The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

CONSTRUCTION DRAWINGS FOR THE

PALMA CEIA ELEVATED STORAGE TANK IMPROVEMENTS

SECTION 28, TOWNSHIP 29 SOUTH, RANGE 18 EAST TAMPA, HILLSBOROUGH COUNTY, FLORIDA

PREPARED FOR

CITY OF TAMPA WATER DEPARTMENT

City of Tampa Water Department 306 E. Jackson Street, 5N Tampa, FL 33602



REISS ENGINEERING, INC.

REISS ENGINEERING, INC.
3030 NORTH ROCKY POINT DR
SUITE 161
TAMPA, FL 33607
(813) 549-0919
CERTIFICATE OF AUTH. 8181

100% DRAWINGS

Weston T. Haggen, P.E. Florida P.E. No. 77777



REI Project No. 0816

A 03/2018 100% DRAWINGS
EV DATE DESCRIPTION

PFH

BY

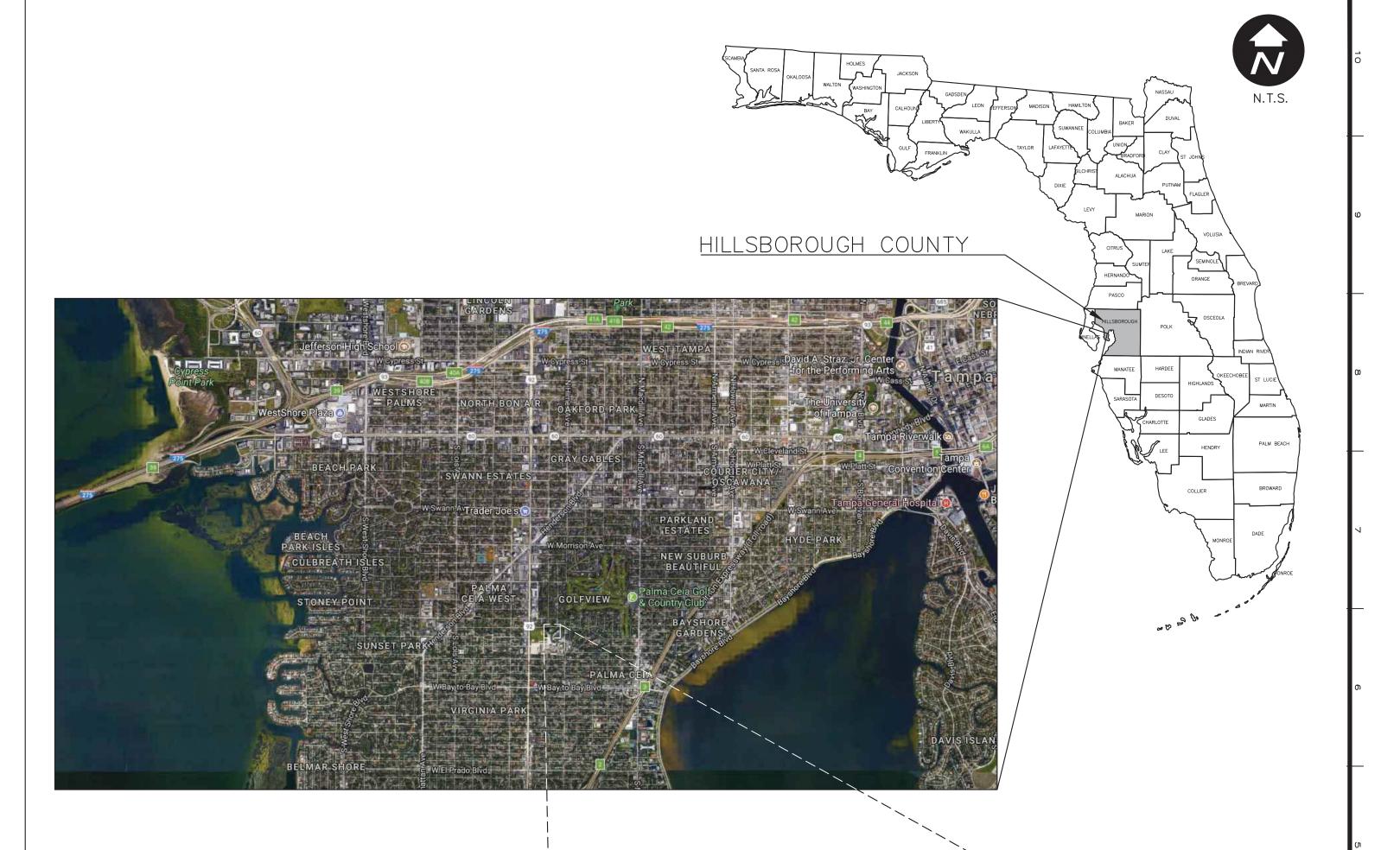


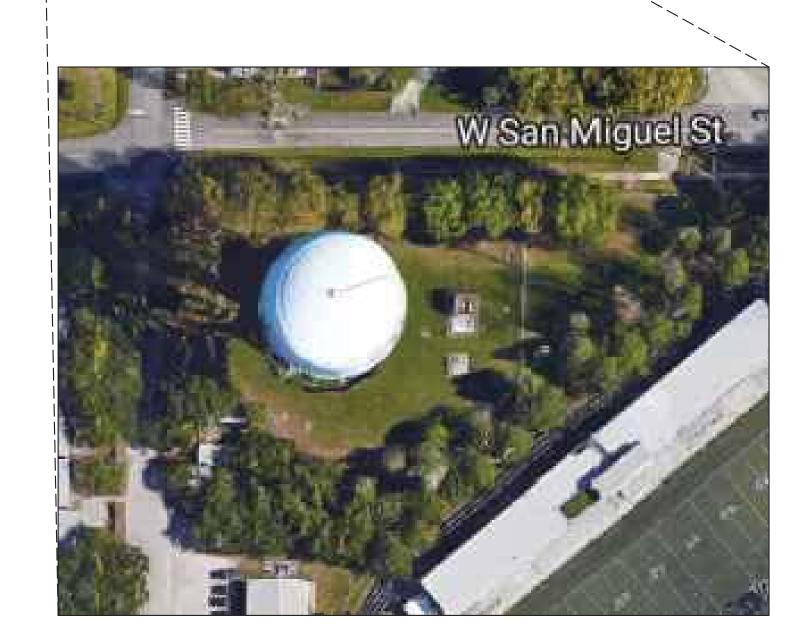
- 3. CONTRACTOR'S OPERATIONS, INCLUDING STAGING, PARKING, STORAGE OF MATERIALS, ETC, SHALL BE CONFINED TO THE PROJECT SITE. THE PROVISION OF ADDITIONAL SPACE FOR SUCH USE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- 5. ANY DISTURBANCE CAUSED BY CONTRACTOR'S OPERATIONS TO ROADS, SIDEWALKS, GUTTERS OR OTHER STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER. NO PAYMENT SHALL BE MADE FOR SUCH WORK.
- 6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
- 7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING EQUIPMENT OR MATERIALS. ALL SUBMITTALS SHALL BE STAMPED AND SIGNED BY THE CONTRACTOR TO INDICATE CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. SUBMITTALS THAT ARE NOT STAMPED AND SIGNED WILL BE RETURNED WITHOUT REVIEW. PROCUREMENT OF ANY EQUIPMENT OR MATERIALS PRIOR TO ENGINEER'S REVIEW AND ACCEPTANCE OF SHOP DRAWINGS SHALL BE AT CONTRACTOR'S OWN RISK.
- 8. "SCREENED" (LIGHT) DELINEATION INDICATED ON THE DRAWINGS DENOTES EXISTING FACILITIES. "SCREENED" INFORMATION WAS TAKEN FROM EXISTING CONSTRUCTION DRAWINGS AND DATA, IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE ORDERING OF MATERIALS AND BEGINNING OF CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
- 9. THE CONTRACTOR'S OPERATIONS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATION AND TRENCHING.
- 10. THE DRAWINGS INDICATE TYPES OF PIPE SUPPORT SYSTEMS AT VARIOUS LOCATIONS. HOWEVER, ALL PIPE SUPPORTS, HANGERS, BRACKETS, INSERTS OR BRACES ARE NOT SHOWN. CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND PROVIDE A COMPLETE SUPPORT SYSTEM AS REQUIRED.
- 11. PRIOR TO COMMENCING WITH WORK ASSOCIATED WITH CONNECTIONS TO EXISTING INFRASTRUCTURE, CONTRACTOR SHALL FIELD VERIFY PRECISE LOCATION, ELEVATION, AND REQUIRED ARRANGEMENT OF CONNECTIONS. THIS SHALL INCLUDE EXPOSING EXISTING INFRASTRUCTURE TO THE EXTENT NECESSARY TO CONDUCT THESE INVESTIGATIONS. CONTRACTOR SHALL PROVIDE ALL FITTINGS, ADAPTERS, CLOSURE ASSEMBLIES, OFFSETS (TO ACCOUNT FOR DIFFERING CENTERLINE ELEVATIONS), ETC REQUIRED TO SUCCESSFULLY MAKE THE SUBJECT CONNECTION AS PER THE DESIGN INTENT.
- 12. ALL WATER WORK FOR THE CITY OF TAMPA (CITY) SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT'S TECHNICAL SPECIFICATIONS, CONSTRUCTION DETAILS, AND THE TAMPA WATER DEPARTMENT TECHNICAL MANUAL (LATEST EDITION). IN THE EVENT OF A DISCREPANCY, THE MOST STRINGENT CRITERIA AS DETERMINED BY THE CITY SHALL APPLY.
- 13. WATER MAIN TAPS SHALL BE PERFORMED BY THE CITY WATER DEPARTMENT ONLY. CONTRACTOR SHALL EXCAVATE, INSTALL TAPPING SLEEVE AND VALVE, CONDUCT PRESSURE TEST (WITNESSED BY INSPECTOR) AND COORDINATE PERFORMANCE OF TAP WITH THE CITY INSPECTOR. CONTRACTOR SHALL PROVIDE NOTICE TO THE CITY INSPECTOR A MINIMUM OF 5 WORKING DAYS NOTICE PRIOR TO NECESSARY WORK.
- 14. NORMAL WORKING HOURS SHALL BE WEEKDAYS FROM 7:30 AM TO 4:00 PM UNLESS OTHERWISE APPROVED BY THE ENGINEER/INSPECTOR.
- 15. CONSTRUCTION AT THE WATER FACILITY SHALL BE COORDINATED WITH THE WATER DEPARTMENT PRIOR TO THE START OF THE CONSTRUCTION. CONTRACTOR TO CONTACT CITY OF TAMPA CONTRACT ADMINISTRATION DEPARTMENT @ 813-635-3432 TO COORDINATE/SCHEDULE A PRE-CONTRUCTION MEETING WITH THE CITY FOR REVIEW OF INSTALLATION TECHNIQUES AND PROCEDURES A MINIMUM OF 10 WORKING DAYS PRIOR TO THE PLANNED CONSTRUCTION.
- 16. VALVES ON EXISTING PUBLIC WATER MAINS TO BE OPERATED BY CITY PERSONNEL ONLY.

