



BYPASS PUMPING CONNECTION
NOT TO SCALE

GNC

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Prelim	22 Aug 2023
Final	27 Dec 2023
DRAWN BY:	jap
CHECKED BY:	wc

SANITARY SEWER SYSTEM LIFT STATION UPGRADES

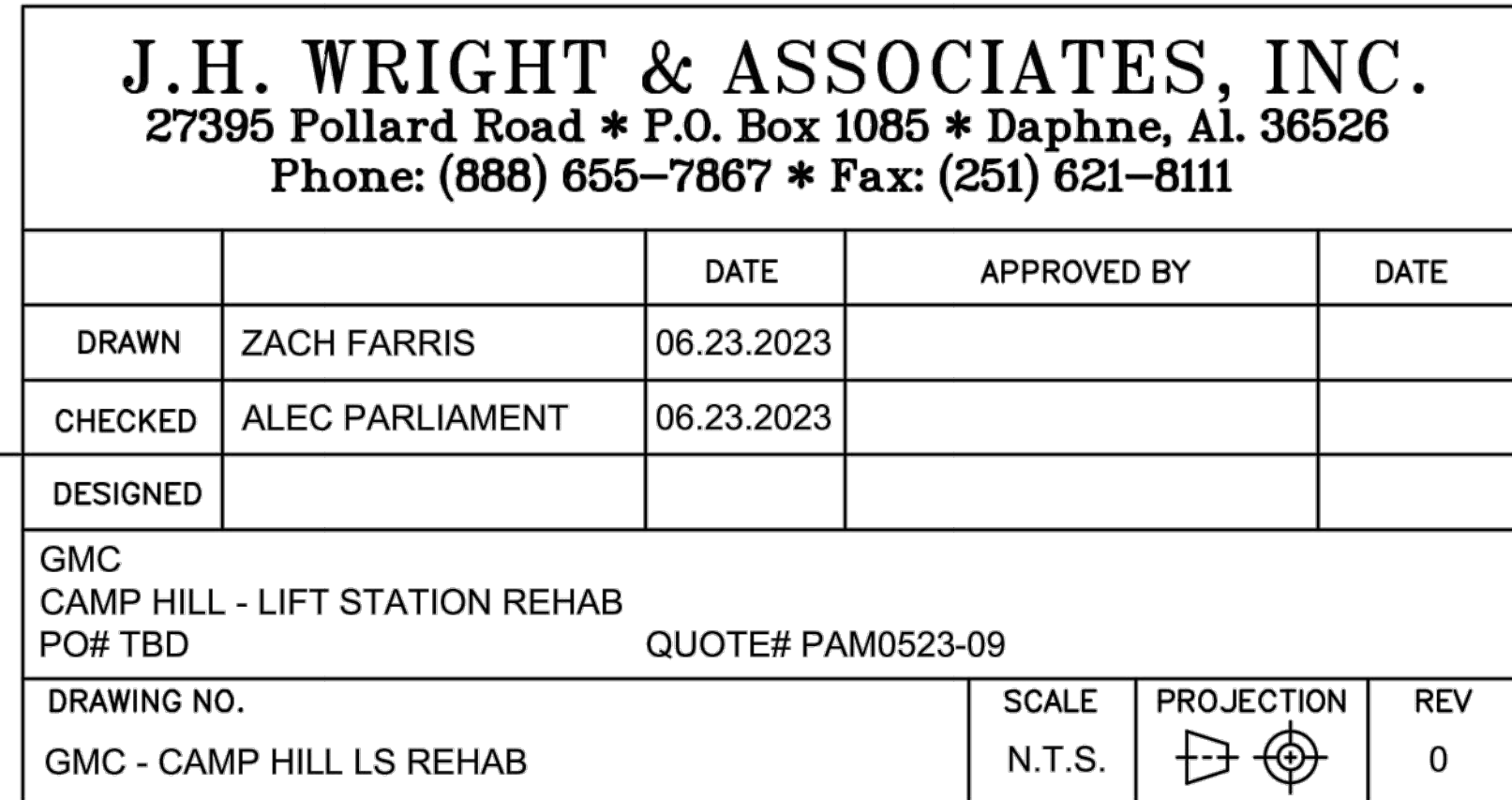
CMGM 22-0156(2)

