CITY OF TAMPA, FLORIDA

PLANS FOR CURIOSITY CREEK

Contract 26-C-00038 Pump Station Resiliency and Reliability Improvements Contract A

These Plans for the referenced projects come from uncontrolled sources and do not conform to WCAG 2.1 at level AA. Individuals with disabilities seeking assistance with the individual project plans or specifications should e-mail Contractadministration@tampagov.net.

City of Tampa

Contract Administration Department

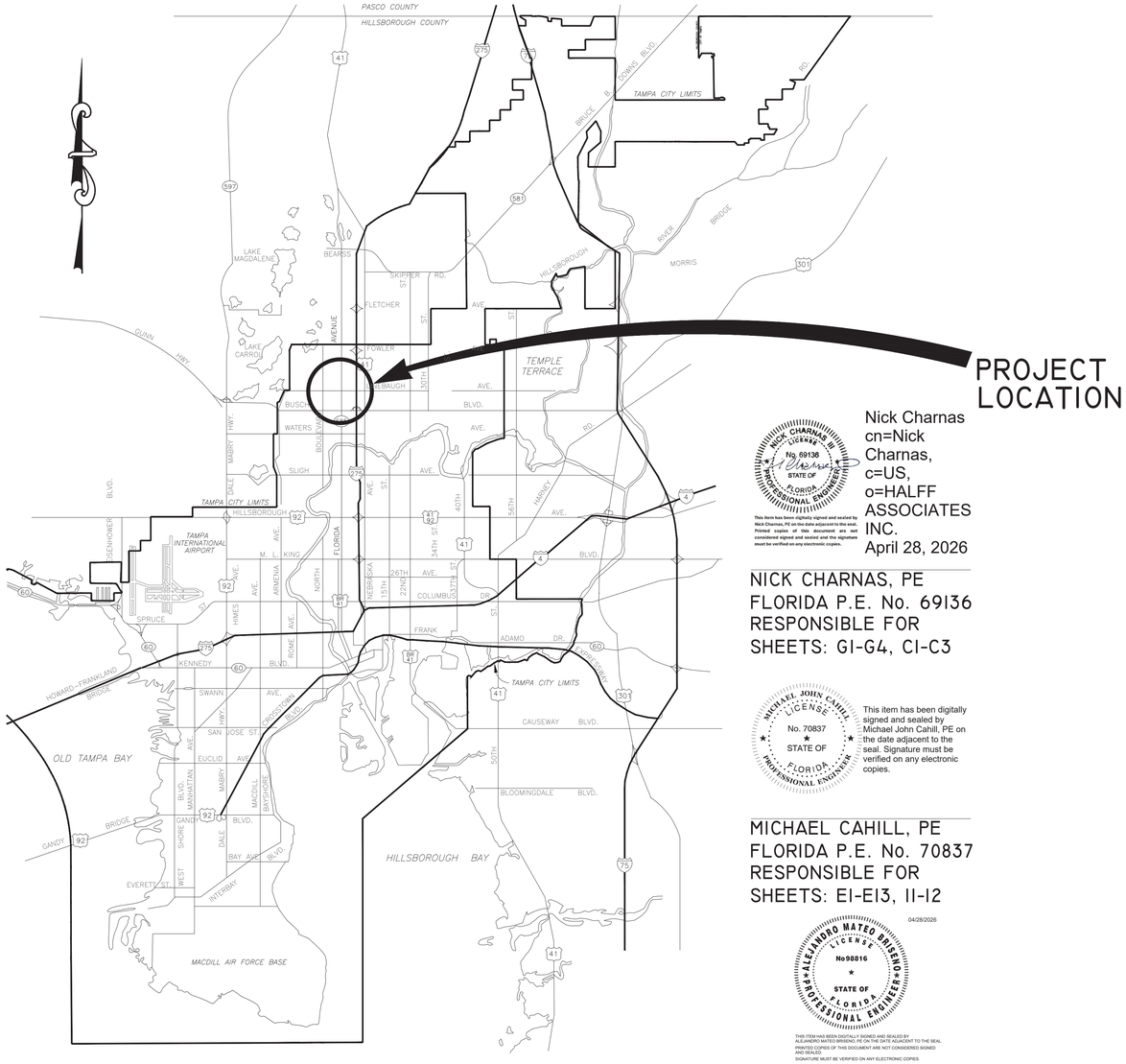
Tampa Municipal Office Building

306 E Jackson Street #280A4N Fourth Floor

Tampa, Florida 33602

SEPTEMBER 2026

SW 2026-03



Nick Charnas
cn=Nick Charnas,
c=US,
o=HALFF ASSOCIATES INC.
April 28, 2026

NICK CHARNAS, PE
FLORIDA P.E. No. 69136
RESPONSIBLE FOR
SHEETS: G1-G4, C1-C3

This item has been digitally signed and sealed by Michael John Cahill, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

MICHAEL CAHILL, PE
FLORIDA P.E. No. 70837
RESPONSIBLE FOR
SHEETS: E1-E13, I1-I2

04/28/2026

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALEJANDRO MATEO BRISENO, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ALEJANDRO BRISENO, PE
FLORIDA P.E. No. 98816
RESPONSIBLE FOR
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PREPARED BY:

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CITY of TAMPA

CITY OF TAMPA FLORIDA • ORGANIZED JULY 15 1887 • MASCOTTE

DEPARTMENT OF MOBILITY DEPARTMENT STORMWATER ENGINEERING DIVISION

ISSUED FOR BID PLANS

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

26-C-00038

Plot Date: Monday, April 27, 2026

No.	DATE	REVISIONS
1		
2		
3		

DES: ADW
DRN: ADW
CKD: NCIII
DATE: 04/27/2026

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION
COVER SHEET

SHEET G1 OF 27

SW 2026-03

LEGEND

	UP to 18" & SMALLER	24" & LARGER
EX STORMWATER		
FORCE MAIN		
PIPES & MANHOLES		
CATCH BASIN, GRATE		
DITCHES, SWALES		
PROP STORMWATER		
FORCE MAIN		
PIPES & MANHOLES		
OTHER UTILITIES		
SAN SEWER & MANHOLES		
WATER LINE		
GAS LINE		
ELECTRICAL CABLE or DUCT		
TELEPHONE CABLE or DUCT		
TV CABLE		
VALVE		
HYDRANT		
CLEAN OUT		
EXISTING WYE		
POWER POLE		
TELEPHONE POLE		
GUY POLE		
GUY WIRE		
VALVE VAULT	V	
WATER METER	M	
ELECTRICAL MANHOLE or VAULT	E	
TELEPHONE MANHOLE or VAULT	T	
TRAFFIC BOX or VAULT	TR	

OTHER FEATURES

RIGHT of WAY LINE	R/W
EDGE of PAVEMENT	
BUILDING LIMIT	1236
PROPERTY OWNERSHIP	Z
FENCE	
CONIFER	6"
PALM	8"
OAK	10"
OTHER	12"
SHRUB	
HEDGE	
RAILROAD TRACKS	
IRON PIPE	
CONCRETE MONUMENT	

ABBREVIATIONS

TOP of PIPE	TP
INVERT ELEVATION	IE or INV EL
RIGHT of WAY	R/W
MANHOLE	MH
POLYVINYL CHLORIDE PIPE	PVCP
VITRIFIED CLAY PIPE	VCP
ADVANCED DRAINAGE SYSTEM	ADS
DUCTILE IRON PIPE	DIP
REINFORCED CONCRETE PIPE	RCP
CONCRETE PIPE	CP
APPROXIMATE LOCATION	AL
BENCH MARK	BM
POINT of INTERSECTION	PI

INDEX

LOCATION MAP
1" = 500'

Plot Date: Monday, April 27, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS
1			4		
2			5		
3			6		

DES: ADW
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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

LEGEND, INDEX, & LOCATION MAP

SHEET G2 OF 27

SW 2026-03

GENERAL NOTES

1. EXISTING DIMENSIONS ARE BASED ON THE BEST INFORMATION AVAILABLE. TRUE DIMENSIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO LAYOUT AND SHOP DRAWING SUBMITTALS.
2. LOCATION OF EXISTING FORCE MAIN AND OTHER UTILITIES TO BE VERIFIED BY CONTRACTOR AT TIME OF CONSTRUCTION. CONTRACTOR SHALL RELOCATE ALL UTILITIES ON SITE THAT ARE IN THE PATH OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE RELOCATIONS WITH THE DEPARTMENT AND WITH EACH UTILITY AS NECESSARY.
3. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (EASILY READABLE). NO FAXED SHEETS OR POOR QUALITY COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS FOR WORK WITHIN THE RIGHT OF WAYS.
5. REFER TO GEOTECHNICAL REPORT BY MESKEL & ASSOCIATES ENGINEERING DATED FEBRUARY 23RD, 2025 FOR EXISTING SOIL PROPERTIES. CONTRACTOR TO FOLLOW GEOTECHNICAL ENGINEER'S RECOMMENDATIONS CONTAINED WITHIN SAID REPORT.
6. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER. CONTRACTOR SHALL SOD ALL UNPAVED AREAS.
7. ALUMINUM ACCESS COVERS SHALL BE U.S. FOUNDRY, OR EQUAL. ACCESS COVERS SHALL HAVE STAINLESS STEEL HARDWARE AND SHALL OPEN IN THE DIRECTION CORRESPONDING TO THE HINGES SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE INSTALLATION AND CONFIGURATION.
8. BOLTS, WASHERS, NUTS, SCREWS, HOOKS, BRACKETS, HINGES, ETC. INSTALLED WITHIN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
9. FILL ALL OPENINGS AROUND PIPES (OR SLEEVES) AND ALL VOIDS IN STRUCTURAL WALLS WITH NON-SHRINK GROUT EXCEPT WHERE OTHERWISE SPECIFIED.
10. CONTRACTOR SHALL COORDINATE WITH TECO REGARDING THE PROPOSED ELECTRCAL SERVICE EQUIPMENT.
11. ALL METAL PIPE, FITTINGS, SUPPORTS, VALVES, ETC. SHALL RECEIVE:
(A) SHOP COAT – ONE COAT, 4 MILS, PORTER GLAZE 4300 EPOXY PRIMER, MADE BY PORTER PAINTS – GRAY IN COLOR.
(B) FIELD COAT – TWO COATS, 10 MILS, PORTERTUF 2000 HB COAL TAR EPOXY, MADE BY PORTER PAINTS – BLACK IN COLOR.
12. ALL METAL SURFACES COMING IN CONTACT WITH CONCRETE SHALL BE PROVIDED WITH NEOPRENE PADS OR 2 COATS OF COAL TAR EPOXY WITH PROPER SURFACE PREPARATION. CONTRACTOR SHALL SUBMIT SYSTEM(S) FOR APPROVAL.
13. ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1988.
14. LOCATIONS, ELEVATIONS AND DIMENSIONS OF THE EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS, OF ALL EXISTING UTILITIES, STRUCTURE, AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION. GAS, VERIZON, WATER MAIN, WATER SERVICES, SEWER LATERALS AND OTHER SUBSURFACE PIPING HAS NOT BEEN LOCATED. ENGINEER OF RECORD SHOWS LOCATIONS AS APPROXIMATE AS PROVIDED BY OTHERS.
15. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION DENOTED BY UPPER AND LOWER CASE. PROPOSED WORK DENOTED BY ALL UPPER CASE.
16. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
17. WHEN IN CONFLICT, UTILITY POLES, GAS LINES, UNDERGROUND ELECTRIC, TELEPHONE AND OTHER COMMUNICATION CABLES AND CONDUIT WILL BE RELOCATED BY THE RESPECTIVE UTILITY OWNERS AT THEIR OWN EXPENSE.
18. PRIOR TO ANY CONSTRUCTION, CONTACT TAMPA ELECTRIC COMPANY (PH: 813-228-4111 OR 813-275-3037) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO TO RELOCATE ANY CONFLICTING LINES.
19. PRIOR TO ANY CONSTRUCTION, CONTACT TECO GAS (813-275-3743) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO GAS TO RELOCATE ANY CONFLICTING LINES.
20. PRIOR TO ANY CONSTRUCTION, CONTACT VERIZON (813-978-2164) FOR EXACT LOCATION OF UNDERGROUND LINES. VERIZON TO RELOCATE ANY CONFLICTING LINES.

GENERAL NOTES (CONT.)

21. STATIONS AND OFFSETS GIVEN ARE TO THE CENTER LINE OF THE INLETS AND MANHOLES, AND REFER TO THE SURVEY BASE LINES.
22. THE SOLID WASTE DEPARTMENT (813-348-1146) IS TO BE NOTIFIED PRIOR TO ANY STREET CLOSURES IN THE PROJECT AREA.
23. TREE REMOVAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING SITE CLEARING PERMIT PRIOR TO START OF ANY CONSTRUCTION.
24. NECESSARY ROOT PRUNING AND TRIMMING OF BRANCHES SHALL BE DONE BY A CERTIFIED ARBORIST.
25. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE LATEST "TREE ORDINANCE" OF THE CITY OF TAMPA. THE CONTRACTOR IS REQUIRED TO RELOCATE THE TREES REMOVED AS A PART OF THE NECESSARY CONSTRUCTION INDICATED ON PLANS.
26. SOD ALL THE DISTURBED AREAS WITHIN APPROVED TRENCH LIMITS.
27. WHERE CONNECTIONS TO EXISTING DRIVES AND WALKS ARE NOT INDICATED ON THE PLANS, PROPER CONNECTIONS SHALL BE MADE AT THE DIRECTION OF THE ENGINEER.
28. STREET SIGNS, STREET MARKERS AND R-O-W MARKERS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER.
29. MAILBOXES SHALL BE REMOVED AND REPLACED IN-KIND.
30. DRIVEWAYS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH CHAPTER 25 OF THE CITY CODE AND THE TRANSPORTATION TECHNICAL MANUAL. DEVIATION FROM ESTABLISHED STANDARDS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.
31. THE CONTRACTOR SHALL PROTECT ALL TREES IN THE VICINITY OF THE PROPOSED CONSTRUCTION IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE. NO TREES SHALL BE PRUNED WITHOUT PRIOR APPROVAL FROM THE CITY OF TAMPA PARKS & RECREATION DEPARTMENT, NATURAL RESOURCES DIVISION, AND SHALL BE COMPLETED BY A CERTIFIED ARBORIST. ROOT PRUNING MAY BE REQUIRED AT CERTAIN LOCATIONS AND SHALL BE COMPLETED IN ACCORDANCE WITH CHAPTER 13 TECHNICAL MANUAL SPECIFICATIONS.
32. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CITY OF TAMPA DEPARTMENT ORDINANCES AND REGULATIONS.
33. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL APPLICABLE PERMITS ON-SITE AND SHALL BE RESPONSIBLE TO ADHERE TO ALL PERMIT CONDITIONS DURING CONSTRUCTION.
34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
35. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100%).

TREE NOTES

1. ALL WORK WITHIN THE PROTECTIVE RADIUS OF THE TREES MUST BE COORDINATED WITH PLANNING AND DEVELOPMENT, IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE AND NATURAL RESOURCES SECTION WHO CAN BE REACHED AT (813) 274-3100.
2. PRIOR TO ANY CONSTRUCTION ACTIVITIES, PROTECTIVE BARRICADES SHALL BE INSTALLED AROUND ALL PROTECTED TREES AND GRAND TREES WITHIN FIFTEEN FEET OF THE FORCE MAIN OR PUMP STATION.
   a) BARRICADES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET FROM A PROTECTIVE TREE AND A MINIMUM OF TWENTY (20) FEET FROM A GRAND TREE.
3. NO CHANGES SHALL TAKE PLACE TO THE PREDEVELOPMENT CONDITIONS WITHIN THE PROTECTIVE ROOT ZONE DURING THE CONSTRUCTION PROCESS, UNLESS NOTED ON THE PLANS.
4. NO PARKING OR STORAGE OF VEHICLES, EQUIPMENT, OR MATERIALS IS ALLOWED WITHIN THE PROTECTIVE ROOT ZONE.
5. ALL TREE TRIMMING AND ROOT PRUNING MUST BE SUPERVISED BY A CERTIFIED ARBORIST AND PERFORMED CLEANLY WITH APPROVED CUTTING TYPE EQUIPMENT, SUCH AS A CHAINSAW, HAND SAW, OR OTHER CUTTING EQUIPMENT.

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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

GENERAL NOTES

SHEET G3 OF 27

SW 2026-03

SITE NOTES

1. ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN CITY OF TAMPA STORMWATER TECHNICAL MANUAL, LATEST VERSION.
2. ALL RIGHT-OF-WAY INSTALLATIONS MUST COMPLY WITH THE CITY OF TAMPA STANDARDS AND TECHNICAL MANUALS.
3. IN AREAS WHERE FILL MATERIAL IS REQUIRED, THE EXISTING VEGETATION AND ROOTS SHALL BE REMOVED PRIOR TO PLACING ANY FILL MATERIAL. THE FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 12 INCHES AS MEASURED LOOSE, AND COMPACTED TO A UNIFORM DENSITY ASTM D698. THE MATERIAL SHALL BE COMPACTED AT A MOISTURE CONTENT PERMITTING THE SPECIFIED COMPACTION. THE FILL SHALL BE TESTED BY THE CITY OF TAMPA THROUGH THE CITY INSPECTOR AND THE RESULTS SUPPLIED TO THE ENGINEER.
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSULT WITH THE ENGINEER FOR MAKING ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS. HOWEVER, THIS IN NO WAY RELIEVES THE CONTRACTOR OF HIS RESPONSIBILITY FOR CONSTRUCTING THE PROJECT TO ACCOMPLISH THE INTENT OF THE PLANS.
5. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE COMMENCING CONSTRUCTION UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.
6. EROSION/SEDIMENTATION CONTROL: THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN), IF REQUIRED TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND, AS REQUIRED, IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE, EITHER BY NATURAL DRAINAGE OR BY VEHICLE TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES.
7. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREA TO CONTROL BOTH SIGNIFICANT WIND EROSION OR FUGITIVE DUST.
9. CONTRACTOR TO REFER TO SPECIFICATIONS FOR CONCRETE STRENGTH, TESTING, AND FINISHING.
10. ALL GRADING OF SIDEWALKS AND PEDESTRIAN WALKWAYS SHALL MEET MINIMUM 'ADA' STANDARDS. SIDEWALK CROSS SLOPES AND DRIVEWAY CROSSINGS FOR SIDEWALKS TO BE 2.0% MAX. SLOPE. ALL SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 5% WITHOUT USE OF PROPER RAMPS FOR FDOT OR FLORIDA BUILDING CODE. CONTRACTOR SHALL FIELD-VERIFY SIDEWALK FORM BOARDS PRIOR TO CONSTRUCTING WALKWAYS.
11. ALL INLET GRATE SEATS SHALL BE GALVANIZED GRATE SEATS.

CONSTRUCTION NOTES

1. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION EXCAVATION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICES.
2. CONTRACTOR TO SOD DISTURBED RIGHT-OF-WAY WITH BAHIA SOD AND/OR LIKE KIND OF EXISTING SOD.
3. CONTRACTOR TO RESTORE DISTURBED RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS WITH BAHIA, ST. AUGUSTINE, AND/OR LIKE KIND OF SOD.
4. CONTRACTOR SHALL RESTORE ALL NEIGHBORING RESIDENTIAL YARDS WITH LIKE KIND OF LANDSCAPING, MAILBOXES, WALK WAYS, DRIVEWAYS, ETC. EACH YARD SHALL BE RESTORED TO EXISTING CONDITIONS UP TO AND INCLUDING FROM BACK OF CURB TO RIGHT OF WAY LINE.
5. CONTRACTOR TO PROTECT EXISTING IRRIGATION SYSTEMS AND ANY OTHER UTILITIES IN RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS AND/OR RESTORE ANY DAMAGED SYSTEMS DURING CONSTRUCTION BACK TO EXISTING CONDITIONS.
6. CONTRACTOR TO PROTECT EXISTING PRIVATE FENCES DURING CONSTRUCTION OR REPLACE IN LIKE KIND.
7. CONTRACTOR TO PROTECT THE EXISTING CONDUIT THAT IS TO REMAIN.
8. ALL REMOVAL WITHIN PROPOSED EXCAVATION AREAS IS PART OF PIPE & DITCH CONSTRUCTION.
9. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICE ITEMS.
10. CONTRACTOR SHALL CONTACT SUNSHINE WITHIN 48 HOURS PRIOR TO ANY CONSTRUCTION.
11. CONTRACTOR TO PROTECT ALL POWER POLES & SUBSURFACE UTILITIES. IN THE EVENT OF A CONFLICT THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY PROVIDER RESPONSIBLE FOR THE RELOCATION.
12. ALL RCP PIPES SHALL BE CLASS III WITH MINIMUM COVER OF 18". ALL RCP PIPES WITH LESS THAN 18" OF COVER ON RESIDENTIAL ROADS SHALL BE CLASS IV.
13. CONCRETE STRUCTURES AND JUNCTION BOXES MAY BE PRECAST OR CAST IN PLACE.
14. FOR BRICK/PAVER DRIVEWAYS THE INTENT IS TO STACK AND STORE ANY DISTURBED PAVERS, AND TO RESTORE ANY DAMAGED PAVERS AS CLOSE AS POSSIBLE.

SURVEY NOTES:

1. FIELD WORK PERFORMED BY GEORGE F. YOUNG, INC., DATE OF SURVEY: 04/03/2025.

Plot Date: Monday, April 27, 2026

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ATLAS

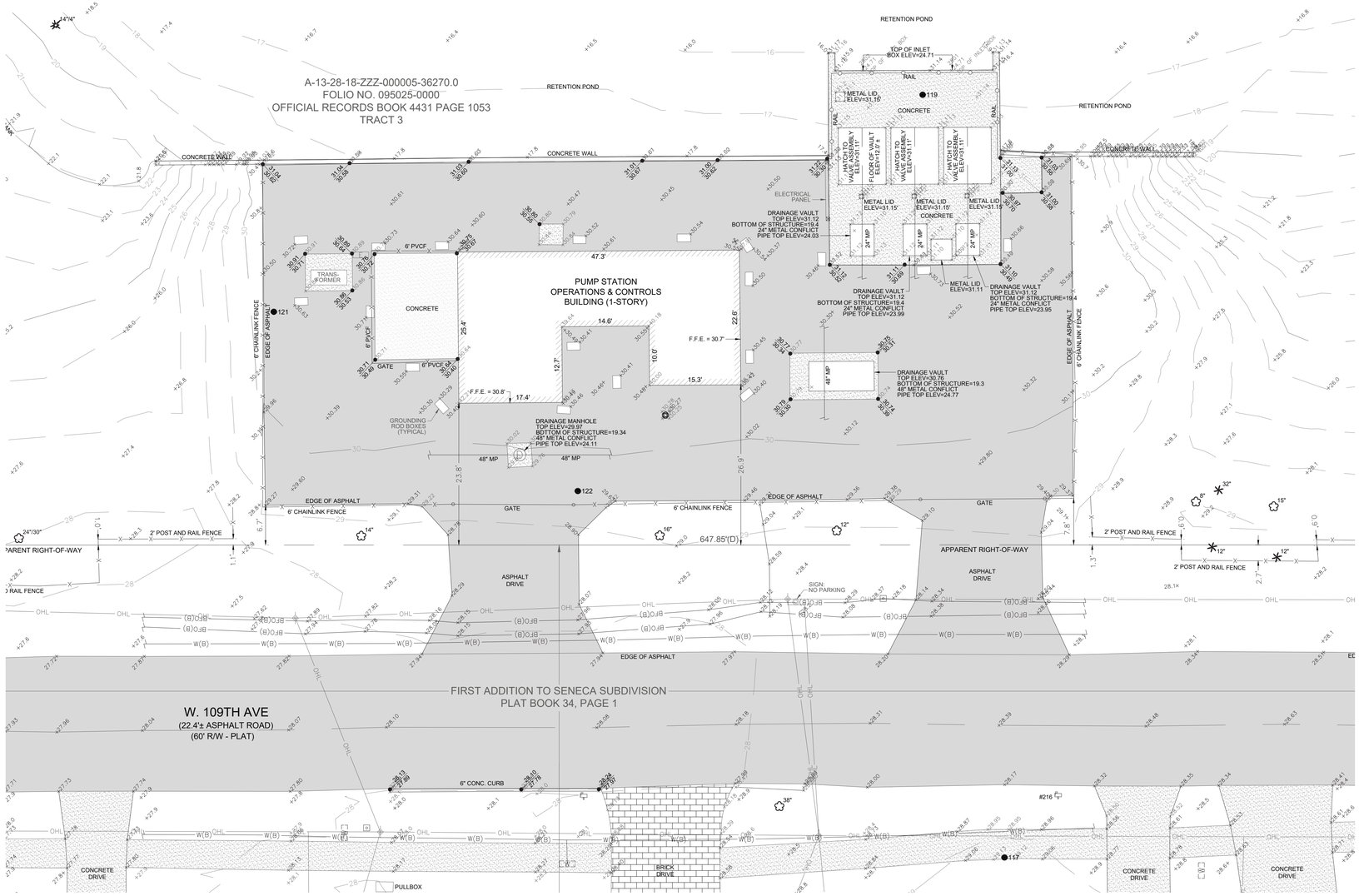
CITY of TAMPA
Mobility Department
Stormwater Engineering Division

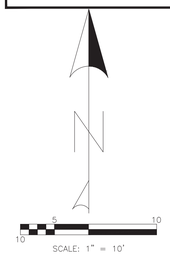
PUMP STATION RESILIENCY AND RELIABILITY
IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

GENERAL NOTES

SHEET G4 OF 27

SW 2026-03





LEGEND:

EXISTING ASPHALT PAVEMENT

EXISTING CONCRETE

EXISTING BRICK DRIVEWAY

SURVEYOR'S NOTES:

1. A Topographic and Record Survey of 215 West 109th Avenue, City of Tampa, Florida, lying in Section 13, Township 28 South, Range 18 East.
2. Survey Date: April 3, 2025.
3. HORIZONTAL: Coordinates of site control points were established by Real-Time Kinematic (RTK) GPS methodology, using the Florida Permanent Reference Network (FPRN) for corrections and tied to NGS Monument *E A I* (PID=DG8947, Northing=1,346,545.76, Easting=499,955.68. Coordinates are relative to the North American Datum of 1983, 2011 Adjustment (NAD83/11), Florida State Plane Coordinate System, West Zone, U.S. Survey Feet.
4. VERTICAL: Elevations of site control points were established by differential digital level, and are relative to the North American Vertical Datum of 1988, (NAVD88) based on Southwest Florida Water Management District Benchmark *670748* (Elevation=35.05 feet).
5. TOPOGRAPHIC SURVEY includes any hardscape elements and above ground utilities, including but not limited to all retaining walls, fences, culverts, drainage structures, paved ditches, water meters, valves, junction boxes, manholes, driveways, parking lots, utility/light poles, overhead utility lines, trees of 4" diameter or greater, and any other significant feature within the survey areas identified above. Visible above ground utilities are shown herein however additional utilities may exist. The location of footers, foundations and structures beneath the ground surface has not been determined.
6. Excluded from this survey are hedges, small bushes, sprinkler systems and non-permanent landscaping such as planters with timber borders, and vertical location of overhead utility lines, .
7. RECORD SURVEY includes apparent right-of-way and subsurface utilities.
8. This is not a Boundary Survey. Apparent right-of-way and property lines shown herein are based upon plats and deeds available to the public on the Hillsborough County Property Appraiser Website, and tied to limited found monumentation. A title search was not obtained for this survey. Apparent Right-of-Way should be considered approximate and used for reference purposes only. Additional easements may exist.
9. A ticket was filed with Sunshine One-Call to mark subsurface utilities in the field. Markings were found and located by George F. Young Inc. on subsequent field visits and shown herein as Quality Level B utility designation. George F. Young Inc. and the undersigned make no representation as to the accuracy of said markings or lack thereof.
10. Forty-Eight (48) hours before digging, boring, pile-driving, planting, etc, call Sunshine State One Call System, 1-800-432-4770 so that underground utilities may be field spotted.
11. This map of survey is intended to be displayed at a scale of 1" = 10' or 1:120.
12. Additions or deletions to survey maps or reports by other than the signing party or parties are prohibited without the written consent of the signing party or parties.
13. Certification is understood to be an expression of professional opinion by the signing surveyor and mapper based on the surveyor and mapper's knowledge and information, and it is not a guarantee or warranty, express or implied.
14. This map of survey or the copies thereof are not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.
15. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
16 This report has been digitally signed and sealed under Rule 5J-17.062 of the Florida Administrative Code.

