

SEPTEMBER 30, 2020

ORIENT ROAD JAIL DIESEL GENERATOR TANK REPLACEMENT

1201 ORIENT ROAD
TAMPA, FLORIDA 33619

BRIEF SCOPE OF WORK

THE SCOPE OF WORK IS TO REPLACE THE EXISTING UNDERGROUND DIESEL STORAGE TANK WITH TWO NEW ABOVE GROUND STORAGE TANKS.

REFER TO FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.

INDEX OF DRAWINGS

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ELECTRICAL:

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E-102	FUEL SYSTEM CONTROL WIRING
E-103	FUEL STORAGE TANKS - LIGHTNING PROTECTION
E-201	FUEL TANK ELEVATIONS

OWNER:

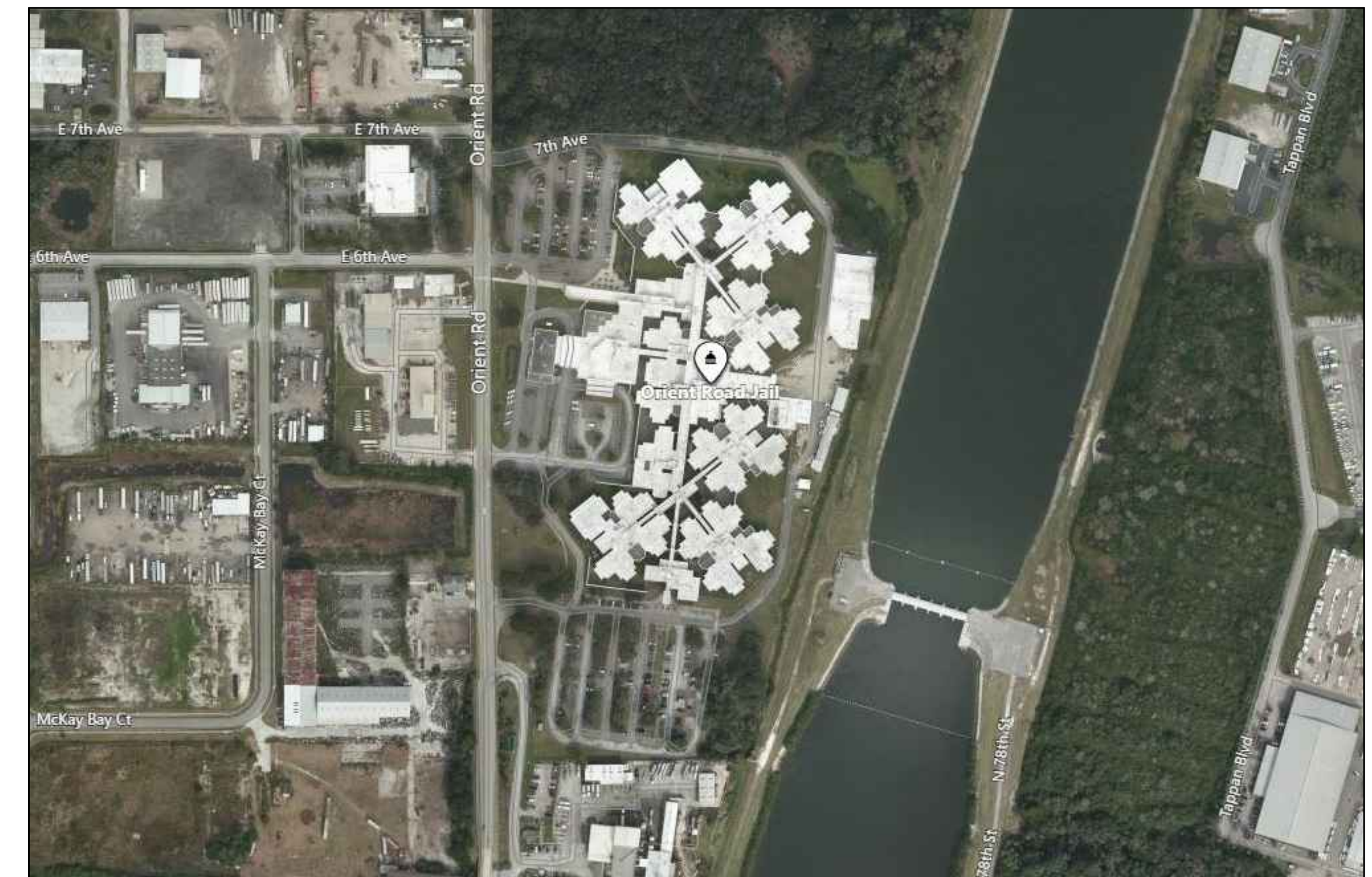
HILLSBOROUGH COUNTY SHERIFF'S OFFICE
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(813) 247-8000