Construction Drawings



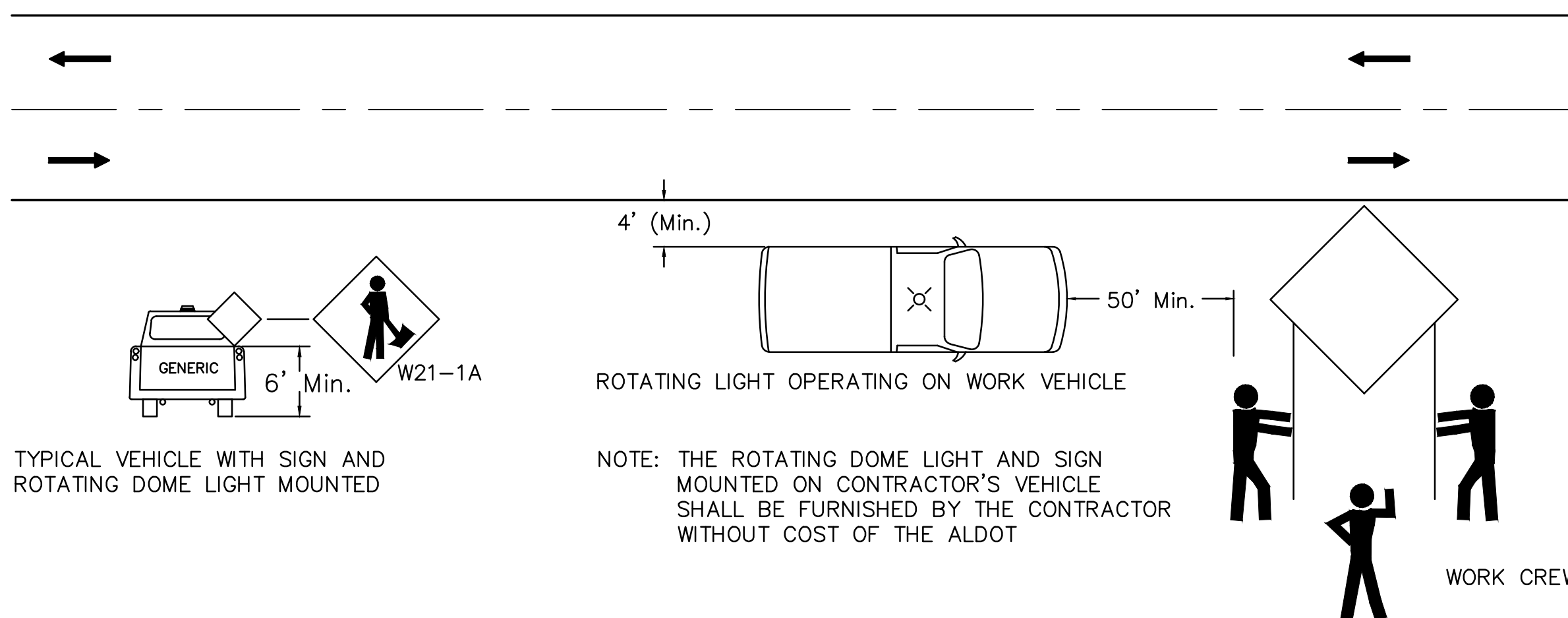
Lift Station #9 Demo Plan & Site Plan

C-303



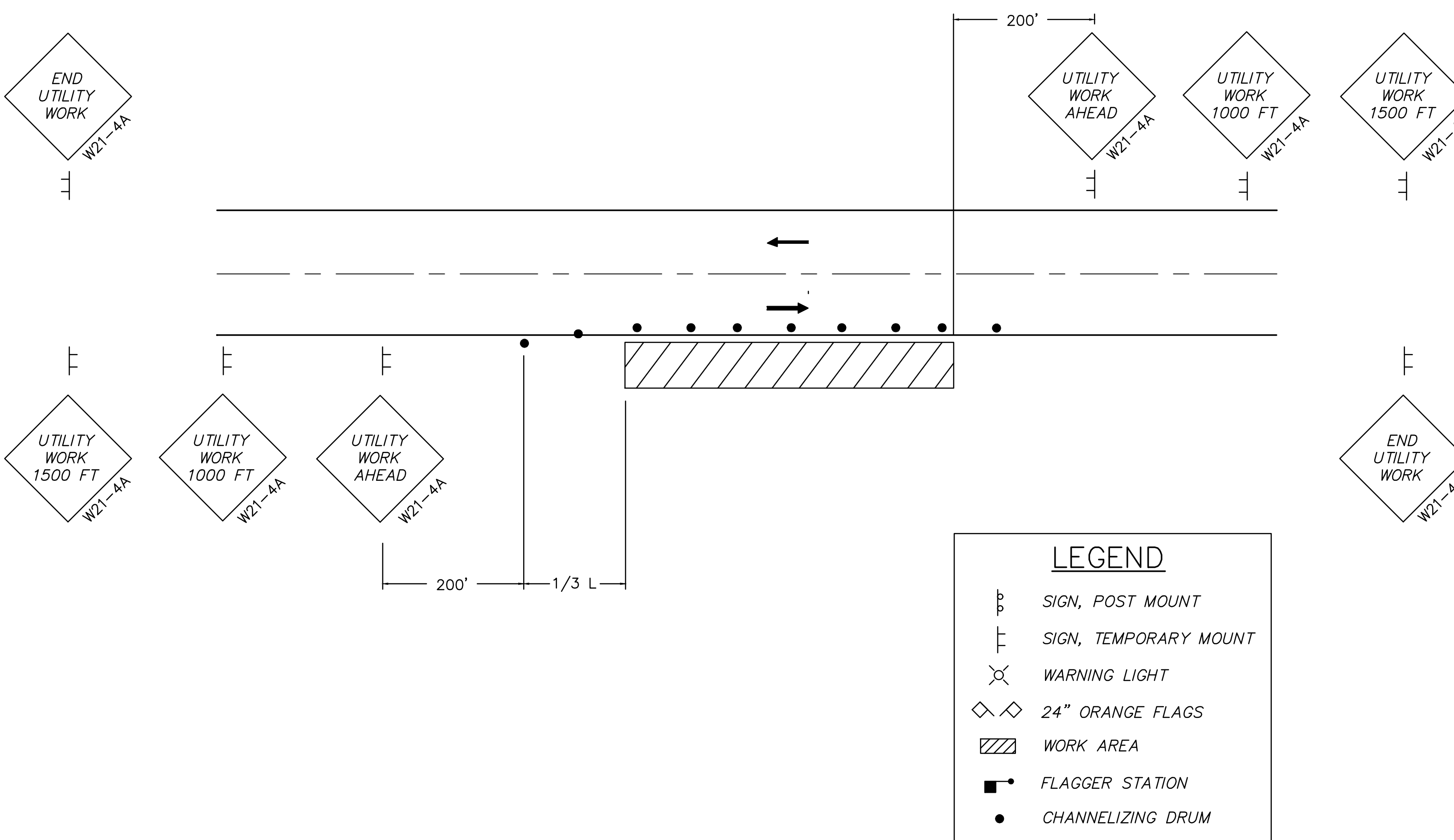
TRAFFIC CONTROL PLAN

TYPICAL METHOD FOR PLACEMENT OR REMOVAL OF CONSTRUCTION SIGNS



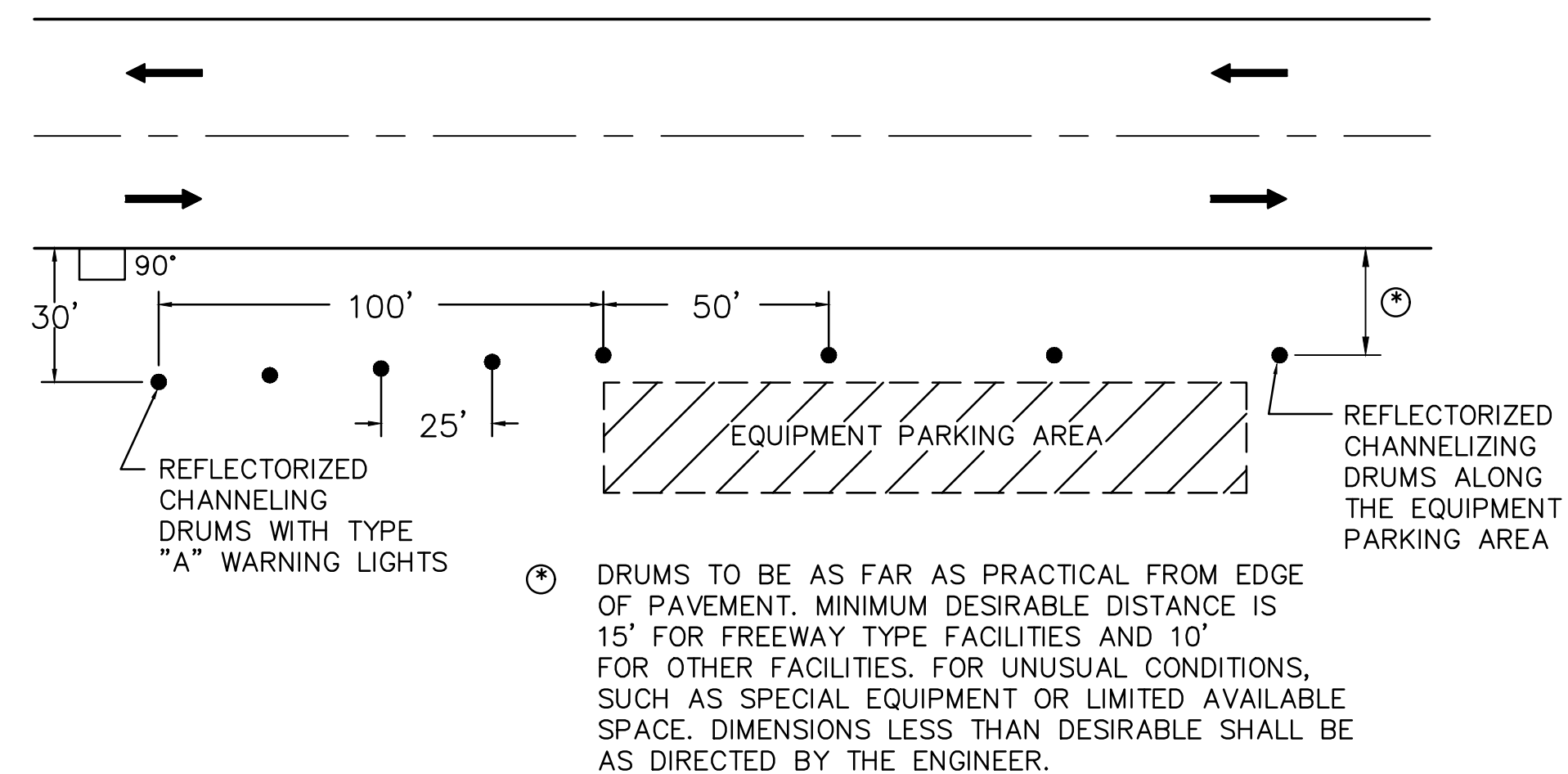
TYPICAL APPLICATION – SHOULDER WORK WITH MINOR ENCROACHMENT

NOTE:
CHANNELIZING DRUMS WILL BE REQUIRED AT ALL TIMES WHILE CONSTRUCTION
IS ADJACENT TO ANY LANE CARRYING TRAFFIC.



DELINEATING DETAILS FOR EQUIPMENT PARKING AREAS

(FOR USE ONLY WHEN EQUIPMENT CANNOT 30 FT OR MORE FROM THE EDGE OF PAVEMENT)



700 ANY CONFLICTING ROADWAY SIGNS SHALL BE REMOVED AND STOCKPILED BY THE
CONTRACTOR IN AN AREA DESIGNATED BY THE ENGINEER ONLY WITH ALDOT DISTRICT
ENGINEER APPROVAL. SIGNS SHALL BE RESET BY THE CONTRACTOR AT THE END
OF EACH WORK DAY WHERE PRIOR REMOVED. ANY SIGNS TO BE REMOVED SHALL BE
COORDINATED WITH THE ALDOT DISTRICT ENGINEER PRIOR TO REMOVAL.

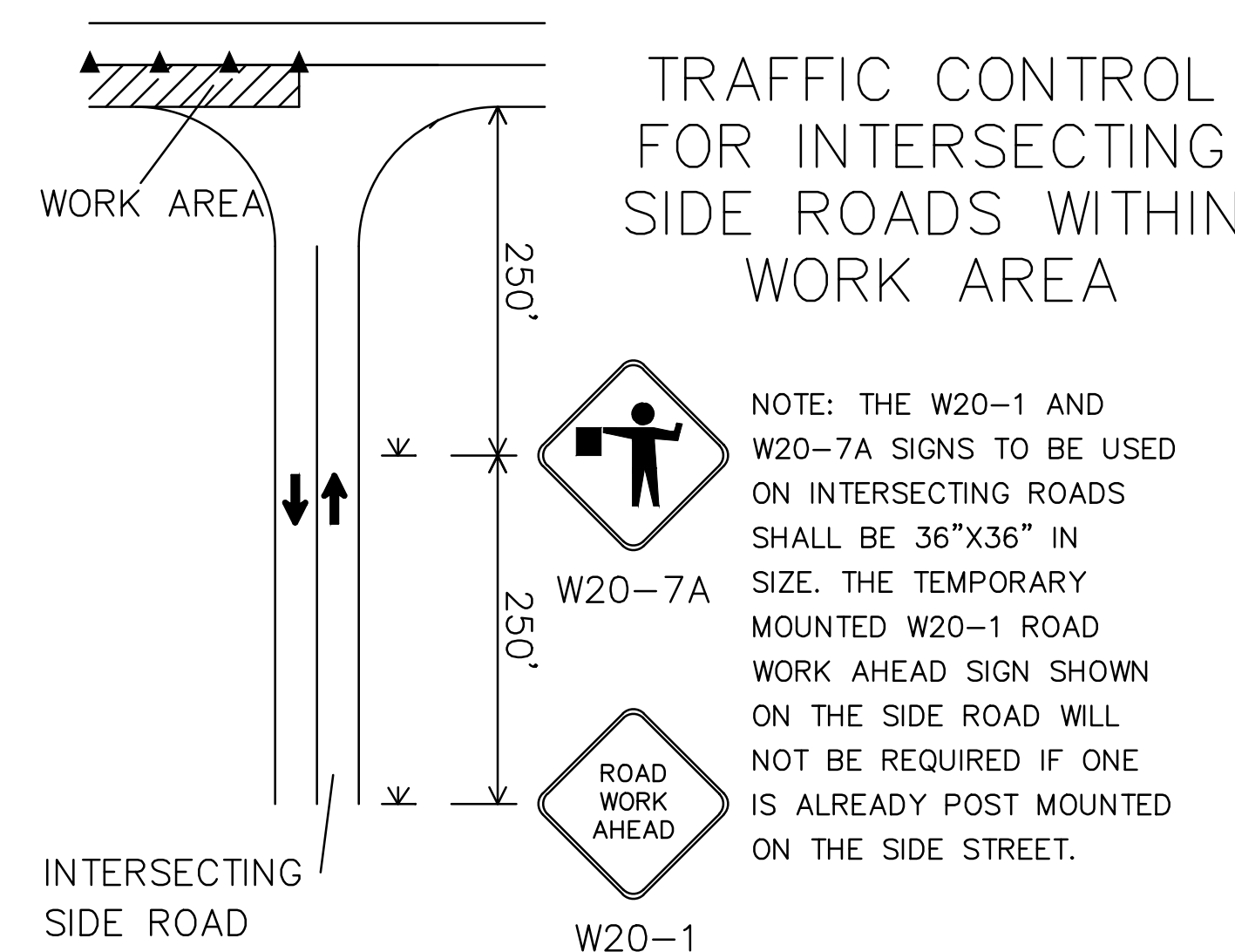
701 THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL
ON UNIFORM TRAFFIC CONTROL DEVICES. THE TRAFFIC CONTROL DEVICES INDICATED
REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL
PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICE, THEY SHALL
BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. AS DIRECTED BY THE ALABAMA
DEPARTMENT OF TRANSPORTATION DISTRICT ENGINEER.

702 DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED
OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING
TRAFFIC. WHEN THIS IS NOT PRACTICAL IT SHALL BE PLACED IN AN AREA
DESIGNATED BY REFLECTORIZED DRUMS AND WARNING LIGHTS. THIS
INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER
MOUNTED OR OTHER TEMPORARY SIGNS, BARRICADES, DRUMS, ETC. WHICH
ARE NOT IN USE DURING NON-WORKING HOURS.

703 THE CONTRACTOR SHALL NOT LEAVE ANY DROPOFF GREATER THAN TWO INCHES
UNPROTECTED AT ANY PLACE WHERE CONSTRUCTION IS ADJACENT TO EXISTING
PAVEMENT.

704 WHERE FLAGPERSONS ARE REQUIRED STAFF MOUNTED STOP/SLOW PADDLES
SHALL BE USED.

705 RESTORATION, CLEANUP AND GRASSING PER ALDOT SPECIFICATIONS SHALL BE
ACCOMPLISHED IMMEDIATELY UPON COMPLETION OF THE INSTALLATION.



NOTE: THE W20-1 AND W20-7A SIGNS TO BE USED ON INTERSECTING ROADS SHALL BE 36"X36" IN SIZE. THE TEMPORARY MOUNTED W20-1 ROAD WORK AHEAD SIGN SHOWN ON THE SIDE ROAD WILL NOT BE REQUIRED IF ONE IS ALREADY POST MOUNTED ON THE SIDE STREET.



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DRAWN BY:	jap
CHECKED BY:	wc

**SANITARY SEWER SYSTEM
LIFT STATION UPGRADES**
TOWN OF CAMP HILL

CMGM 22-0156(2)

Construction Drawings



Traffic Control Plan

C-902
sheet of _____

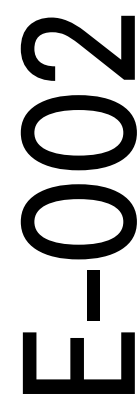
1. ALL ELECTRICAL WORK AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. WIRING SYSTEMS SHALL CONSIST OF COPPER WIRING INSTALLED IN CONDUIT, MINIMUM WIRE SIZE SHALL BE #12AWG, MINIMUM CONDUIT SIZE SHALL BE 3/4".
3. CONDUIT ABOVE CEILINGS, IN WALLS, ETC. SHALL BE EMT, WHERE NOT SUBJECT TO MOISTURE OR DAMAGE. WHERE SUBJECT TO DAMAGE, OUTSIDE BUILDING SHALL BE GALVANIZED RIGID CONDUIT. CONDUITS (ALL SIZES) ROUTED EXPOSED SHALL BE GALVANIZED RIGID CONDUIT. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH TABLE 1, CHAPTER NINE OF N.E.C.
4. CONDUCTORS SHALL BE 99% COPPER (NO ALUMINUM CONDUCTORS WILL BE ACCEPTED).
5. EQUIPMENT GROUNDING SHALL BE IN ACCORDANCE WITH N.E.C.
6. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
7. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. REFER TO THE DRAWINGS OF THE RESPECTIVE SYSTEMS PRIOR TO SUBMISSION OF BIDS FOR ADDITIONAL WORK WHICH MAY BE REQUIRED AS PART OF THIS WORK. NO ALLOWANCES WILL BE MADE FOR THE LACK OF COORDINATION BETWEEN DISCIPLINES OR SYSTEMS AND EQUIPMENT.
8. THE WORK SHALL BE COORDINATED WITH THE ENGINEERING DOCUMENTS FOR THE EXACT LOCATION OF LIGHT FIXTURES, EQUIPMENT, DEVICES, ETC. TO ASSURE PROPER PLACEMENT OF SAID DEVICES AND EQUIPMENT. WHERE A CONFLICT EXISTS BETWEEN ANY TWO DOCUMENTS, NOTIFY THE ENGINEER PRIOR TO ANY INSTALLATION FOR RESOLUTION.
9. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT BEING INSTALLED PRIOR TO INSTALLATION TO ASSURE THAT THE FEEDER, DISCONNECT, STARTER, OVER CURRENT PROTECTION, ETC. MATCHES THE ACTUAL NAMEPLATE DATA AS SUPPLIED BY THE MANUFACTURER.
10. SPECIFIC REQUIREMENTS REGARDING MATERIALS, WORKMANSHIP, AND THE WORK TO BE DONE ARE COVERED BY THE SPECIFICATIONS WHICH COMPLEMENT THE PLANS. WORK CALLED FOR BY THE SPECIFICATIONS OR THE PLANS IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY.
11. REFER TO EQUIPMENT CUT SHEETS AND MANUFACTURER'S DATA FOR ROUGH IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS OF ALL EQUIPMENT.
12. INSTALL OVER CURRENT PROTECTION AND BRANCH CIRCUIT WIRING PER U.L. LISTING
13. REQUIREMENTS FOR EQUIPMENT SERVED - REFER TO NAMEPLATE DATA.
14. PROVIDE START-UP ASSISTANCE TO OWNER PERSONNEL AND EQUIPMENT TECHNICIANS TO CONFIRM CORRECT PHASE ROTATION, PROPER OPERATION & SEQUENCE, AND CONTROLS.
15. ELECTRICAL CONTRACTOR TO FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT PER NEC 110.16 & 110.24.
16. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
17. ELECTRICAL EQUIPMENT SHALL BE FULLY RATED FOR THE FAULT CURRENT INDICATED ON THE PLANS. NO SERIES RATING WILL BE ACCEPTED.
18. SUBSURFACE CONDUIT SHALL BE SCHEDULE 40PVC UNO. VERTICAL TURN UPS SHALL BE GRC SWEEP 90S WITH A BITUMASTIC COATING UNO.
19. ALL EMPTY CONDUITS SHALL HAVE A 200 LBS NYLON PULL STRING AND BE CAPPED AT BOTH ENDS. ALL CONDUITS SHALL BE ADEQUATELY SEALED TO PREVENT ENTRY OF RODENTS, WATER, AND OTHER FOREIGN MATTER. DUCT TAPE IS NOT AN ACCEPTABLE MEANS OF CAPPING.
20. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VISIT THE SITE AND TO BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID DATE AS HE SHALL BE RESPONSIBLE FOR THE SAME.
21. ELECTRICAL CONTRACTOR WILL PROVIDE ALL MATERIAL TO FINALIZE A NEAT, COMPLETE, AND PROPERLY WORKING ELECTRICAL SYSTEM WHICH CONFORMS TO ALL LOCAL CODES AND THE NATIONAL ELECTRICAL CODE (N.E.C.), PLANS, AND SPECIFICATIONS.
22. CONTRACTOR SHALL REPAIR ANY DISTURBED AREA TO SAME COMPACTION, GRADE, SLOPE, ETC. AS ORIGINAL AREA INCLUDING REPLACEMENT OF SOD, GRASS, ROCK, GRAVEL, RIP-RAP, ETC. TO THE SATISFACTION OF THE OWNER AND ENGINEER.
23. SLOPE ALL AREAS AROUND CONCRETE PADS TO PREVENT WATER PONDING.
24. CLEAN UP ALL DEBRIS AROUND CONSTRUCTION SITE DAILY.
25. REMOVE ANY SPILLED DIRT, CONCRETE, ETC. FROM ANY DRIVEWAYS, ROADWAYS OR CONSTRUCTION SITE AS DIRECTED BY OWNER OR ENGINEER.
26. CONTRACTOR SHALL CUT AND PATCH ALL CONCRETE TO MATCH EXISTING WHERE REQUIRED TO INSTALL UNDERGROUND CONDUIT.