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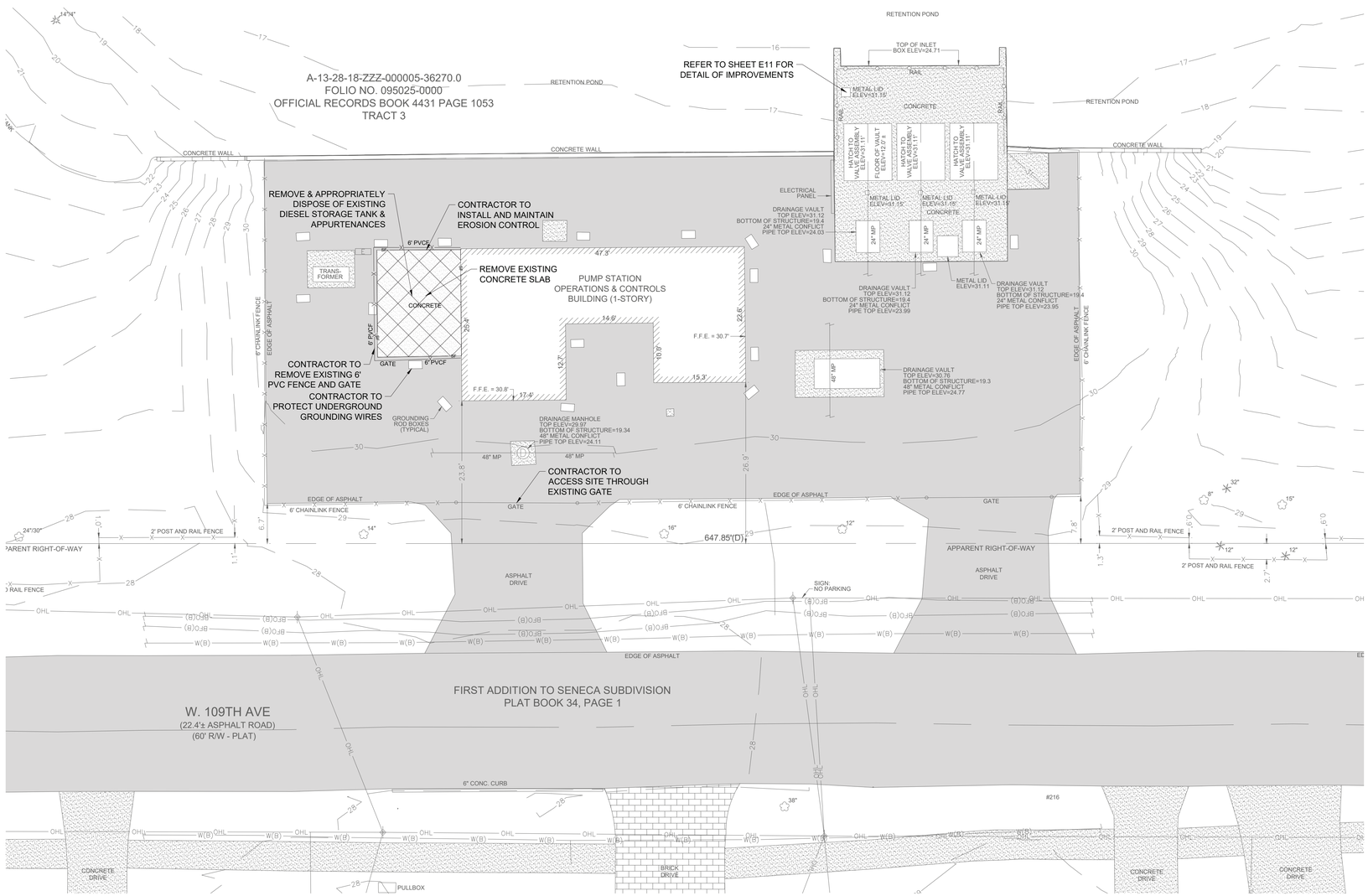
PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

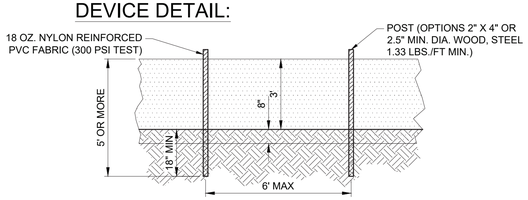
EXISTING CONDITIONS

SHEET C1 OF 27

SW 2026-03



EROSION/SEDIMENTATION CONTROL DEVICE DETAIL:



NOTES:

1. CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES. THE DEVICE SHALL BE INSTALLED IN THE LOCATIONS ON THE DRAWINGS AND ANYWHERE ELSE THERE IS A POTENTIAL FOR EROSION AS SEDIMENT TO EXIT THE WORK AREA.
2. CONTRACTOR SHALL INSPECT INSTALLED EROSION CONTROL DEVICE WEEKLY DURING CONSTRUCTION AND AFTER HEAVY RAINS FOR DAMAGE. MAINTENANCE SHALL INCLUDE CLEANING BUILT-UP SEDIMENT BEHIND THE BARRIERS AND/OR REPLACING DAMAGED SECTIONS.
3. THE EROSION CONTROL DEVICE SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL A PERMANENT STAND OF GRASS (OR OTHER PERMANENT STABILIZATION) IS ESTABLISHED.

SCALE: 1" = 10'

LEGEND:

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING BRICK DRIVEWAY
- REMOVE CONCRETE

EROSION CONTROL NOTES:

1. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
2. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORM WATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
3. THE CONTRACTOR SHALL SCHEDULE THEIR OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.
4. THE CONTRACTOR AND/OR OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.
5. ALL GREEN AND/OR DISTURBED AREAS TO BE SODDED/RESODDED WITH LIKE SOD.
6. ANY SOD PLACED ON SLOPES EXCEEDING 3:1 TO BE ANCHORED BY STAKES, NETS, AND/OR ENGINEER'S APPROVED METHOD.
7. REQUIRED TREE BARRICADES AND EROSION CONTROL MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR PERMIT REVOCATION AS PROVIDED BY LOCAL JURISDICTION.
8. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE IN ACCORDANCE WITH "THE FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE NO LESS THAN 12' x 50' x 6" AND MAY BE LARGER DEPENDING ON THE AREA OF THE PROJECT, THE SIZE AND QUANTITY OF TRUCK TRAFFIC, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
9. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING WATER VIA WATER TANK TRUCK (SPRINKLING), IRRIGATION, OR OTHER ACCEPTABLE METHOD.

DEMOLITION NOTES:

1. CONTRACTOR TO MAINTAIN CONTINUOUS OPERATION OF PUMP STATION DURING CONSTRUCTION. CONTINUOUS OPERATION TO BE MAINTAINED WITH THE USE OF PORTABLE GENERATOR, PORTABLE FUEL TANK, OR TO MOVE AND SUPPORT EXISTING DIESEL TANK TO USE FOR TEMPORARY CONDITION.
2. FUEL TANK THAT IS CHOSEN TO MAINTAIN CONTINUOUS OPERATION OF PUMP STATION DURING CONSTRUCTION IS TO REMAIN ABOVE 25% FUEL CAPACITY FOR DURATION OF CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE FOR PROTECTING EXISTING UTILITIES THROUGHOUT CONSTRUCTION.

Plot Date: Monday, April 27, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS
1			4		
2			5		
3			6		

DES: ADW
DRN: ADW
CKD: NCIII
DATE: 04/27/2026

ATLAS

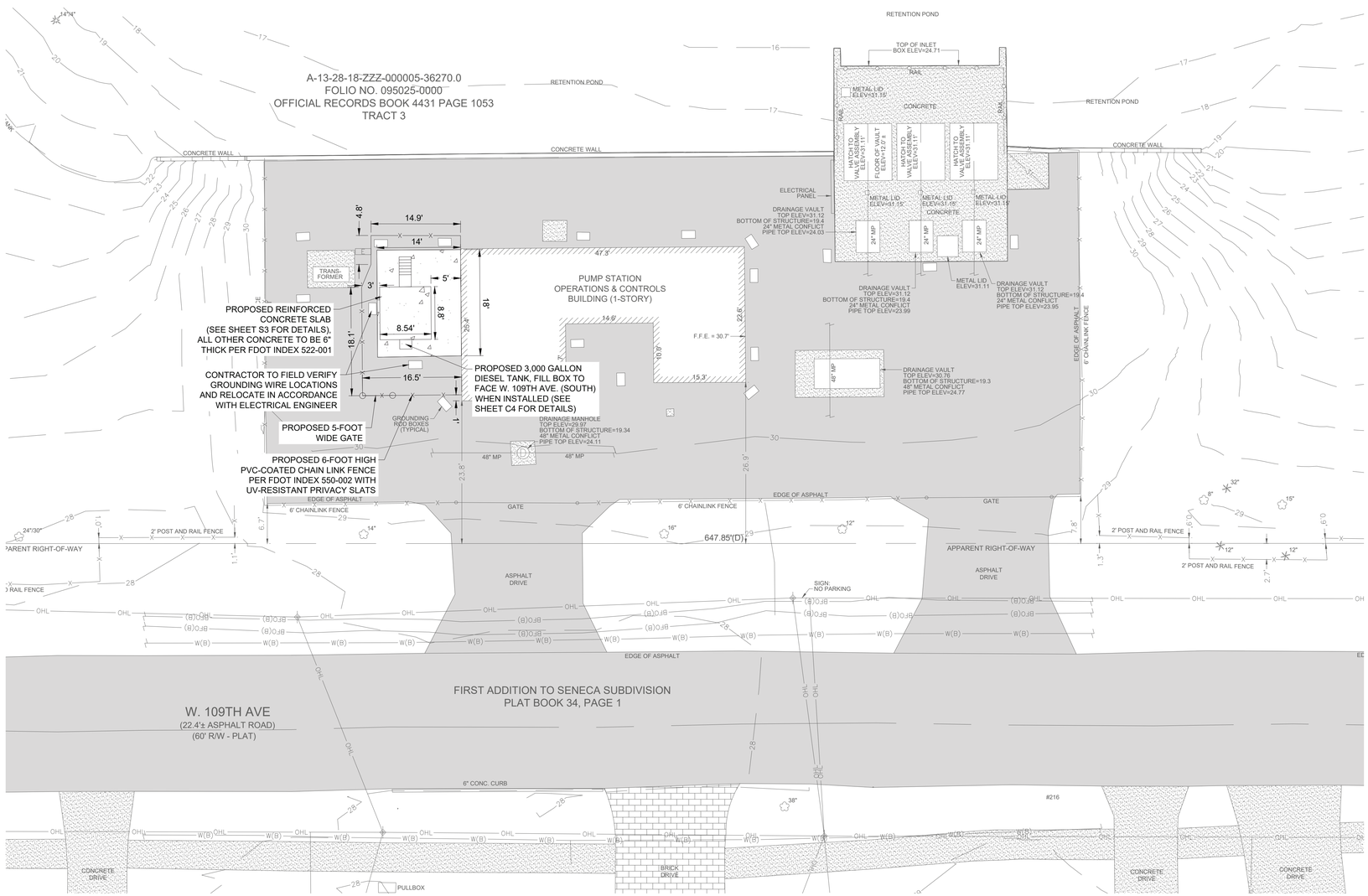
CITY of TAMPA
Mobility Department
Stormwater Engineering Division

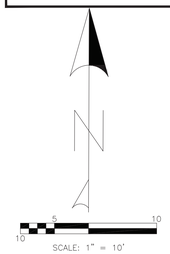
PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

DEMOLITION & EROSION CONTROL PLAN

SHEET C2 OF 27

SW 2026-03





LEGEND:

- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE
- EXISTING BRICK DRIVEWAY
- PROPOSED CONCRETE

NOTES

1. PAYMENT TO INCLUDE DIESEL TANK, CONCRETE PAD, REQUIRED APPURTENANCES, AND LABOR FOR INSTALLATION.
2. CONTRACTOR RESPONSIBLE FOR DESIGN AND HOOKUP TO PUT PROPOSED DIESEL TANK INTO OPERATION.
3. CONTRACTOR TO MATCH EXISTING SLOPE AND HIGH POINTS OF CONCRETE SLAB FOR PROPOSED SLAB TO ENSURE PROPER DRAINAGE.

Plot Date: Monday, April 27, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS		
1			4			DES:	ADW
2			5			DRN:	ADW
3			6			CKD:	NCIII
						DATE:	04/27/2026

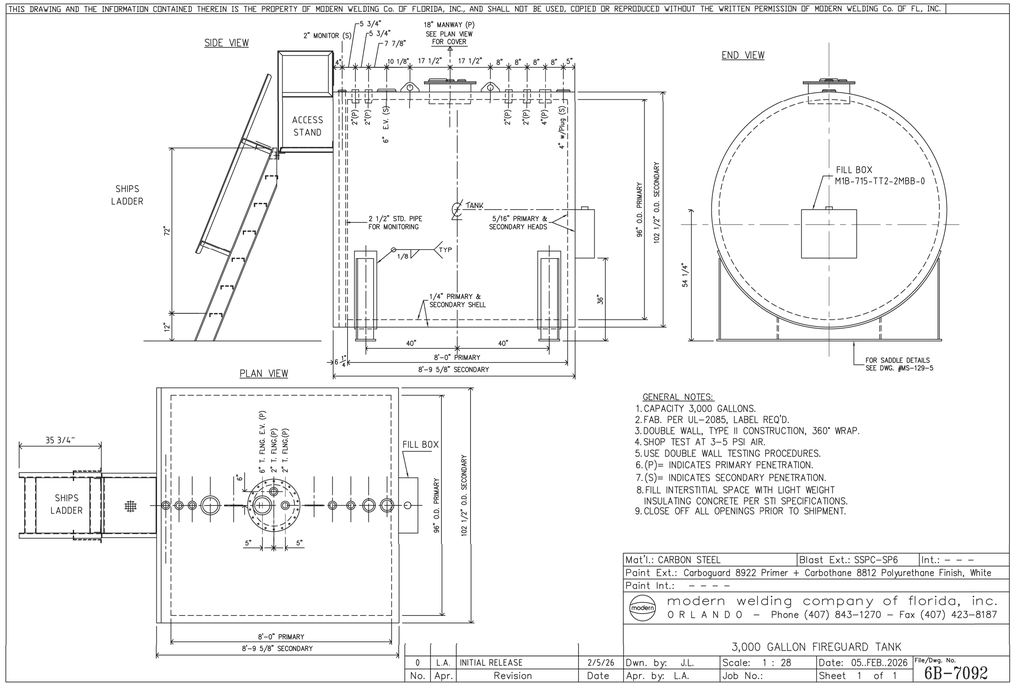
ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

SITE PLAN

SHEET C3 OF 27



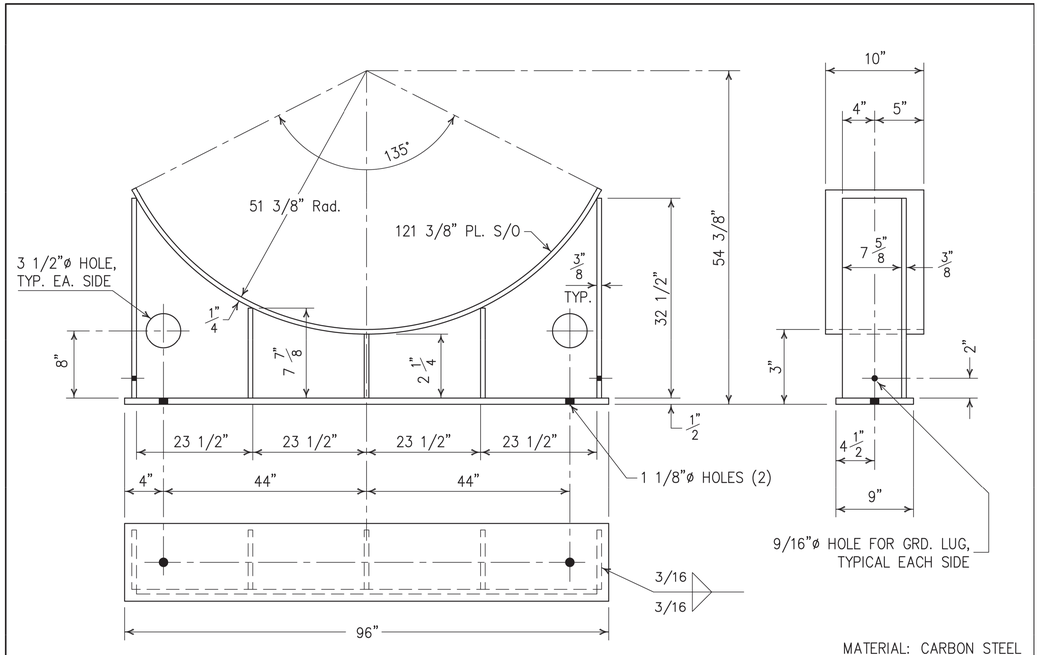
GENERAL NOTES:
1. CAPACITY 3,000 GALLONS.
2. FAB. PER UL-2085, LABEL REQ'D.
3. DOUBLE WALL, TYPE II CONSTRUCTION, 360° WRAP.
4. SHOP TEST AT 3-5 PSI AIR.
5. USE DOUBLE WALL TESTING PROCEDURES.
6. (P)= INDICATES PRIMARY PENETRATION.
7. (S)= INDICATES SECONDARY PENETRATION.
8. FILL INTERSTITIAL SPACE WITH LIGHT WEIGHT INSULATING CONCRETE PER STI SPECIFICATIONS.
9. CLOSE OFF ALL OPENINGS PRIOR TO SHIPMENT.

Mat'l.: CARBON STEEL	Blast Ext.: SSPC-SP6	Int.: - - -
Paint Ext.: Carboguard 8922 Primer + Carbothane 8812 Polyurethane Finish, White		
Paint Int.: - - - -		

modern welding company of florida, inc.
ORLANDO – Phone (407) 843-1270 – Fax (407) 423-8187

3,000 GALLON FIREGUARD TANK

No.	Apr.	Revision	Date	Dwn. by: J.L.	Scale: 1 : 28	Date: 05..FEB..2026	File/Dwg. No.
0	L.A.	INITIAL RELEASE	2/5/26	Apr. by: L.A.	Job No.:	Sheet 1 of 1	6B-7092



MATERIAL: CARBON STEEL

modern welding company of florida, inc.
ORLANDO – Phone (407) 843-1270 – Fax (407) 423-8187

PLATE SADDLE – 102 1/2"ø TANK

Dwn. by: A.K.	Scale: N.T.S.	Rev. #2
Appr. by: M.W.C.	MS-129-5	
Date: 12 FEB 2003		

SW 2026-03

NOTES

1. CONTRACTOR TO PROVIDE SHOP DRAWING OF FUEL TANK TO OWNER/ENGINEER FOR APPROVAL FROM MODERN WELDING CO. OR APPROVED EQUAL.

TMS2000 Series — Specifications

Low Cost, Two-Tank Gauging System w/ EPA-Compliant In-Tank and Secondary Containment Leak Detection

Console

- Dimensions (W x H x D): 11.8" x 11.5" x 4.75" (300 mm x 292 mm x 121 mm)
- Weight: 14 lb (6.4 kg) (w/ Printer)
- Operating Temperature: -40 °F to +160 °F (-40 °C to +70 °C) w/o Printer; -5 °F to +140 °F (-20 °C to +60 °C) w/ Printer
- Humidity: 95% Non-condensing
- Enclosure Rating: Locking NEMA 12 (IP52), NEMA 4 (IP56) or NEMA 4X (IP56) (304 SS)
- Power Requirements: 115/230 VAC ±15% (w/o Printer) Switchable, 50-60 Hz, 20 W Max. 8-16 VDC or 16-60 VDC Optional
- Memory: Configuration / Setup Data – EEPROM, 50 year data retention, no batteries; Log Reports and Real-Time Clock – Lithium Battery-Backed RAM, 5-10 year data retention
- Audible Alarm: 85 db
- Display: 9-Character, Super Bright LED Data Display, Readable from 25' (7.6 m) Ultra-High Intensity Alarm LEDS, Visible from 75' (22.9 m)
- Communications: RS-232 Included Standard, RJ-13 Jack; RS-485 Included Standard, RJ-13 Jack (For Pneumercator Peripherals); Internal, Secured Modem, Fax / Modem, Network Interface or ModBus Optional
- Probe / Sensor Capacities: 2 Magnetostrictive Probes; 8 Leak Sensors, Supervised Wiring Ready
- I/O, Non-Haz.: Standard: 2 Relays, 1 Form C, Rated 10A@120 VAC, 6A@240 VAC, w/ 2 Opto-Isolated Inputs; Expansion Options: (1 slot available); 4 Relays, 1 Form C, Rated 10A@120 VAC, 6A@240 VAC, w/ 4 Opto-Isolated Inputs; 8 Relays, 1 Form A, Rated 5A@120 VAC, 5A@240 VAC w/ 8 Opto-Isolated Inputs; 16 Relays, 1 Form A, Rated 5A@120 VAC, 5A@240 VAC; 6 or 12-Ch. Programmable Analog Outputs: 0-1 mA, 0-20 mA, 0-24 mA, 4-20 mA, 0-5 VDC, 1-5 VDC

Probe

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- Accuracy (Minimum): MP45xS: Product Level: 0.0005" (0.013 mm), Water Level: 0.001" (0.025 mm), Temperature: 0.001 °F (0.0006 °C); MP46x: Product Level: 0.01" (0.25 mm), Water Level: 0.01" (0.25 mm), Temperature: 0.001 °F (0.0006 °C)
- Materials: Shaft: 316 SS or PVDF; Floats: 316 SS, Buna-N, Urethane, or PVDF
- Mounting: In-Tank Leak Testing: 4" (102 mm) diameter riser; Inventory Only: 2" (51 mm) minimum riser or direct bushing / flange mount
- Temperature Sensing: 5 Thermistors in shaft, 1 in probe head
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 °F to 175 °F (-40 °C to 80 °C)
- Operating Pressure: 150 PSIG (1034 kPa) 316 SS, 50 PSIG (345 kPa) PVDF
- Field Wiring: 22AWG, 2-Conductor twisted pair w/ shield; Belden 8441, Belden 8761, Alpha 1736C or equiv., maximum length 3000' to 4600' (914 m to 1402 m)
- Models: MP45xS Series rigid SS max. length 24' (7.3 m), MP46x Series flex. PVDF max. length 70' (21.3 m)

Sensors

- ES825-200F: Electronic, Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- ES825-100F: Electronic, Non-Discriminating - Containment, Manway and Piping Sumps, Dispenser Pan, Dry Annular
- LS600LD: Float, Containment, Manway and Piping Sumps, Dispenser Pan
- LS600xx: Multi-Float, High / Low Level and Pump Control
- RSI3800: Float, Wet Annular / Reservoir
- LS610: Float, Dry Annular
- HS100D2: Polymer / Float – Wet Well, up to 45' (up to 13.7 m) depth
- HS100ND: Polymer – Dry Containment, 1' to 45' (0.3 m to 13.7 m) length
- LLP203: 3 GPH Catastrophic Line Leak Detector

Most sensors are available with Fault-Detect Supervised sensor and wiring option. Add "F" Suffix to Model Number

Remote Displays

- ETD1000: Addressable (up to 16), Multi-Drop, Remote Electronic Tank Display Panel
- TD1000: Tandem Remote Display