MECHANICAL ENGINEER:

CONSULTING ENGINEERING ASSOCIATES, INC.
8365 GUNN HIGHWAY, TAMPA, FL 33626-1608
(813) 448-0225
REGISTRY 3962
JOHN W. WELLS, III, PE (PE49347)

ELECTRICAL ENGINEER:

ROLLEY ENGINEERING, INC.
7759 W WATERS AVE, TAMPA, FL 33615
(813) 889-0835
REGISTRY 9092
ROBERT A. ROLLEY, PE (PE21600)



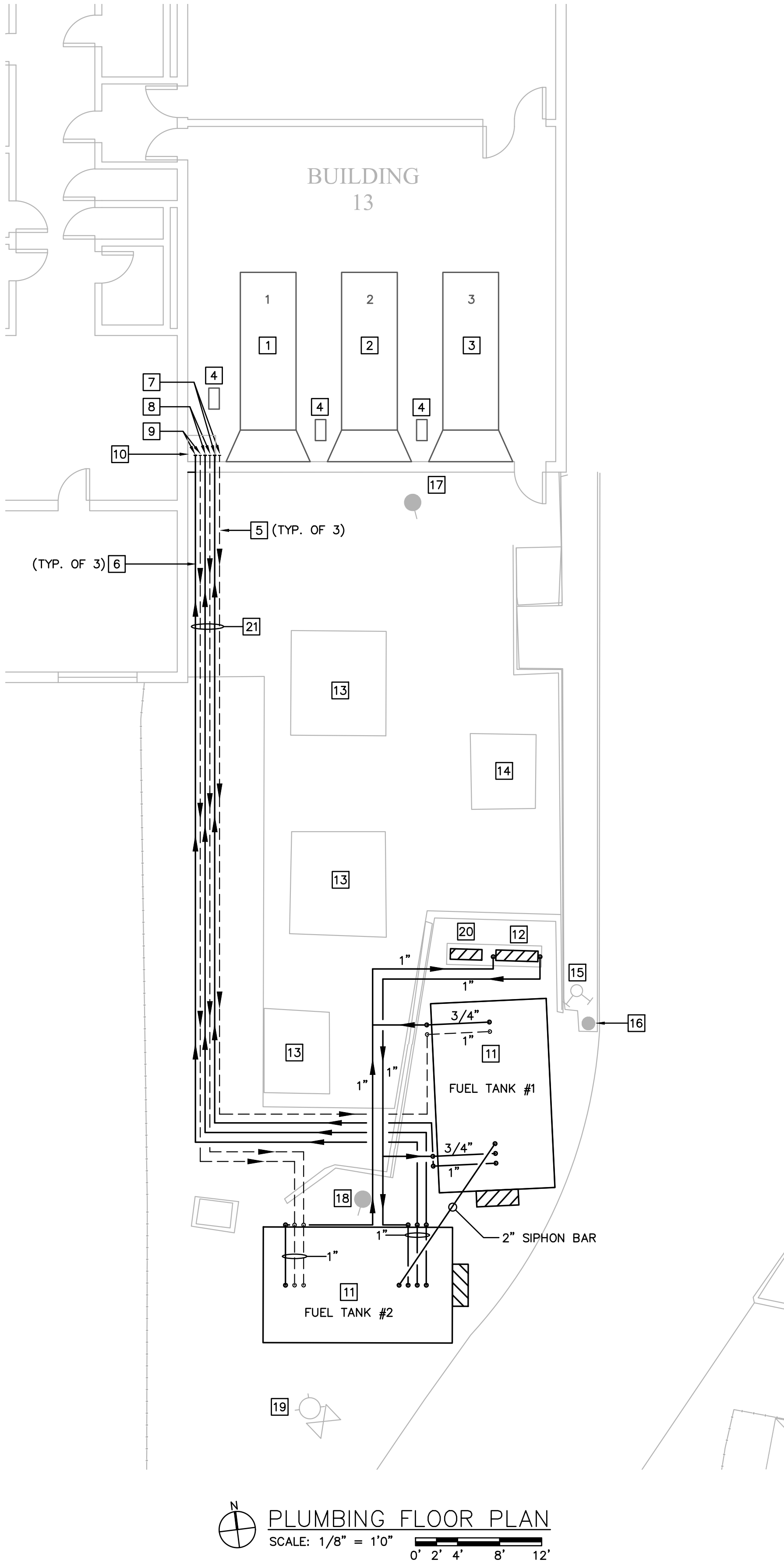
LOCATION MAP

GENERAL NOTES

- ALL WORK UNDER THIS DIVISION SHALL COMPLY WITH THE CODES AND STANDARDS AS LISTED ON THE PROJECT DRAWINGS AND TO OTHER PERTINENT CODES MADE A PART OF SUCH CODE BY REFERENCE.
- PLANS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE FUEL OIL PIPING SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SHOP DRAWINGS AND SIMILAR CERTIFIED DATA. PLANS SHALL NOT BE SCALED.
- NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED. THE SEPARATE DIVISIONAL DRAWINGS AND SPECIFICATIONS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DRAWINGS OR DIVISION OF THE SPECIFICATIONS. REVIEW AND COORDINATE THE SCOPE OF WORK WITH ALL SECTIONS TO ASSURE A COMPLETE AND FUNCTIONAL SYSTEM IS INSTALLED.
- THE DIMENSIONS AND CONDITIONS SHOWN ON THE CONTRACT DOCUMENTS ARE BASED ON AVAILABLE EXISTING INFORMATION. MAKE AN APPROPRIATE PRE-BID SITE INSPECTION IN ORDER TO ASCERTAIN EXISTING CONDITIONS AND INCLUDE IN THE BID THE COST OF ALL WORK RESULTING FROM EXISTING CONDITIONS, WHETHER OR NOT THIS WORK IS EXPLICITLY SHOWN ON THESE DRAWINGS. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- NOTIFY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE OF ANY DAMAGE TO THE EXISTING INSTALLATION BEFORE PROCEEDING WITH WORK.