ABBREVIATIONS					
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMPERES	FIX	FIXTURE	P	POLE
AC	AIR CONDITIONING	FLUOR.	FLUORESCENT	PC	PHOTO CELL
ACT	ABOVE COUNTER TOP	GFI	GROUND FAULT INTERRUPTER	PMS	PROPERTY MANAGEMENT SYSTEM
AFF	ABOVE FINISHED FLOOR	GRC	GALVANIZED RIGID STEEL CONDUIT	PNL	PANEL
AIC	AMPERES INTERRUPTING CAPACITY (MIN)	GRND, G	GROUND	PVC	POLYVINYL CHLORIDE
APPROX.	APPROXIMATELY	HP	HORSEPOWER	RS	RAPID START
AWG	AMERICAN WIRE GAUGE	IAW	IN ACCORDANCE WITH	RSC	RIGID STEEL CONDUIT
ANN	ANNUNCIATOR	IF	INSIDE FROST	SD	SMOKE DETECTOR
BLDG	BUILDING	IG	ISOLATED GROUND	SIM	SIMILAR
BPS	BOLTED PRESSURE SWITCH	INCAN	INCANDESCENT	S/S	STAINLESS STEEL
C	CONDUIT	J	JUNCTION	SPST	SINGLE POLE SINGLE THROW
CAT	CATALOG	KVA	KILO-VOLT-AMPERE	T	TRANSFORMER
CATV	CABLE TELEVISION	KW	KILOWATT	TC	TRAY CABLE
CKT	CIRCUIT	LAHJ	LOCAL AUTHORITY HAVING JURISDICTION	TBB	TELEPHONE BACKBOARD
CONT	CONTINUATION	LGT	LIGHT	TEL	TELEPHONE
CR	CARD READER	M	METER	TM	TV MONITOR
DD	DUCT DETECTOR	MAT	MASTER ANTENNA TELEVISION	TYP	TYPICAL
DIA	DIAMETER	MAX	MAXIMUM	UNO	UNLESS OTHERWISE NOTED
DIM	DIMENSION	MCM	THOUSAND CIRCULAR MILS	V	VOLT
DP	DISTRIBUTION PANEL	MDP	MAIN DISTRIBUTION PANEL	W	WIRE
DWG	DRAWINGS	MIN	MINIMUM	WP	WEATHERPROOF
EA	EACH	MLO	MAIN LUGS ONLY	WW	WARM WHITE
EC	EMPTY CONDUIT	MPC	MAIN POWER CENTER	XFMR	TRANSFORMER
ELEC	ELECTRICAL	MTD, MTG	MOUNT (ED), (ING)	PDC	POWER DISTRIBUTION CONTROLLER
EMER	EMERGENCY	N	NORTH	E.W.	EACH WAY
EMT	ELECTRICAL METALLIC TUBING	NEC	NATIONAL ELECTRIC CODE		
EOL	END OF LINE RESISTOR	NIC	NOT IN CONTRACT		
EQUIP	EQUIPMENT	NO	NUMBER		
F	FUSED	NTS	NOT TO SCALE		
FA	FIRE ALARM	OC	ON CENTER		
FIN	FINISH	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		

Construction Drawings

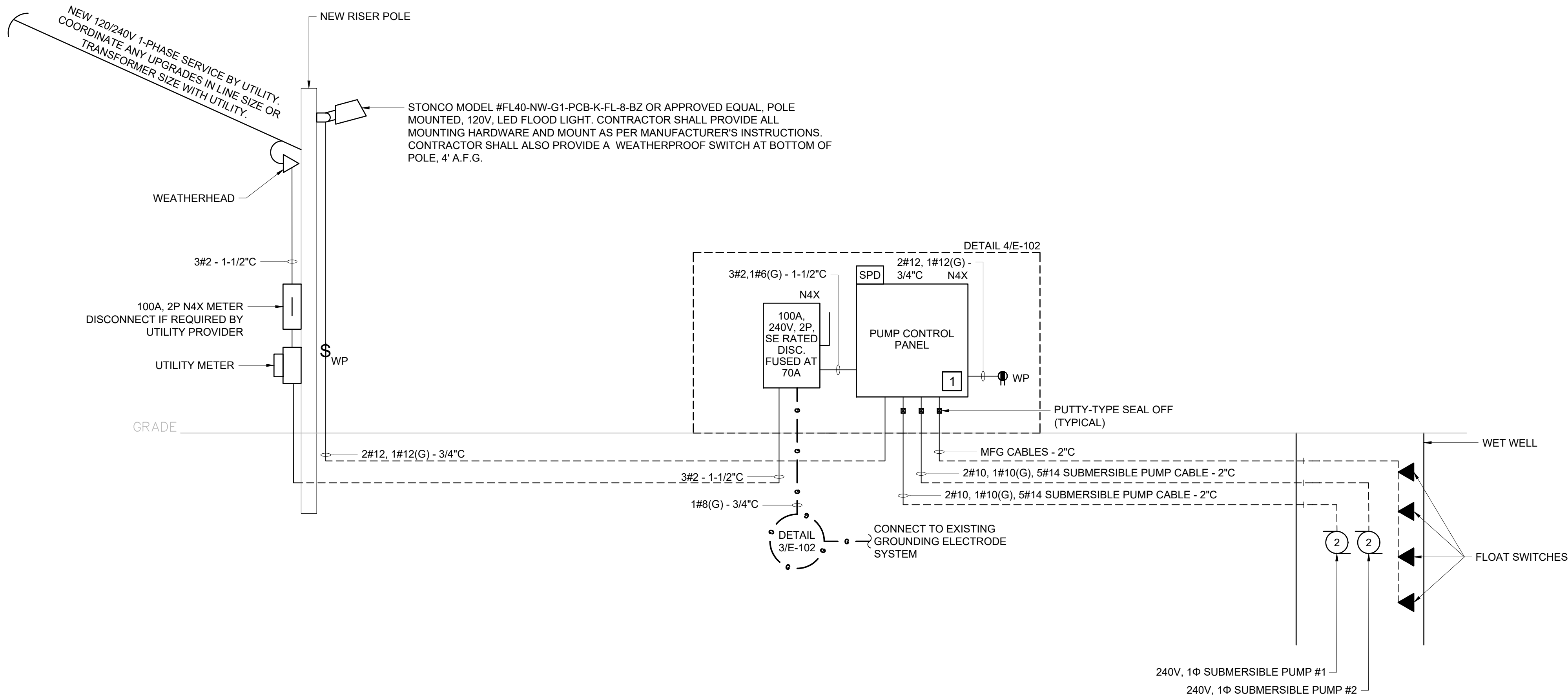


7. SEE PROJECT MANUAL FOR ADDITIONAL SPECIFICATIONS.

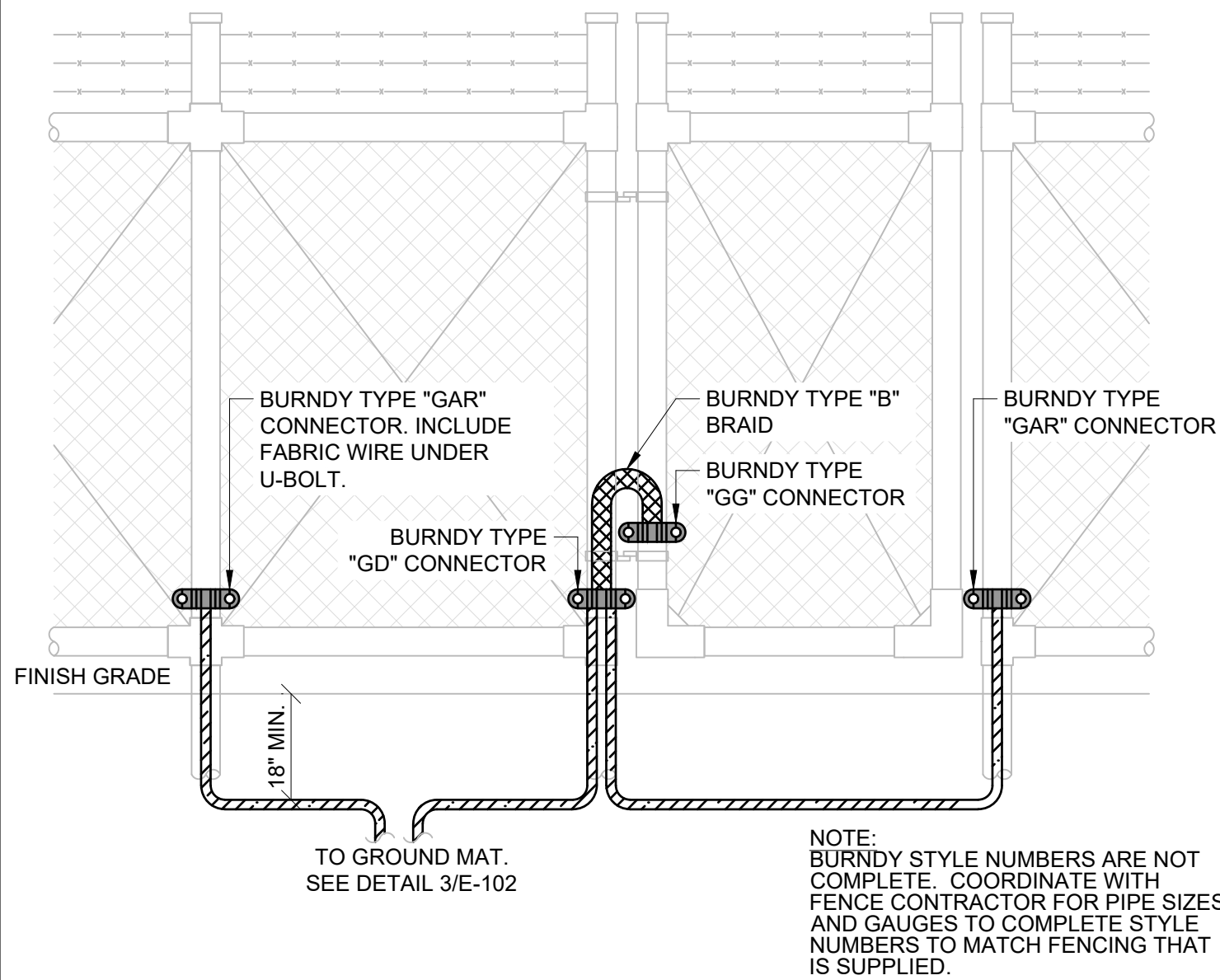


KEYED NOTES: #

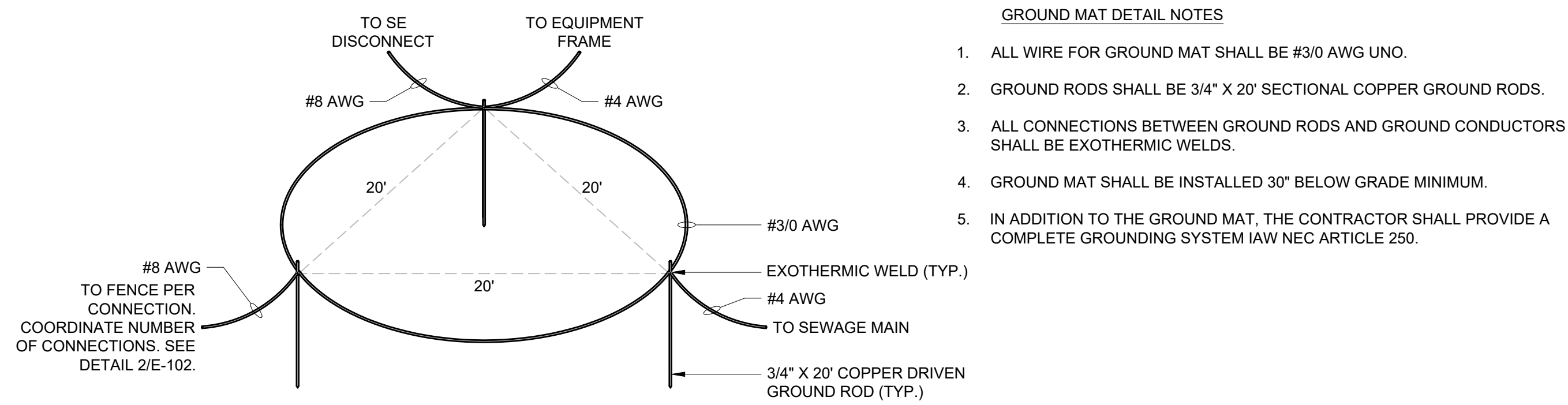
1. CELLULAR SCADA PANEL MOUNTED INSIDE PUMP CONTROL PANEL.