Certifications / Approvals

- UL/cUL Approved, File #E139464
- FCC Part 15B, Part 68
- Third-Party Approved, EPA-Compliant for In-Tank Leak Testing:
  - Up to 20,000 Gal. (75,708 Liter) tank capacity, minimum tank inventory for test 20%
  - 0.2 GPH (0.8 L?H) Leak Test: Pd = 99.9%, Pfa = 0.1%
  - 0.2 GPH (0.8 L?H) Quick Test: Pd = 95%, Pfa = 5%
  - 0.1 GPH (0.4 L?H) Precision Test: Pd = 95.3%, Pfa = 4.7%
  - Up to 75,000 Gal. (283,906 Liter) tank capacity, minimum tank inventory for test 50%
  - 0.2 GPH (0.8 L?H) Leak Test: Pd = 97.3%, Pfa = 2.7%
- NYC, City of LA and various other state and local agencies

Note: Specifications subject to change without notice. 10-07-2022

PNEUMERCATOR Liquid Level Control Systems
Pneumercator Company, Inc.
1785 Expressway Drive North
Hauppauge, New York 11788
Tel: 631-293-8450
Fax: 631-293-8533
http://www.pneumercator.com

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No.	DATE	REVISIONS	No.	DATE	REVISIONS
1			4		
2			5		
3			6		

DES: ADW
DRN: ADW
CKD: NCIII
DATE: 04/27/2026

ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

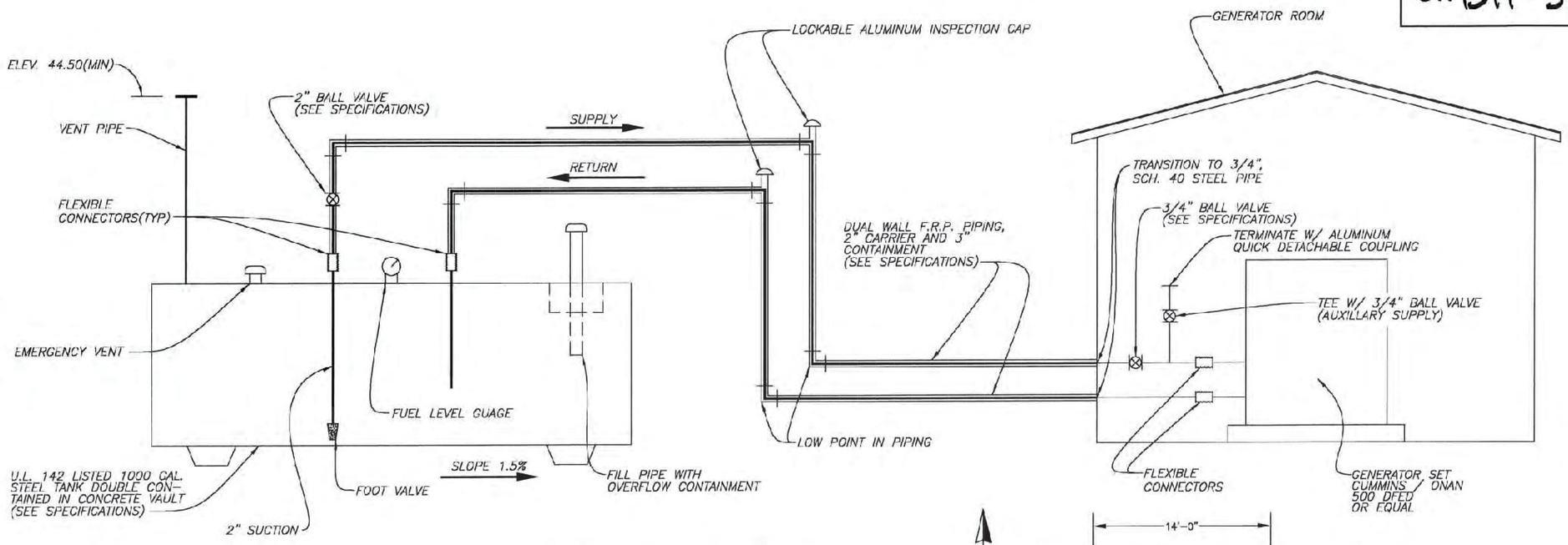
CONSTRUCTION DETAILS

SHEET C4 OF 27

Plot Date: Monday, April 27, 2026

SW 2026-03

SWB11-31

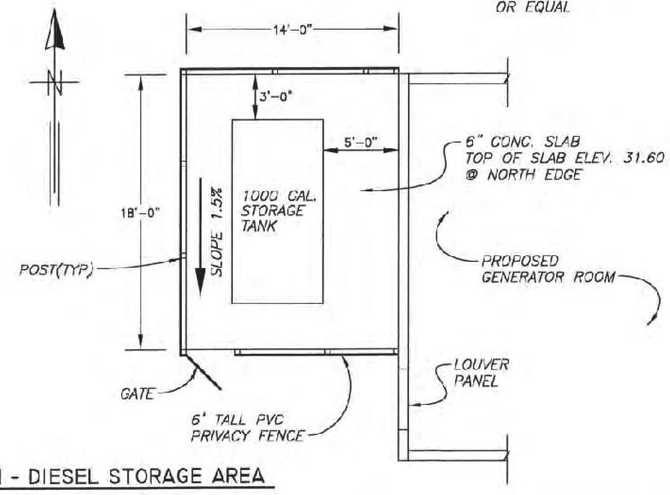


SCHEMATIC DRAWING - DIESEL FUEL SYSTEM

NOT TO SCALE

NOTES:

1. THE FUEL OIL TANK, PIPING AND VENTING HAVE BEEN DESIGNED AND SHALL BE FABRICATED AND CONSTRUCTED IN FULL COMPLIANCE WITH NFPA 30-92 AS ENFORCED BY THE CITY OF TAMPA FIRE MARSHAL AND WITH DER 17-761. THE ATMOSPHERIC TANK WILL STORE No. 2 DIESEL FUEL OIL WHICH IS AN NFPA CLASS II COMBUSTIBLE LIQUID WITH A MINIMUM RATED FLASH POINT OF 125° F.
2. FLEXIBLE CONNECTORS SHALL BE UL LISTED, AS MANUFACTURED BY TITEFLEX INDUSTRIAL, OR EQUAL.
3. INSTALL PIPE SPACERS BETWEEN CARRIER AND CASING PIPE AS REQUIRED TO CENTER CARRIER PIPE. CLEAR ANNULAR SPACE SHALL REMAIN TO PROVIDE ACCESS TO THE BOTTOM OF THE CASING FITTINGS FROM THE INSPECTION CAP LOCATIONS BY DIPPING.
4. ANCHOR FUEL PIPES TO CONCRETE SURFACES WITH ALUMINUM UNISTRUT. ISOLATE ALUMINUM FROM CONCRETE WITH 2 COATS OF BITUMASTIC COATING.
5. DIESEL FUEL TANK SHALL BE A WELDED CYLINDER, ENCASED IN A 2-PIECE, 6" THICK REINFORCED CONCRETE VAULT. THE JOINT BETWEEN THE 2 CONCRETE HALVES SHALL BE ALUMINA-SILICA CERAMIC WITH A VAPOR GASKET OF EXTRUDED NON-HYDROCARBON ELASTOMER AND SEALED WITH WEATHERPROOF SEALANT. THE MANUFACTURER SHALL PROVIDE A 30 YEAR WARRANTY FOR THE COMPLETE VAULT / TANK ASSEMBLY. THE TANK SHALL BE ECOVAULT 1000 GAL. SINGLE COMPARTMENT TANK OR EQUAL.
6. THE DIESEL FUEL SYSTEM IS SHOWN HERE SCHEMATICALLY. THE CONTRACTOR SHALL SUBMIT A PIPE DIAGRAM SHOWING ACTUAL LAYOUT TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.



PLAN - DIESEL STORAGE AREA

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

1/4"=1'-0"

C:\DWG\PS\6549PS-6

No.	DATE	REVISIONS	No.	DATE	REVISIONS
3			6		
2			5		
1			4		

DES: B.G.
DRN: BB
CKD: DH
DATE: 5/4/01

CITY of TAMPA
DEPARTMENT OF SANITARY SEWERS
STORMWATER DIVISION

CURIOSITY CREEK PUMPING STATION
SCHEMATIC DRAWING - DIESEL FUEL SYSTEM

W.O. 6549
SHEET GC9 OF 70

NOTES

1. CONTRACTOR TO REPLACE EXISTING FUEL PIPING SYSTEM WITH NEW FUEL PIPING SYSTEM FROM GENERATOR TO NEW TANK WITH EQUAL OR BETTER EQUIPMENT THAN SHOWN IN AS-BUILT DRAWINGS. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
2. AS-BUILT PLAN SHEET SHOWN IS NOT TO SCALE.

Plot Date: Monday, April 27, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS
1			4		
2			5		
3			6		

DES: ADW
DRN: ADW
CKD: NCIII
DATE: 04/27/2026

ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

CONSTRUCTION DETAILS

SHEET C5 OF 27

SW 2026-03

GENERAL NOTES

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE AND ALL APPLICABLE PROVISIONS OF THE CITY OF TAMPA, FLORIDA.
2. LOADS THAT HAVE BEEN USED IN THE STRUCTURAL DESIGN INCLUDE THE FOLLOWING:

   DEAD LOADS:

   DEAD LOADS HAVE BEEN CALCULATED TO INCLUDE THE ACTUAL WEIGHT OF ALL WORK SHOWN ON THE DRAWINGS.

   WIND LOADS:

   WIND PRESSURES IN ALL DIRECTIONS HAVE BEEN CALCULATED IN ACCORDANCE WITH CODE PROVISIONS FOR A BASIC WIND SPEED OF 150 MPH (EXPOSURE C).

   SEISMIC LOADS:

   S(S).....0.068

   S(1).....0.03

   S(DS).....0.061

   S(D1).....0.043

   SITE CLASS.....D

   SEISMIC DESIGN CATEGORY.....A

   DESIGN BASE SHEAR.....0.01 W
3. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE SPECIFICATIONS. A PERIOD OF AT LEAST 10 WORKING DAYS SHALL BE PROVIDED FOR THIS REVIEW. REVIEW OF SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK.
4. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE SHOWN ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
5. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS SHOWN AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
6. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
7. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS AND OTHER PERSONS DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
9. CONSTRUCTION SEQUENCE SHALL BE COORDINATED BY THE CONTRACTOR AS REQUIRED FOR INSTALLATION OF ALL STRUCTURAL COMPONENTS.
10. IF ANY INCONSISTENCIES OR DISCREPANCIES OCCUR WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE GREATER QUANTITY OF ITEMS SHOWN AND/OR THE MOST COSTLY PRODUCT OR INSTALLATION METHOD SHALL BE PROVIDED, UNLESS INSTRUCTED OTHERWISE BY ARCHITECT/ENGINEER. IT SHALL BE DEEMED THAT THE CONTRACTOR BID AND INTENDS TO EXECUTE THE MORE STRINGENT OR HIGHER QUALITY REQUIREMENT WITHOUT ANY INCREASE TO THE CONTRACT SUM OR CONTRACT TIME.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
2. MILD STEEL REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60.
3. MILD STEEL REINFORCEMENT AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI SP66.
4. PORTLAND CEMENT SHALL BE A SINGLE BRAND CONFORMING TO ASTM C 150, TYPE II, UNLESS OTHERWISE NOTED.
5. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C 33. ALL CONCRETE SHALL USE NORMAL WEIGHT AGGREGATES, UNLESS NOTED OTHERWISE.
6. ALL ADDITIVES FOR AIR ENTRAINMENT, WATER REDUCTION, AND SET CONTROL SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. THE USE OF CALCIUM CHLORIDE IS PROHIBITED.
7. CONCRETE MIXES SHALL BE DESIGNED TO PROVIDE CONCRETE WITH A COMPRESSIVE STRENGTH AT 28 DAYS ($f'c$) OF 4000 PSI.
8. CONCRETE SHALL REACH 75% OF SPECIFIED STRENGTH BEFORE CONSTRUCTION LOADS ARE APPLIED. CONCRETE SHALL REACH 100% OF SPECIFIED STRENGTH BEFORE EQUIPMENT LOADS ARE ALLOWED TO CROSS PIERS.
9. THE MAXIMUM NOMINAL SIZE OF COARSE AGGREGATE SHALL BE 1 INCH.
10. AIR CONTENT SHALL BE CHECKED BY AN ACI APPROVED TESTER WITH AN AIR METER.
11. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

    CONCRETE CONTAINING SUPERPLASTICIZER.....8 INCH MAX

    ALL OTHER CONCRETE.....4 INCH MAX
12. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

    PIER.....1 1/2" SIDES AND TOP

    FOOTING.....1 1/2" SIDES AND TOP
    .....3" BOTTOM
13. COVER DIMENSION ARE CLEAR DIMENSIONS UNLESS NOTED OTHERWISE.
14. MILD STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
15. WELDING OF MILD STEEL REINFORCEMENT SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE-REINFORCING STEEL," AWS D-1.4.
16. THE TESTING LABORATORY SHALL BE NOTIFIED AFTER THE MILD STEEL REINFORCEMENT AND EMBEDS ARE POSITIONED PRIOR TO EACH CONCRETE PLACEMENT. NO CONCRETE SHALL BE PLACED UNTIL THESE ITEMS ARE CHECKED AND APPROVED BY THE TESTING LABORATORY.
17. EACH AREA OF CONCRETE WORK SHALL BE FINISHED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. CHAMFERS SHALL BE PROVIDED AT ALL EXPOSED EDGES AND IN ACCORDANCE WITH THE DRAWINGS.
18. THE USE OF FLY ASH AS A PARTIAL REPLACEMENT FOR CEMENT WILL BE ALLOWED AT THE CONTRACTOR'S OPTION. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C 618, CLASS F OR C, WITH THE FOLLOWING AMENDMENTS: A CLASS F FLY ASH CAN REPLACE 20 TO 30 PERCENT OF THE PORTLAND CEMENT AND A CLASS C FLY ASH CAN REPLACE 25 TO 35 PERCENT. REFER TO SPECIFICATIONS FOR MINIMUM CONTENT REQUIREMENTS AND SUBMITTAL REQUIREMENTS.

EARTHWORK AND FOUNDATIONS

1. THE FOUNDATION DESIGN IS IN ACCORDANCE WITH A GEOTECHNICAL INVESTIGATION AND REPORT BY MESKEL & ASSOCIATES ENGINEERING, REPORT NO. 0135-0005.1, DATED FEBRUARY 23, 2025. EXCERPTS FROM THE AFOREMENTIONED REPORT ARE PROVIDED BELOW FOR INFORMATION ONLY. ALL EARTHWORK SHALL BE BASED UPON THE GEOTECHNICAL REPORT.
2. ALL EXISTING VEGETATION BENEATH THE FOUNDATION AREA SUCH AS TREES, BRUSH, AND STUMPS SHALL BE REMOVED FROM THE SITE.
3. LOCATE ALL UTILITIES AND UNDERGROUND SERVICES PRIOR TO PERFORMING EXCAVATION OF ANY KIND.
4. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE OWNER TO OBSERVE ALL EARTHWORK OPERATIONS AND THE REQUIRED TESTING IMPLEMENTING THE RECOMMENDATIONS OF THE AFOREMENTIONED GEOTECHNICAL REPORTS. THESE TESTS AND OBSERVATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - OBSERVATION AND TESTING DURING SITE PREPARATION AND GRADING
   - OBSERVATION OF FOOTING EXCAVATIONS AND VERIFICATION THAT THE SOILS OF THE DESIGN BEARING CAPACITY HAVE BEEN ENCOUNTERED.
   - CONSULTATION AS REQUIRED DURING CONSTRUCTION.
   - VERIFICATION THAT THE FOUNDATION PAD IS SUITABLE FOR CONSTRUCTION.
5. ANY SLOUGHED, LOOSE OR SOFT MATERIALS NEAR THE BASE OF THE FOUNDATION EXCAVATION SLOPES SHALL BE REMOVED. IN ADDITION, COMPACTED FILL SHALL BE "TIED-IN" WITH THE EXCAVATION SLOPES USING BENCHES AS NECESSARY.
6. COMBINED FOOTING IS DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1500 PSF, BEARING ON UNDISTURBED SOIL, 4 FEET BELOW FINISHED GRADE. APPROVED ON-SITE OR IMPORTED STRUCTURAL FILL SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
7. IMPORTED STRUCTURAL FILL SHOULD CONSIST OF A NON-PLASTIC, INORGANIC, GRANULAR SOIL HAVING LESS THAN 10 PERCENT MATERIAL PASSING THE NO. 200 MESH SIEVE AND CONTAINING LESS THAN 4 PERCENT ORGANIC MATERIAL. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
8. BEARING SOILS SHALL BE PREPARED BY PROOF-ROLLING AND COMPACTING TO AT LEAST A 95 PERCENT OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 689) TO A DEPTH OF AT LEAST 1-FOOT BELOW THE FOUNDATION. REFER TO THE GEOTECHNICAL REPORT FOR MOISTURE CONTROL RECOMMENDATIONS AS REQUIRED.

ABBREVIATIONS

AB	ANCHOR BOLT	K	KIP (1,000 LBS)
ADH	ADHESIVE		
ADDL	ADDITIONAL	L	LENGTH
AFF	ABOVE FINISH FLOOR	LB	POUND
AGG	AGGREGATE	LF	LINEAR FOOT
ALUM	ALUMINUM	LO	LOW
APPROX	APPROXIMATE	LS	LUMP SUM
ARCH	ARCHITECTURAL		
		MAS	MASONRY
BLDG	BUILDING	MAX	MAXIMUM
BM	BEAM	MECH	MECHANICAL
BOS	BOTTOM OF STEEL	MEP	MECH / ELEC / PLUMBING
BOTT	BOTTOM	MFR	MANUFACTURER
BRG	BEARING	MIN	MINIMUM
BTW	BETWEEN	MISC	MISCELLANEOUS
		MTL	METAL
CF	CUBIC FOOT		
CIP	CAST-IN-PLACE	NTS	NOT TO SCALE
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CL	CENTER LINE		
CMU	CONCRETE MASONRY UNITS	OC	ON CENTER
COL	COLUMN	OC EW	ON CENTER, EACH WAY
CONC	CONCRETE	OH	OPPOSITE HAND
CONNX	CONNECTION	OPNG	OPENING
CONT	CONTINUOUS		
CTRL	CONTROL\	PL	PLATE
		PLCS	PLACES
DEMO	DEMOLITION	PROP	PROPOSED
DIA / ∅	DIAMETER	PSF	LBS PER SQ FOOT
DIM	DIMENSION	PT	POST TENSIONED
DR	DRAIN		
DT	DOUBLE TEE	RF	ROOF
DWG	DRAWING	REINF	REINFORCING
EA	EACH	SCHED	SCHEDULE
EF	EACH FACE	SECT	SECTION
EJ	EXPANSION JOINT	SHT	SHEET
EL	ELEVATION	SI	SQUARE INCH
ELEC	ELECTRICAL	SF	SQUARE FOOT
ELEV	ELEVATION	SIM	SIMILAR
EMBED	EMBEDMENT / EMBEDDED	SPA	SPACE, SPACING
ENGR	ENGINEER	SQ	SQUARE
EQ	EQUAL(S)	SR	START RAIL
EW	EACH WAY	SS	STAINLESS STEEL
EXIST	EXISTING	ST	STIRRUP
EXP	EXPANSION	STD	STANDARD
EXT	EXTERIOR	STIFF	STIFFENER
		STL	STEEL
FF	FINISH FLOOR	SY	SQUARE YARD
FIN	FINISH		
FLR	FLOOR	T&B	TOP AND BOTTOM
FV	FIELD VERIFY	TEMP	TEMPORARY, TEMPERATURE
		THD'D	THREADED
GA	GAUGE	THK	THICK
GALV	GALVANIZE(D)	TOC	TOP OF CONCRETE
GR	GRADE	TOP	TOP OF PIER
GYP	GYPSUM	TOS	TOP OF STEEL
		TOW	TOP OF WALL
HORIZ	HORIZONTAL	TS	TUBE STEEL
HCR	HORIZONTAL CURVE RADIUS	TYP	TYPICAL
HS	HEADED STUD		
HSA	HEADED STUD ANCHOR	UNO	UNLESS NOTED OTHERWISE
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT	VCR	VERTICAL CURVE RADIUS
		VEH	VEHICULAR
INFO	INFORMATION	VERT	VERTICAL
INT	INTERIOR		
		W	WIDTH
JT	JOINT	WP	WORK POINT
		YD	YARD

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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

GENERAL NOTES

SHEET SI OF 27

SW 2026-03

STATEMENT OF SPECIAL INSPECTIONS

THIS STATEMENT OF SPECIAL INSPECTIONS IS PREPARED IN ACCORDANCE WITH SECTION 1704.3 OF THE 2021 INTERNATIONAL BUILDING CODE (IBC). IT INCLUDES A SCHEDULE OF SPECIAL INSPECTIONS APPLICABLE TO THE PROJECT.

THE SPECIAL INSPECTIONS ENGINEER OF RECORD SHALL KEEP RECORDS OF SPECIFIED SPECIAL INSPECTIONS AND TESTING AND SHALL FURNISH COPIES OF INSPECTION AND TESTING REPORTS TO THE OWNER'S CONSTRUCTION REPRESENTATIVE AND TO THE APPROPRIATE DESIGN PROFESSIONALS OF RECORD UPON REQUEST. DETAILED SUMMARIES OF ALL SPECIAL INSPECTION ACTIVITIES, FINDINGS, DEFICIENCIES, AND DISCREPANCIES SHALL BE FURNISHED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE AND THE APPROPRIATE DESIGN PROFESSIONALS OF RECORD AT INTERVALS NOT EXCEEDING 1 MONTH.

DISCREPANCIES FROM THE APPROVED PLANS, SPECIFICATIONS, SHOP DRAWINGS, OR DESIGN DIRECTIVES AND CODE VIOLATIONS OBSERVED DURING THE CONDUCT OF SPECIAL INSPECTIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, TO THE ATTENTION OF THE OWNER'S CONSTRUCTION REPRESENTATIVE AND TO THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF THE SPECIFIED SPECIAL INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES, DEFICIENCIES, AND CODE VIOLATIONS SHALL BE SUBMITTED AND APPROVED BY THE OWNER AND THE DESIGN PROFESSIONALS OF RECORD PRIOR TO FINAL INSPECTION.

STATEMENT OF INSPECTION SERVICES

QUALIFIED SPECIAL INSPECTORS SHALL BE EMPLOYED PER THE PROVISIONS OF THE CONSTRUCTION CONTRACT TO PERFORM INSPECTIONS IN ACCORDANCE WITH THE BUILDING CODE. INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE.

THE FOLLOWING SCHEDULE CONTAINS A LIST OF SPECIAL INSPECTION ACTIVITIES RELATED TO THE QUALITY ASSURANCE PLAN REQUIRED BY THE BUILDING CODE (IBC CHAPTER 17) FOR THE FABRICATION, ERECTION, AND CONSTRUCTION OF THE STRUCTURAL SYSTEMS AS GIVEN IN THE SPECIFICATIONS AND DRAWINGS OF THE PROJECT. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND TEST PROCEDURES. REFER TO IBC CHAPTER 17, "SPECIAL INSPECTIONS AND TESTS", FOR SPECIFIC TEST PROCEDURES.

TESTING AND INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO THE OWNER, CONTRACTOR, BUILDING OFFICIAL (IF REQUESTED), AND ARCHITECT FOR THEIR REVIEW, COMMENT, AND ACTION, AS NEEDED.

AISC CERTIFICATION IS NOT CONSIDERED TO BE FABRICATOR APPROVAL PER SECTION 1704.2.5.1 UNLESS SPECIFICALLY APPROVED BY THE OWNER. IN LIEU OF, OR UNTIL SUCH APPROVAL IS GRANTED, SPECIAL INSPECTION PROVISIONS FOR STRUCTURAL STEEL SHALL BE CONSIDERED TO BE APPLICABLE TO THOSE COMPONENTS FABRICATED AND/OR ASSEMBLED IN THE FABRICATION SHOP.