- SUBMIT SHOP DRAWINGS OF ALL MATERIALS FOR REVIEW. INSTALL AND TEST ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SUBMIT DRAWINGS AND CUT SHEETS FOR ALL PRODUCTS ALL AT ONE TIME. INDEX ALL ITEMS TO THE PROJECT MANUAL OR DRAWINGS AS APPLICABLE. SHOP DRAWINGS THAT DEViate FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL LIST ALL DIFFERENCES IN A COVER LETTER ATTACHED TO TOP OF THE SUBMITTAL. ANY UNLISTED DEVIATIONS FOUND DURING REVIEW WILL RESULT IN THE REJECTION OF THE ENTIRE SUBMITTAL. FOR ITEMS REVIEWED AND MARKED "REJECTED" OR "REVISE AND RESUBMIT", ONLY ONE ADDITIONAL SUBMITTAL WILL BE REVIEWED TO VERIFY PRODUCT COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOULD FURTHER SUBMITTALS BE REQUIRED FOR THE DESIGN PROFESSIONAL TO VERIFY THE SUBMITTAL WITH THE REQUIREMENTS OR THE CONTRACT DOCUMENTS. THE HOURLY RATE OF \$150.00 WILL BE BILLED TO THE CONTRACTOR FOR THE PROFESSIONAL(S) TIME SPENT ON THE REVIEW.
- HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPPING MATERIALS SHALL BE OF APPROVED MATERIALS THAT WILL NOT PROMOTE GALVANIC ACTION.
- PROVIDE ALL OFFSETS AND FITTINGS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
- COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL DEVICES.
- DIELECTRIC UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS OF DISSIMILAR METALS.
- THE CONTRACTOR SHALL INFORM THE OWNER (A MINIMUM OF ONE WEEK IN ADVANCE) OF ANY DISRUPTION OF SERVICES TO THE BUILDING AND SHALL NOT PROCEED TO WORK WITHOUT WRITTEN APPROVAL FROM THE OWNER. THE CONTRACTOR SHALL MAKE REPAIRS TO ANY SERVICES (ABOVE OR BELOW GROUND) DAMAGED BY WORK PERFORMED BY HIM.
- ABOVEGROUND FUEL OIL PIPING SHALL BE 1" SCHEDULE 40 BLACK STEEL PIPE, PRIME NEW PIPING WITH TWO COATS OF RUST INHIBITOR PAINT, FINISH WITH TWO COATS OF WHITE EPOXY PAINT.
- PROVIDE IDENTIFICATION LABELS ON FUEL PIPING INSIDE GENERATOR ROOM.
- VERIFY SIZES, LOCATION, AND ELEVATIONS PRIOR TO INSTALLING ANY PIPING.