<u>PERMITS</u>

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS AND ROADWAY CLOSURES ASSOCIATED WITH THE WORK SHOWN IN THE PLANS.
- 2. IN ORDER TO OBTAIN ROADWAY CLOSURES OR RIGHT—OF—WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DRAWINGS (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIME DURING NON—PEAK TRAFFIC HOURS.

		DRAWING INDEX
DWG NO.	DWG TITLE	DESCRIPTION
GENERAL		
01	G01	COVER SHEET
02	G02	LOCATION MAP, GENERAL NOTES, AND DRAWING INDEX
03	G03	STANDARD LEGEND AND ABBREVIATIONS
CIVIL	_	
04	C01	DEMOLITION PLAN
05	C02	PLAN VIEW
DETAILS	_	
06	C03	STORAGE TANK COATING PLAN AND SECTION
07	C04	DETAILS (1 OF 2)
08	C05	DETAILS (2 OF 2)
09	C06	SITE PICTURES (1 OF 4)
10	C07	SITE PICTURES (2 OF 4)
11	C08	SITE PICTURES (3 OF 4)
12	C09	SITE PICTURES (4 OF 4)
STRUCTU	RAL	
13	S01	GENERAL NOTES, ELEVATION, AND DETAILS
14	S02	DETAILS (1 OF 3)
15	S03	DETAILS (2 OF 3)
16	S04	DETAILS (3 OF 3)





LOCATION MAP

Tampa Florida

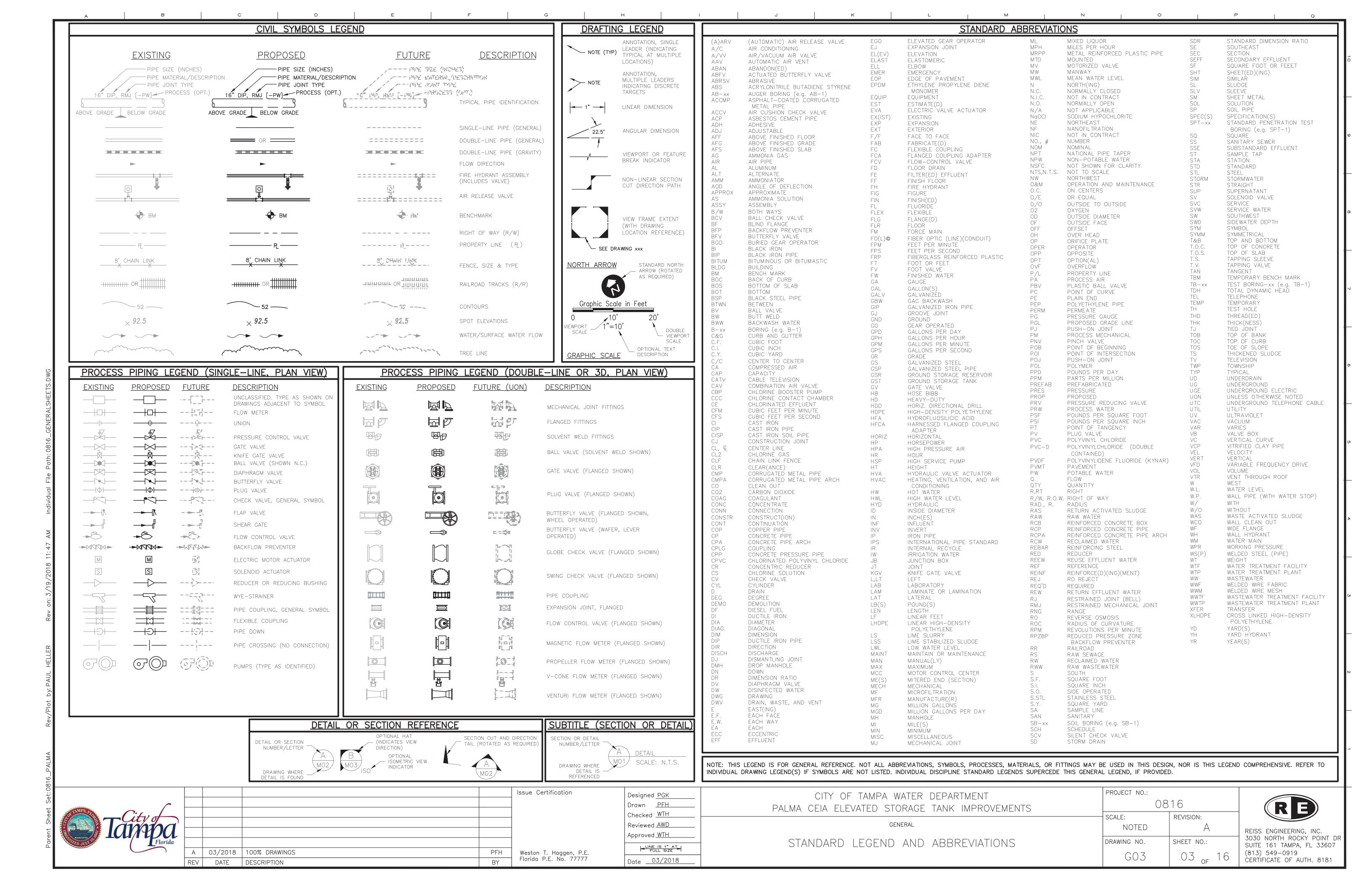
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Α	03/2018	100% DRAWINGS	PFH	Weston T. Haggen, P.E. Florida P.E. No. 77777
REV	DATE	DESCRIPTION	BY	Florida P.E. No. ////