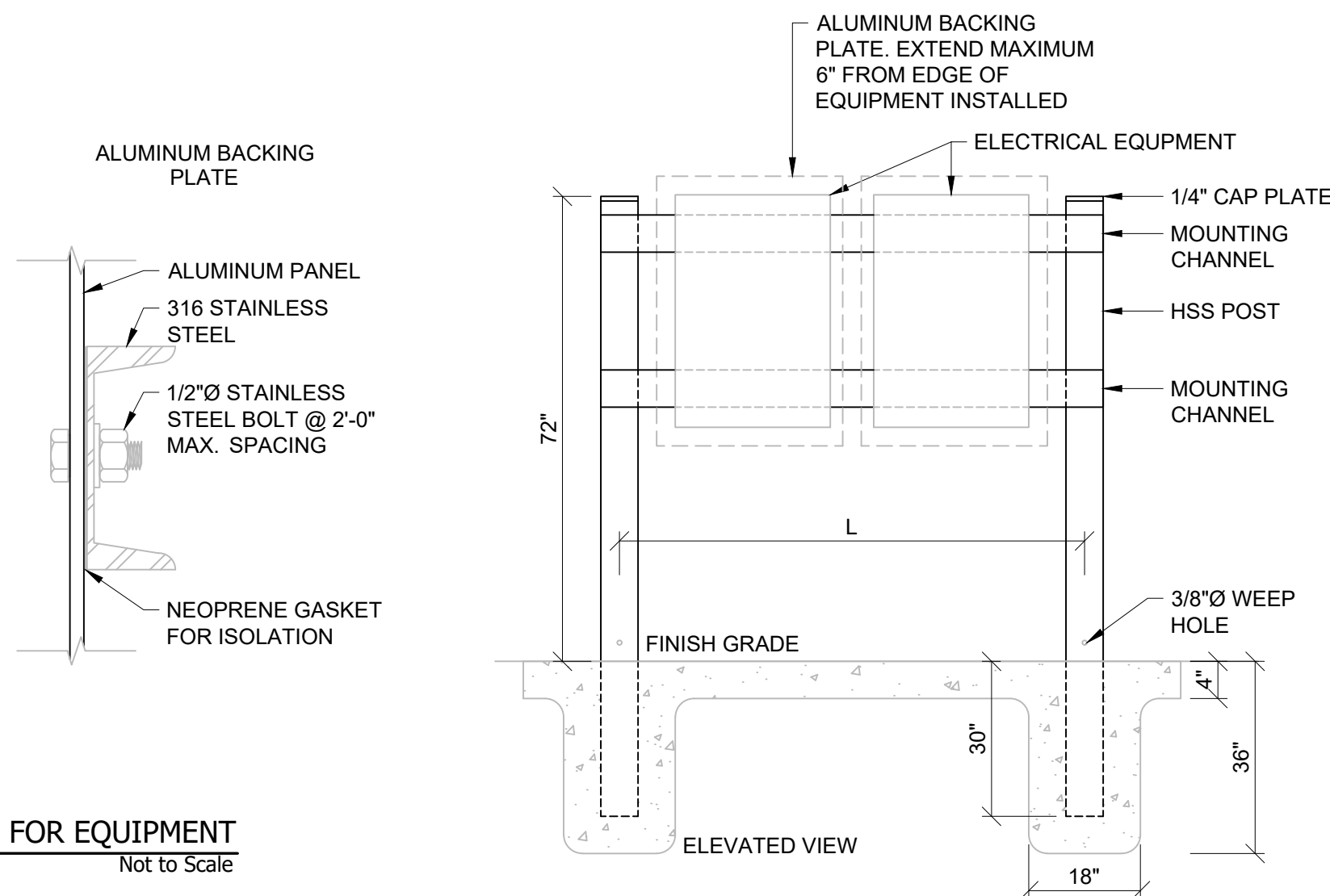
1
E-102
LIFT STATION #3 MAIN RISER DIAGRAM
Not To Scale



2
E-102
FENCE GROUNDING DETAIL
Not To Scale



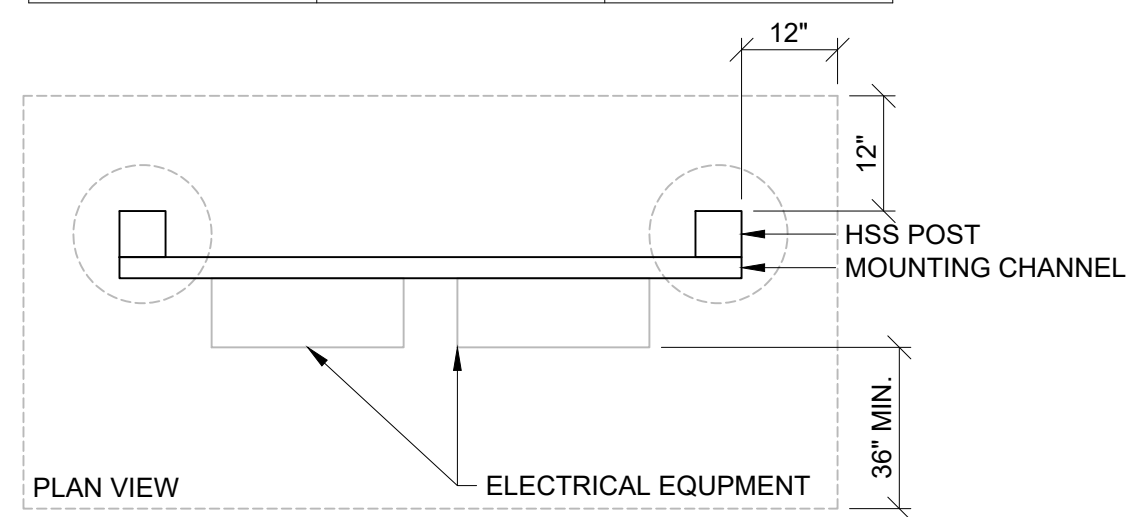
3
E-102
GROUND MAT
NOT TO SCALE



4
E-102
MOUNTING FRAME FOR EQUIPMENT
Not To Scale

MOUNTING FRAME SIZING SCHEDULE		
HSS SPACING (L)	HSS SIZE	MOUNTING CHANNEL SIZE
0'-0" - 6'-11"	HSS3X3X1/4	C4X4.5
7'-0" - 9'-11"	HSS3X3X5/16	C8X11.5
10'-0" - 12'-0"	HSS3.5X3.5X1/4	C10X30

- NOTES:
- 1) DESIGNED FOR 120 MPH WIND SPEED.
 - 2) GROUND CONDITIONS 300 LBF LATERAL RESISTANCE MIN.
 - 3) EQUIPMENT DL. 1000 lbs. MAX.
 - 4) ALL FRAME MATERIAL SHALL BE MADE OF 316 STAINLESS STEEL



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Prelim 22 Aug 2023

Final 22 Dec 2023

DRAWN BY: MBH

CHECKED BY: JJD

SANITARY SEWER SYSTEM
LIFT STATION UPGRADES

TOWN OF CAMP HILL

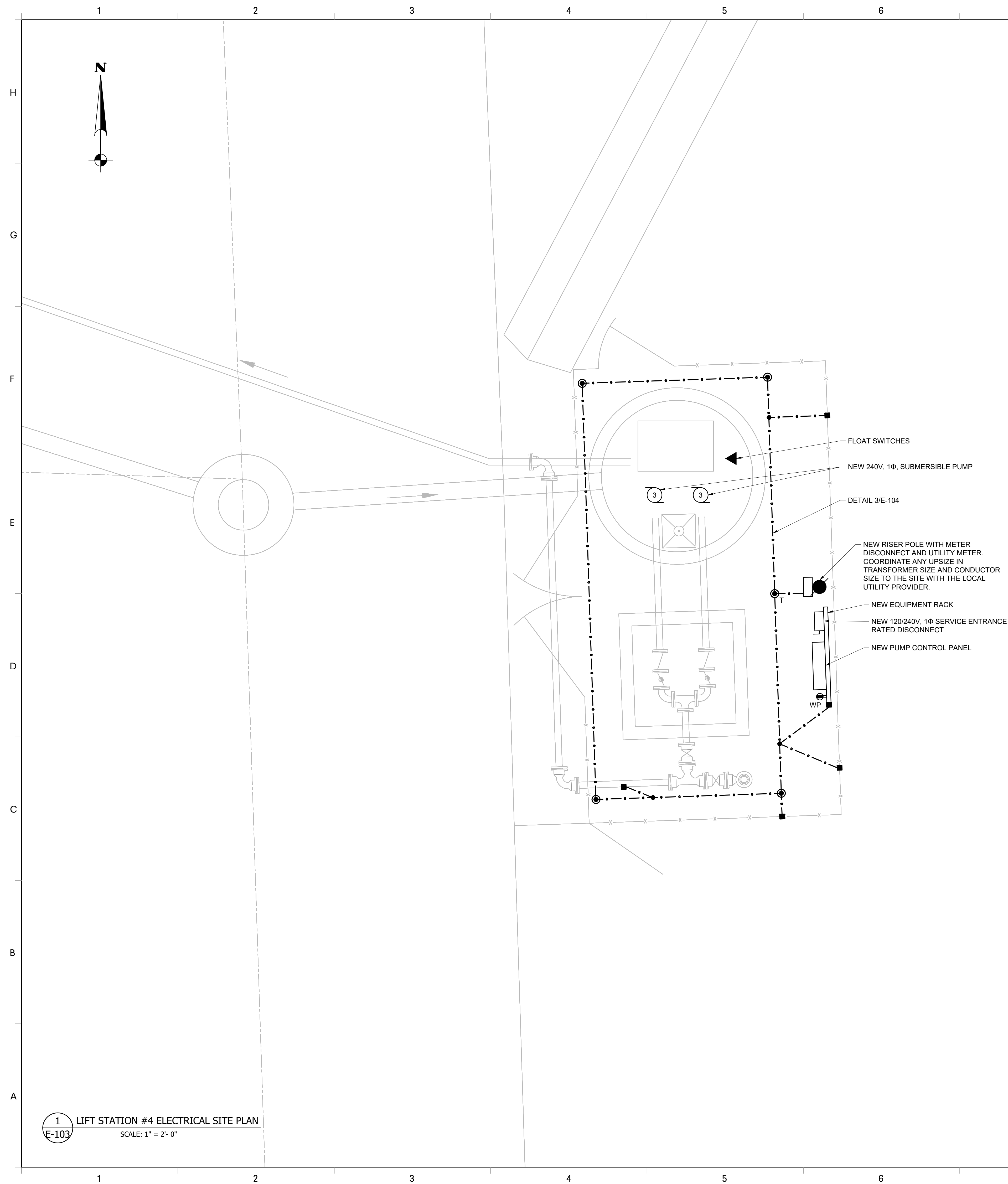
CMGM 22-0156(2)

Construction Drawings



LIFT STATION #3
ELECTRICAL RISER
DIAGRAM & DETAILS

E-102



GENERAL NOTES:

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT FROM SITE.
2. SEE RISER DIAGRAM FOR MORE INFORMATION ON CONDUIT AND WIRE.