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, AND VERIFY PLACEMENT.	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
2. REINFORCING WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706;	-	X	AWS D1.4 ACI 318: 26.5.2	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	-	X		
c. INSPECT ALL OTHER WELDS.	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
4. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.4.4	1908.10
6. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.4.7-26.4.9	1908.9
7. VERIFY IN-SITE CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHOES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.10.2	-
8. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.10.1	-

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

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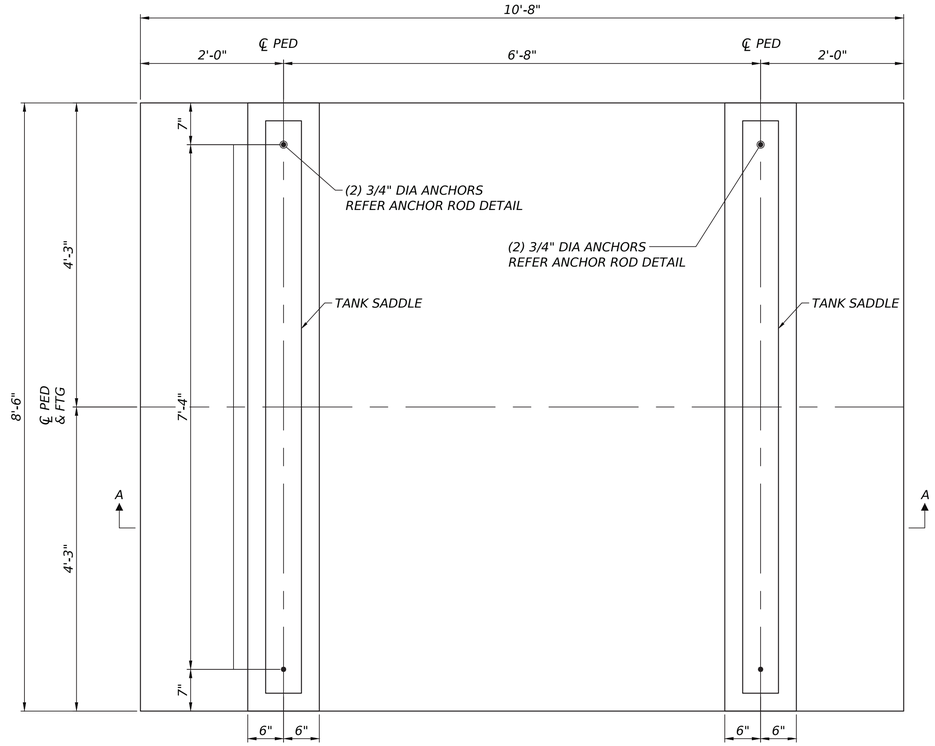
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

SPECIAL INSPECTIONS

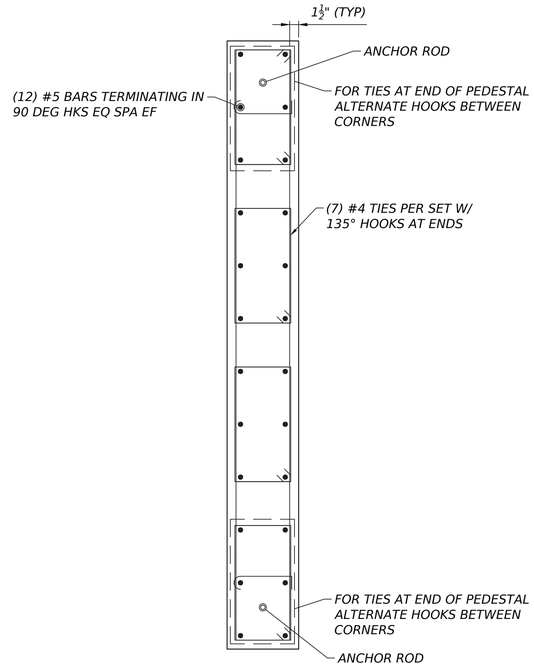
SHEET S2 OF 27

SW 2026-03



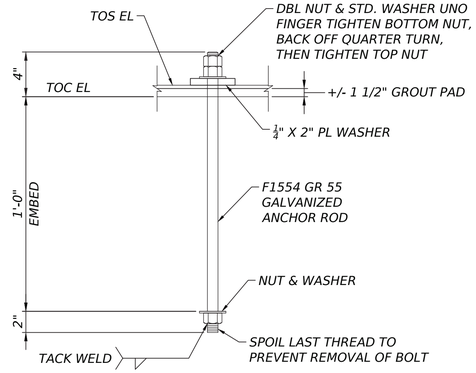
PLAN

SCALE: 1" = 1'-0"



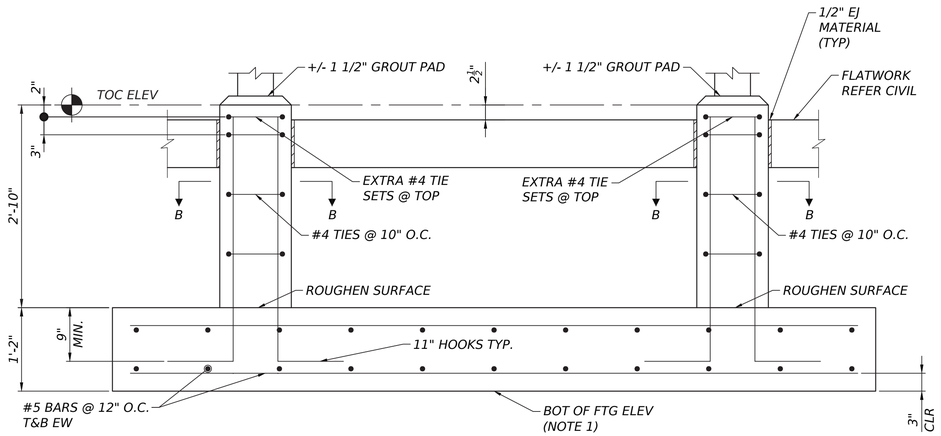
SECTION B-B

SCALE: 1" = 1'-0"



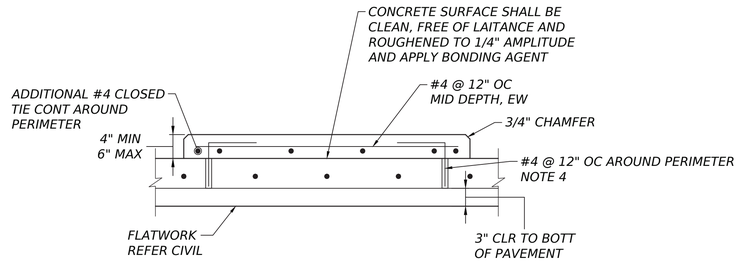
ANCHOR ROD DETAIL

SCALE: NTS



SECTION A-A

SCALE: 1" = 1'-0"



LADDER PAD DETAIL

SCALE: 1" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S1 FOR ADDITIONAL INFORMATION FOR THE CONCRETE FOOTING AND SUBGRADE PREPARATION.
2. LADDER PAD SHALL BE 4-FOOT SQUARE IN PLAN AND LOCATED SUCH THAT A MINIMUM 2-INCH CLEAR DISTANCE IS MAINTAINED BETWEEN THE EDGE OF LADDER HARDWARE AND EDGE OF FOUNDATION.
3. POST INSTALLED ANCHORS SHALL MAINTAIN A MINIMUM 6-INCH EDGE DISTANCE.
4. POST INSTALL WITH HILTI RE500 V3, DEWALT PURE+ 110, OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

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PUMP STATION RESILIENCY AND RELIABILITY
IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

FOUNDATION DETAILS

SHEET S3 OF 27

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PLAN SYMBOLS

Symbol	Description
	HOME RUN TO PANELBOARD. NO. OF ARROWS INDICATE NO. OF CIRCUITS, HASH MARKS INDICATE NO. OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2 #12 CONDUCTORS.
	CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING
	CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
	FLEXIBLE CONDUIT WITH EQUIPMENT CONNECTION.
	CONCRETE ENCASED DUCTBANK.
	EXTERIOR LED LUMINAIRE AND MOUNTING STANDARD.
J	JUNCTION BOX N.E.C. SURFACE MOUNTED UNLESS INDICATED OTHERWISE.
J	JUNCTION BOX PER N.E.C., FLUSH MOUNTED UNLESS INDICATED OTHERWISE.
	FLUSH OR SURFACE MOUNTED LIGHTING PANELBOARD.
	FLUSH OR SURFACE MOUNTED POWER PANELBOARD.
30	DRY TYPE TRANSFORMER. NO. INDICATES KVA RATING.
	LIQUID FILLED TYPE TRANSFORMER
	20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.
	20A, 125V, 3W DUPLEX GFI RECEPTACLE IN FLUSH OUTLET BOX MOUNTED 18" ABOVE FINISHED FLOOR
	20A, 125V, 3W DUPLEX RECEPTACLE, SURFACE MOUNTED.
WP	SURFACE MOUNTED GROUND FAULT DUPLEX WEATHERPROOF RECEPTACLE WITH COVER RATED NEMA 4 WHILE IN USE 20A, 125V, 3W – MOUNTED 18" ABOVE FINISHED FLOOR.
WP	FLUSH MOUNTED GROUND FAULT DUPLEX WEATHERPROOF RECEPTACLE WITH WP COVER RATED NEMA 4 WHILE IN USE MOUNTED 18" ABOVE FINISHED FLOOR
S	SINGLE POLE SWITCH WITH PILOT LIGHT IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED (TYPICAL).
S	SINGLE POLE SWITCH, WITH PILOT LIGHT SURFACE MOUNTED.
S_3	THREE-WAY SWITCH IN FLUSH OUTLET BOX.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS.
75	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.
P	POWER PULLBOX, SEE DETAIL
C	CONTROL PULLBOX. SEE DETAIL
VFD	VARIABLE FREQUENCY DRIVE
T	THERMOSTAT
	ELECTRIC HEATER
TW	GROUND TEST WELL
	GROUND ROD
O/R	OFF/REMOTE
FS	FLOW SWITCH
LE	LEVEL ELEMENT
LIT	LEVEL INDICATING TRANSMITTER
TS	TEMPERATURE SWITCH
SF	SEAL FAIL
TE	TEMPERATURE ELEMENT
PS	PRESSURE SWITCH
FE	FLOW ELEMENT
FIT	FLOW INDICATING TRANSMITTER
TC	TERMINATION CABINET WITH COPPER LUGS IN NEMA 4X 316 SS ENCLOSURE
SH	SPACE HEATER
LLS	LIQUID LEVEL SWITCH

SINGLE LINE DIAGRAM SYMBOLS

Symbol	Description
	COMBINATION MOTOR STARTER
ST	SHUNT TRIP
	FUSE
	CAPACITOR
	MOLDED CASE CIRCUIT BREAKER
	TYPICAL SELECTOR SWITCH AND CONTROL. SEE ELEMENTARY DIAGRAMS FOR EXACT TYPE.
75	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.
	SERVICE OR EQUIPMENT GROUND.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS.
	120/208V PANELBOARD
	480V PANELBOARD.
	CURRENT TRANSFORMERS
	POTENTIAL TRANSFORMERS.
SH	SPACE HEATER
TS	TEMPERATURE
	CROUSE HINDS EYSR FITTING. FILLED WITH CHICO CEMENT
	CROUSE HINDS EYS FITTING. FILLED WITH CHICO CEMENT
K	KIRK KEY INTERLOCK
FS	FLOW SWITCH
TC	NEMA 4X 316SS TERMINATION CABINET

CONTROL DIAGRAM SYMBOLS

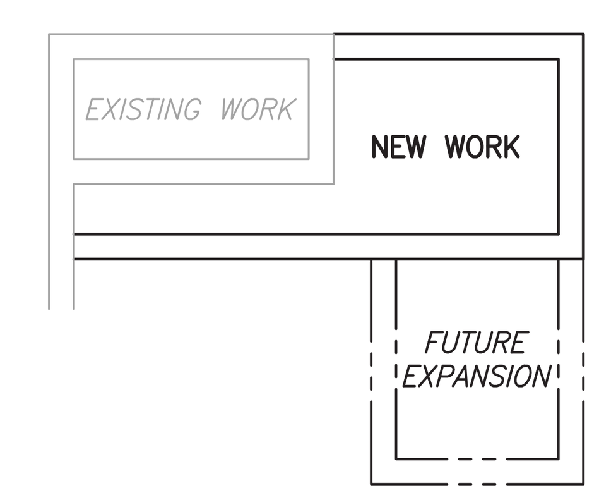
Symbol	Description
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	LIMIT SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	PRESSURE SWITCH, NORMALLY OPEN
	PRESSURE SWITCH, NORMALLY CLOSED
	FLOAT SWITCH, NORMALLY OPEN
	FLOAT SWITCH, NORMALLY CLOSED
	FLOW SWITCH, NORMALLY OPEN
	FLOW SWITCH, NORMALLY CLOSED
	TEMPERATURE SWITCH, NORMALLY OPEN
	TEMPERATURE SWITCH, NORMALLY CLOSED
	NORMALLY OPEN, TIMED TO CLOSE CONTACT
	NORMALLY CLOSED, TIMED TO OPEN CONTACT
	NORMALLY CLOSED, TIMED TO CLOSE CONTACT
	NORMALLY OPEN, TIMED TO OPEN CONTACT
AR	ALARM RELAY
AT	ALARM TIMER
CR	CONTROL RELAY
M	MOTOR STARTER
MC	MOTOR CALL
TR	TIMING RELAY
A	ALARM INDICATING LIGHT
R	RUN INDICATING LIGHT
	MOMENTARY CONTACT PUSHBUTTON
	MOMENTARY BREAK PUSHBUTTON OR RESET
K	KEYED SWITCH
	MAINTAINED CONTACT ON-OFF SWITCH
	START/STOP(S/S) CONTROL SWITCH MAINTAINED CONTACT
	THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH
	FUSE
	MOLDED CASE CIRCUIT BREAKER
	CONTROL POWER TRANSFORMER
	REMOTE TERMINAL BLOCK POINT

ABBREVIATIONS

A	AMPERES
AIC	AMPS INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
CPCP	CHEMICAL FEED CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CU	COPPER
CT	CURRENT TRANSFORMER
DH	DATA HIGHWAY
DISC	DISCONNECT
DSB	DISTRIBUTION SWITCHBOARD
EAP	EYEWASH ALARM PANEL
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EF	EXHAUST FAN
EQ	EQUALIZATION
ETM	ELAPSED TIME METER
EXH	EXHAUST
EXIST	EXISTING
FBC	FLORIDA BUILDING CODE
FPL	FLORIDA POWER & LIGHT
FPP	FIBER PATCH PANEL
FVNR	FULL VOLTAGE NON-REVERSING
GCP	GENERATOR CONTROL PANEL
GEN	GENERATOR
GFR	GROUND FAULT RECEPTACLE
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GST	GROUND STORAGE TANK
HMI	HUMAN MACHINE INTERFACE
HP	HORSEPOWER
JB	JUNCTION BOX
KVA	KILO VOLT-AMPERES
KW	KILOWATT
LP	LOOP
LSCP	LIFT STATION CONTROL PANEL
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MPZ	MINI POWER ZONE
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NEC	NATIONAL ELECTRICAL CODE
N	NEUTRAL
NIP	NETWORK INTERFACE PANEL
NSR	NETWORK SERVER RACK
NTS	NOT TO SCALE
OH	OVERHEAD
P	POLE
PCP	PROCESS CONTROL PANEL
PM	PHASE MONITOR
PVC	POLYVINYL CHLORIDE
RECPT	RECEPTACLE
RCP	REMOTE I/O CONTROL PANEL
RIO	REMOTE I/O
RPVP	RAS PUMP VFD PANEL
RTO	RETURNED TO OWNER
SH	SHIELDED
SLD	SINGLE LINE DIAGRAM
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SSS	SOLID STATE STARTER
STR	STARTER
TC	TERMINATION CABINET
TYP	TYPICAL
TBR	TO BE REMOVED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
w/	WITH
WP	WEATHERPROOF
WTP	WATER TREATMENT PLANT
WWTP	WASTEWATER TREATMENT PLANT
XFMR	TRANSFORMER
ø	PHASE

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2023 8TH EDITION FLORIDA BUILDING CODE SCC CHAPTER 40, APPENDIX A, 106.3.5, THE 2020 NATIONAL ELECTRICAL CODE, (REF: SCCC CHAPTER 40, APPENDIX A, 106.3.5) NFPA 1, NFPA 70 AND NFPA 101 2020 AND SHALL COMPLY WITH ALL LOCAL RULES.
2. THE PLANS REFLECT SYSTEM VOLTAGE DROPS AS PER F.B.C. ENERGY CONSERVATION 2020, C405.6.3 FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD. BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.
3. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.
4. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
5. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED.
6. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
7. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. 2020 EDITION OR LOCAL CODES. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250-122 OF THE 2020 NATIONAL ELECTRICAL CODE.
8. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
9. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/OWNER.
10. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN TWO YEARS FROM DATE OF ACCEPTANCE.
11. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
13. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/ TYPED WRITTEN DIRECTORIES (NEW & EXISTING).
14. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
15. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS & THE APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.
16. NON-SHADED TEXT DENOTES NEW EQUIPMENT, STRUCTURES AND WORK. *SHADED AND SLANTED* TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES.
17. ALL CONTROL PANELS SHALL BE UL LISTED AND SHALL COMPLY WITH ARTICLE 409 OF THE NEC.
18. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULLSTRING.
19. PER THE FBC-ENERGY CONSERVATION, WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING THE FOLLOWING:
   a. SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
   b. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION (REF: FBC-ECC405.5.4.1-8TH EDITION).



EXISTING OR FUTURE CONDITION DESIGNATION

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MICHAEL J. CAHILL, P.E.
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No.	DATE	REVISIONS	No.	DATE	REVISIONS
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2			5		
3			6		

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DATE: 4/27/26

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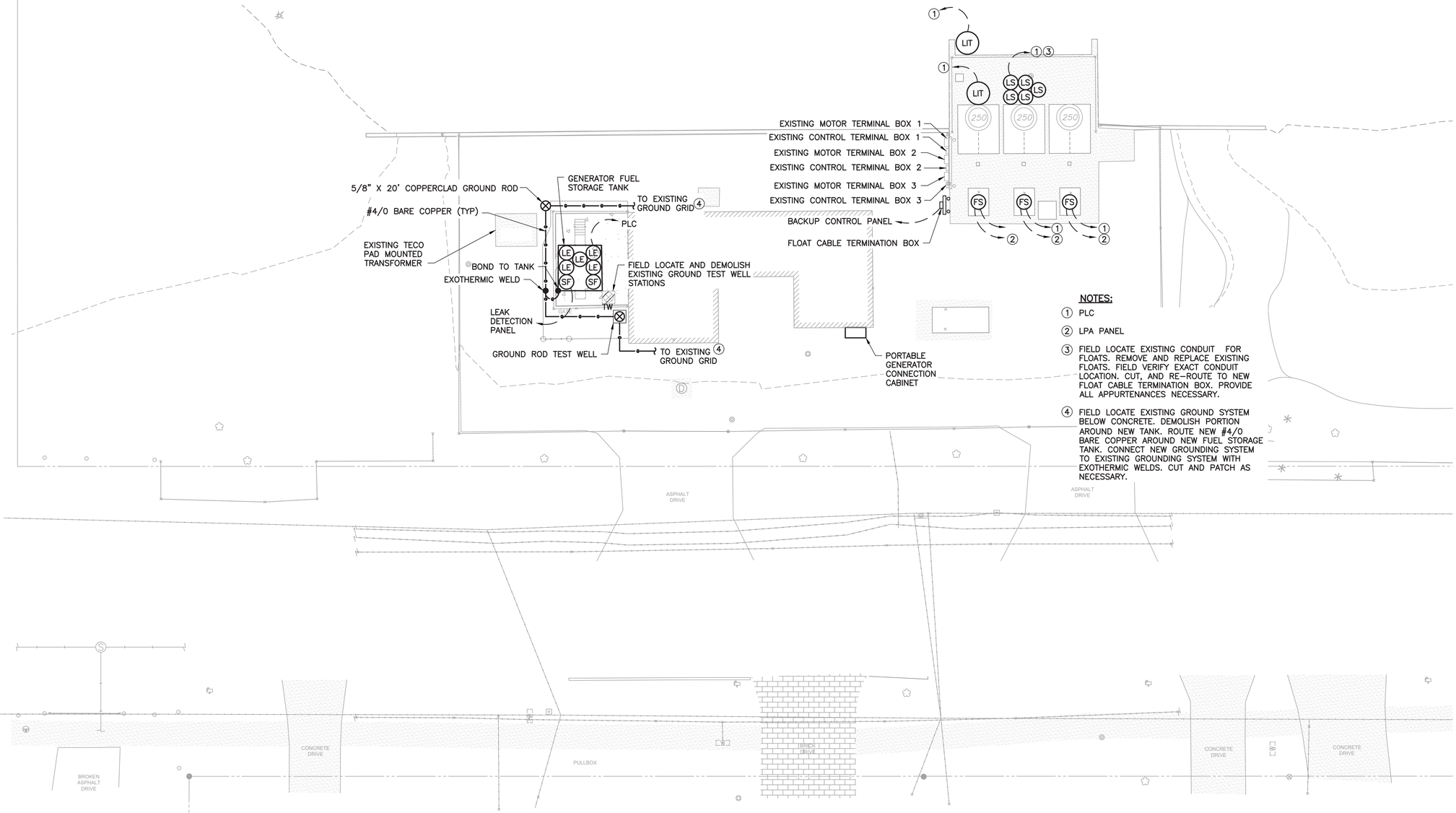
Mobility Department
Stormwater Engineering Division

ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS

SHEET E1 OF 27

SW 2026-03



ELECTRICAL SITE PLAN

SCALE: 1"=10'-0"

10 5 0 10'

NOTES:

1. PLC
2. LPA PANEL
3. FIELD LOCATE EXISTING CONDUIT FOR FLOATS. REMOVE AND REPLACE EXISTING FLOATS. FIELD VERIFY EXACT CONDUIT LOCATION. CUT, AND RE-ROUTE TO NEW FLOAT CABLE TERMINATION BOX. PROVIDE ALL APPURTENANCES NECESSARY.
4. FIELD LOCATE EXISTING GROUND SYSTEM BELOW CONCRETE. DEMOLISH PORTION AROUND NEW TANK. ROUTE NEW #4/0 BARE COPPER AROUND NEW FUEL STORAGE TANK. CONNECT NEW GROUNDING SYSTEM TO EXISTING GROUNDING SYSTEM WITH EXOTHERMIC WELDS. CUT AND PATCH AS NECESSARY.

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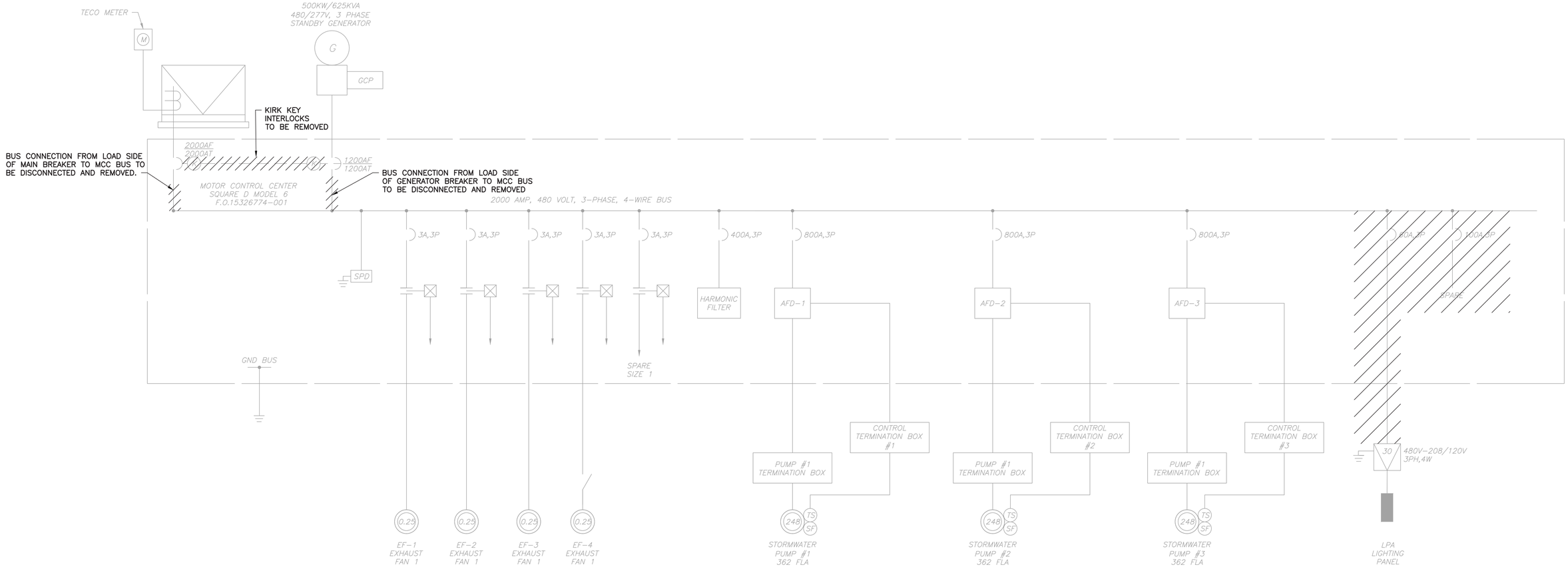
Mobility Department
Stormwater Engineering Division

CURIOSITY CREEK ELECTRICAL SITE PLAN

SHEET E2 OF 27

Plot Date: Tuesday, April 28, 2026

SW 2026-03



EXISTING MCC SINGLE LINE DIAGRAM (DEMOLITION)

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Mobility Department
Stormwater Engineering Division

CURIOSITY CREEK SINGLE LINE DIAGRAM (DEMOLITION)

SHEET E3 OF 27

Plot Date: Tuesday, April 28, 2026

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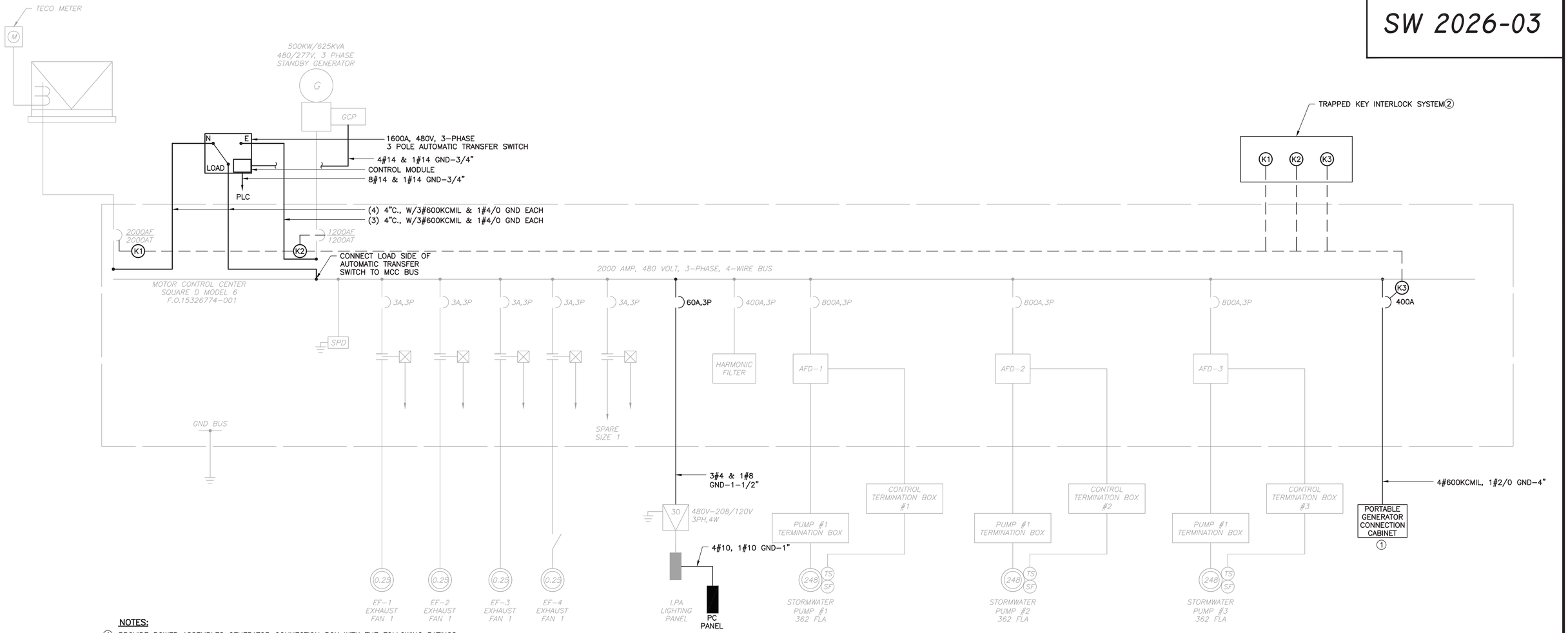

NOTES:

① PROVIDE POWER ASSEMBLES GENERATOR CONNECTION BOX WITH THE FOLLOWING RATINGS:
–400 AMPS
–277/480 VOLT, 3–PHASE, 4–WIRE
–NEMA 4, LARGE ENCLOSURE
–NEUTRAL
5–WIRE

② TRAPPED KEY INTERLOCK SYSTEM

A. EQUIPMENT & MOUNTING
––(1) KEY EXCHANGE BLOCK: KIRK KEY "TYPE T" TRANSFER INTERLOCK (3–CYLINDER). SURFACE MOUNT ON ELECTRICAL ROOM WALL ADJACENT TO MCC AT 5'–0" AFF.
––(3) BREAKER LOCKS: MECHANICAL BOLT INTERLOCKS FOR UTILITY MAIN (K1), PERM GEN MAIN (K2), AND PORTABLE GEN (K3).
––LOCK CONFIGURATION: ALL BREAKER KEYS MUST BE TRAPPED WHEN BREAKER IS CLOSED, AND RELEASED WHEN BREAKER IS OPEN.
––COORDINATION: ALL CYLINDERS MUST BE FACTORY–COORDINATED.