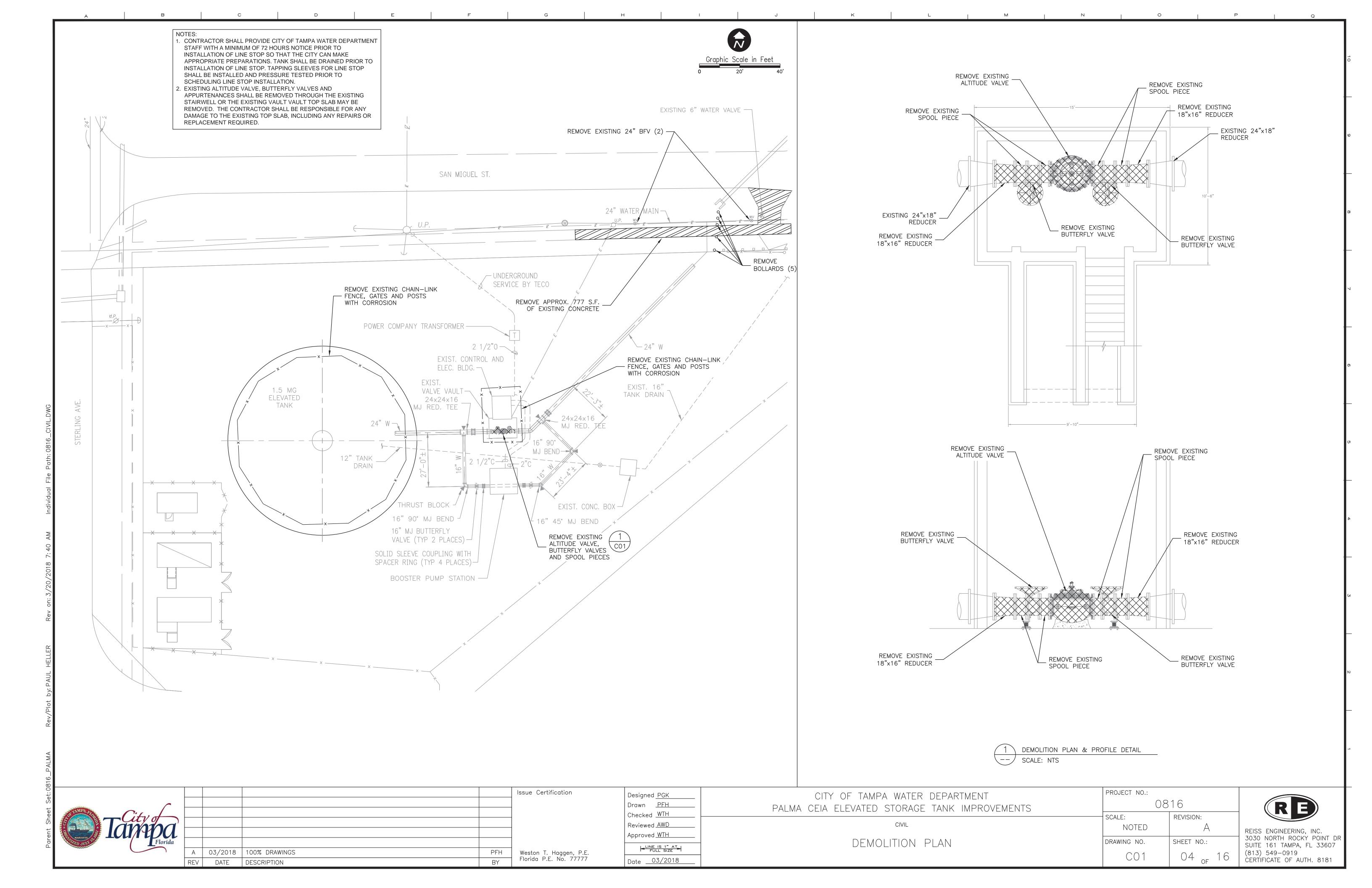
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Checked WTH
Reviewed <u>AWD</u>
Approved WTH
FULL SIZE
Date03/2018

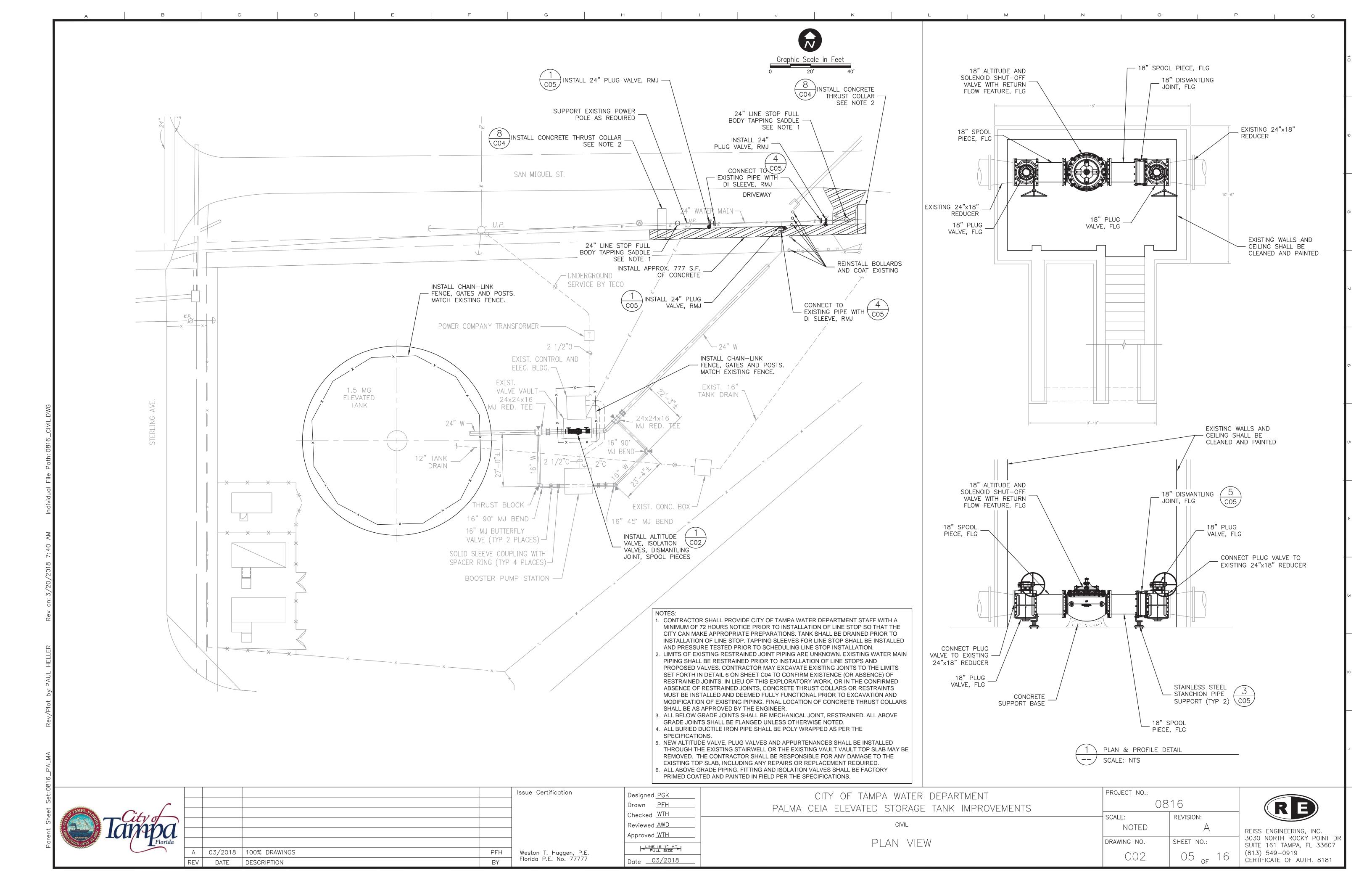
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PALMA CEIA ELEVATED STORAGE TANK IMPROVEMENTS	0816		
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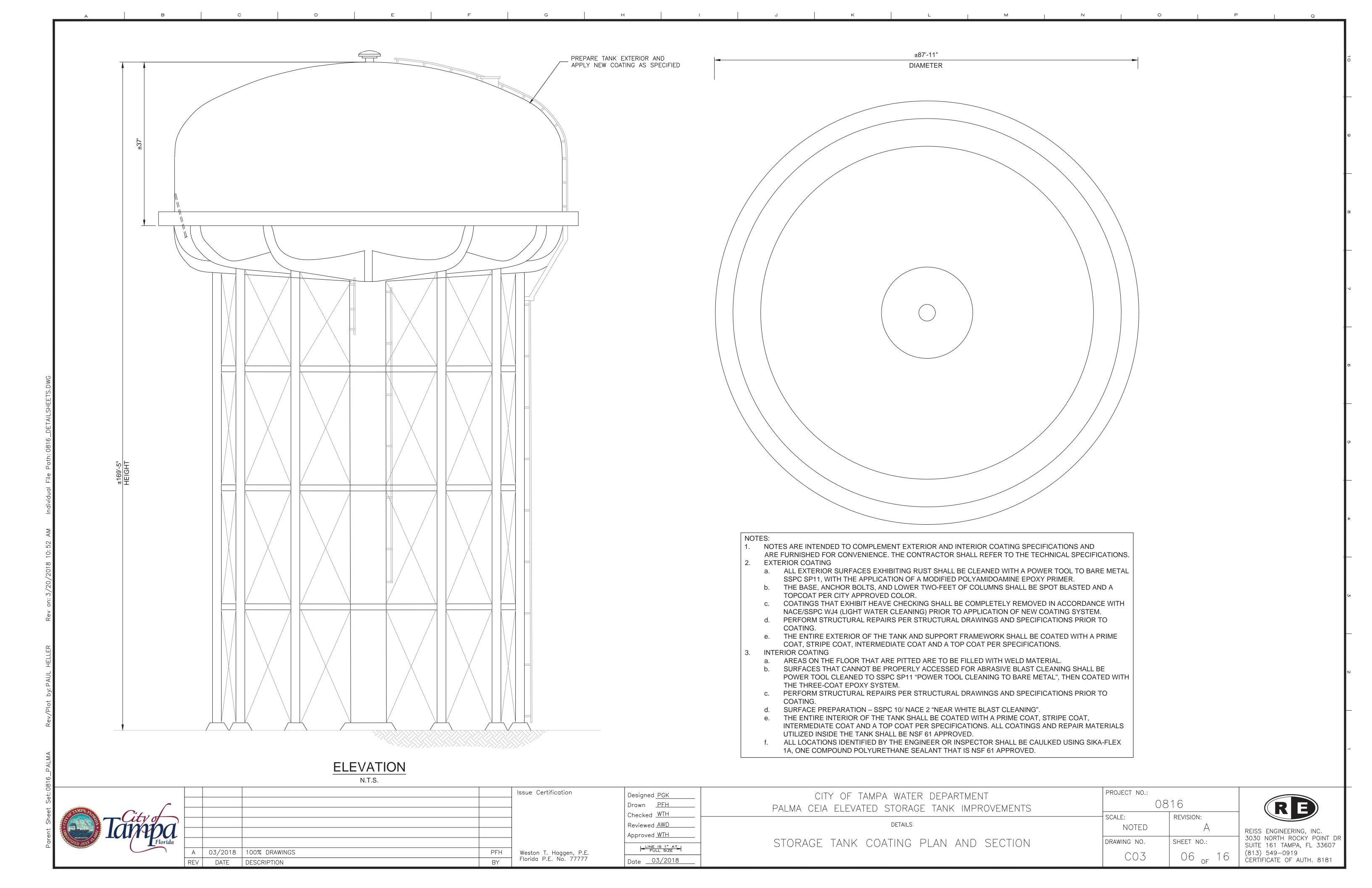