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**SANITARY SEWER SYSTEM
LIFT STATION UPGRADES**
TOWN OF CAMP HILL

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Construction Drawings

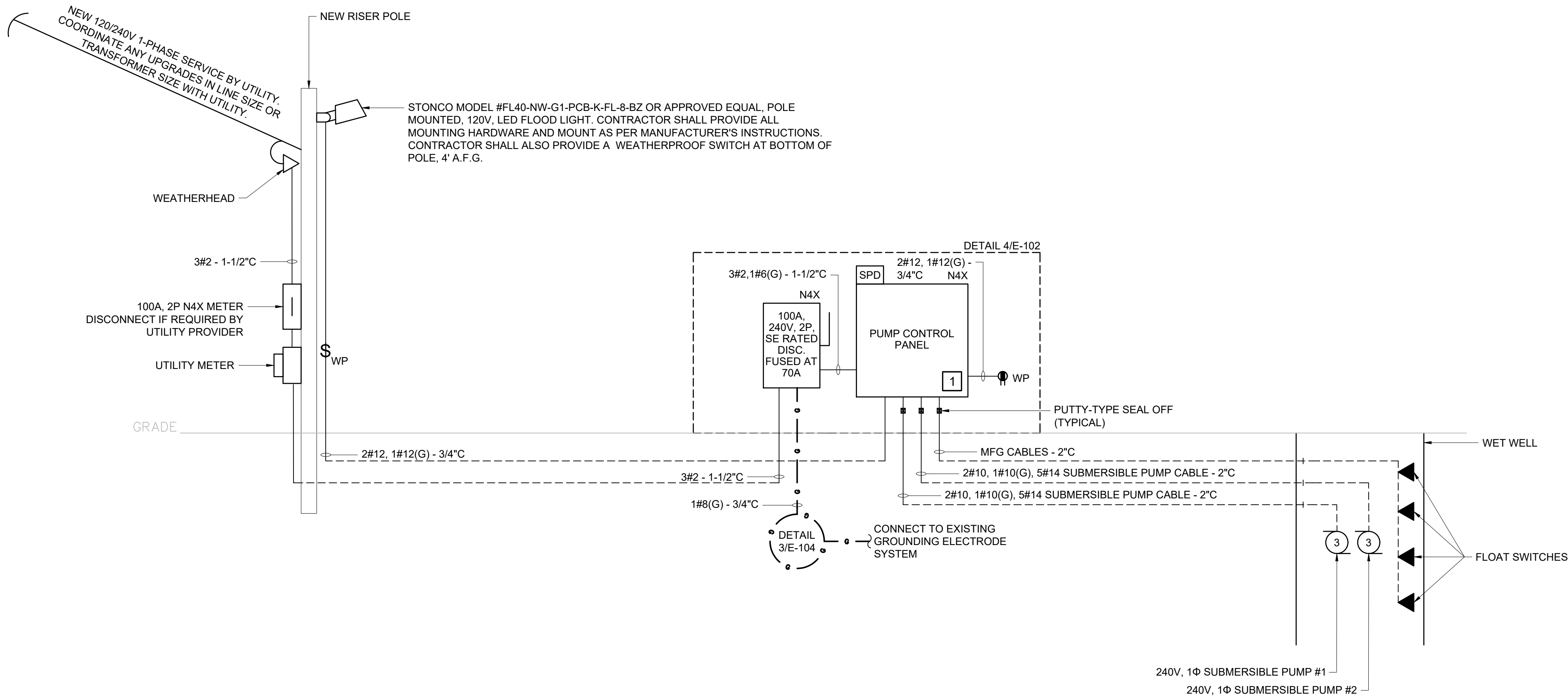


LIFT STATION #4 SITE PLAN

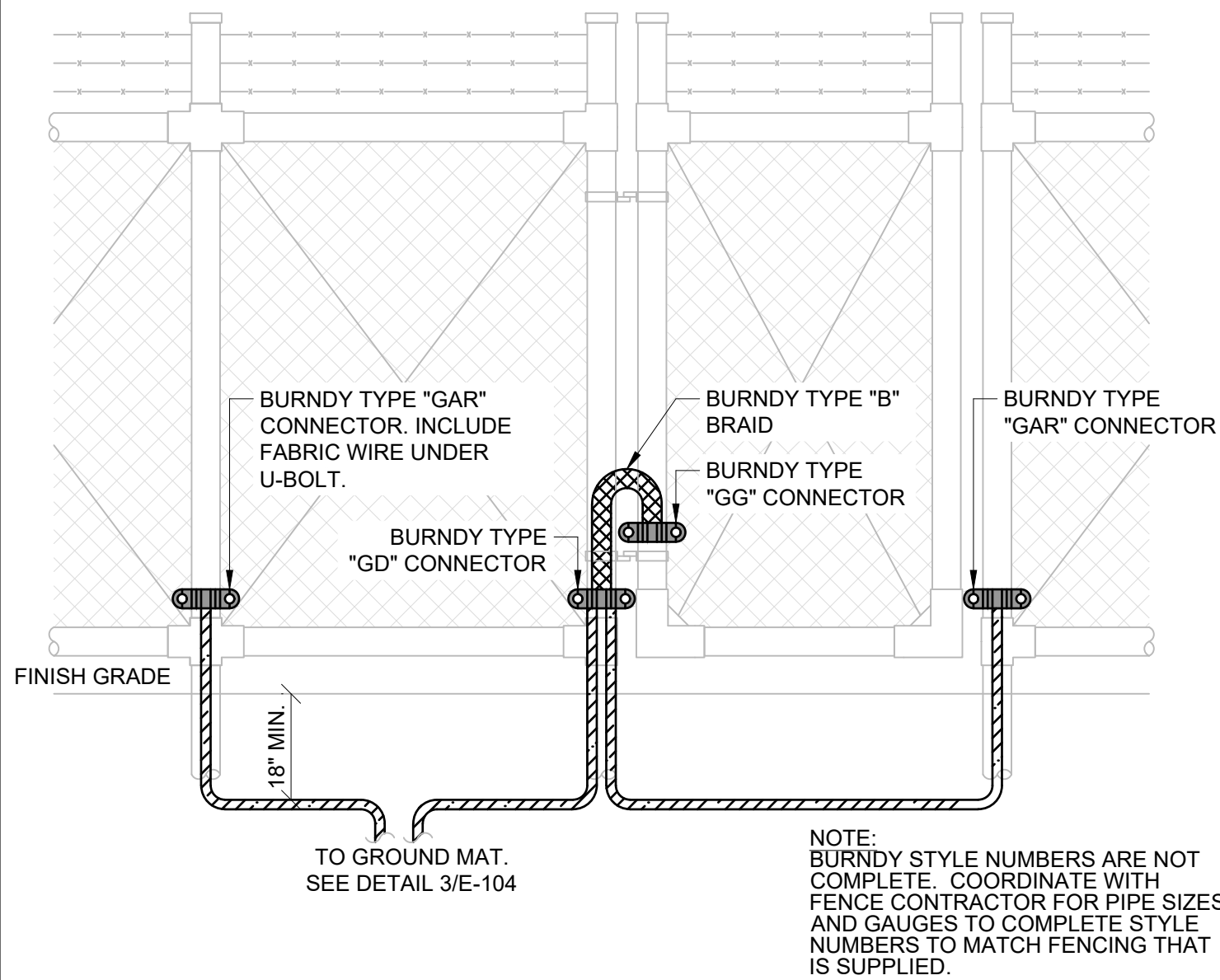
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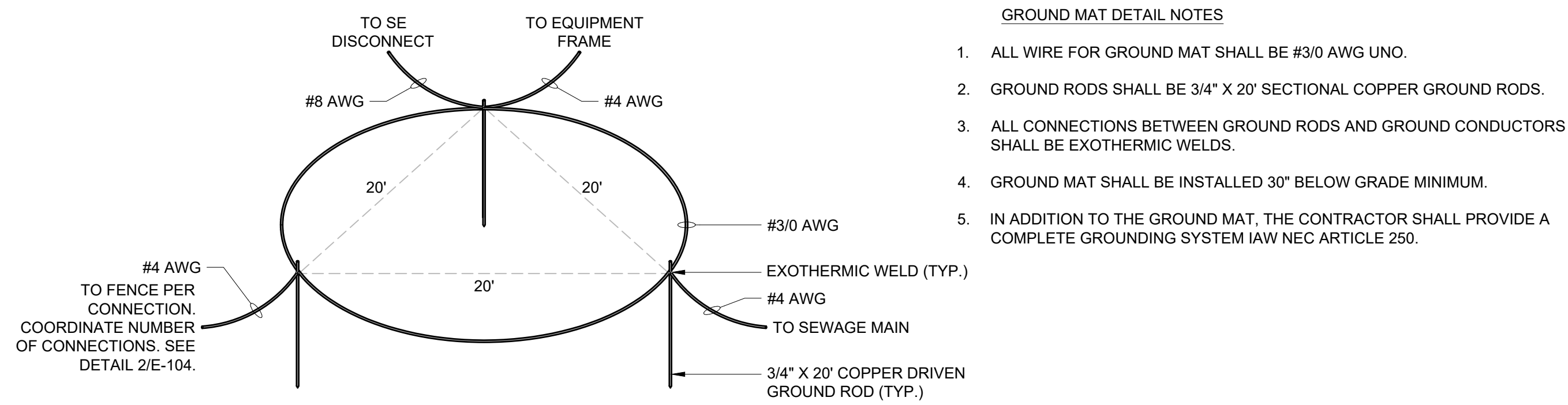
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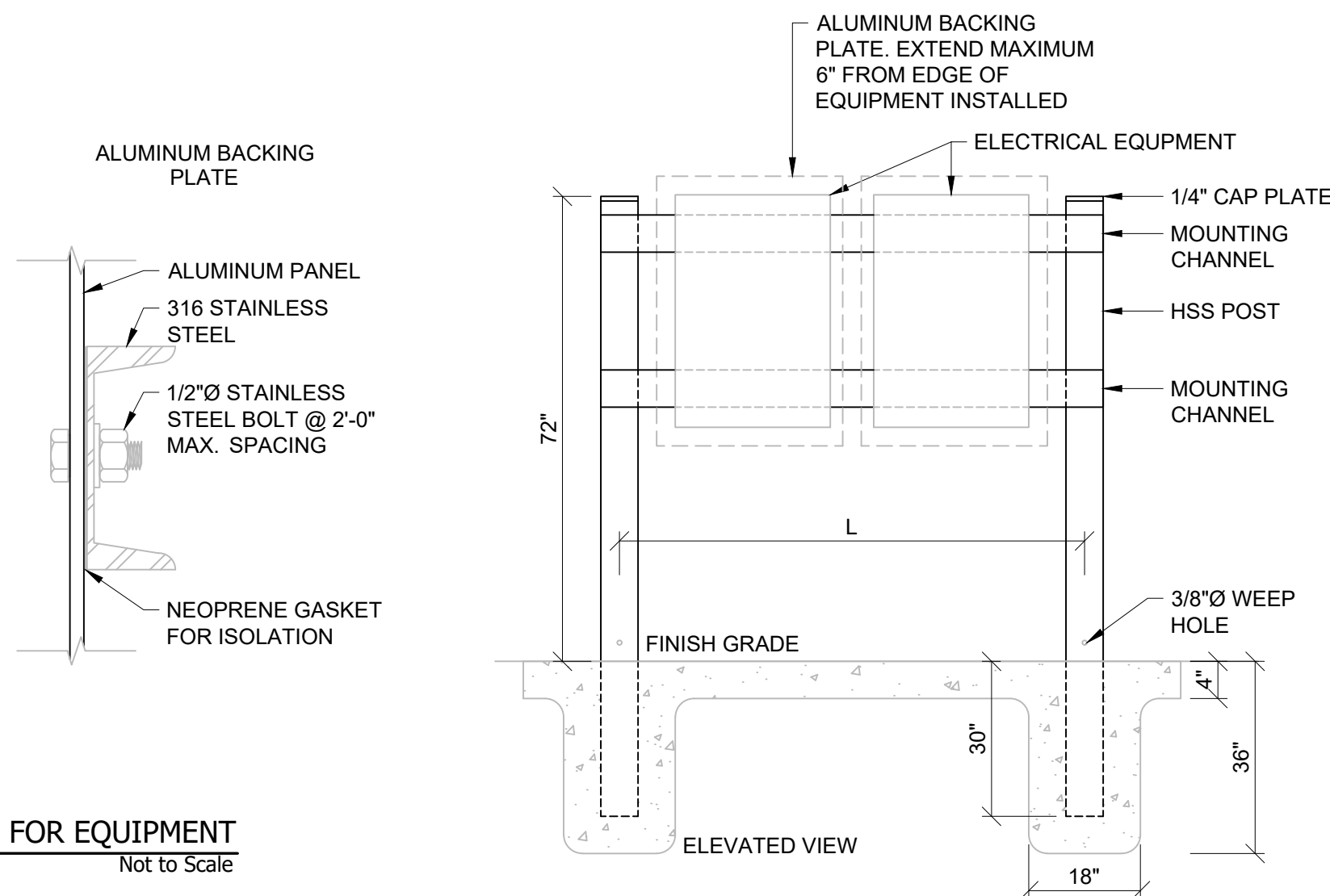
1
E-104
LIFT STATION #4 MAIN RISER DIAGRAM
Not To Scale