B. SEQUENCE OF OPERATION (TO ENERGIZE PORTABLE GEN)
––OPEN UTILITY MAIN (2000A). TURN AND REMOVE KEY K1.
––OPEN PERM GEN MAIN (1200A). TURN AND REMOVE KEY K2.
––INSERT KEY K1 AND KEY K2 INTO THE WALL–MOUNTED KEY EXCHANGE BLOCK. TURN BOTH KEYS.
––TURN AND REMOVE KEY K3 FROM THE KEY EXCHANGE BLOCK. (KEYS K1 & K2 ARE NOW LOCKED IN THE BLOCK).
––INSERT KEY K3 INTO PORTABLE GEN BREAKER (400A). TURN KEY TO UNLOCK, THEN CLOSE BREAKER.

C. SEQUENCE TO RESTORE NORMAL POWER
––OPEN PORTABLE GEN BREAKER (400A). TURN AND REMOVE KEY K3.
––INSERT KEY C INTO KEY EXCHANGE BLOCK. TURN TO RELEASE KEY K1 AND KEY K2.
––RETURN KEY A AND KEY B TO THEIR RESPECTIVE MAIN BREAKERS TO UNLOCK AND CLOSE.

EXISTING MCC SINGLE LINE DIAGRAM (MODIFICATIONS)

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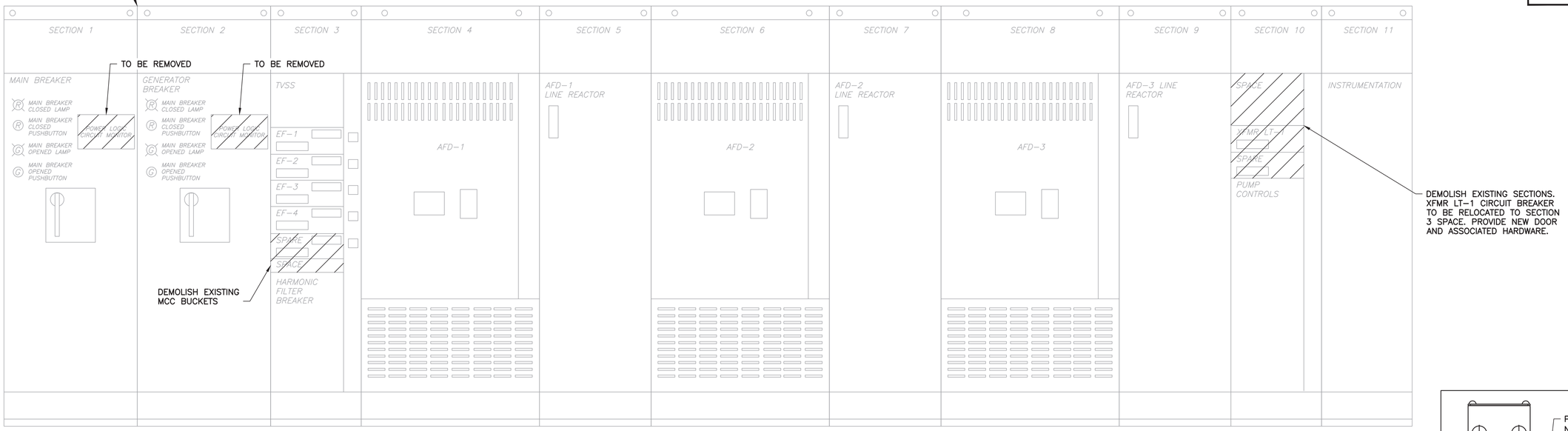
Stormwater Engineering Division

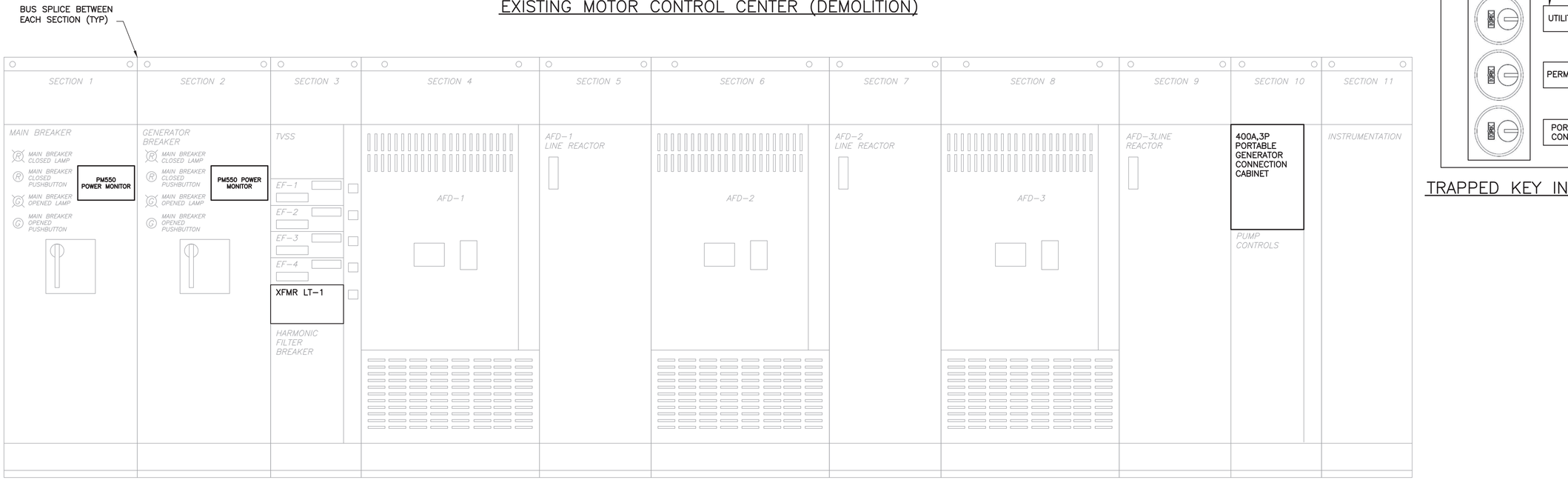
CURIOSITY CREEK SINGLE LINE DIAGRAM (MODIFICATIONS)

SHEET E4 OF 27

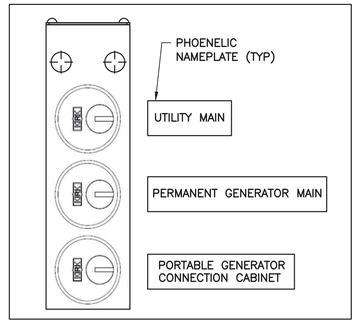
SW 2026-03



EXISTING MOTOR CONTROL CENTER (DEMOLITION)



EXISTING MOTOR CONTROL CENTER (MODIFICATIONS)



TRAPPED KEY INTERLOCK SYSTEM

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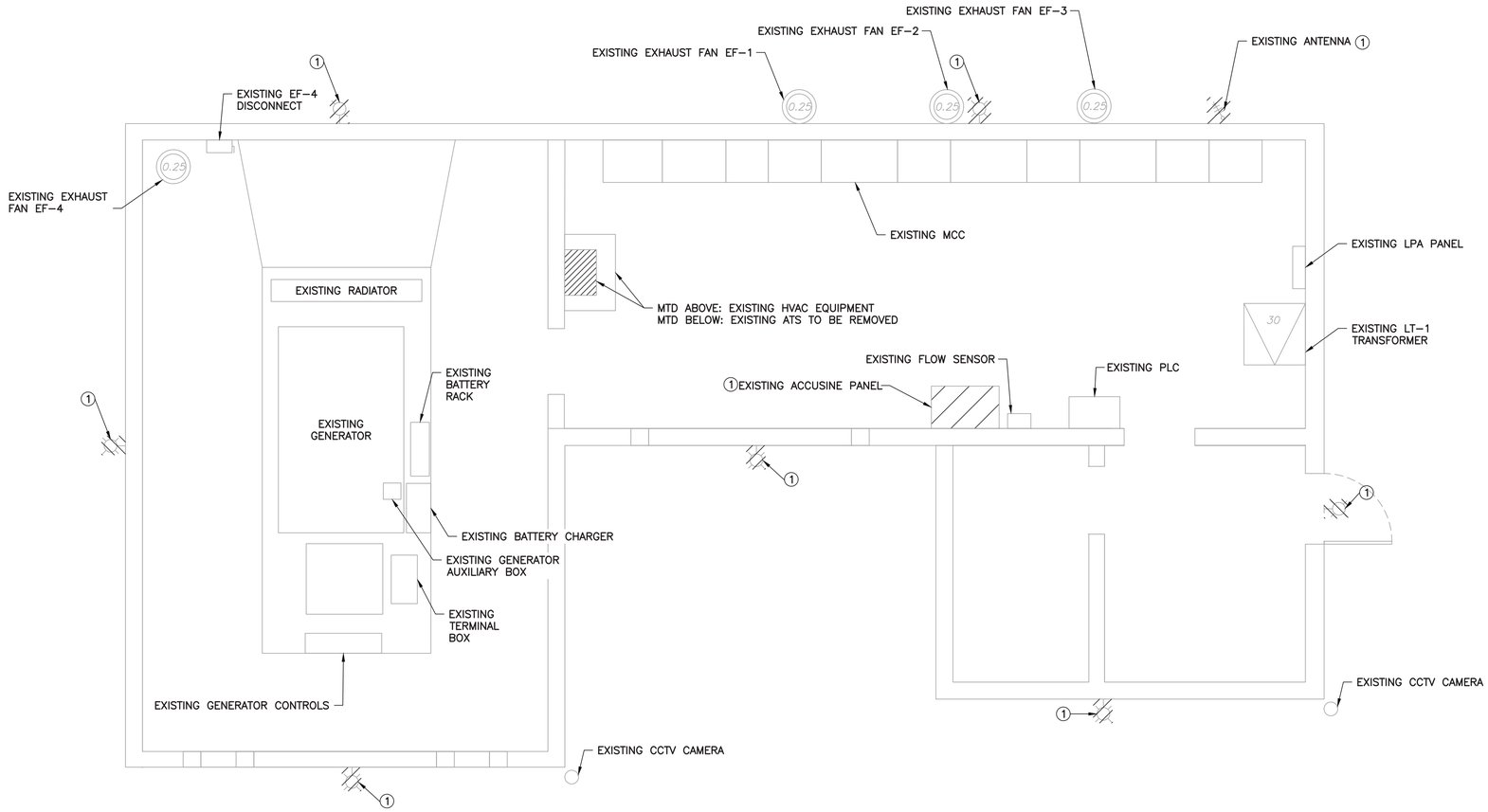
Mobility Department
Stormwater Engineering Division

CURIOSITY CREEK FRONT VIEWS

SHEET E5 OF 27

SW 2026-03



NOTES:

1. (1) TO BE DISCONNECTED AND REMOVED.

CURIOSITY CREEK ELECTRICAL MODIFICATIONS PLAN

SCALE: 3/8"=1'-0"

12" 0 1 2 4'

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1			4							
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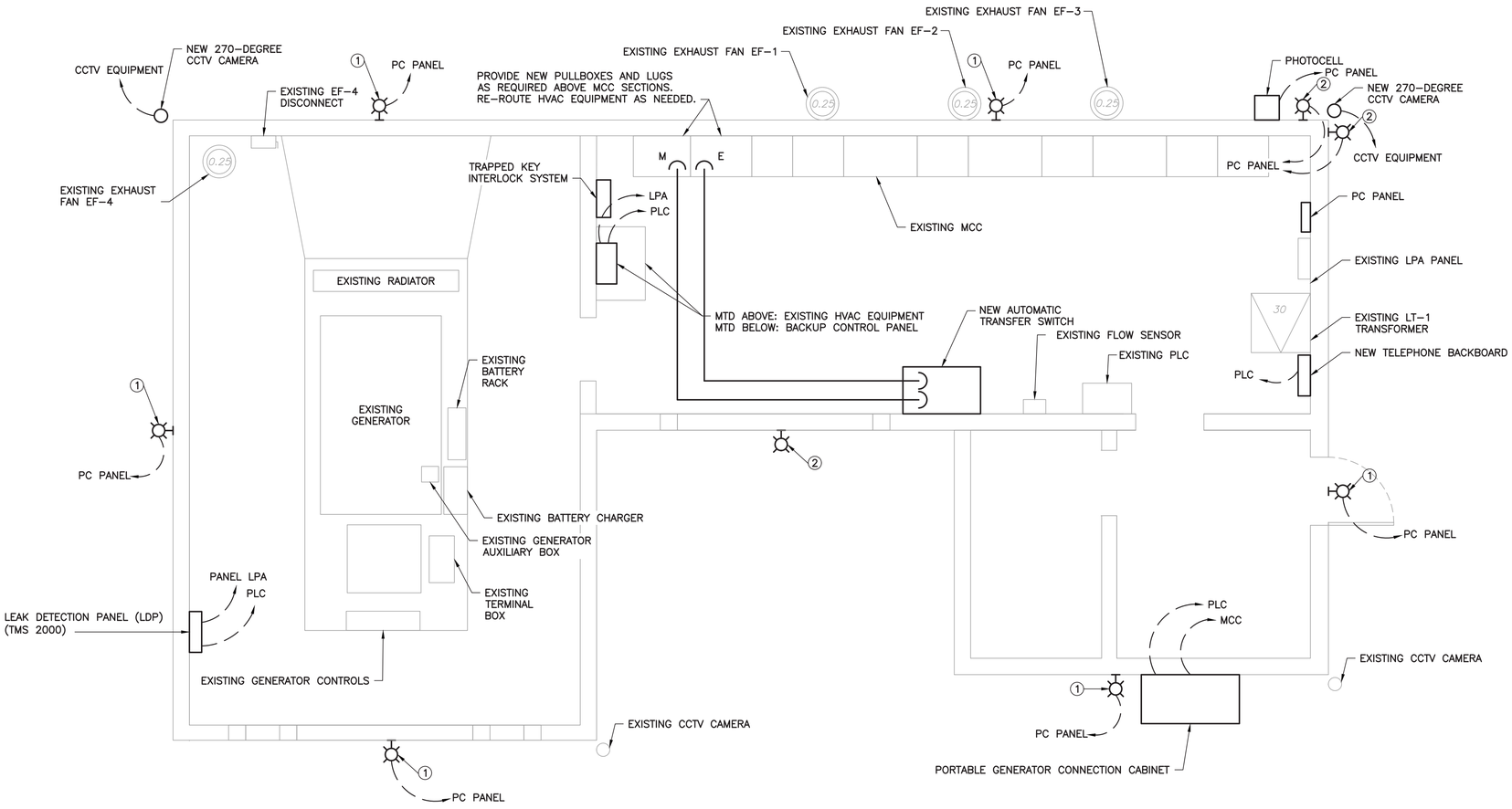
3			6							

SW 2026-03



CURIOSITY CREEK ELECTRICAL MODIFICATIONS PLAN

SCALE: 3/8"=1'-0"

12" 0 1 2 4'

NOTES:

1. REMOVE AND REPLACE EXISTING EXTERIOR LIGHT FIXTURE. PROVIDE NEW GARDCO GWS-A05-840-T4M-UNV-SP2-BK FIXTURE. FIELD VERIFY AND REUSE EXISTING CONDUIT WHERE POSSIBLE. PROVIDE ALL HARDWARE NECESSARY.
2. ADD NEW EXTERIOR LIGHT FIXTURE IN LOCATION SHOWN, MOUNTED AT 10' ABOVE FINISHED GRADE. PROVIDE NEW STONCO WP60-SCT-G2-10-BZ, SELECTABLE WATTAGE=60W, CCT=4000K. PROVIDE NEW BOX AND TERMINATIONS TO EXISTING CIRCUIT, ROUTE NEW CONDUIT FROM EXISTING EXTERIOR LIGHTING CIRCUIT TO NEW FIXTURE. PROVIDE ALL HARDWARE NECESSARY.

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Mobility Department
Stormwater Engineering Division

CURIOSITY CREEK ELECTRICAL MODIFICATIONS PLAN

SHEET E7 OF 27

Plot Date: Tuesday, April 28, 2026

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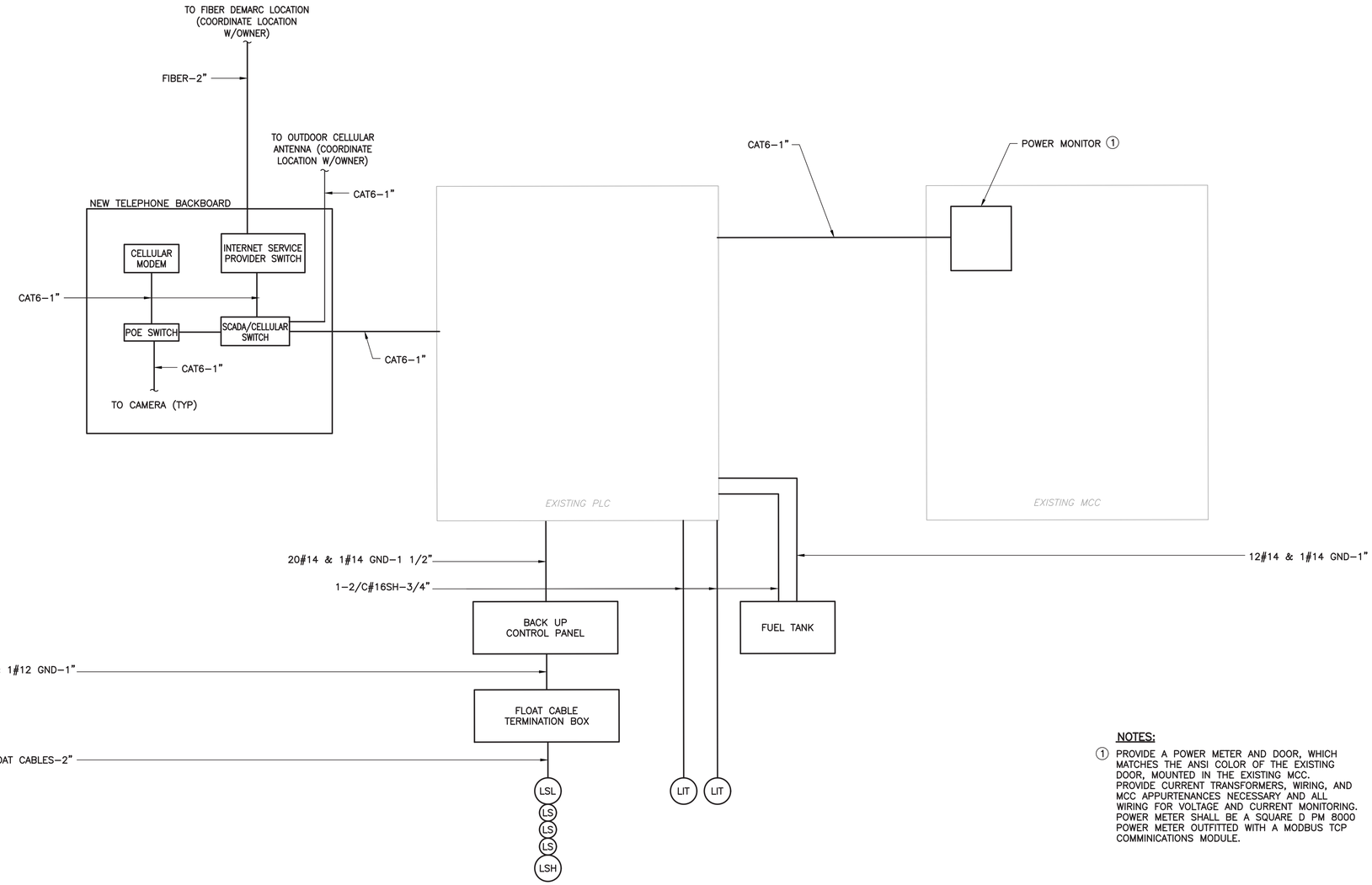

NOTES:

(1) PROVIDE A POWER METER AND DOOR, WHICH MATCHES THE ANSI COLOR OF THE EXISTING DOOR, MOUNTED IN THE EXISTING MCC. PROVIDE CURRENT TRANSFORMERS, WIRING, AND MCC APPURTENANCES NECESSARY AND ALL WIRING FOR VOLTAGE AND CURRENT MONITORING. POWER METER SHALL BE A SQUARE D PM 8000 POWER METER OUTFITTED WITH A MODBUS TCP COMMINICATIONS MODULE.

INSTRUMENTATION AND CONTROL RISER DIAGRAM

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1			4							
2			5							
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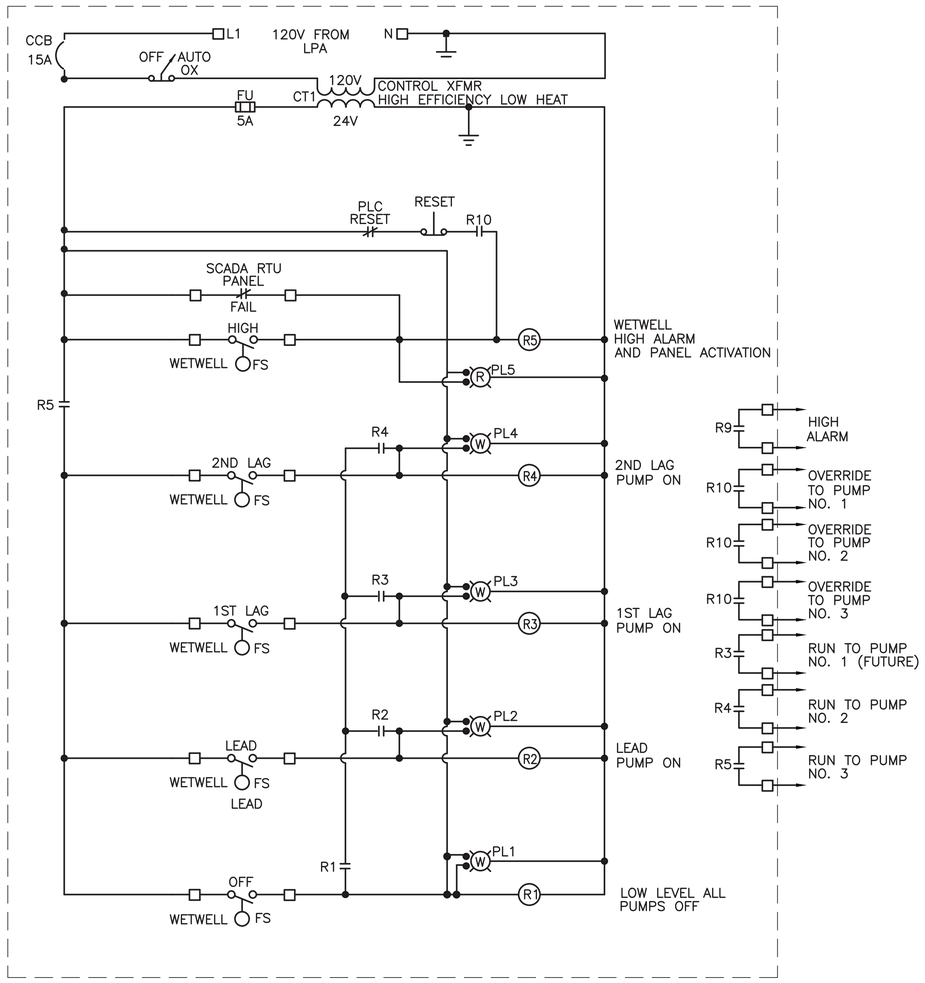


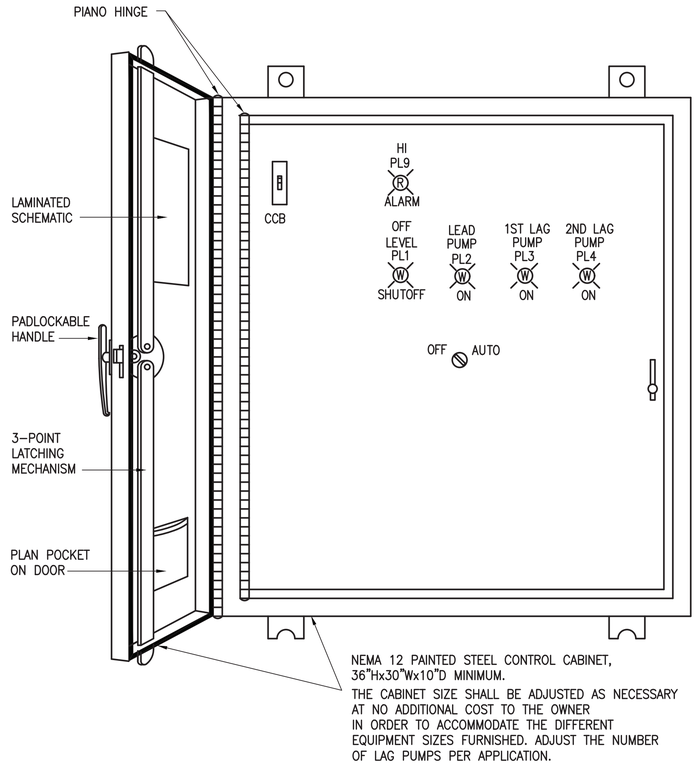
BACK-UP CONTROL PANEL (BCP)
NOT TO SCALE

NOTES:

1. PROVIDE PERMANENT LABELS FOR ALL SWITCHES, PUSHBUTTONS AND LIGHTS WITH PROPER ENGRAVING.
2. ELEMENTARY IS SHOWN FOR TRIPLEX. CONTRACTOR SHALL PROVIDE ADDITIONAL WIRING AND RELAYS FOR QUADRUPLEX.