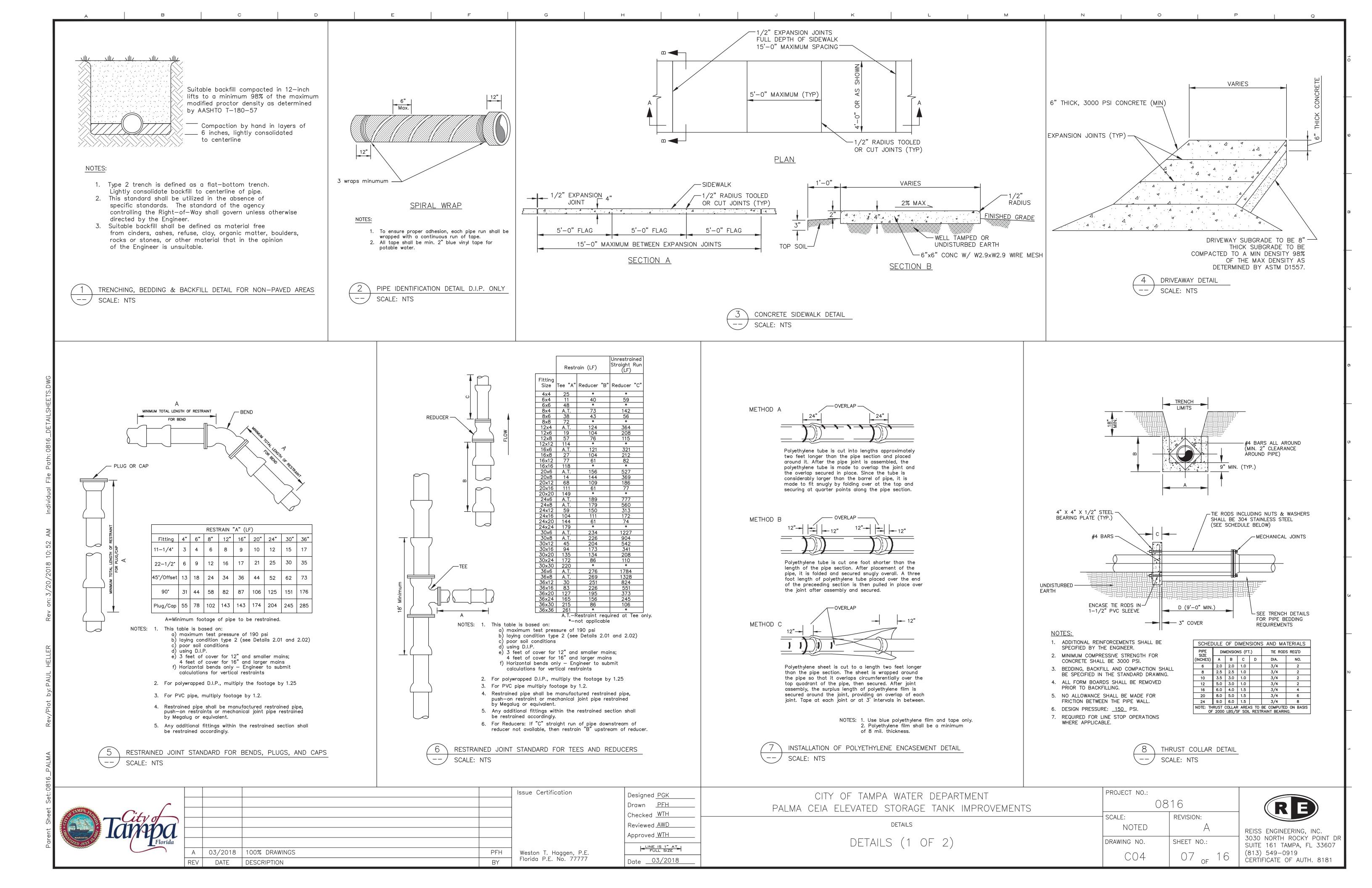
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SUITE 161 TAMPA, FL 33607
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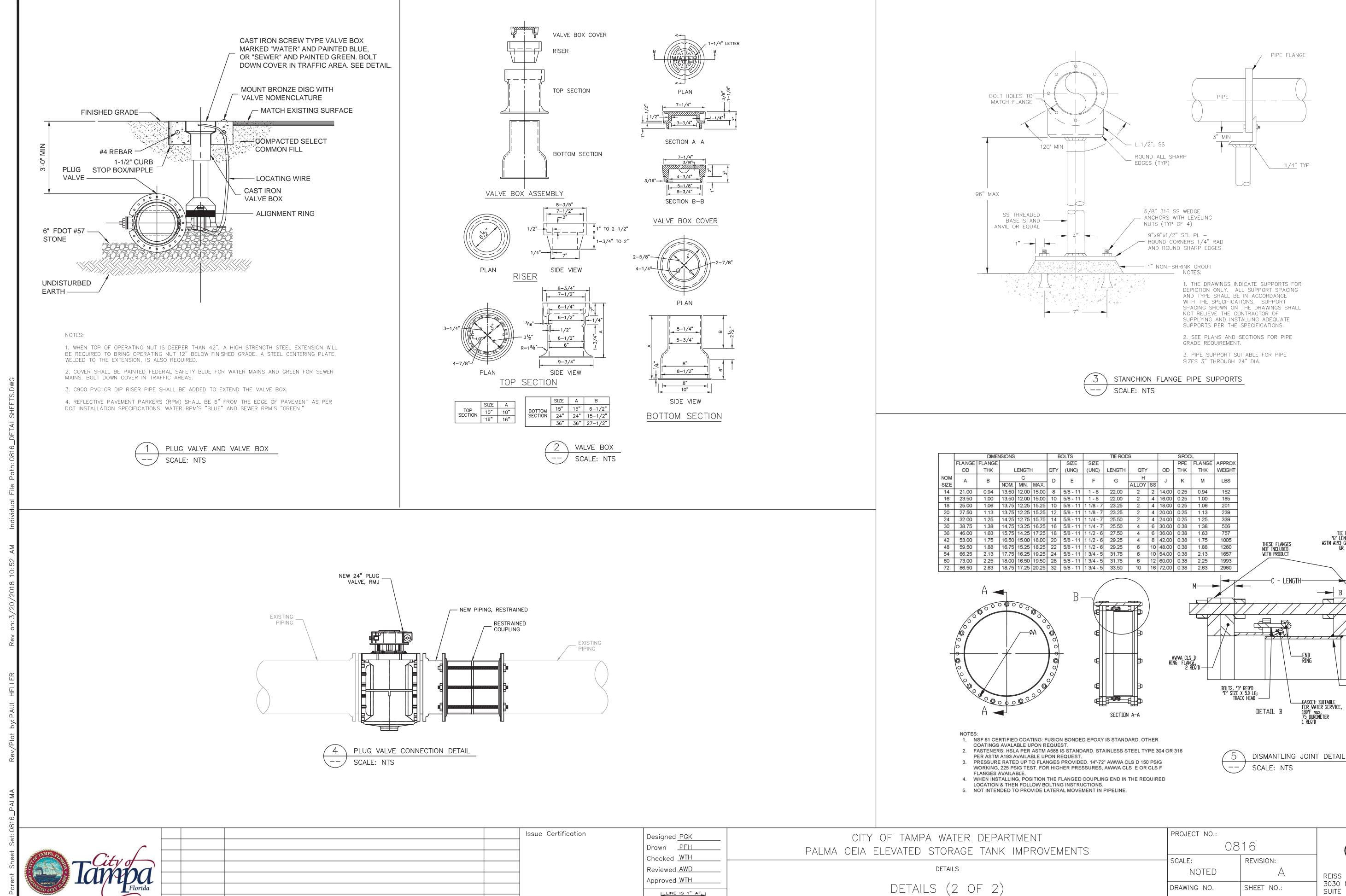