PLUMBING RENOVATION CODED NOTES:

- EXISTING DUAL FUEL 750 KWH EMERGENCY GENERATOR 1.
- EXISTING DUAL FUEL 750 KWH EMERGENCY GENERATOR 2.
- EXISTING DUAL FUEL 750 KWH EMERGENCY GENERATOR 3.
- EXISTING 100 GAL CAPACITY DAY TANK AND PUMPS SET.
- 1" SCHEDULE 40 BLACK STEEL F.O.R. PIPE.
- 1" SCHEDULE 40 BLACK STEEL F.O.S. PIPE.
- CONNECT NEW 1" F.O.S. AND F.O.R. PIPING TO EXISTING ABOVE THE SLAB 1" F.O.S. AND 1" F.O.R. PIPING SERVING GENERATOR No. 3 DAY TANK.
- CONNECT NEW 1" F.O.S. AND F.O.R. PIPING TO EXISTING ABOVE THE SLAB 1" F.O.S. AND 1" F.O.R. PIPING SERVING GENERATOR No. 2 DAY TANK.
- CONNECT NEW 1" F.O.S. AND F.O.R. PIPING TO EXISTING ABOVE THE SLAB 1" F.O.S. AND 1" F.O.R. PIPING SERVING GENERATOR No. 1 DAY TANK.
- EMPTY EXISTING UNDERGROUND F.O.S. AND F.O.R. PIPING, CAP AND ABANDON IN PLACE. FILL EXISTING SUMP WITH CONCRETE AND FINISH TO MATCH EXISTING FLOOR.
- FUEL TANK. REFER TO ELECTRICAL DRAWINGS FOR DETAILS. COORDINATE TANK CONNECTIONS WITH TANK SUPPLIER.
- FUEL POLISHING SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- EXISTING TRANSFORMER TO REMAIN.
- EXISTING PRIMARY SWITCH TO REMAIN.
- EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN.
- EXISTING BOLLARD TO REMAIN.
- EXISTING GAS PUMP TO REMAIN.
- EXISTING POST INDICATOR VALVE TO REMAIN.
- EXISTING HYDRANT TO REMAIN.
- FUEL POLISHING SYSTEM CONTROLLER. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- SECURE NEW PIPING TO WALL AT THIS LOCATION. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND AT THE DIRECTION OF THE OWNER.



NOTES:

FIELD COORDINATE PIPE ROUTING WITH OWNER BEFORE INSTALLING ANY PIPING.

PROVIDE PIPE SUPPORTS PER DETAIL PD-0913 AND PD-0914. SEE DRAWING P-102.

PLUMBING LEGEND & SYMBOLS

FUEL OIL SUPPLY	FOS	_____
FUEL OIL RETURN	FOR	-----
PIPE DROP		_____>
PIPE RISE		_____o
PIPE CONNECTION (TOP)		_____↑_____
PIPE CONNECTION (BOTTOM)		_____o_____
SHUTOFF VALVE		_____⌵_____
GLOBE VALVE		_____⌵_____
CHECK VALVE (SWING)		_____↗_____
UNION		_____ _____

ABBREVIATIONS

SYMBOL	DESCRIPTION
F.O.R.	FUEL OIL RETURN
F.O.S.	FUEL OIL SUPPLY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
KW	KILOWATT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PSI	POUNDS PER SQUARE INCH

SUPPORT SPACING

PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (FEET)	MAXIMUM VERTICAL SPACING (FEET)
STEEL PIPE	8	15

CODE CRITERIA

NOTE:
ALL CODES AND STANDARDS SHALL COMPLY WITH THE FLORIDA STATUTES 69A-3.012 AND THE STATE FIRE MARSHALL'S RULE. THIS LIST IS NOT INCLUSIVE OF ALL CODES AND STANDARDS THAT MAY OR MAY NOT APPLY TO THIS PROJECT.

*FLORIDA BUILDING CODE (FBC), SIXTH EDITION (2017) - ALL SECTIONS
*FLORIDA FIRE PREVENTION CODE 2017

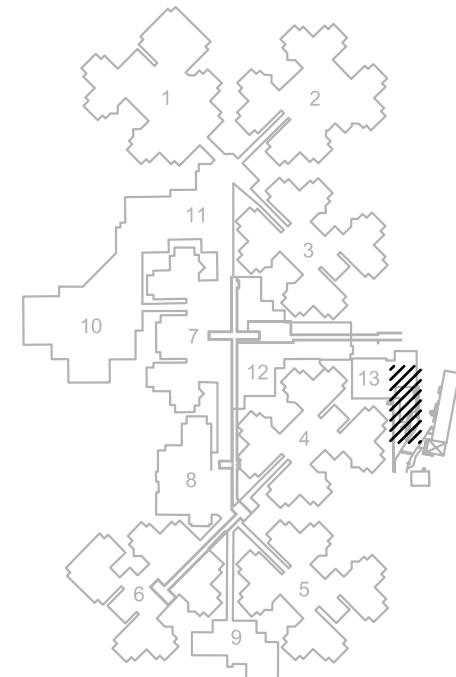
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
*NFPA-30 (2015) FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
*NFPA-70 (2014) NATIONAL ELECTRICAL CODE
*NFPA-72 (2013) NATIONAL FIRE ALARM CODE
*NFPA-110 (2013) STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS

NOTES

- THE NOTES SHOWN ON THIS SHEET APPLY TO GENERAL CONDITIONS OF PLUMBING WORK REQUIRED FOR THIS PROJECT.
- SPECIFICATIONS, PROJECT MANUALS AND DRAWINGS, REFER TO THIS SHEET FOR APPLICABLE REFERENCES.
- THE DESIGN DRAWINGS OF ALL CATEGORIES AND TRADES (PLUMBING, CIVIL, AND ELECTRICAL) AND ALL SPECIFICATIONS AND SHOP DRAWINGS MUST BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION OF ALL DEVICES AND EQUIPMENT.
- TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 OF THE FLORIDA BUILDING CODE AND 633 FLORIDA STATUTES.

DRAWING INDEX

P-101	PLUMBING LEGEND, NOTES, AND FLOOR PLAN
P-102	PLUMBING ISOMETRIC DIAGRAM AND DETAILS



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Mechanical
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SEAL :

SIGNATURE DATE
JOHN W. WELLS, III, PE
PE 0049347

PROJECT : ORIENT ROAD JAIL
DIESEL GENERATOR TANK REPLACEMENT

LOCATION : 1201 ORIENT ROAD,
Tampa, FL 33619

REVISIONS

△		
△		
△		
delta	date	revision

SHEET TITLE :

PLUMBING LEGEND, NOTES, AND FLOOR PLAN

DRAWN BY: ML
DATE: 09/30/2020
COMM. NO. 20029

SHEET NO. :

P-101



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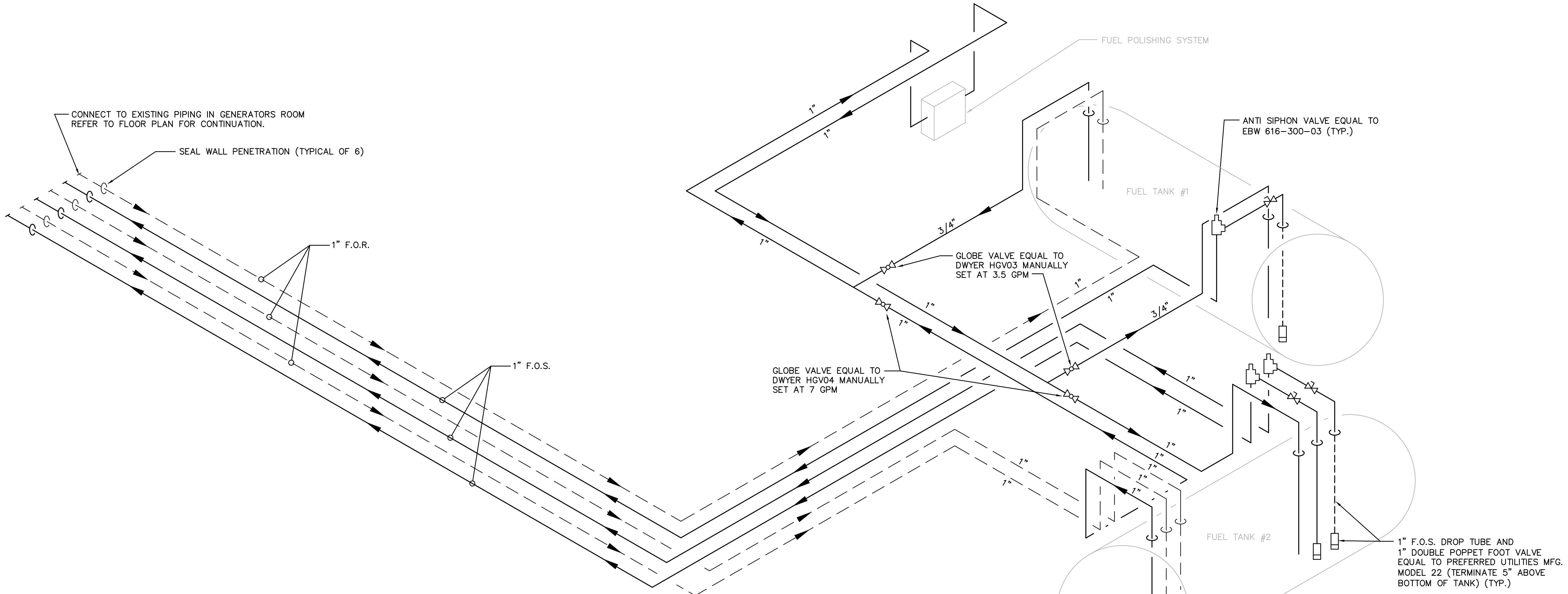
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DIESEL GENERATOR TANK REPLACEMENT**
LOCATION :
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Tampa, FL 33619**