DRAWING LEGEND

LEGEND	NOMENCLATURE
CCB	CONTROL BREAKER
CT1	STEP DOWN TRANSFORMER 120V/24V
FU	FUSE
FS	FLOAT SWITCH
PB	PUSH BUTTON
PL	TESTABLE PANEL LIGHT



BACK-UP CONTROL PANEL DEAD FRONT VIEW
NOT TO SCALE

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CURIOSITY CREEK BACKUP CONTROL PANEL ELEMENTARY DIAGRAM

SHEET E9 OF 27

SW 2026-03

① PANEL: LPA | BUS: 125 AMP | VOLT: 120/208, 3P, 4W
LOCATION: ELECTRICAL ROOM | MAIN: 125 | REMARKS: –
MOUNTING: SURFACE | POLES: 42– | A.I.C. SYMM: 22,000 AMPS

AMPS	POLE	WIRE	GND.	COND.	LOAD SERVED	BUS KVA A	BUS KVA B	BUS KVA C	BUS A B C	BUS KVA A	BUS KVA B	BUS KVA C	LOAD SERVED	WIRE	GND.	COND.	POLE	AMPS
20	1	–	–	–	ELECT./GEN LIGHTS	–			1 2	–			EMERGENCY LIGHTS	–	–	–	1	20
20	1	–	–	–	EXHAUST FAN BATHROOM		–		3 4		–		OUTDOOR RECEP. (GFI)	–	–	–	1	20
20	1	–	–	–	ELECT./GEN RECEPTACLES			–	5 6			–	ELEC. BLDG. EXT. LIGHTING	12	12	3/4"	1	20
20	1	–	–	–	OFFICE/BATH RECEPTACLES	–			7 8	–			INSTRUMENTATION PANEL	–	–	–	1	20
20	1	–	–	–	SUMP (GFI)		–		9 10		–		PUMP CONTROL PANEL	–	–	–	1	20
20	2	–	–	–	GEN. CONTROL PANEL			–	11 12			–	OFFICE/BATH LIGHTS	–	–	–	1	20
–	–	–	–	–	–	–			13 14	–			FIRE ALARM PANEL	–	–	–	1	20
20	1	–	–	–	ATS CONTROL PANEL		–		15 16		0.10		LEAK DETECTION PANEL	–	–	–	1	20
20	2	–	–	–	AIR HANDLER			–	17 18			–	AIR COMPRESSOR	–	–	–	3	30
–	–	–	–	–	–	–			19 20	–			–	–	–	–	–	–
20	1	12	12	3/4"	FLOW SWITCH 1		0.10		21 22		–		–	–	–	–	–	–
20	1	12	12	3/4"	FLOW SWITCH 2			0.10	23 24			–	SPACE	–	–	–	–	–
15	1	–	–	–	RTU	–			25 26	–			SPACE	–	–	–	–	–
20	1	12	12	3/4"	FLOW SWITCH 3		0.10		27 28		–		SPACE	–	–	–	–	–
20	1	12	12	3/4"	BACK UP CONTROL PANEL			0.12	29 30			–	SPACE	–	–	–	–	–
TOTAL (PHASE):						–	–	–		–	–	–	NOTES:					
TOTAL KVA:								–					–					
TOTAL AMPS:								–										
TOTAL DEMAND AMPS:								–										

CURIOSITY CREEK PANEL LPA

NOTES:

① EXISTING PANELBOARD SCHEDULE IS BASED ON EXISTING AS–BUILT INFORMATION. TRACE ALL EXISTING CIRCUITS, VERIFY EXISTING LOADS, AND PROVIDE NEW TYPE WRITTEN LAMINATED SCHEDULE.

MCC LOAD TABULATION

480V–3ϕ–4W

DESCRIPTION	LOAD	AMPACITY
EXHAUST FAN	4 @ 0.25 HP	= 4.40 AMPS
LPA LIGHTING PANEL		= 36.00 AMPS
STORMWATER PUMPS	3 @ 248 HP	=1086.00 AMPS
CONNECTED LOAD		= 1126.40 AMPS

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CURIOSITY CREEK LOAD TABULATION AND PANELBOARD SCHEDULES

SHEET E10 OF 27

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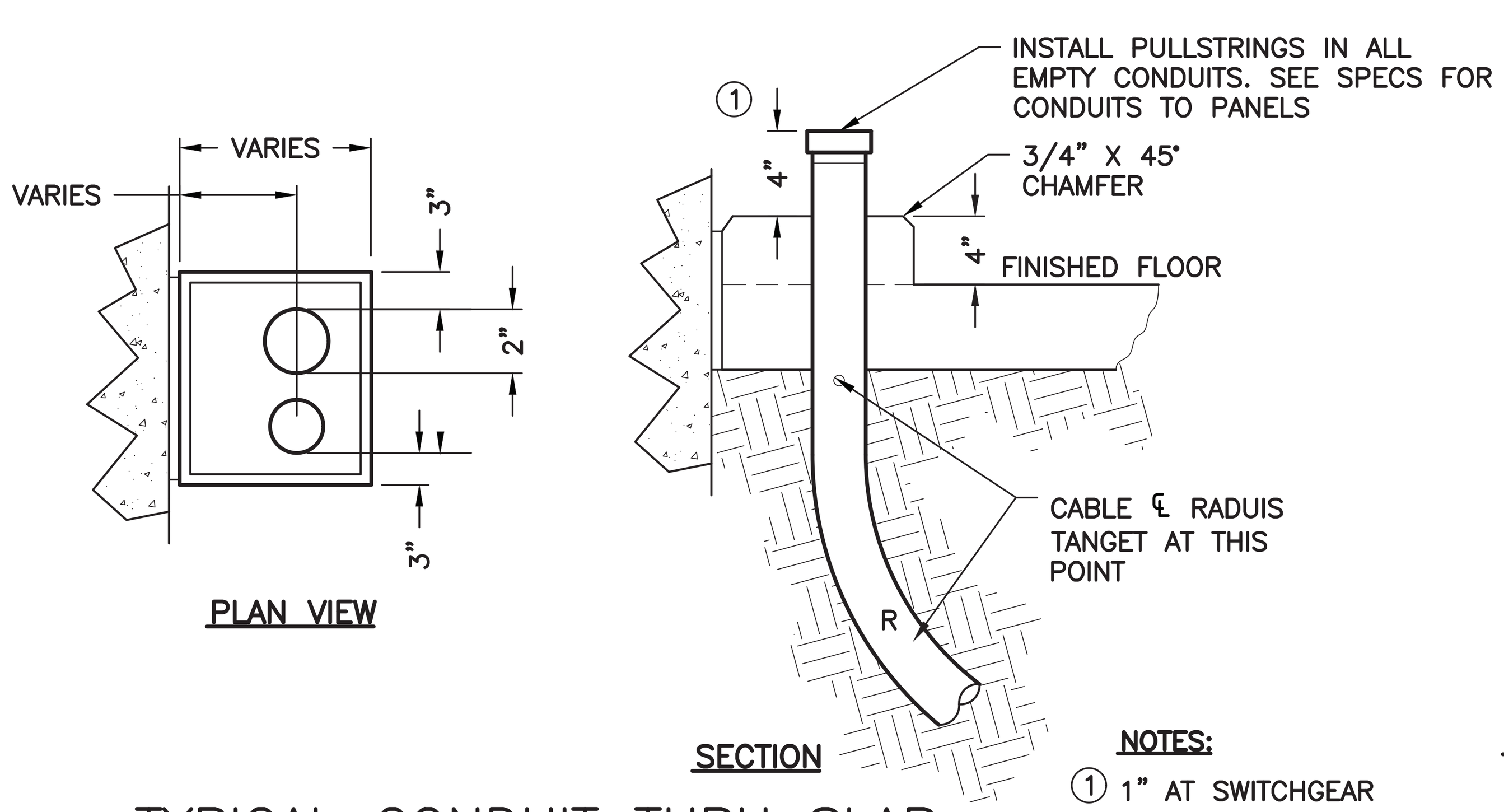
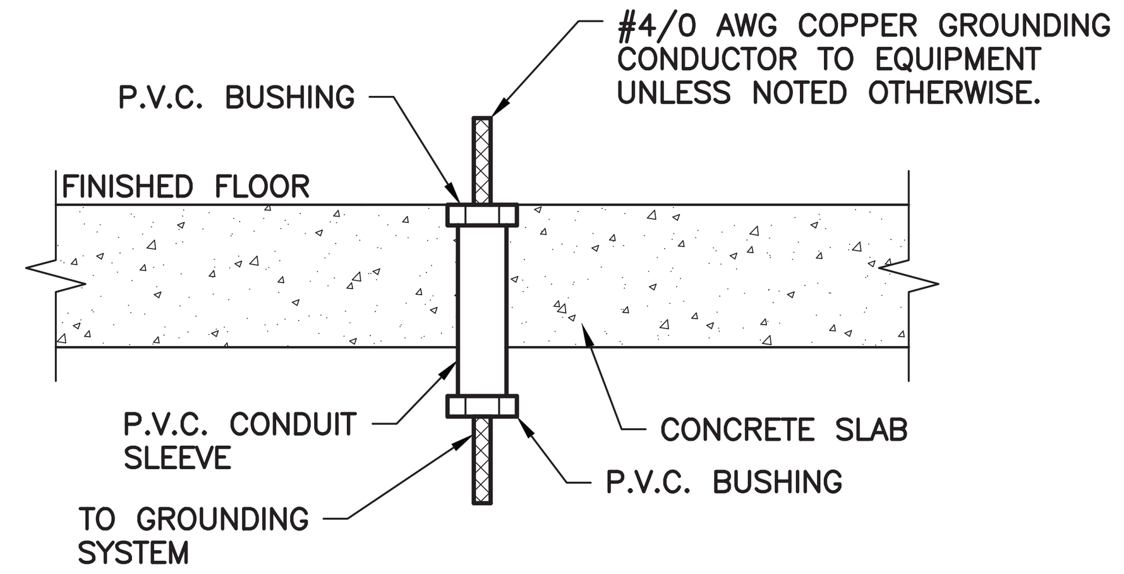


NOTES:
① 1" AT SWITCHGEAR

TYPICAL CONDUIT THRU SLAB

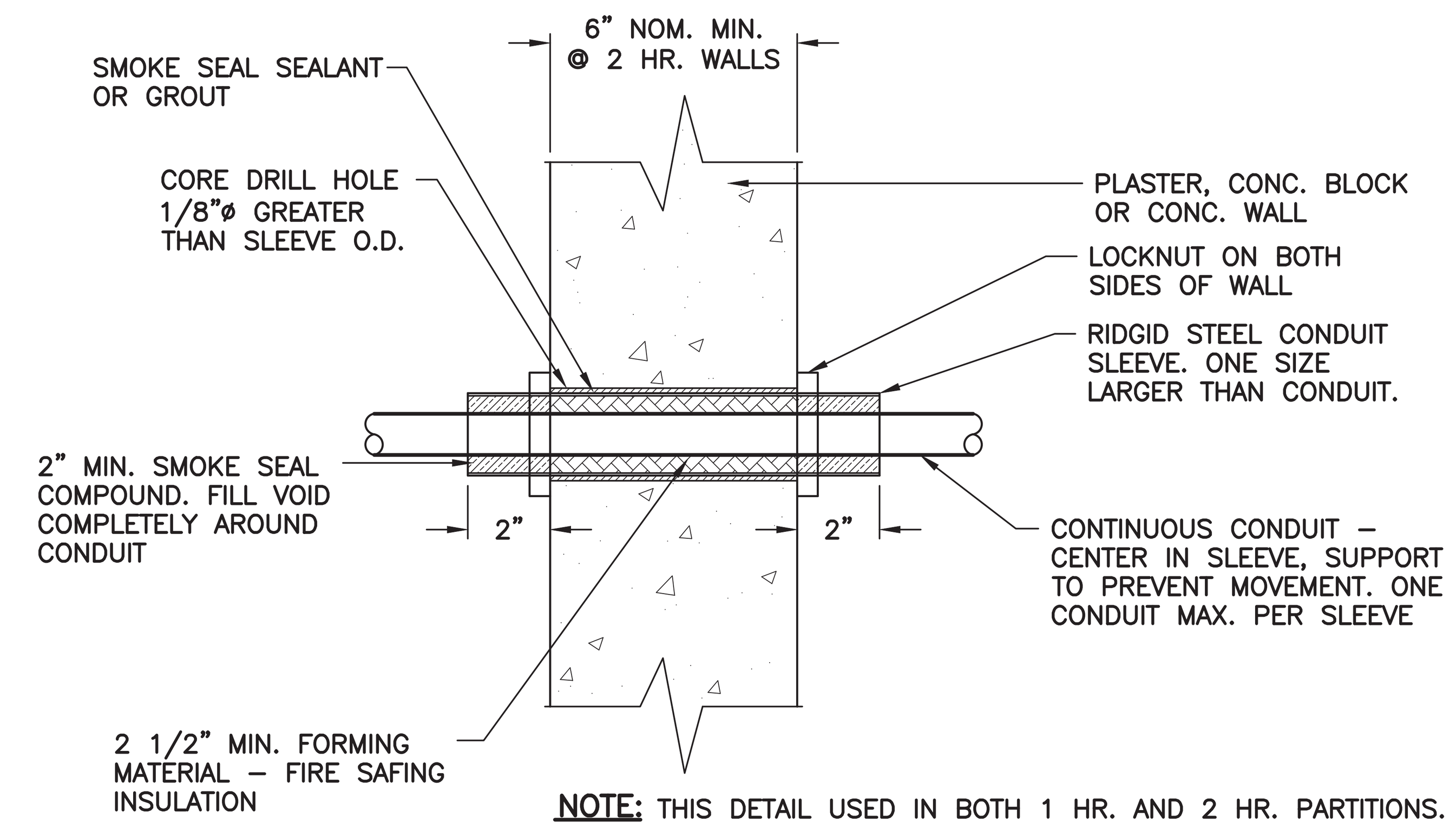
N.T.S.



NOTES:
① EXTEND PVC CONDUIT TO TOP OF BASE, OR PEDESTAL FOR BASE OR PEDESTAL MOUNTED EQUIPMENT. SUPPORT AT (2) PLACES (MINIMUM).

GROUNDING CONDUIT SLEEVE DETAIL

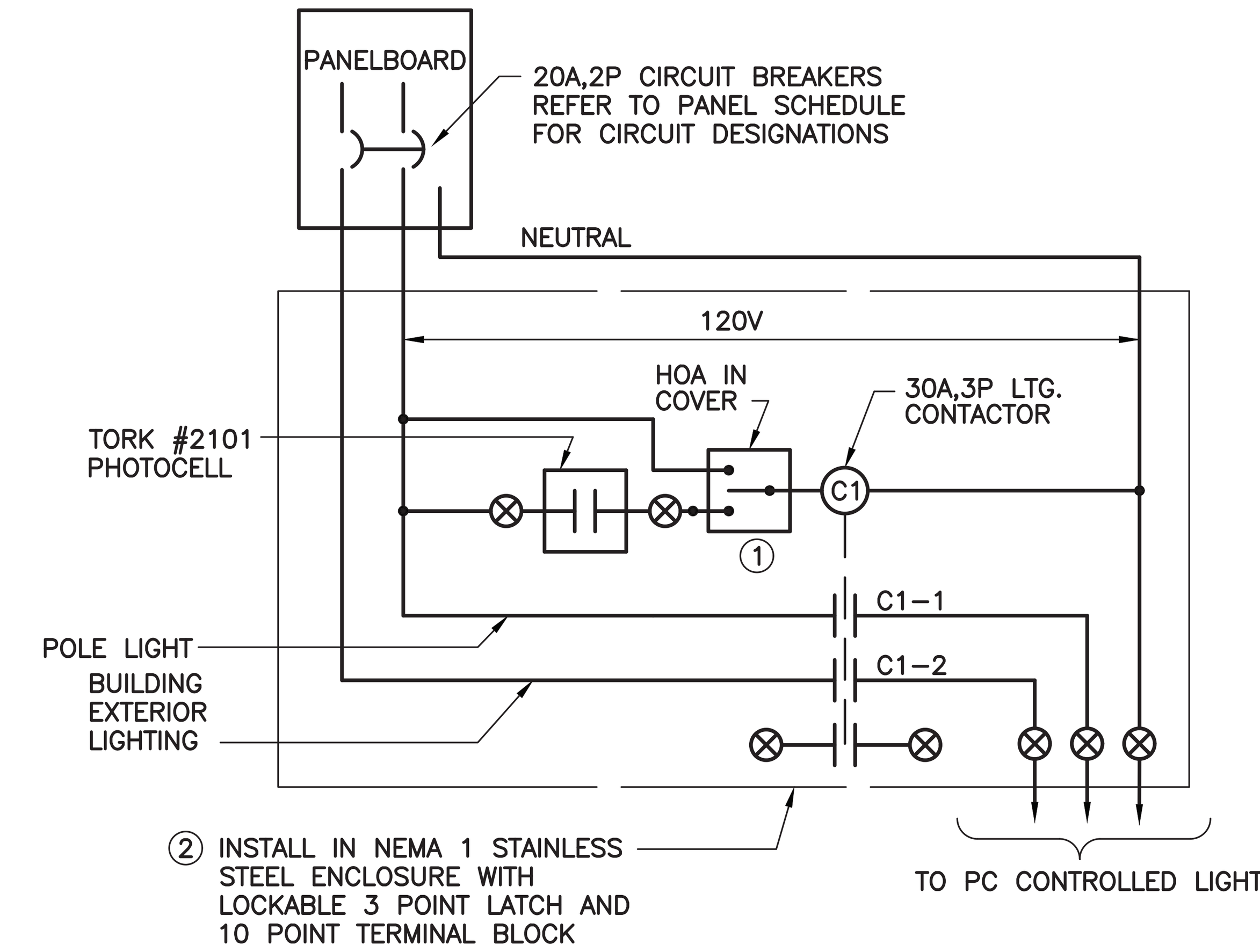
N.T.S.



NOTE: THIS DETAIL USED IN BOTH 1 HR. AND 2 HR. PARTITIONS.

CONDUIT SLEEVE DETAIL AT WALL

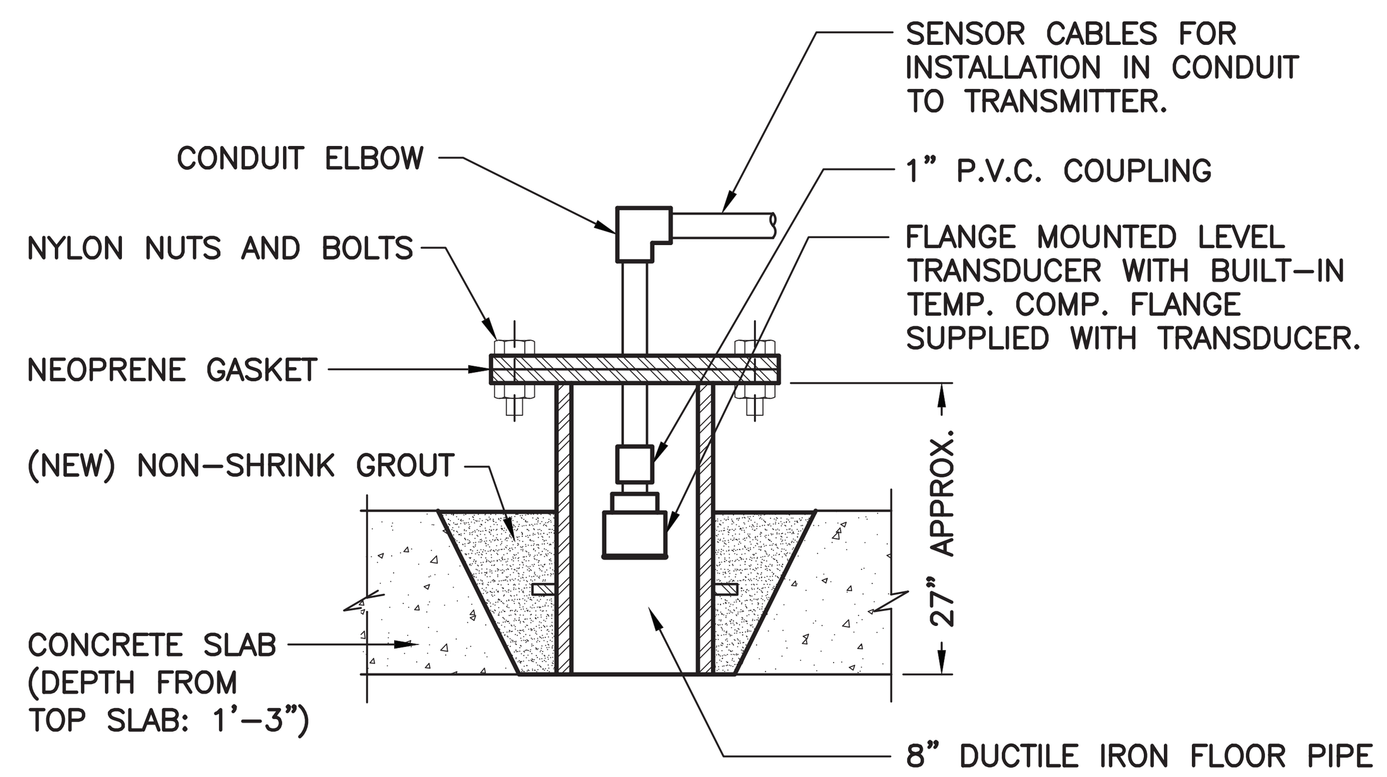
N.T.S.



NOTES:
① HOA SWITCH SHALL BE INSTALLED THROUGH OUTER DOOR OF CONTACTOR PANEL.
② LIGHTING CONTACTOR PANEL TO BE BUILT TO U.L. 508 STANDARDS.

PC PANEL

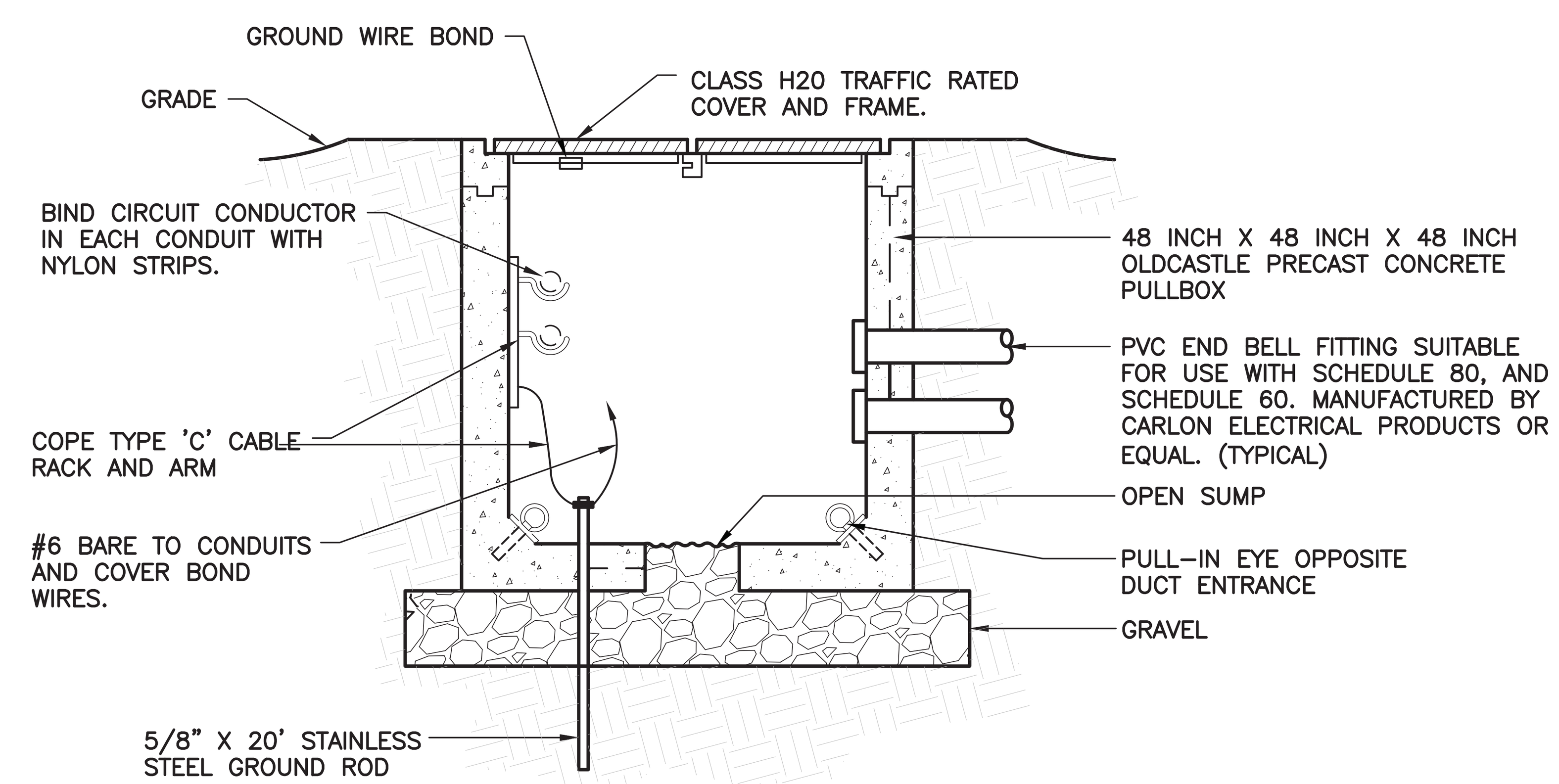
SCALE: N.T.S.