FULL SIZE

Date <u>03/2018</u>

Weston T. Haggen, P.E. Florida P.E. No. 77777

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Figure 2. Column Anchor Bolt and Nut Repair corrosion on column anchor bolts and nuts.



Figure 3. Stairs Leading from Landing at Top of Exterior Column-Mounted Ladder to Bowl Platform
Repair corrosion at floor plate of landing.



Figure 4. Exterior Bowl Platform
Repair floor plate corrosion

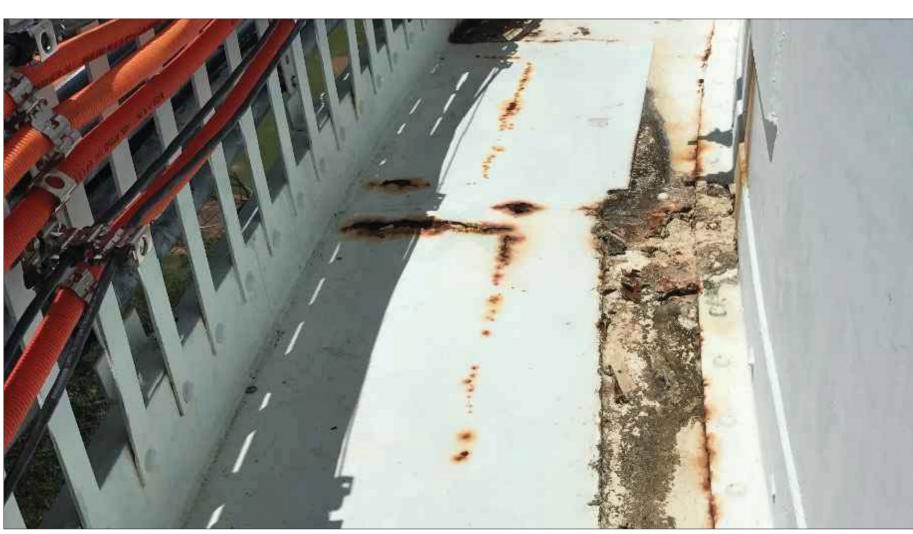
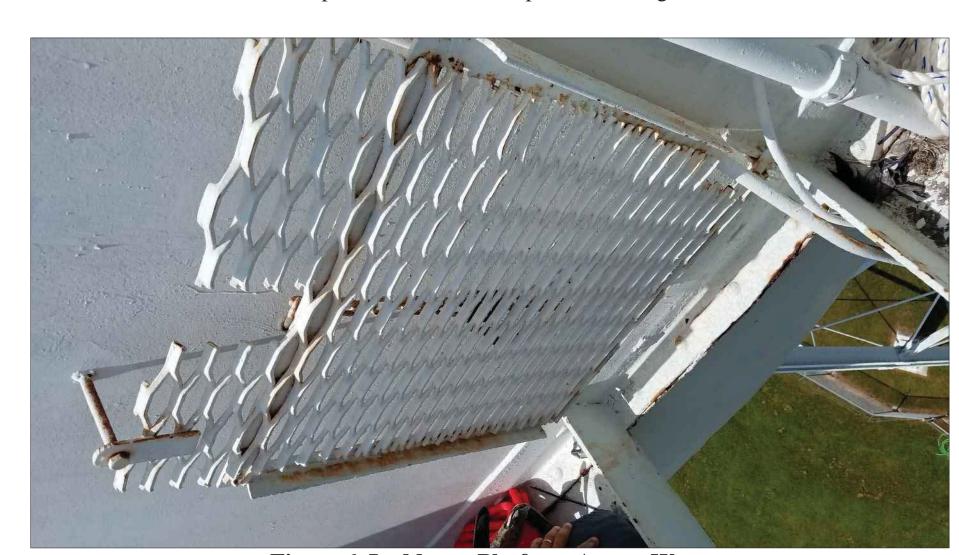


Figure 5. Exterior Bowl Platform
Repair floor plate corrosion



Repair access way structural deficiencies

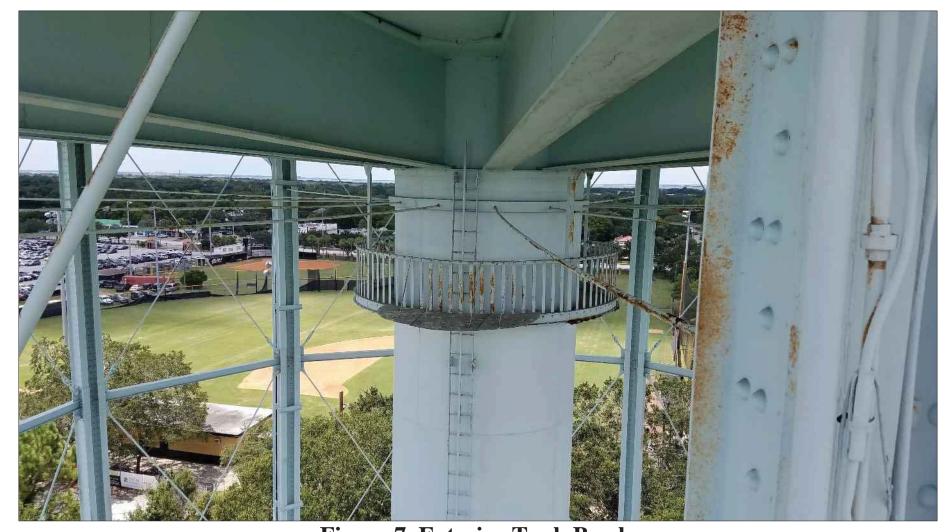


Figure 7. Exterior Tank Bowl
Repair minor corrosion on the riser railing and support columns



Figure 8. Top of Bowl Vent
Repair corrosion at flange bolts and replace missing insect screen



Repair corrosion on bowl vent and replace missing insect screen

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Florida P.E. No. 77777

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Approved WTH

LINE IS 1" AT FULL SIZE

Date 03/2018

CITY OF TAMPA WATER DEPARTMENT

PALMA CEIA ELEVATED STORAGE TANK IMPROVEMENTS

DETAILS

SCALE:

NOTED

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Figure 13. Interior Bowl Cathodic Projection System and Influent Pipe Provided for reference



Figure 16. Tank Bowl Interior Repair pitted tank bowl as viewed from interior of the tank



Figure 11. Exterior Bowl Access Portal Repair corrosion on bowl access portal hardware