2
E-104
FENCE GROUNDING DETAIL
Not To Scale

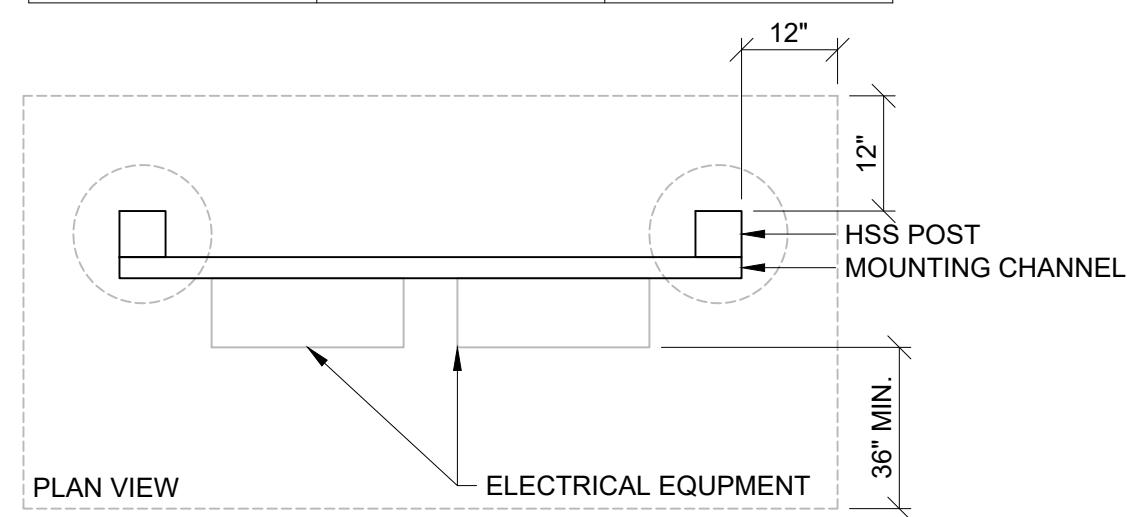


3
E-104
GROUND MAT
NOT TO SCALE



4
E-104
MOUNTING FRAME FOR EQUIPMENT
Not To Scale

MOUNTING FRAME SIZING SCHEDULE		
HSS SPACING (L)	HSS SIZE	MOUNTING CHANNEL SIZE
0'-0" - 6'-11"	HSS3X3X1/4	C4X4.5
7'-0" - 9'-11"	HSS3X3X5/16	C8X11.5
10'-0" - 12'-0"	HSS3.5X3.5X1/4	C10X30



- NOTES:
- DESIGNED FOR 120 MPH WIND SPEED.
 - GROUND CONDITIONS 300 LBF LATERAL RESISTANCE MIN.
 - EQUIPMENT DL. 1000 lbs. MAX.
 - ALL FRAME MATERIAL SHALL BE MADE OF 316 STAINLESS STEEL

SANITARY SEWER SYSTEM
LIFT STATION UPGRADES
TOWN OF CAMP HILL

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Construction Drawings

LIFT STATION #4
ELECTRICAL RISER
DIAGRAM & DETAILS

E-104

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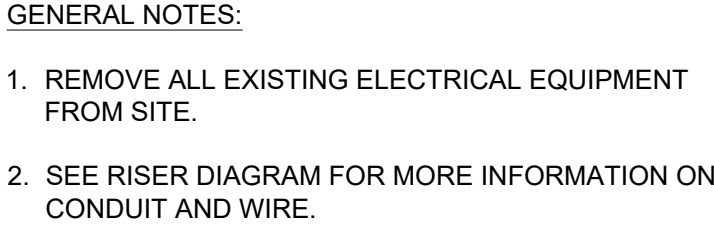
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**SANITARY SEWER SYSTEM
LIFT STATION UPGRADES**
TOWN OF CAMP HILL

CMGM 22-0156(2)