NOTES:
1. COMPONENTS DESIGNATED ARE SUPPLIED BY INSTRUMENT MANUFACTURER.
2. COAT FLOOR PIPE WITH UV PROTECTANT COATING SYSTEM PRIOR TO CONCRETE PLACEMENT. COORDINATE WITH OWNER FOR COLOR REQUIREMENT.
3. T/SLAB= 31.1 +/– (PER SURVEY)
4. MINIMUM EQUIPMENT EL PER TABLE 32.7

CURIOSITY LEVEL ELEMENT INSTALLATION

SCALE: NOT TO SCALE



NOTES:
① ALL WIRES IN PULL BOX TO BE LABELED INDICATING CIRCUIT NUMBERS. SEE SPECIFICATIONS.
② DO NOT SPLICE CABLES IN PULL BOXES UNLESS OTHERWISE NOTED.
③ PATCH CONDUIT ENTRY WINDOW WITH CONCRETE.

HANDHOLE DETAIL

N.T.S.

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C.O.A. No. 8079
MICHAEL J. CAHILL, P.E.
Florida P.E. No. 70837

Plot Date: Tuesday, April 28, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS		
1			4			DES:	ST
2			5			DRN:	SRP
3			6			CKD:	MJC
						DATE:	4/27/26

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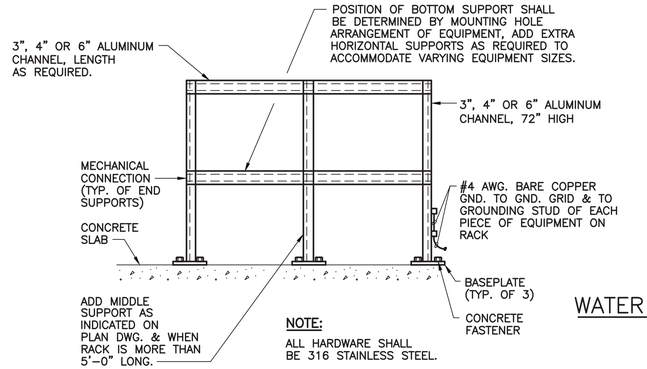
CITY of TAMPA
Mobility Department
Stormwater Engineering Division

ELECTRICAL DETAILS I

SHEET E11 OF 27

SW 2026-03



EQUIPMENT RACK DETAIL

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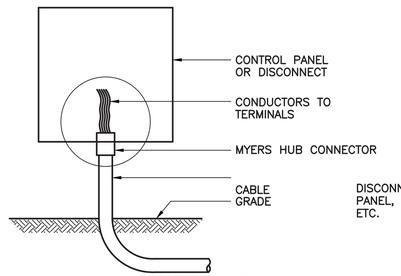

WATER TIGHT CONNECTION DETAIL

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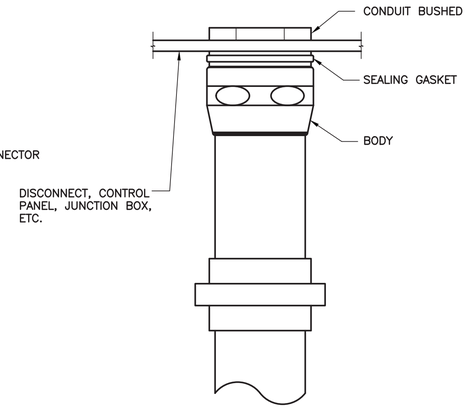

CONDUIT HUB CONNECTION DETAIL

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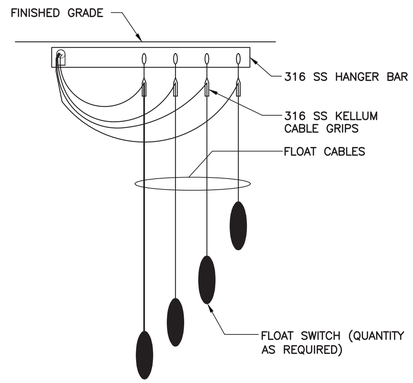
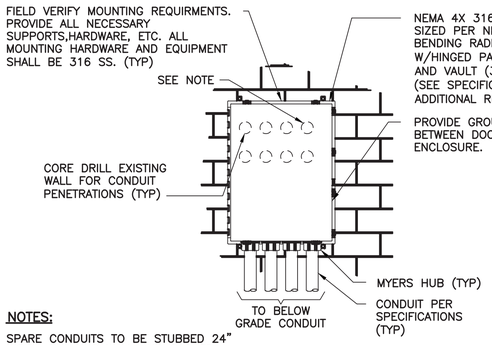


FLOAT SWITCH MOUNTING DETAIL

NOT TO SCALE



PULL BOX DETAIL

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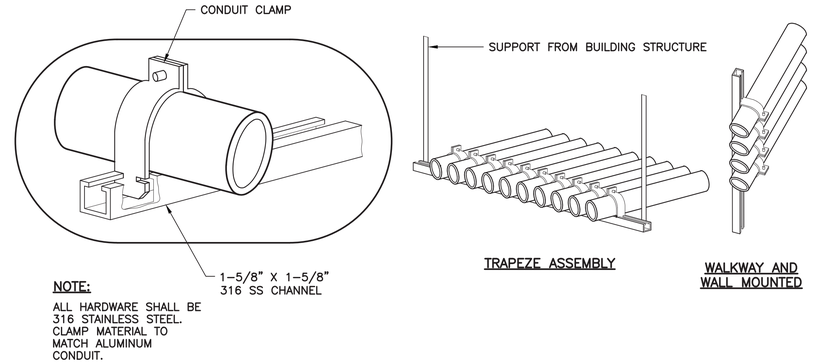

CONDUIT PIPE STRAP MOUNTING DETAILS

N.T.S.

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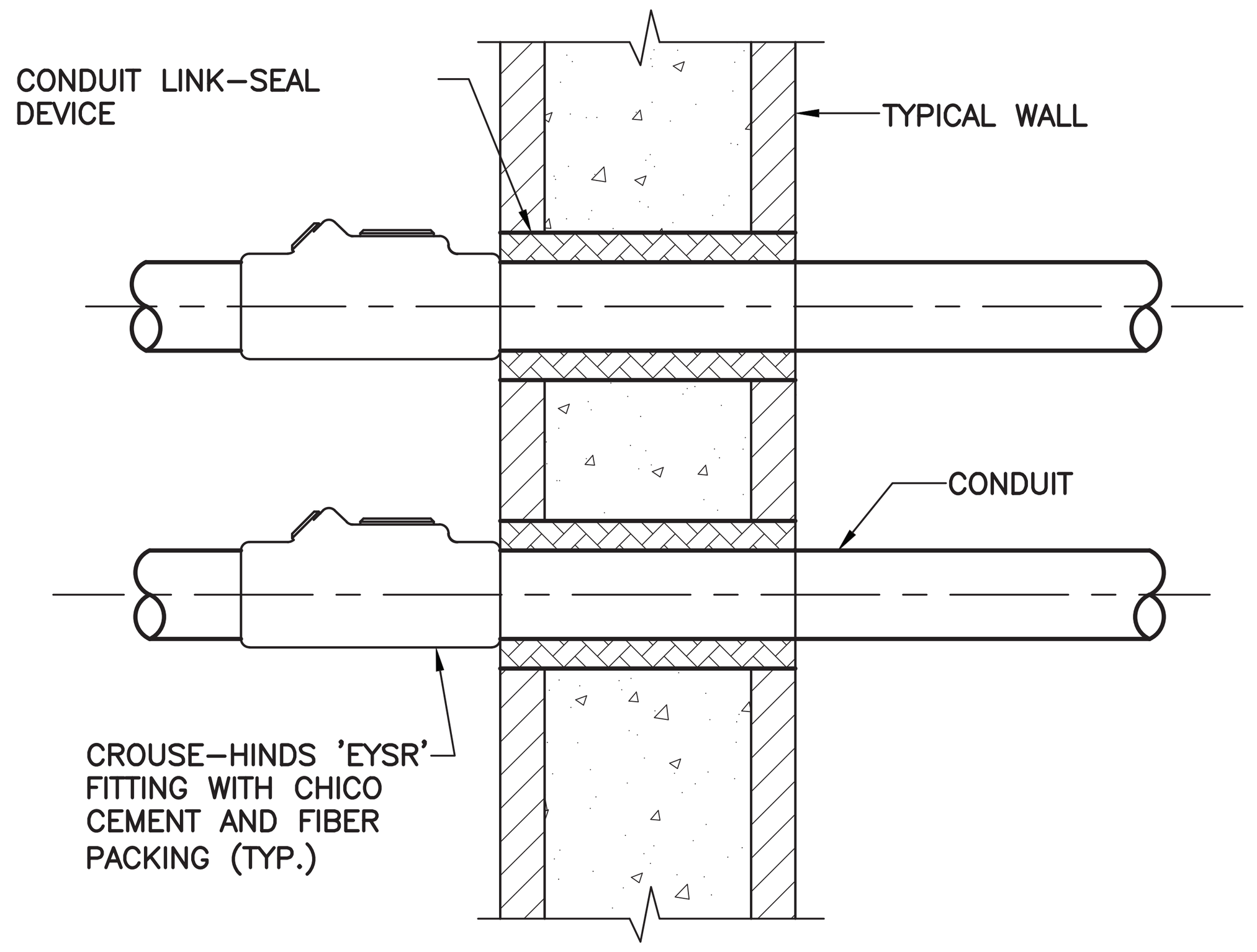
Mobility Department
Stormwater Engineering Division

ELECTRICAL DETAILS 2

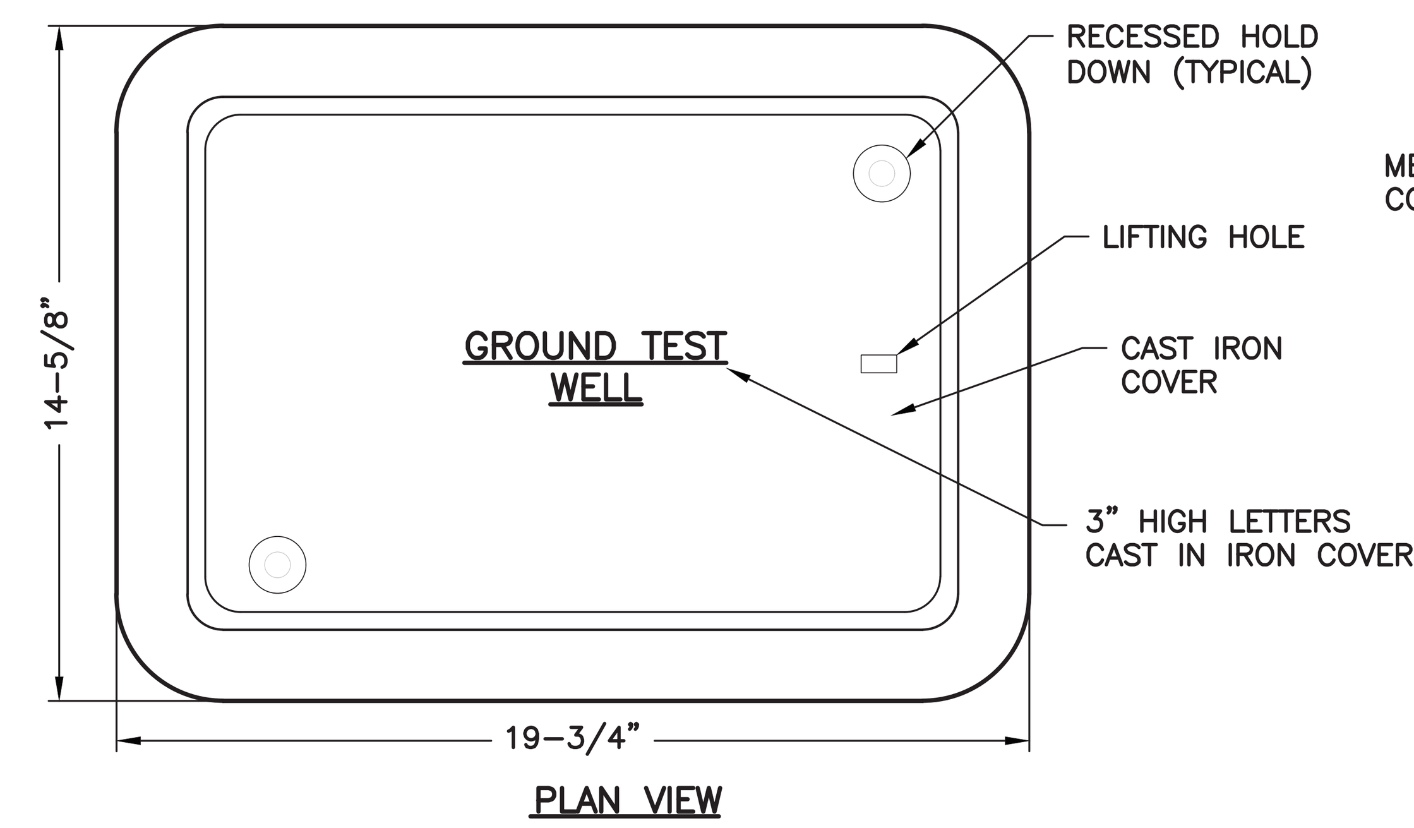
SHEET E12 OF 27

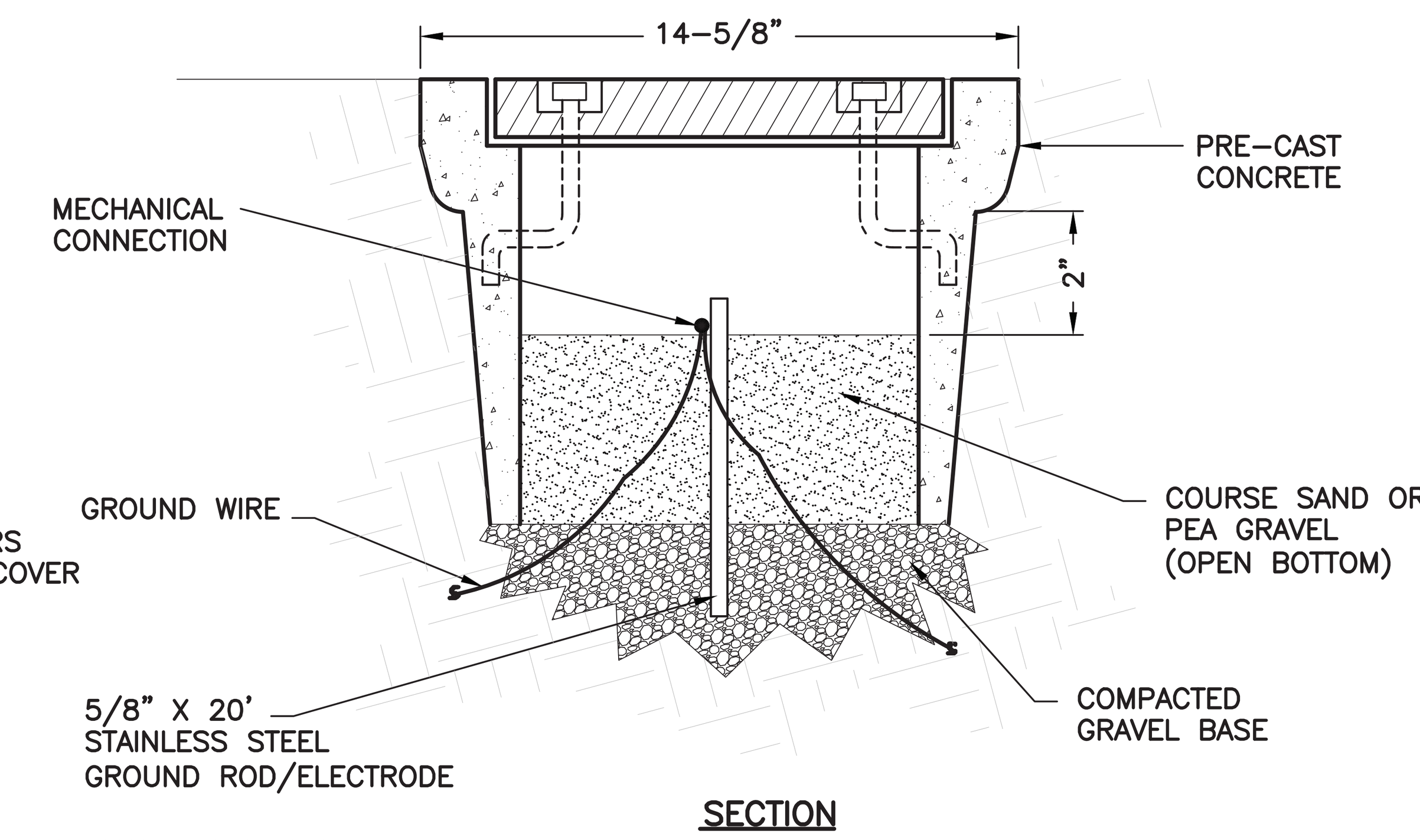
SW 2026-03



WALL PENETRATION DETAIL

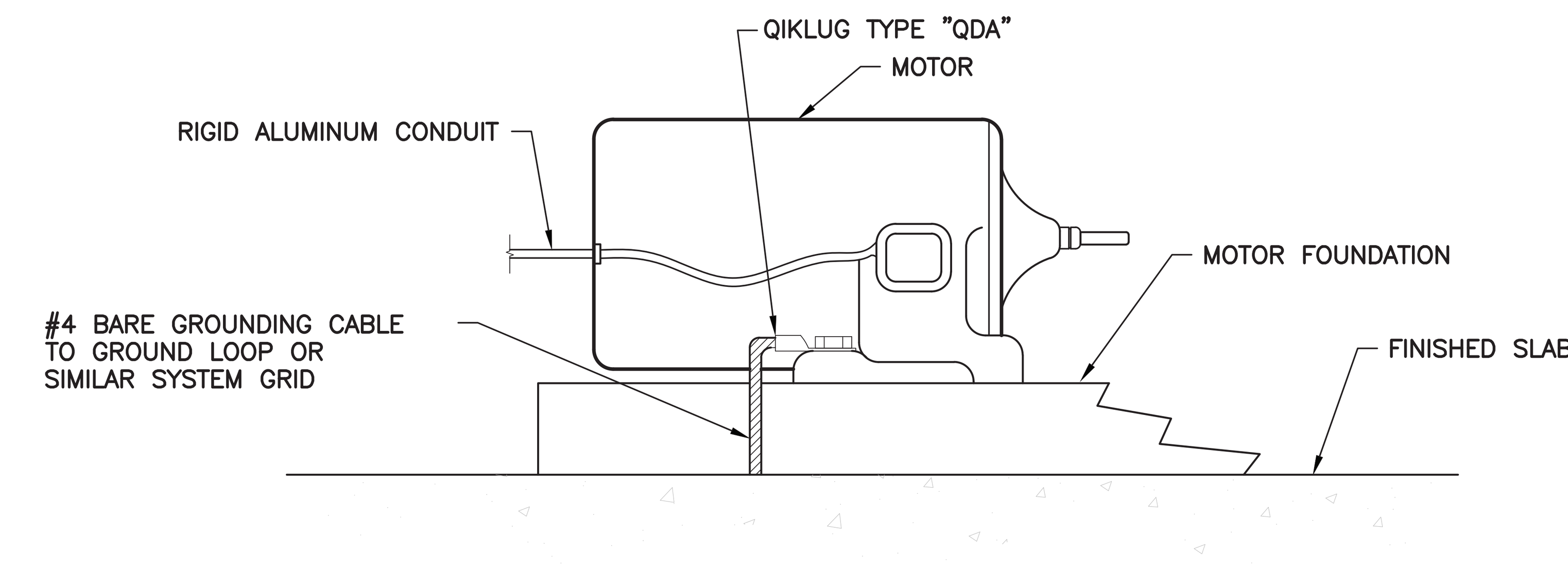
N.T.S.





GROUND TEST WELL

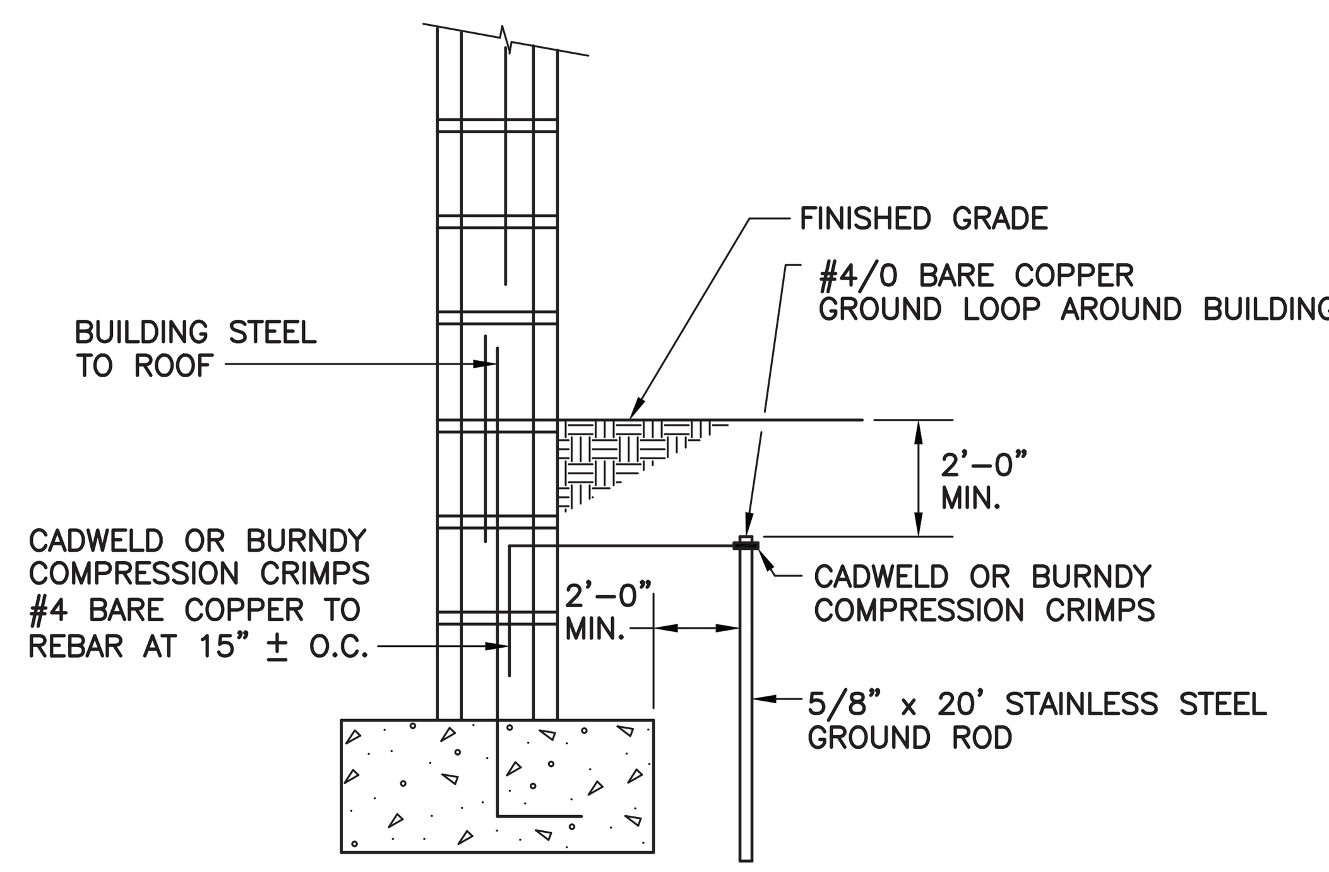
N.T.S.



NOTE:
THIS GROUND IS IN ADDITION TO THE GROUND FROM THE MAIN ELECTRICAL SERVICE.