REVISIONS		
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delta	date	revision

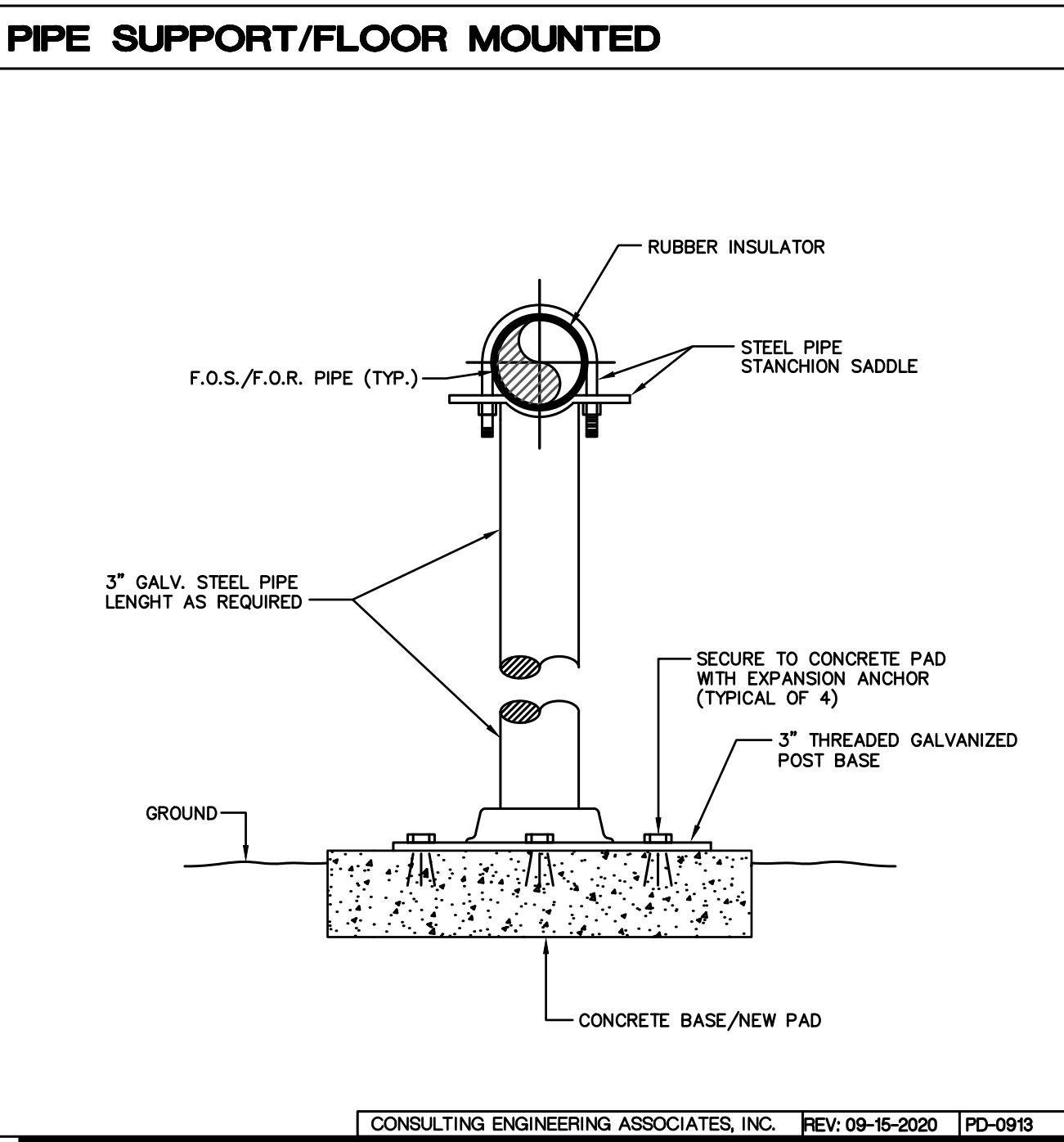
SHEET TITLE :
**PLUMBING
ISOMETRIC DIAGRAM
AND DETAILS**