Construction Drawings

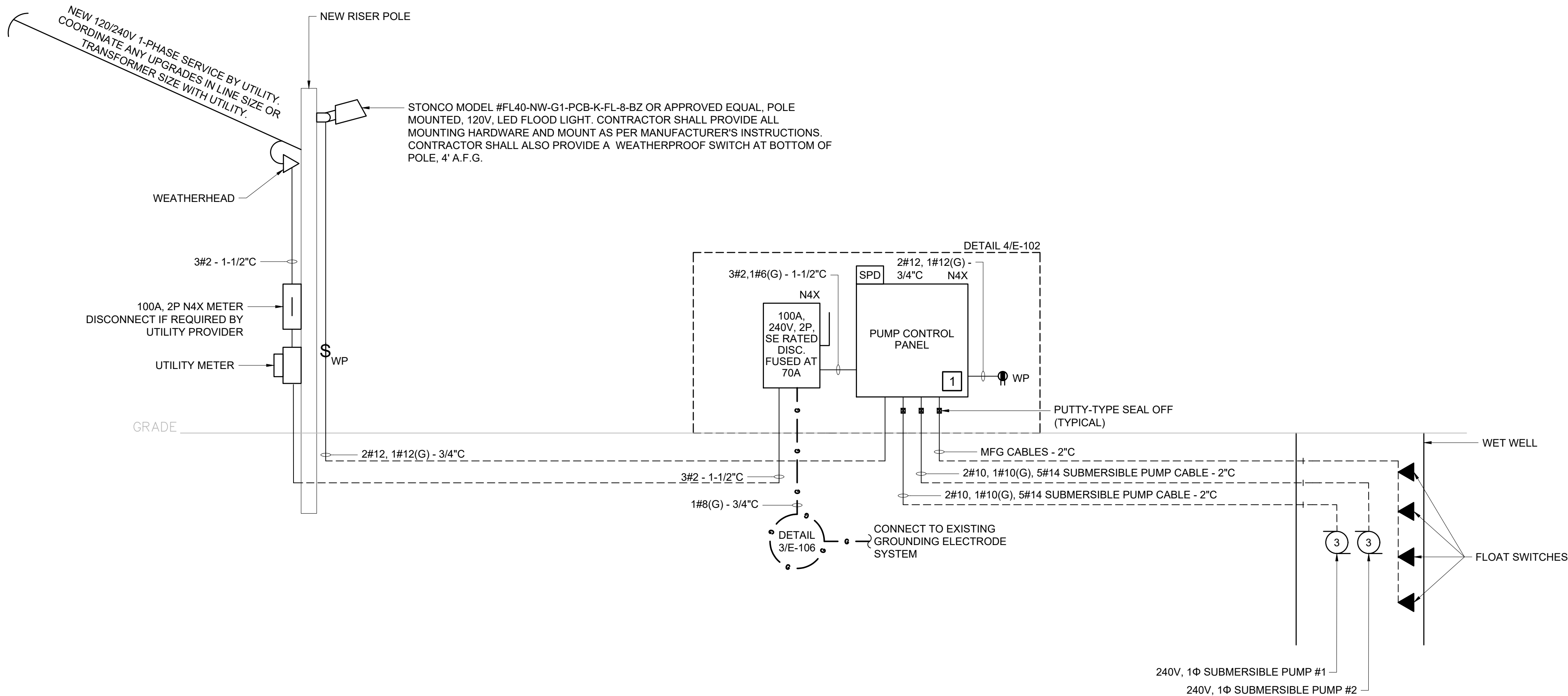


LIFT STATION #5 SITE PLAN

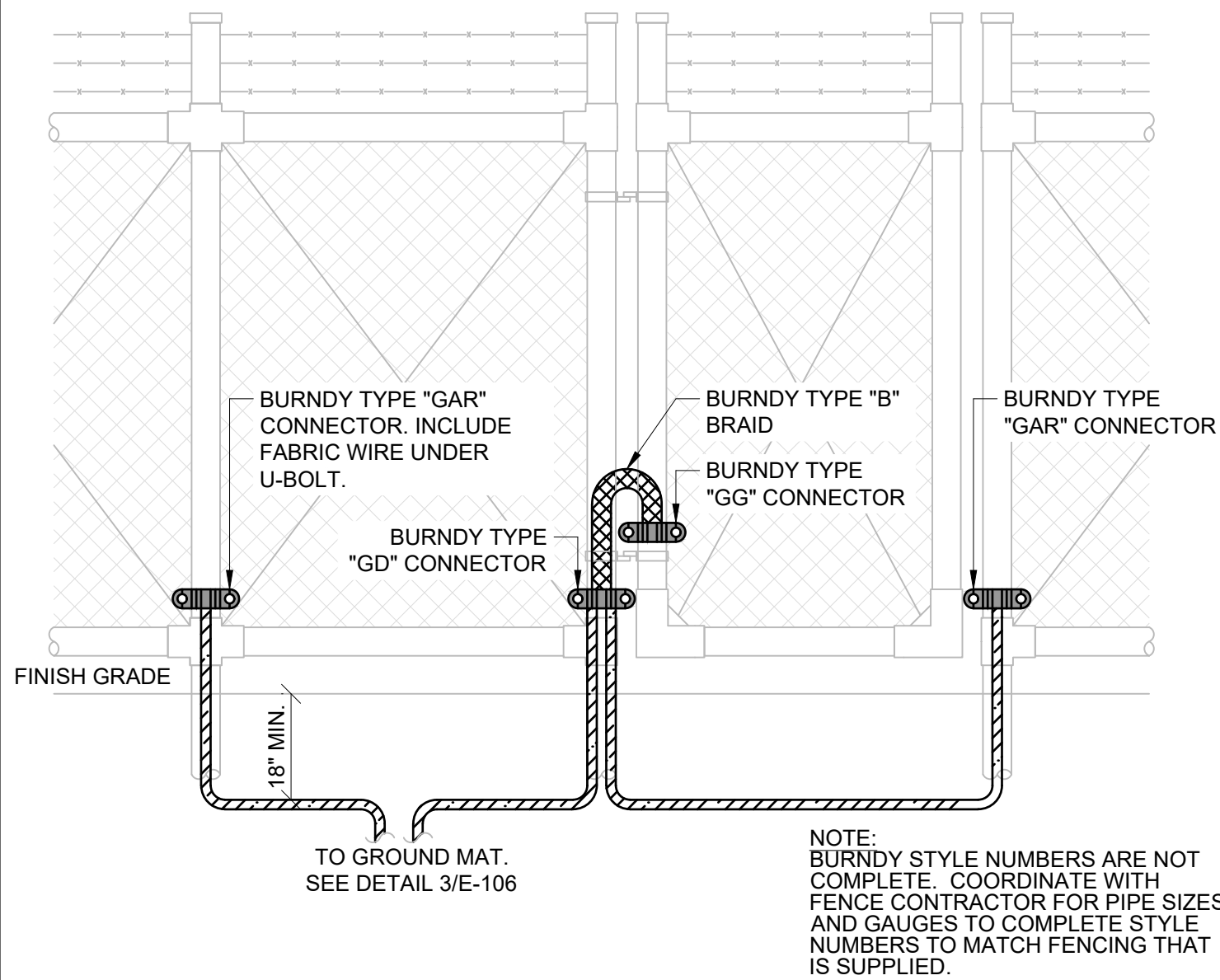
E-105

KEYED NOTES: #

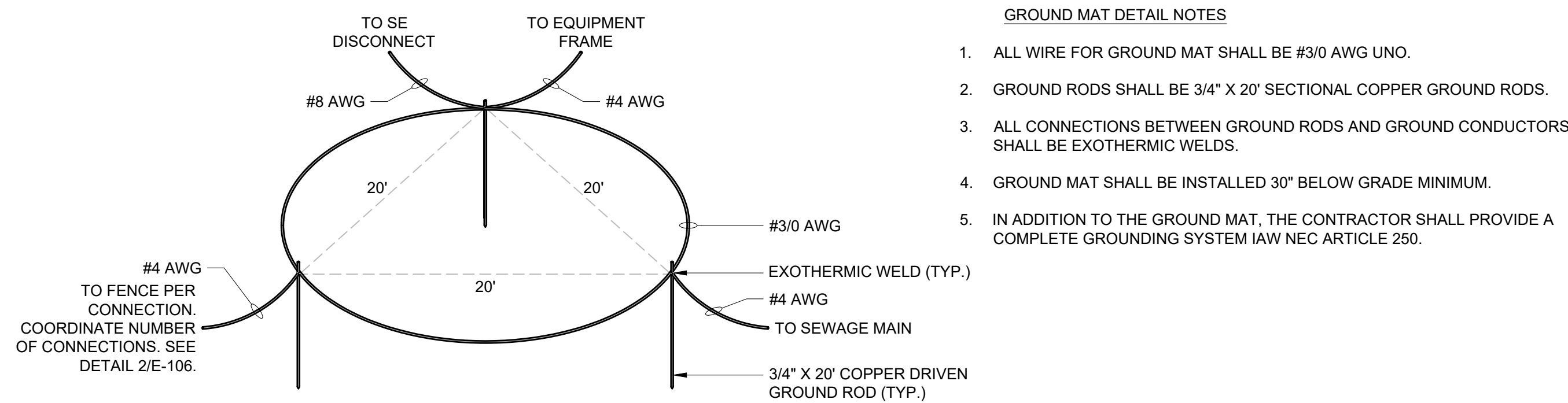
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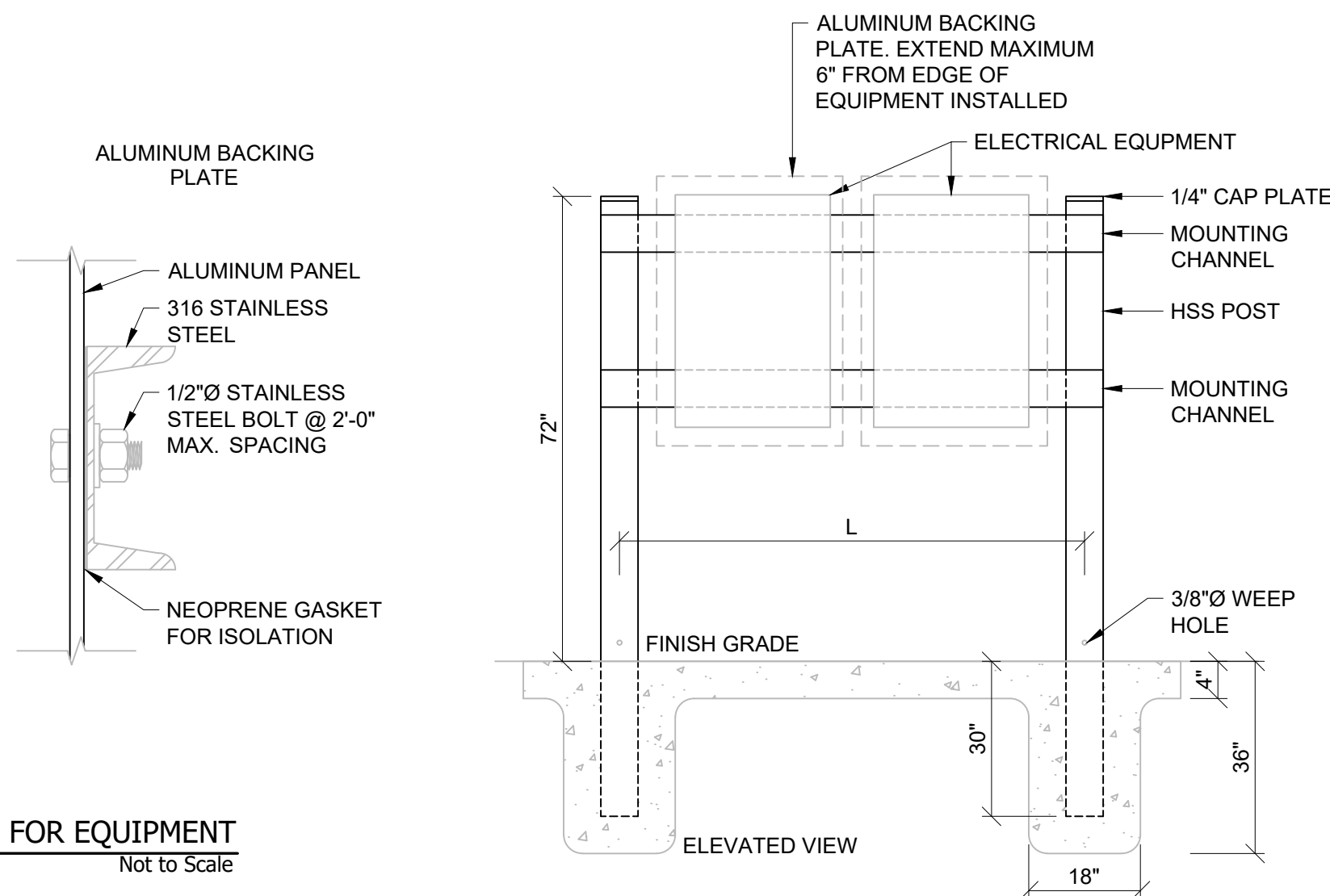
1
E-106
LIFT STATION #5 MAIN RISER DIAGRAM
Not To Scale



2
E-106
FENCE GROUNDING DETAIL
Not To Scale

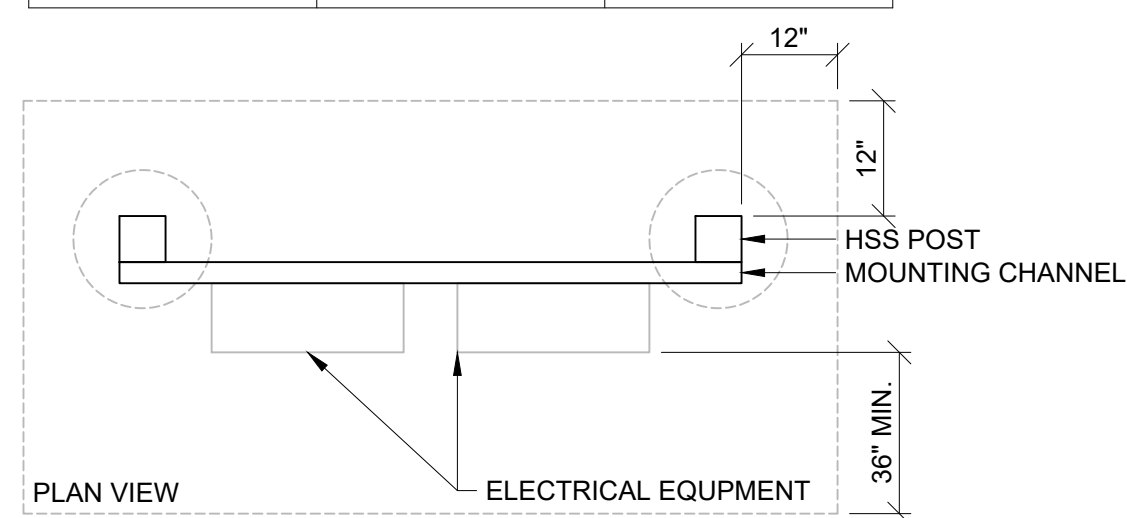


3
E-106
GROUND MAT
NOT TO SCALE



4
E-106
MOUNTING FRAME FOR EQUIPMENT
Not To Scale

MOUNTING FRAME SIZING SCHEDULE		
HSS SPACING (L)	HSS SIZE	MOUNTING CHANNEL SIZE
0'-0" - 6'-11"	HSS3X3X1/4	C4X4.5
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10'-0" - 12'-0"	HSS3.5X3.5X1/4	C10X30



- NOTES:
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 - 2) GROUND CONDITIONS 300 LBF LATERAL RESISTANCE MIN.
 - 3) EQUIPMENT DL. 1000 lbs. MAX.
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SANITARY SEWER SYSTEM
LIFT STATION UPGRADES

TOWN OF CAMP HILL

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Construction Drawings

LIFT STATION #5
ELECTRICAL RISER
DIAGRAM & DETAILS

E-106

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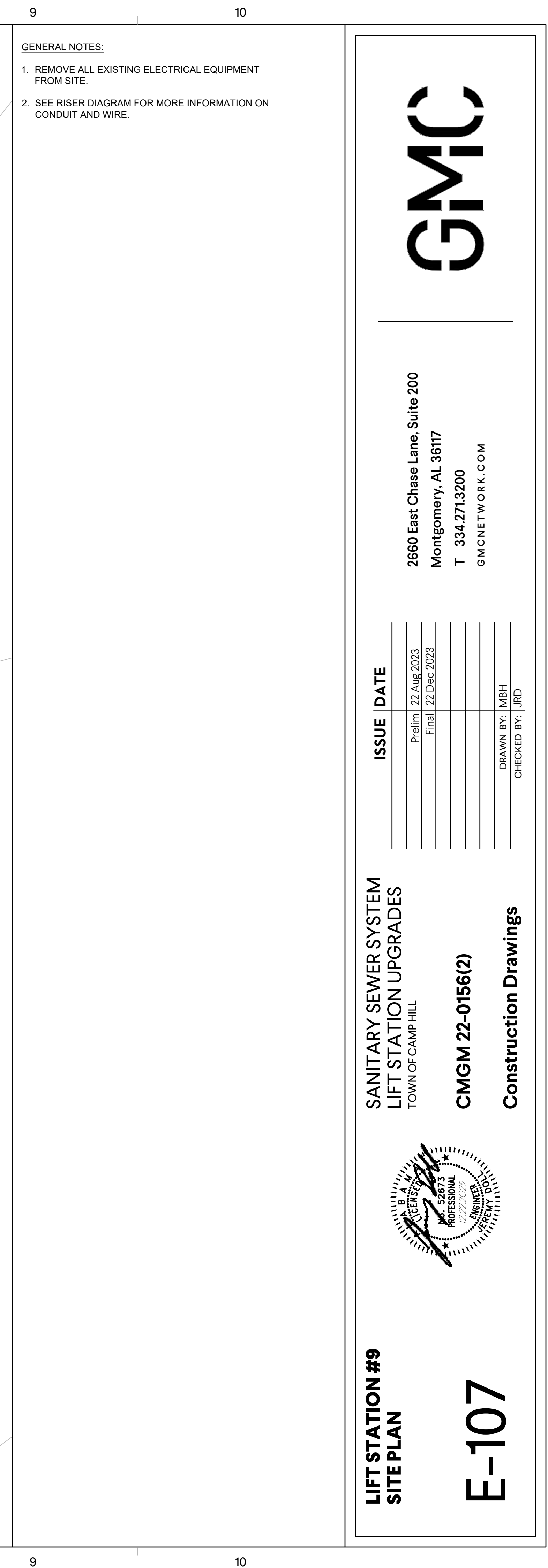
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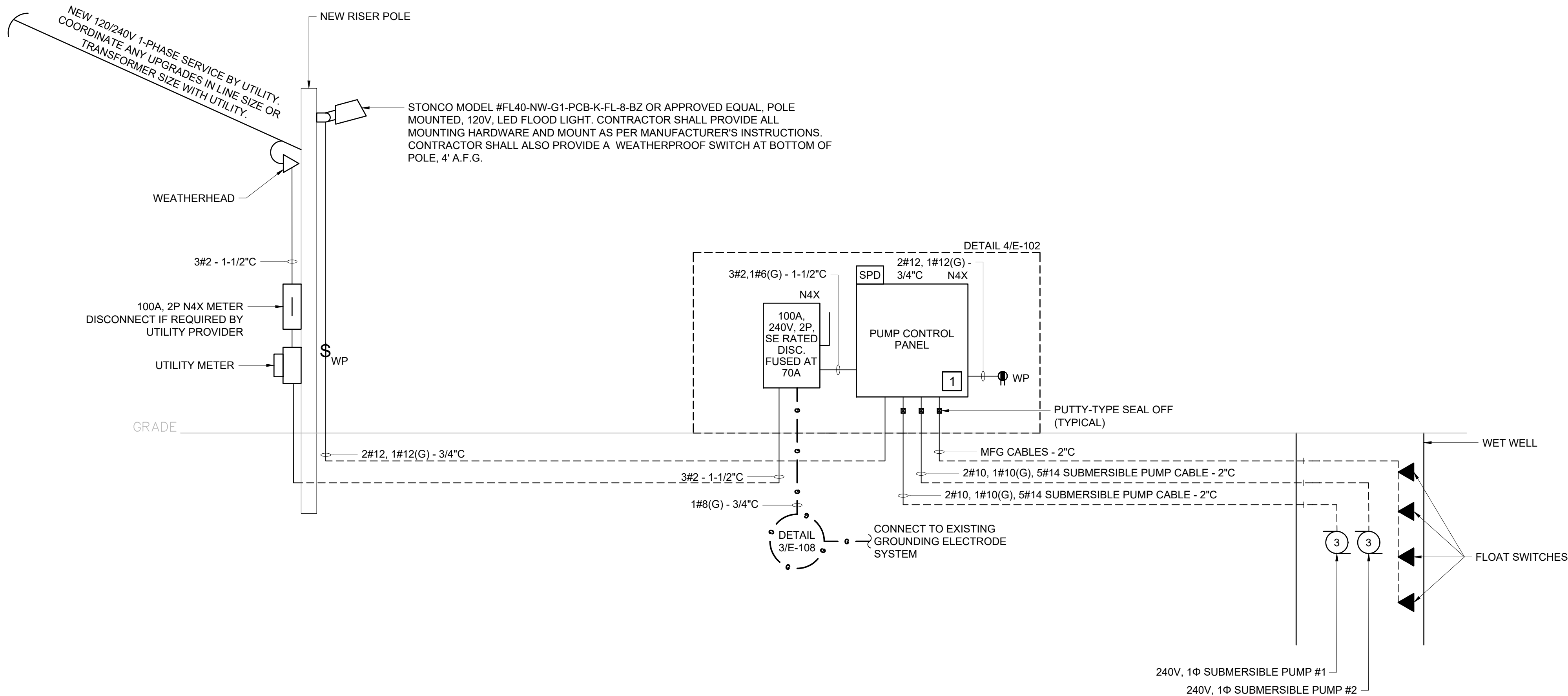
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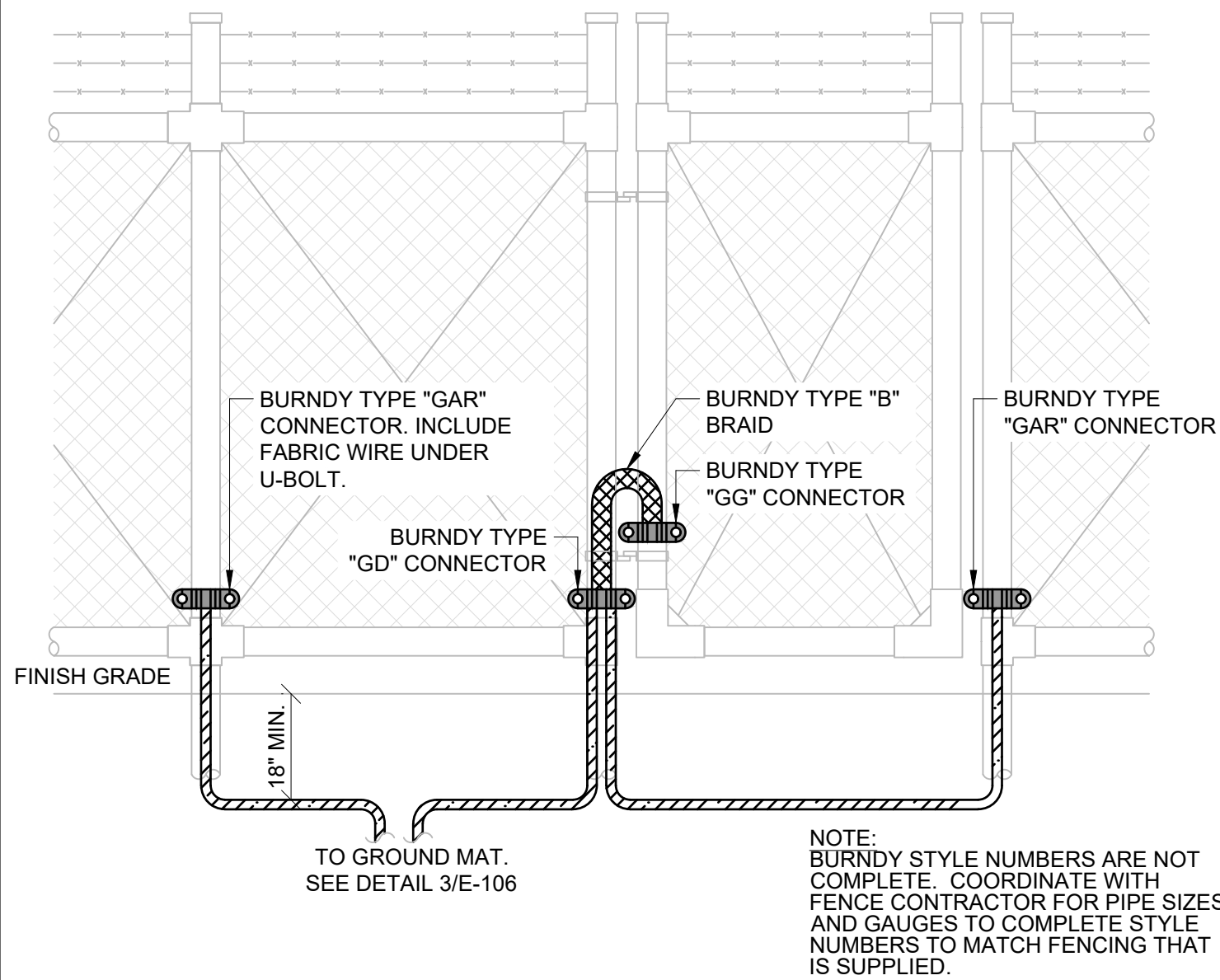