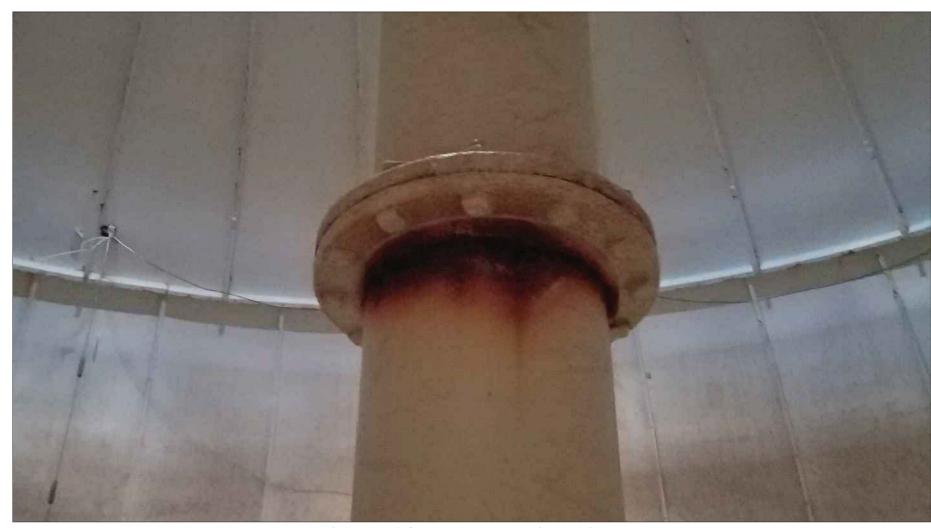


Figure 14. Bowl Interior Pipe Repair corrosion on influent pipe



Figure 17. Tank Bowl Interior Repair pitted tank bowl as viewed from interior of the tank



Figure 12. Interior Riser Access Way Repair minor corrosion on access way

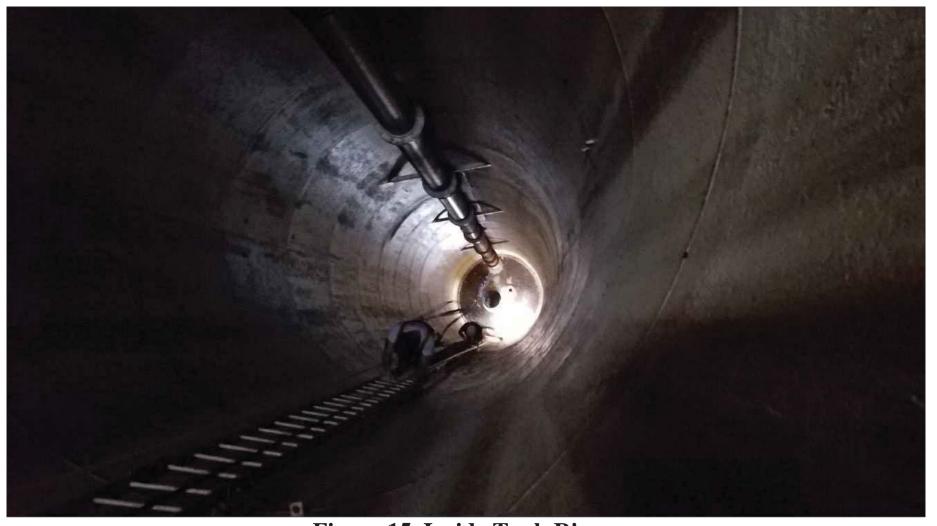


Figure 15. Inside Tank Riser Repair corrosion on ladder and influent pipe

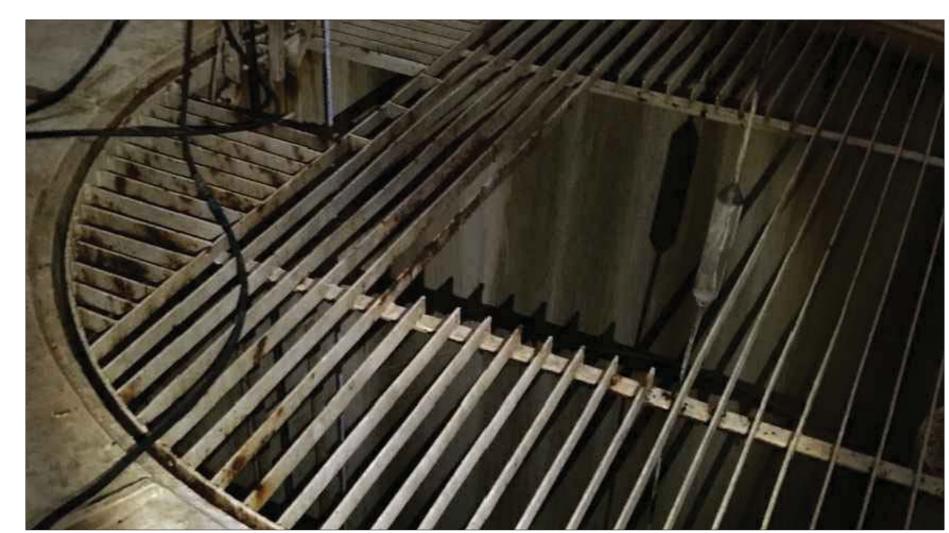
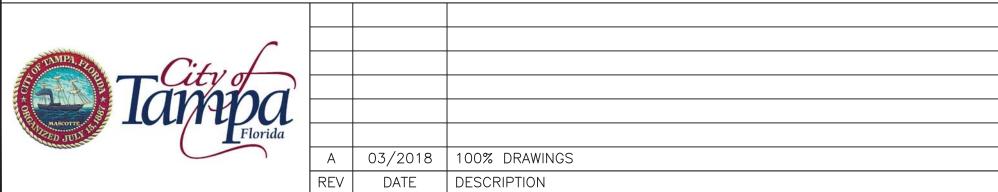


Figure 18. Grating at Top of Tank Riser Repair corrosion of grating

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CITY OF TAMPA WATER DEPARTMENT	PROJECT NO.:
PALMA CEIA ELEVATED STORAGE TANK IMPROVEMENTS	
DETAILS	scale: NOTED
SITE PICTURES (2 OF 4)	DRAWING NO.
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Figure 20. Interior Tank Bowl
Provided for reference



Figure 21. Cathodic Protection System Roof Plates on Top on Bowl
Repair minor corrosion on cathodic protection system



Figure 22. Aviation Lighting
Repair minor corrosion peeling on aviation lighting



Figure 23. Exterior fence

The exterior fence has corrosion on the support poles and chain link



Figure 24. Altitude Valve
Remove and replace existing altitude valve



Figure 25a. Isolation ValvesRemove and replace Isolation Valves



Figure 25b. Isolation ValvesRemove and replace Isolation Valves

Tampa Florida				
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	Issue Certification
PFH	Weston T. Haggen, P.E.
BY	Florida P.E. No. 77777

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Figure 26. Palma Ceia EST Exterior Remove and replace exterior ladder



Figure 27. Exterior Inner Riser Ladder This ladder and associated platform was not inspected