DRAWN BY: ML
DATE: 09/30/2020
COMM. NO. 20029

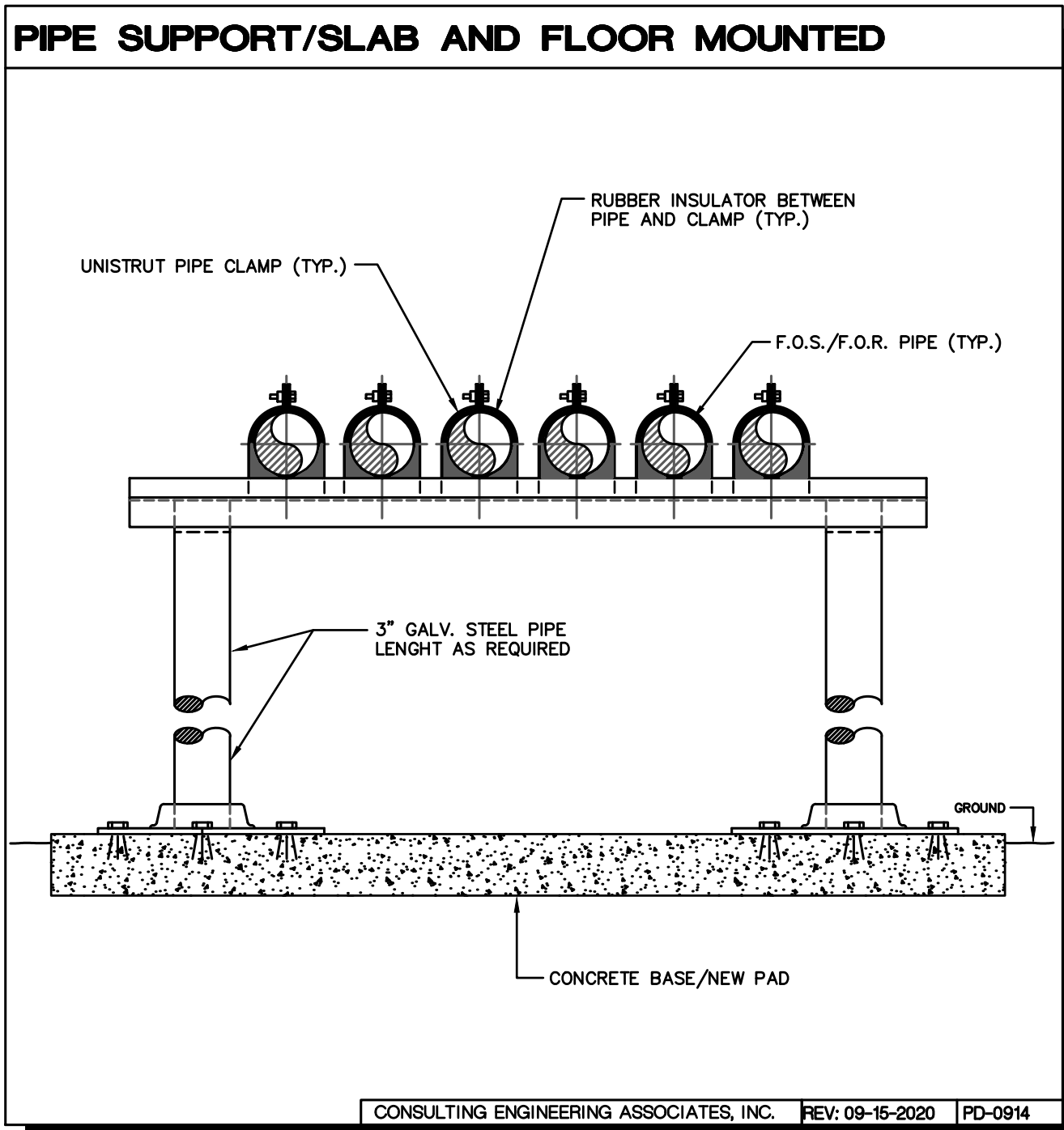
SHEET NO. :
P-102



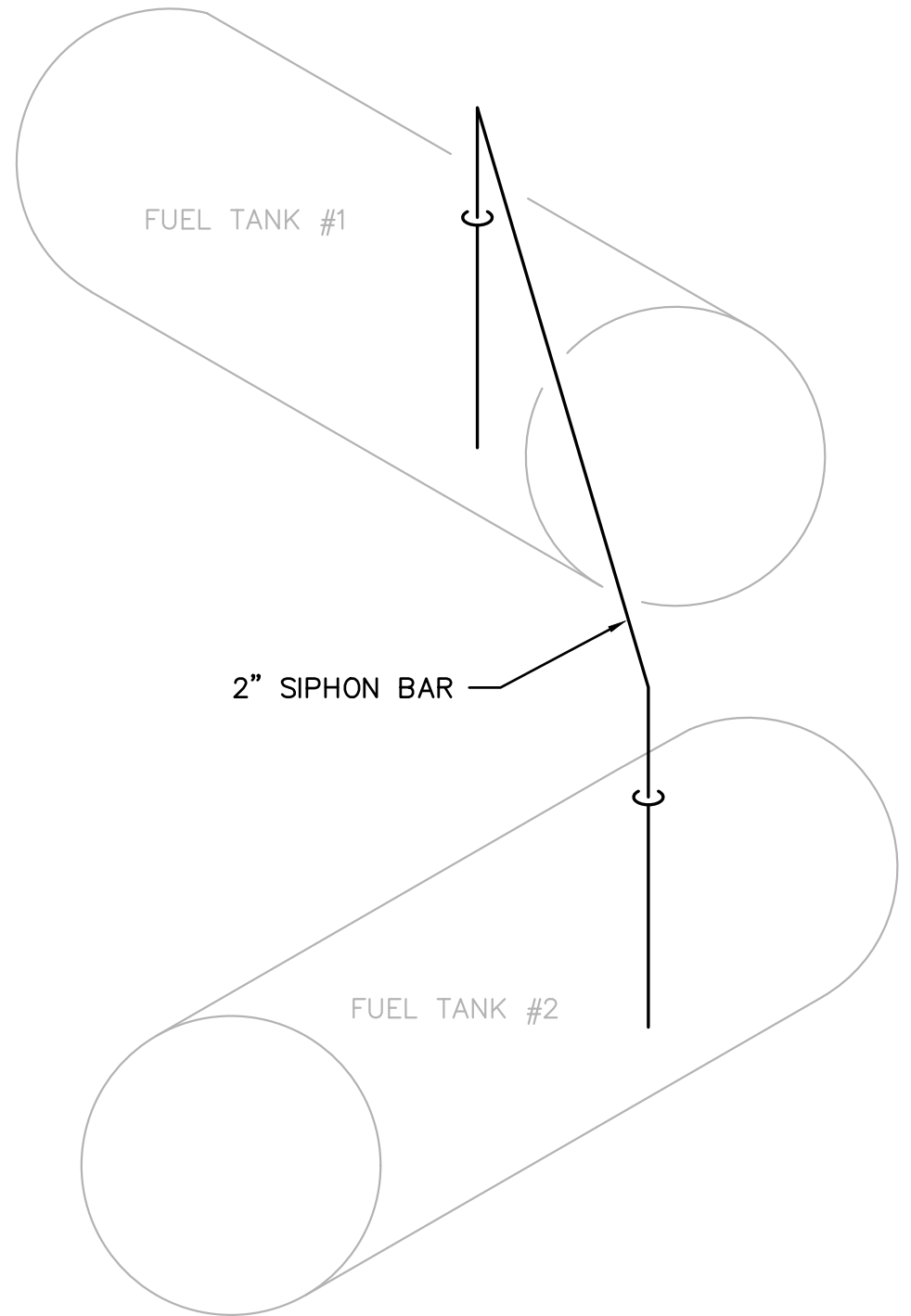
PLUMBING ISOMETRIC DIAGRAM
SCALE: NOT TO SCALE



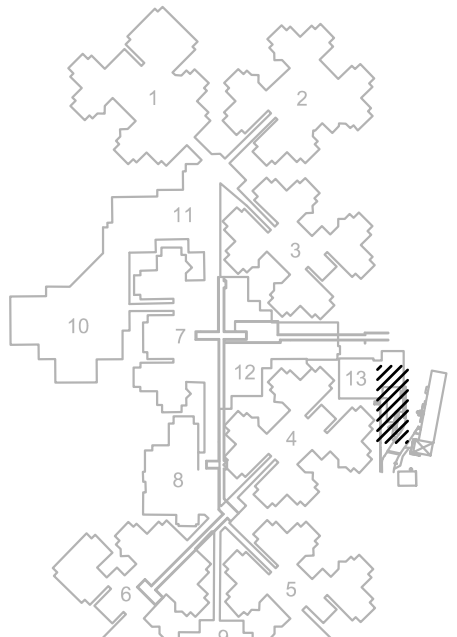
CONSULTING ENGINEERING ASSOCIATES, INC. REV: 09-15-2020 PD-0913



CONSULTING ENGINEERING ASSOCIATES, INC. REV: 09-15-2020 PD-0914



SIPHON BAR ISOMETRIC DIAGRAM
SCALE: NOT TO SCALE



KEY PLAN
SCALE: NOT TO SCALE