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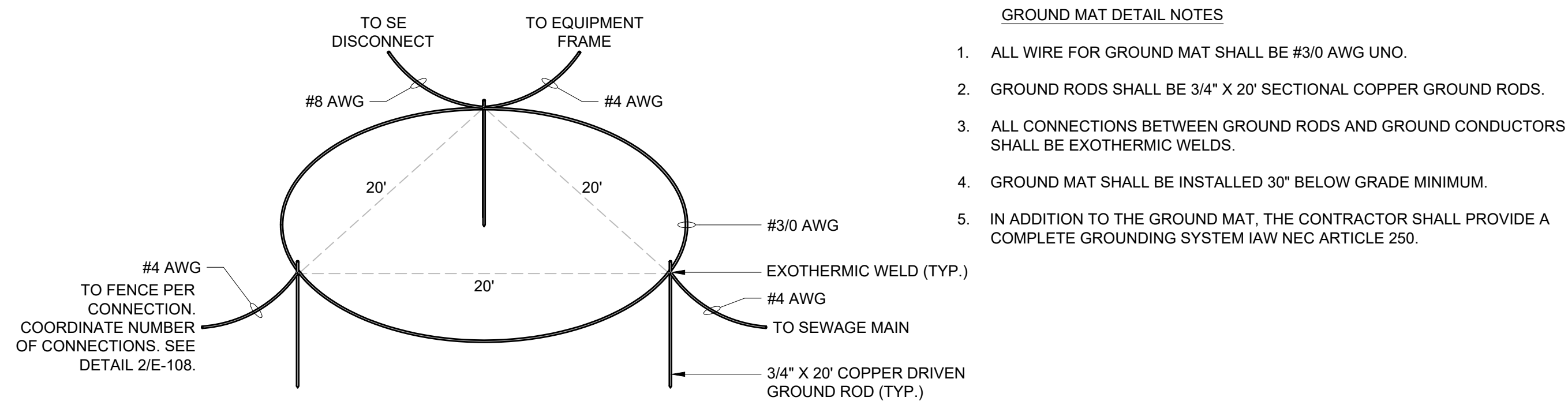
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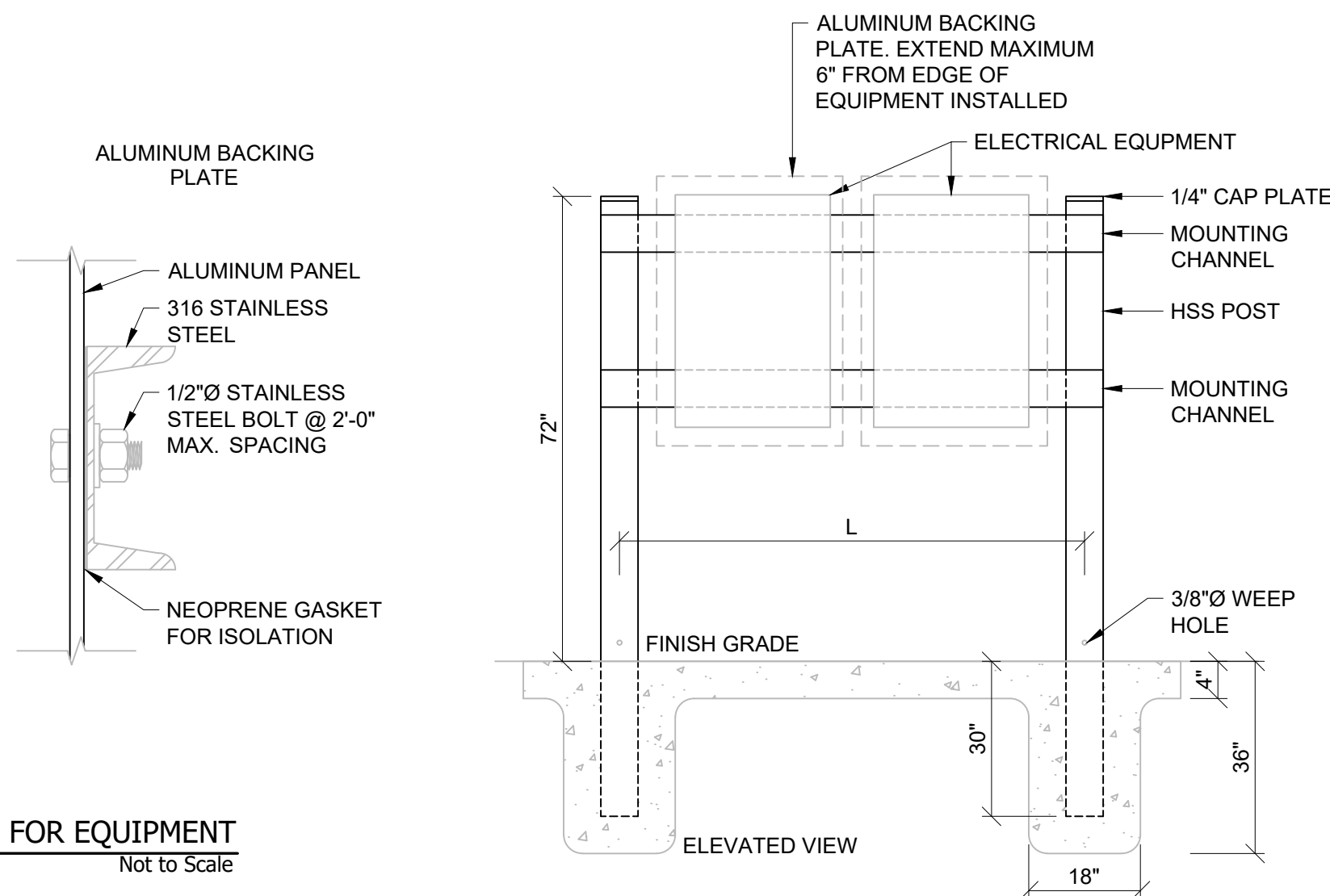
1
E-108
LIFT STATION #9 MAIN RISER DIAGRAM
Not To Scale



2
E-108
FENCE GROUNDING DETAIL
Not To Scale

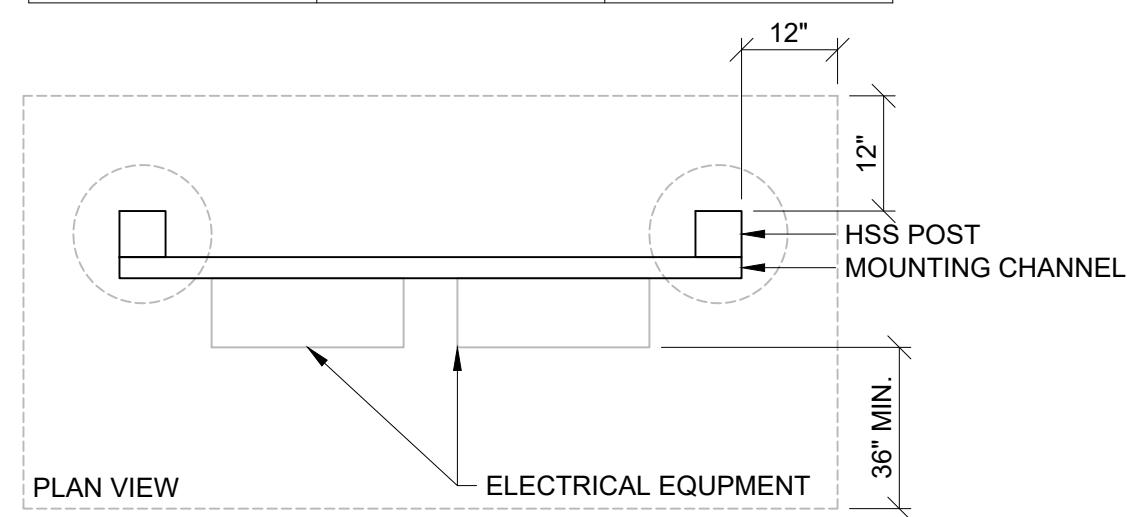


3
E-108
GROUND MAT
NOT TO SCALE



4
E-108
MOUNTING FRAME FOR EQUIPMENT
Not To Scale

MOUNTING FRAME SIZING SCHEDULE		
HSS SPACING (L)	HSS SIZE	MOUNTING CHANNEL SIZE
0'-0" - 6'-11"	HSS3X3X1/4	C4X4.5
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SANITARY SEWER SYSTEM
LIFT STATION UPGRADES
TOWN OF CAMP HILL

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Construction Drawings

LIFT STATION #9
ELECTRICAL RISER
DIAGRAM & DETAILS

E-108

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