Figure 28. Exterior Outer Riser Ladder

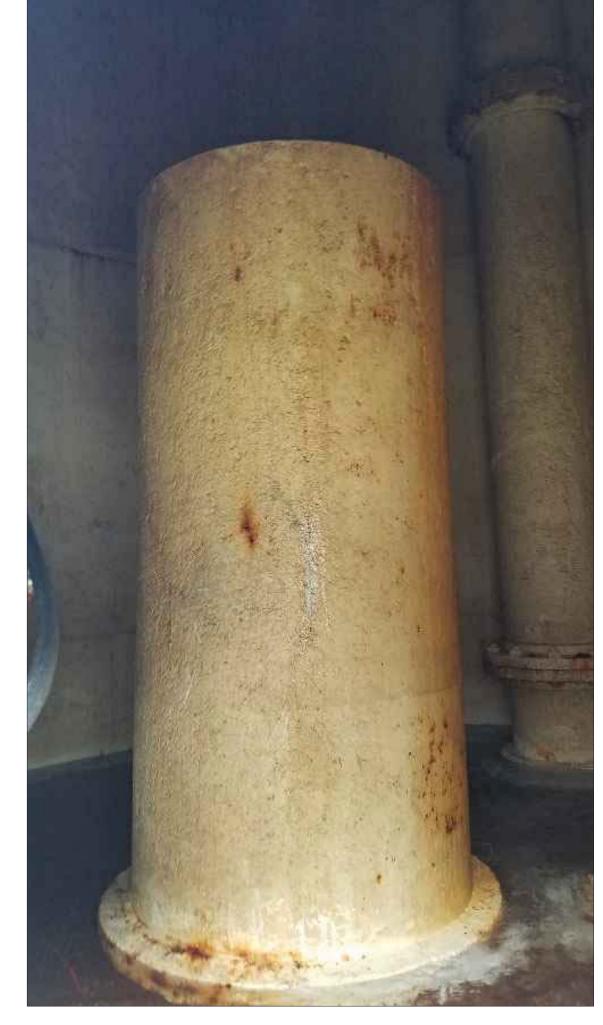


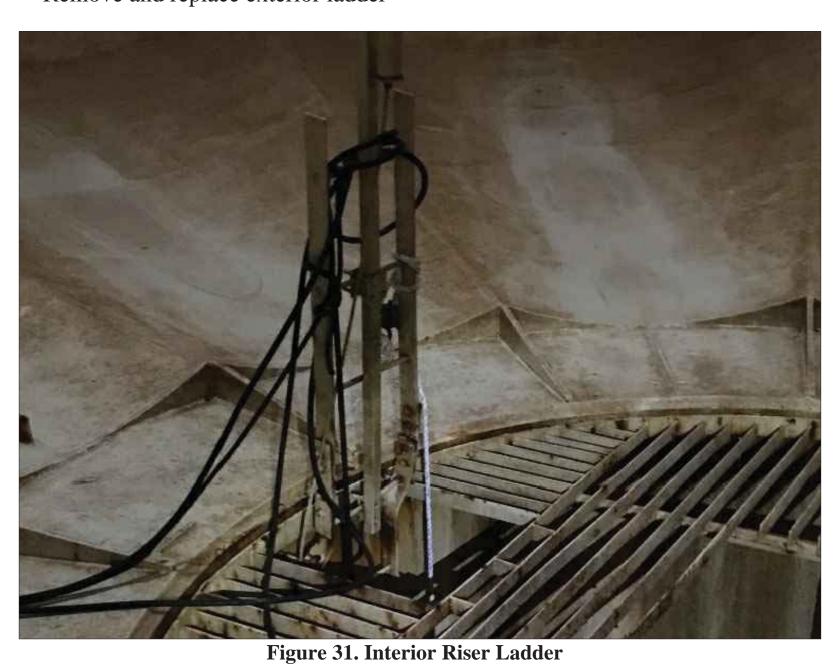
Figure 29. Tank Influent and Effluent Pipe Lines Repair minor corrosion on influent and effluent pipe lines



Figure 30. Exterior Ladder Leading to Top of Bowl Remove and replace exterior ladder

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The rails have been spliced just above the grating and have been installed such that the ladder

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Figure 32. Interior Bowl Ladder Remove and replace interior ladder. Repair corrosion at ladder base and on tank interior.

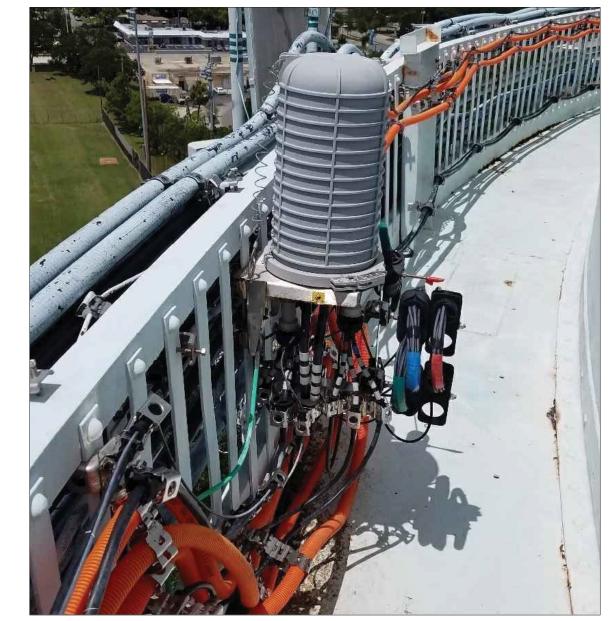


Figure 33. Communication Equipment on Exterior Bowl Platform

Provided for reference curves to one side to be more centrally located within the grating opening. PROJECT NO.: Issue Certification Designed <u>PGK</u> CITY OF TAMPA WATER DEPARTMENT 0816 Drawn <u>PFH</u> PALMA CEIA ELEVATED STORAGE TANK IMPROVEMENTS Checked <u>WTH</u> SCALE: REVISION: DETAILS Reviewed <u>AWD</u> NOTED Approved <u>WTH</u> SITE PICTURES (4 OF 4) DRAWING NO. SHEET NO .: FULL SIZE A 03/2018 100% DRAWINGS Weston T. Haggen, P.E. Florida P.E. No. 77777 C09

Date <u>03/2018</u>

- 3. FOR ALL ITEMS EMBEDDED IN OR PASSING THROUGH CONCRETE, THE CONTRACTOR SHALL INITIALLY REFER TO CIVIL DRAWINGS FOR TYPE, SIZE, LOCATION, AND SPECIAL INSTALLATION REQUIREMENTS FOR THESE ITEMS.
- 4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATIONS, AND OTHERS.
- 5. ANCHOR BOLTS SHALL BE PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- 6. ANY CONSTRUCTION EQUIPMENT THAT MAY INDUCE VIBRATION TO THE STRUCTURE SHALL BE ADEQUATELY ISOLATED FROM THE STRUCTURE.
- 7. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
- 8. STANDARD DETAILS APPLY TO ALL SIMILAR SITUATIONS ON THE PROJECT EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

DESIGN CRITERIA

BUILDING CODES AND REFERENCES:

- 1. 2012 INTERNATIONAL BUILDING CODE (IBC)
- 2. STRUCTURAL STEEL: AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION
- 3. ALUMINUM: ADM1-2010, ALUMINUM DESIGN MANUAL
- 4. ANSI/AWWA STANDARD FOR WELDED CARBON STEEL TANKS FOR WATER STORAGE
- LIVE LOADS:

ELEVATED PLATFORM

RISK CATEGORY ULTIMATE DESIGN WIND SPEED, VIII T NOMINAL DESIGN WIND SPEED, VASD

147 MPH 113 MPH

STRUCTURAL STEEL

EXPOSURE CATEGORY

WIND DESIGN CRITERIA:

- 1. DESIGN, FABRICATION, ERECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND THE DESIGN DRAWINGS.
- STEEL MATERIAL:
 - a. W-SHAPED SECTIONS : ASTM A992, GRADE 50
 - HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B
 - ALL OTHER STRUCTURAL STEEL: ASTM A36
 - ALL PIPE: ASTM A53, GRADE B
- WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST AWS STRUCTURAL WELDING CODE REQUIREMENTS. ELECTRODES SHALL BE E-70XX.
- 4. BOLTED CONNECTIONS:
 - MAIN CONNECTIONS: 3/4" DIA, ASTM A325 BOLTS. HOLES: 13/16" DIA CONNECTION SHALL BE "BEARING" TYPE WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
- b. SECONDARY CONNECTION: 3/4" DIA, ASTM A307 GRADE A BOLTS.
- ALL CONNECTION SHALL HAVE A MINIMUM OF TWO BOLTS. GUSSET PLATES SHALL BE A MINIMUM OF 3/8" THICK.
- d. ALL COLUMNS AND POSTS SHALL HAVE MILLED ENDS FOR FULL BEARING AT BASE

ALUMINUM

- ALUMINUM DESIGN, DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM DESIGN MANUAL
- 2. ALUMINUM IN CONTACT WITH OR EMBEDDED IN CONCRETE OR MASONRY SURFACES SHALL BE COATED WITH A HEAVY COATING OF ALKALI RESISTANT BITUMINOUS PAINT.
- 3. ALL BOLTS USED IN CONNECTIONS WITH ALUMINUM MEMBERS SHALL BE STAINLESS STEEL A316, UNLESS NOTED OTHERWISE.
- 4. ALL WELDING OF ALUMINUM STRUCTURES SHALL CONFORM TO "STRUCTURAL WELDING CODE - ALUMINUM", AWS D1.2, LATEST EDITION.

REPAIR/MODIFICATION NOTES

ALL LOOSE GROUT IS TO BE CHIPPED AWAY TO SOLID MATERIAL ANY CORRODED STEEL AND LOOSE PAINT SHALL BE CLEANED AND REMOVED. VOIDS IN THE GROUT ARE TO BE FILLED WITH A NON-SHRINKING, NON-STAINING, STRUCTURAL GROUT MATERIAL PLACE GROUT AS FAR UNDER BASE PLATES AS POSSIBLE AND SQUARE OFF VERTICALLY WITH THE EDGE OF THE BASE PLATES. FILL ANY GAPS BETWEEN THE STEEL BASE PLATE AND GROUT WITH A FLEXIBLE SEALANT.



CLEAN AREA AROUND THE ANCHOR BOLTS OF ANY DEBRIS. REMOVE AND REPLACE ANY CORRODED ANCHOR BOLT NUTS. ALL ANCHORS SHOULD BE CLEANED AND INSPECTED ONCE THE NUTS HAVE BEEN REMOVED. IF NECESSARY, REPLACE ANY ANCHORS THAT MAY SHOW SIGNS OF CORROSION AND DETERIORATION. ALL ANCHOR NUTS ARE TO BE FIELD TIGHTENED TO SPECIFICATIONS.

DEMO AND REPLACE EXISTING EXTERIOR COLUMN LADDER W/ NEW LADDER PER DETAILS J/S-03. PROVIDE STANDOFFS EVERY 10' ON CENTER, A CABLE-TYPE FALL PROTECTION DEVICE, AND A LOCKABLE LADDER GUARD. PROVIDE A "FALL PROTECTION REQUIRED" SIGN. LADDER SHALL BE IN ACCORDANCE WITH ALL OSHA REQUIREMENTS.