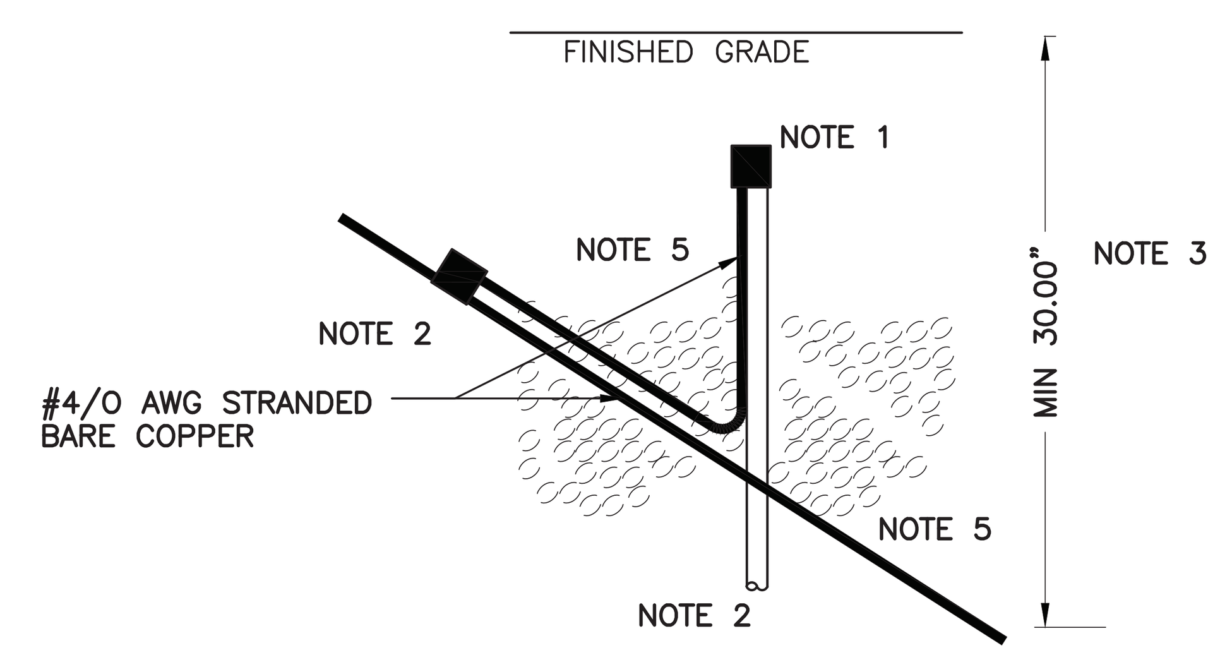
EQUIPMENT GROUNDING DETAIL

N.T.S.



BUILDING STRUCTURE BONDING

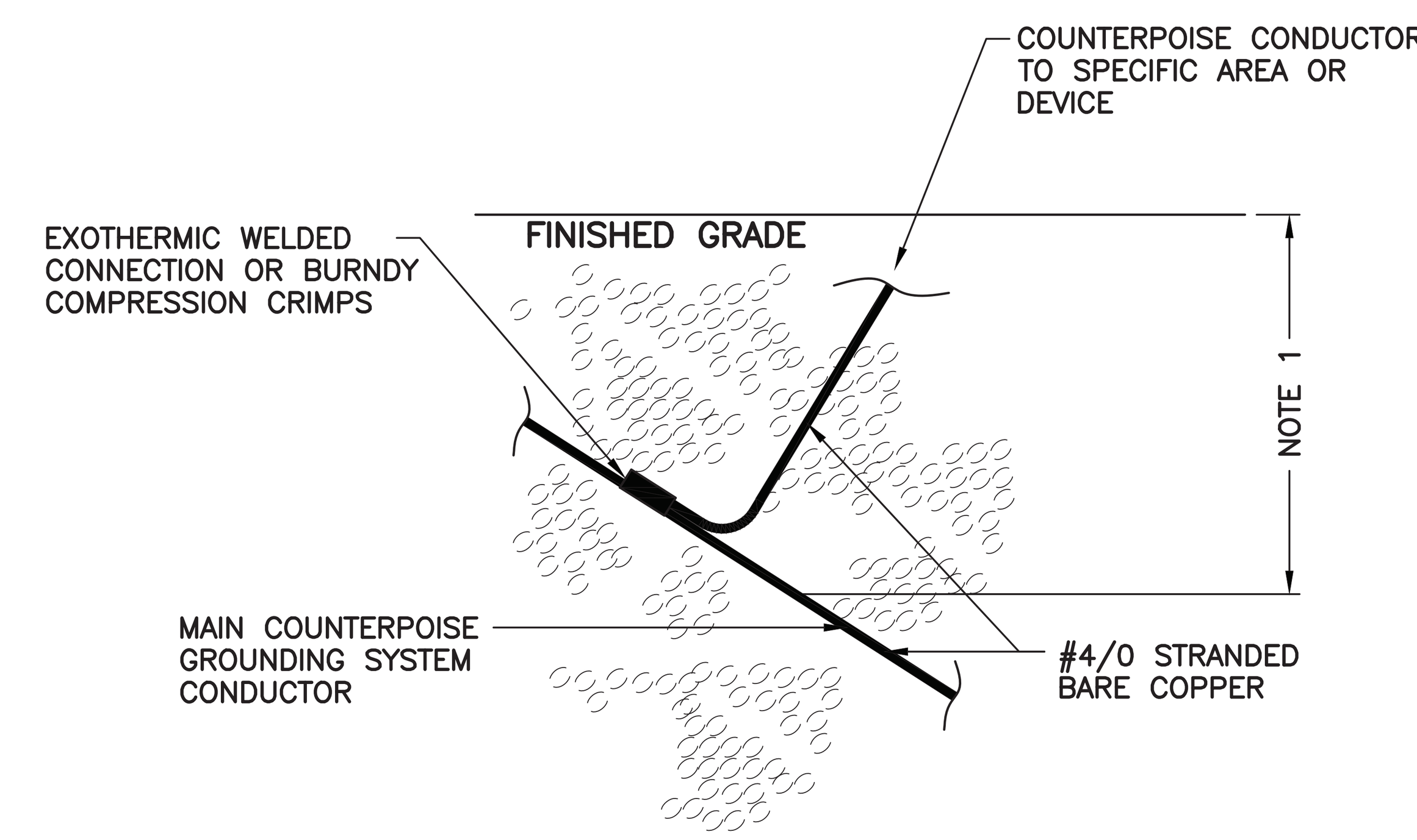
N.T.S.



1. GROUND ROD TO COUNTERPOISE CONDUCTOR SHALL BE CONNECTED BY MEANS OF A EXOTHERMIC WELD OR BURNDY COMPRESSION CRIMPS. GROUND ROD SHALL BE 3/4 INCH IN DIAMETER AND 20 FOOT LENGTH MINIMUM.
2. COUNTERPOISE CONDUCTOR TO CONDUCTOR CONNECTION SHALL BE CONNECTED BY MEANS OF EXOTHERMIC WELD OR BURNDY COMPRESSION CRIMPS AND THE CONDUCTOR FROM COUNTERPOISE LENGTH GROUND ROD SHALL HAVE A MINIMUM OF 36 INCHES.
3. UNDERGROUND INSTALLATION OF COUNTERPOISE SYSTEM SHALL BE BURIED AT A MINIMUM DEPTH OF 30 INCHES.
4. ALL COMPONENTS USED IN INSTALLATION WITHIN SHALL COMPLY WITH SPECIFICATION 26 05 26.
5. #4/0 AWG STRANDED BARE COPPER CONDUCTOR

COUNTERPOISE GROUND ROD CONNECTION DETAIL

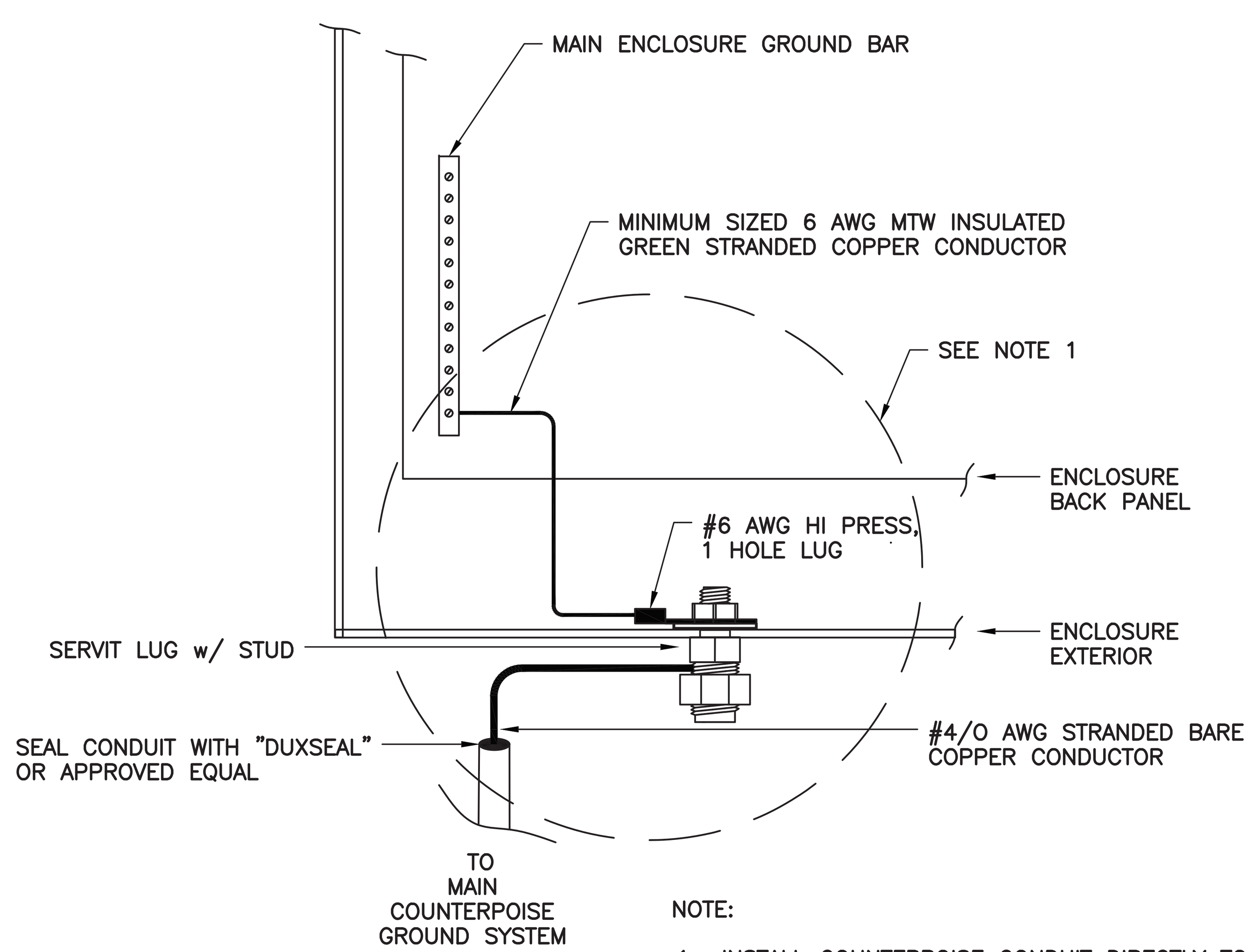
N.T.S.



1. UNDERGROUND INSTALLATION OF COUNTERPOISE SYSTEM SHALL BE BURIED AT A MINIMUM DEPTH OF 30 INCHES.
2. ALL COMPONENTS USED IN INSTALLATION WITHIN SHALL COMPLY WITH SPECIFICATION 26 05 26.

COUNTERPOISE CONDUCTOR CONNECTION DETAIL

N.T.S.



NOTE:

1. INSTALL COUNTERPOISE CONDUIT DIRECTLY TO BOTTOM OF ENCLOSURE IN APPROVED MATTER AND CONNECT COUNTERPOISE CONDUCTOR TO MANUFACTURER'S DESIGNATED GROUNDING BAR.

CONTROL, JUNCTION AND INSTRUMENT PEDESTAL ENCLOSURES GROUNDING DETAIL

NOT TO SCALE

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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

ELECTRICAL DETAILS 3

SHEET E13 OF 27

SW 2026-03

GENERAL INSTRUMENT OR FUNCTION SYMBOLS

	DISCRETE INSTRUMENT – FIELD MOUNTED
	DISCRETE INSTRUMENT – PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR (1)
	DISCRETE INSTRUMENT – AUXILLARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR (1)
	INSTRUMENTS SHARING COMMON HOUSING
	INSTRUMENT FURNISHED WITH SPECIFIC FIELD COMPONENT (E.G. PUMP, NLOWER, VALVE, CONVEYOR, ETC.)
XXX	EXISTING EQUIPMENT
XXX	FUTURE EQUIPMENT
I	CONTROL INTERLOCK
A	TRIANGLE DENOTES WHETHER INPUT OR OUTPUT.
D	CONTROL SYSTEM I/O INTERFACE – DISCRETE SIGNAL. DIRECTION OF TRIANGLE DENOTES WHETHER INPUT OR OUTPUT.
	PNEUMATIC SIGNAL
	PNEUMATIC SIGNAL
	DIAPHRAGM SEAL
	EQUIPMENT FURNISHED BY CONTRACTOR OR EQUIPMENT SUPPLIER (NOT SYSTEM SUPPLIER)

PROCESS DEVICE SYMBOLS

	REDUCER OR ENLARGER
	PRIMARY ELEMENT VENTURI TUBE
M	PRIMARY ELEMENT MAGNETIC FLOWMETER
	PRIMARY ELEMENT ULTRASONIC DOPPLER FLOWMETER
	PRIMARY ELEMENT PARSCHALL FLUME
	PRIMARY ELEMENT ORIFICE PLATE
	PRIMARY ELEMENT WEIR FLOWMETER
	PRIMARY ELEMENT TURBINE OR PROPELLER TYPE METER
	PRIMARY ELEMENT PITOT TUBE
	PRIMARY ELEMENT ROTAMETER
	PRIMARY ELEMENT STRAP ON ULTRASONIC TRANSIT TIME METER
	PRIMARY ELEMENT STRAP ON ULTRASONIC DOPPLER METER
	PRIMARY ELEMENT ULTRASONIC FLOW OR LEVEL METER
	FLOAT SWITCH
	DRAIN
	CHEMICAL INJECTION POINT
	MIXER

PROCESS DEVICE SYMBOLS (CONTINUED)

	VALVE: GLOBE OR OTHER IN–LINE TYPE, UNLESS OTHERWISE INDICATED.
	BUTTERFLY VALVE
	CHECK VALVE WITH FLOW DIRECTION AS INDICATED
	PLUG VALVE
	BALL VALVE
REGULATED SIDE	PRESSURE REGULATING VALVE – SELF CONTAINED
	FLOW CONTROL GATE OR GATE VALVE
	CENTRIFUGAL BLOWER
	CENTRIFUGAL PUMP
M	SUBMERSIBLE PUMP
M	DIAPHRAGM PUMP & MOTOR
	DISC FLOW OR PROGRESSIVE CAVITY PUMP
	VERTICAL PUMP
M	MOTOR – MAY BE ELECTRIC, HYDRAULIC, OR PNEUMATIC. ARROW DENOTES VARIABLE SPEED.

FUNCTION SYMBOLS & ABBREVIATIONS

Σ	SUMMING
Σ/n	AVERAGING
△	SUBTRACTING
√‾	EXACT SQUARE ROOT
÷	DIVIDE
x	MULTIPLY
S	INTEGRATE
+	BIAS POSITIVE
–	BIAS NEGATIVE
f(X)	NONLINEAR OR UNSPECIFIED FUNCTION
>	HIGH SELECT
<	LOW SELECT
⟩	HIGH LIMIT
⟨	LOW LIMIT
/	SIGNAL TRANSDUCER OR CONVERTER (INPUT/OUTPUT) * DEFINED AS FOLLOWS: E VOLTAGE; H HYDRAULIC; I CURRENT; PD PULSE DURATION; O ELECTROMAGNETIC, SONIC; P PNEUMATIC; PD PULSE DURATION; R RESISTANCE (ELECTRIC)

CHEMICAL ABBREVIATIONS: (STANDARD CHEMICAL FORMULAS ARE USED)

HAND SWITCH ABBREVIATIONS:

A	AUTOMATIC
C	COMPUTER OR CLOSE
H	HAND
L	LOCAL
M	MODULATE

HAND SWITCH ABBREVIATIONS:

O	OFF OR OPEN
R	REMOTE
S	START OR STOP

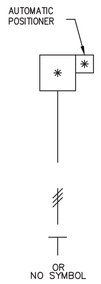
OTHER ABBREVIATIONS:

AI	ANALOG INPUT
AO	ANALOG OUTPUT
AS	AIR SUPPLY
COND	CONDUCTIVITY
CR	CHLORINE RESIDUAL
CTU	CENTRAL TELEMETRY UNIT
DCU	DISTRIBUTED CONTROL UNIT
DI	DIGITAL OR DISCRETE INPUT
DO	DISSOLVED OXYGEN OR DIGITAL OUTPUT
ES	ELECTRIC SUPPLY
FC	FAIL CLOSED
FLP	FAIL LAST POSITION
FO	FAIL OPEN
MC	MOTOR CONTROLLER
NC	NORMALLY CLOSED
pH	HYDROGEN ION CONCENTRATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
POLM	POLYMER
RTU	REMOTE TERMINAL UNIT
TURB	TURBIDITY
VIB	VIBRATION
VSD	VARIABLE SPEED DRIVE
ZS	POSITION SWITCH
PIT	PRESSURE INDICATING TRANSMITTER
YS	EVENT SWITCH
TSH	TEMPERATURE SWITCH HIGH
LE	LEVEL ELEMENT
LSLL	LEVEL SWITCH LOW LOW
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH HIGH
SPD	SURGE PROTECTION DEVICE
LI	LEVEL INDICATOR

GENERAL NOTES

1. THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS & ABBREVIATIONS MAY NOT APPLY TO THIS SPECIFIC PROJECT.
2. THIS LEGEND APPLIES TO INSTRUMENTATION DIAGRAMS ONLY, & ITS SYMBOLS MAY NOT BE APPLICABLE TO NON–INSTRUMENTATION DRAWINGS.
3. THIS LEGEND SHEET & THE INSTRUMENTATION DIAGRAMS & I–DRAWINGS ARE GENERALLY BASED ON THE INSTRUMENT SOCIETY OF AMERICA'S STANDARDS FOR PRACTICES IN INSTRUMENTATION. SOME MODIFICATIONS, ADDITIONS, & ALTERATIONS MAY HAVE BEEN MADE TO ACCOMMODATE INDIVIDUAL PROJECT REQUIREMENTS.
4. SOME PROCESS ITEMS (SUCH AS EQUIPMENT ISOLATION VALVES, BYPASS LINES, ETC.) WHICH ARE NOT CRITICAL FOR AN UNDERSTANDING OF THE INSTRUMENTATION FUNCTIONS ARE NOT SHOWN ON THE INSTRUMENTATION SHEETS.
5. SEE ELECTRICAL SHEETS & SPECIFICATIONS FOR ADDITIONAL CONTROL & INTERLOCK REQUIREMENTS FOR EQUIPMENT NOT SHOWN OR NOT PROVIDED BY THE INSTRUMENTATION SUPPLIER.
6. SLANTED TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES. NON–SLANTED TEXT DENOTES NEW EQUIPMENT, STRUCTURES, & WORK. SLANTED TEXT (NOT SHADED) DENOTES FUTURE EQUIPMENT STRUCTURES & WORK.

VALVE ACTUATOR SYMBOLS



VALVE OR GATE ACTUATOR WITH DEFINED AS FOLLOWS:

P:	AIR CYLINDER
S:	SOLENOID
P/O:	AIR/OIL CYLINDER
E:	ELECTRIC MOTOR
H:	HYDRAULIC CYLINDER
EH:	ELECTROHYDRAULIC
Z:	MISCELLANEOUS

FOR PRESSURE RELIEF OR SAFETY VALVES ONLY

MANUALLY (HAND) OPERATED

INSTRUMENTATION IDENTIFICATION LETTERS

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		EMERGENCY	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE		CLEANER	CONTROL	
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL			
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO (FRACTION)			
G	GAUGING (DIMENSIONAL)		GLASS		
H	HAND (MANUALLY INITIATED)				HIGH OR OPEN
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW OR CLOSED
M	USER'S CHOICE	MOMENTARY			MIDDLE OR INTERMEDIATE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE (RESTRICTION)		
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY	INTEGRATE OR TOTALIZE			
R	RUN		RECORD		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VISCOSITY, VIBRATION			VALVE, DAMPER, OR LOUVER	
W	WEIGHT OR TORQUE		WELL		
X	FAILURE	X AXIS			
Y	EVENT, STATE, OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVE, ACTUATE, OR UNCLASSIFIED CONTROL ELEMENT	

NOTES:

(1) REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND WIRE REQUIREMENTS.

TAG NUMBER & DESIGNATION EXAMPLE

TYPICAL LOOP NUMBER

ADDITIONAL INSTRUMENT IDENTIFICATION. SEE FUNCTION SYMBOLS & ABBREVIATIONS.

WHEN USED, LETTER DISTINGUISHES BETWEEN MULTIPLE, SIMILAR DEVICES IN THE SAME INSTRUMENT LOOP

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INSTRUMENTATION NOTES, LEGEND & ABBREVIATION

SHEET 11 OF 27

Plot Date: Tuesday, April 28, 2026

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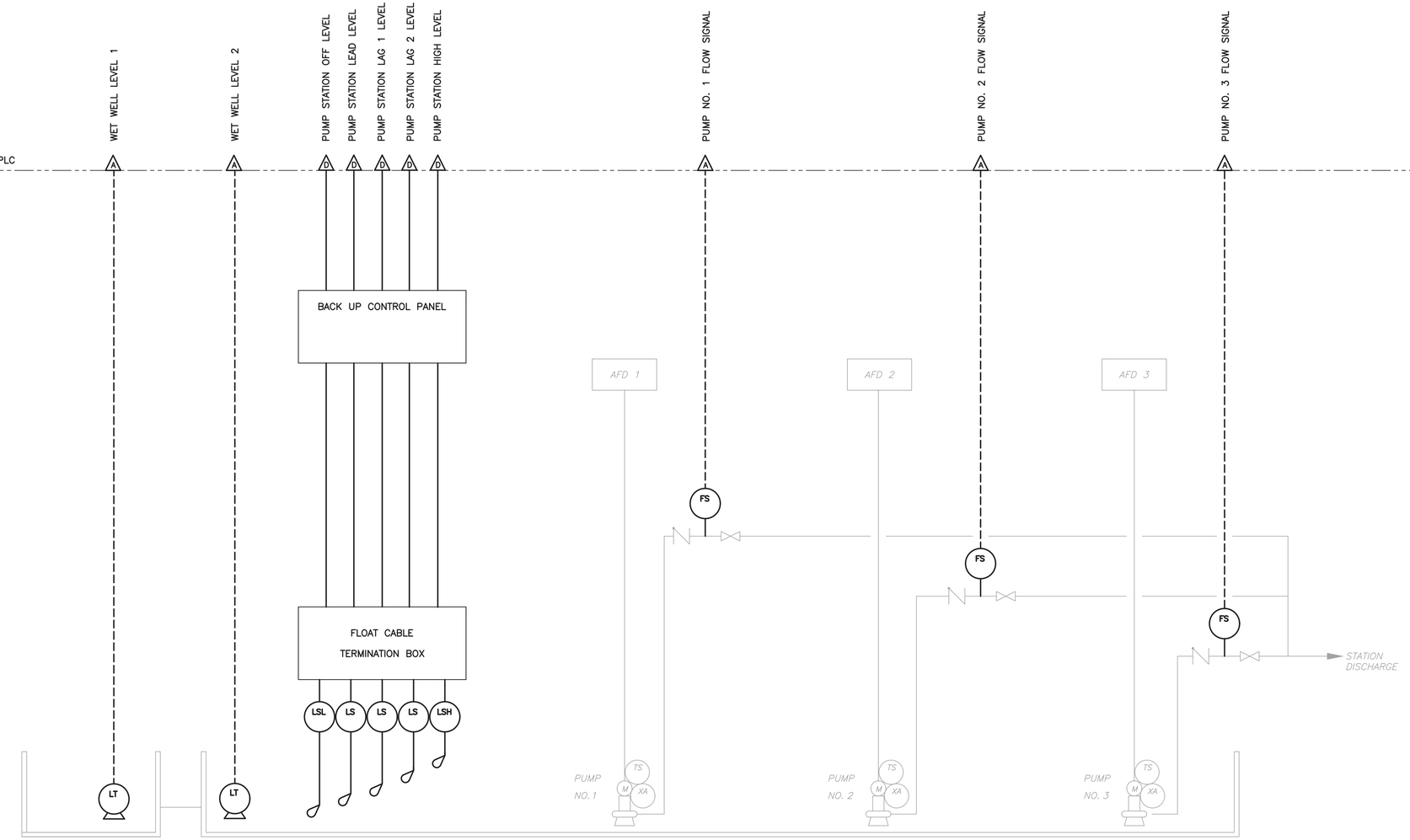
SW 2026-03



PROCESS MONITORING AND CONTROL

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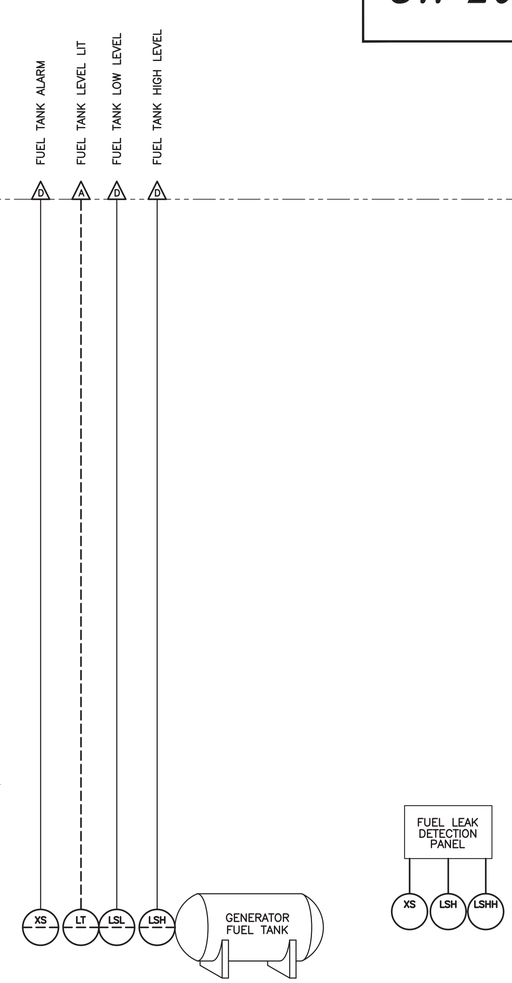

FUEL SYSTEM

SCALE: N.T.S.

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CURIOSITY CREEK P&ID

SHEET 12 OF 27