DEMO AND REPLACE EXISTING EXTERIOR BOWL LADDER W/ NEW LADDER PER DETAIL M/S-03. PROVIDE NEW CABLE-TYPE FALL PROTECTION DEVICE.LADDER SHALL BE IN ACCORDANCE WITH ALL OSHA REQUIREMENTS.

DEMO AND REPLACE EXISTING INTERIOR RISER LADDER. PROVIDE NEW RISER LADDER EQUIPPED WITH A CABLE-TYPE LADDER SAFETY DEVICE AND STANDOFFS EVERY 10'. LADDER SHALL BE IN ACCORDANCE WITH ALL OSHA REQUIREMENTS. SEE DETAIL L/S-03.

DEMO AND REPLACE EXISTING INTERIOR SHELL MANWAY LADDER W/ NEW LADDER PER DETAIL K/S-03. PROVIDE NEW CABLE-TYPE FALL PROTECTION DEVICE.LADDER SHALL BE IN ACCORDANCE WITH ALL OSHA REQUIREMENTS.

DEMO AND REMOVE CORRODED PORTIONS OF PLATFORM AND

REPLACE WITH STEEL PLATE WHERE NEEDED. PROVIDE WEEP HOLES TO PREVENT POOLING OF WATER. SEE DETAIL A/S-01. IT IS ESTIMATED THAT APPROXIMATELY 50 SQUARE FEET OF FLOOR PLATE WILL NEED TO BE REPLACED. DEMO AND REPLACE SAFETY GRATING DESIGNED FOR FALL PROTECTION

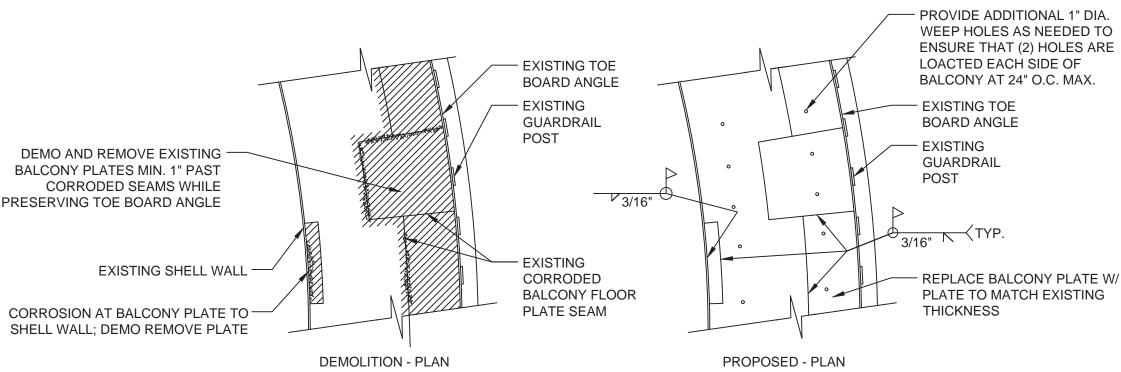
OVER RISER PIPE OPENING. GRATING SHALL BE IN ACCORDANCE WITH ALL AWWA AND OSHA REQUIREMENTS AND SHOULD BE COORDINATED WITH THE NEW RISER ACCESS LADDER TO PROVIDE MINIMUM OSHA REQUIRED OPENING SIZE. INSTALL OSHA APPROVED GUARDRAIL AROUND RISER OPENING. SEE DETAILS B/S-02 AND O/S-04.

DEMO AND REPLACE EXISTING PLATFORM ACCESS HATCH. SEE DETAIL G/S-02 AND H/S-02.

REPLACE EXISTING ROOF VENT WITH A NEW ALUMINUM VENT WITH INSECT SCREEN. SEE DETAIL N/S-04.

CLEAN AND FILL ALL INTERIOR TANK PITS WITH WELD MATERIAL AND PREP THE SURFACE FOR A NEW COATING SYSTEM.

INTERIOR AND EXTERIOR OF THE TANK SHALL BE PAINTED PER THE SPECIFICATIONS.

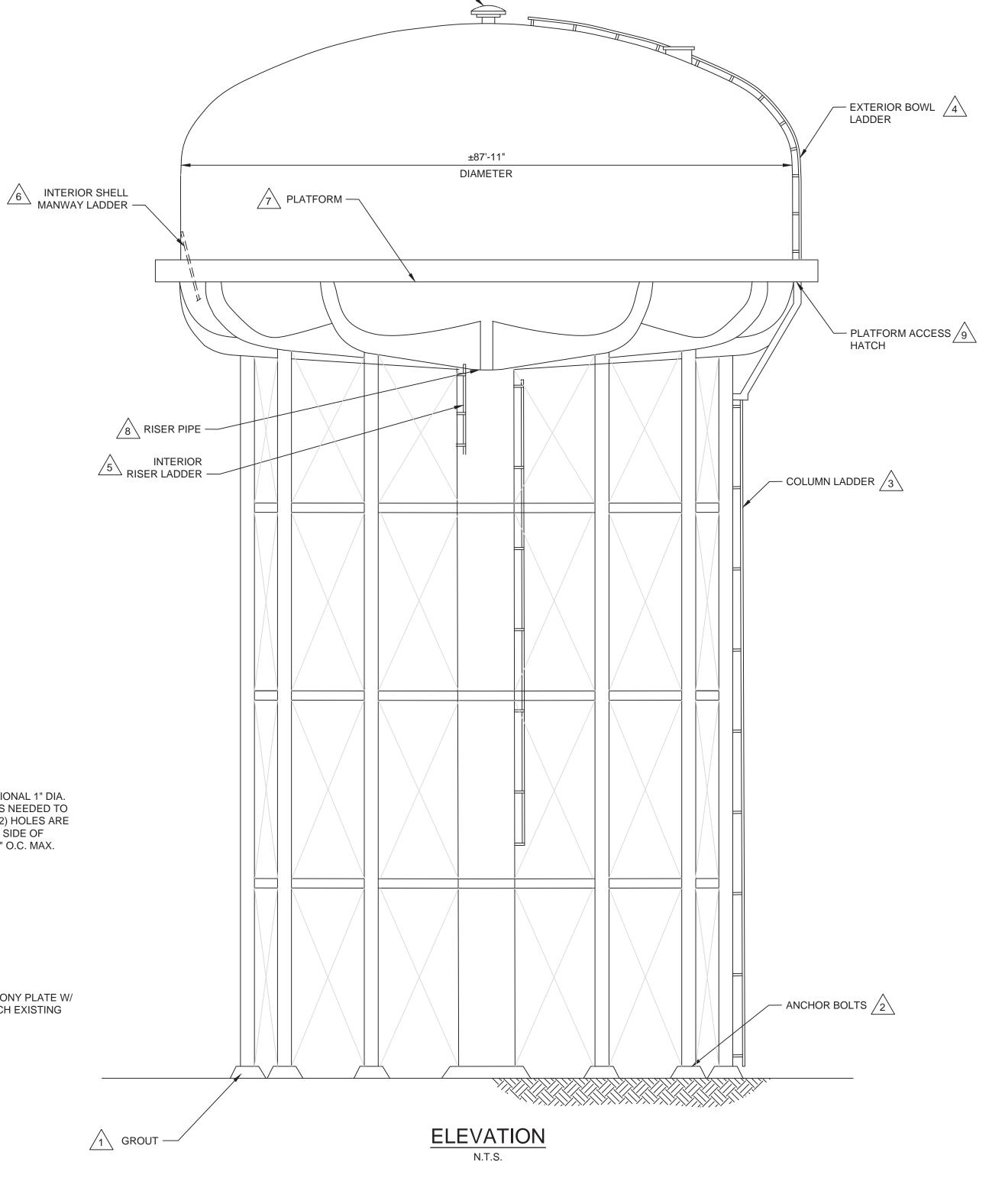


CONTRACTOR SHALL COORDINATE EXTENT OF REMOVAL OF BALCONY PLATE TO ENSURE THAT BALCONY STABILITY IS MAINTAINED. SHORING OR BRACING FOR THE BALCONY SHALL BE PROVIDED AS NEEDED.

John V. Sobczak, P.E.

Florida P.E. No. 71407

PLATFORM FLOOR REPAIR PLAN **DETAIL** N.T.S



10 ROOF VENT



Issue Certification 03/2018 | 100% DRAWINGS DATE DESCRIPTION

Designed <u>JVS</u> Checked DSM Reviewed AWD Approved <u>JVS</u> FULL SIZE Date __11/14/2017

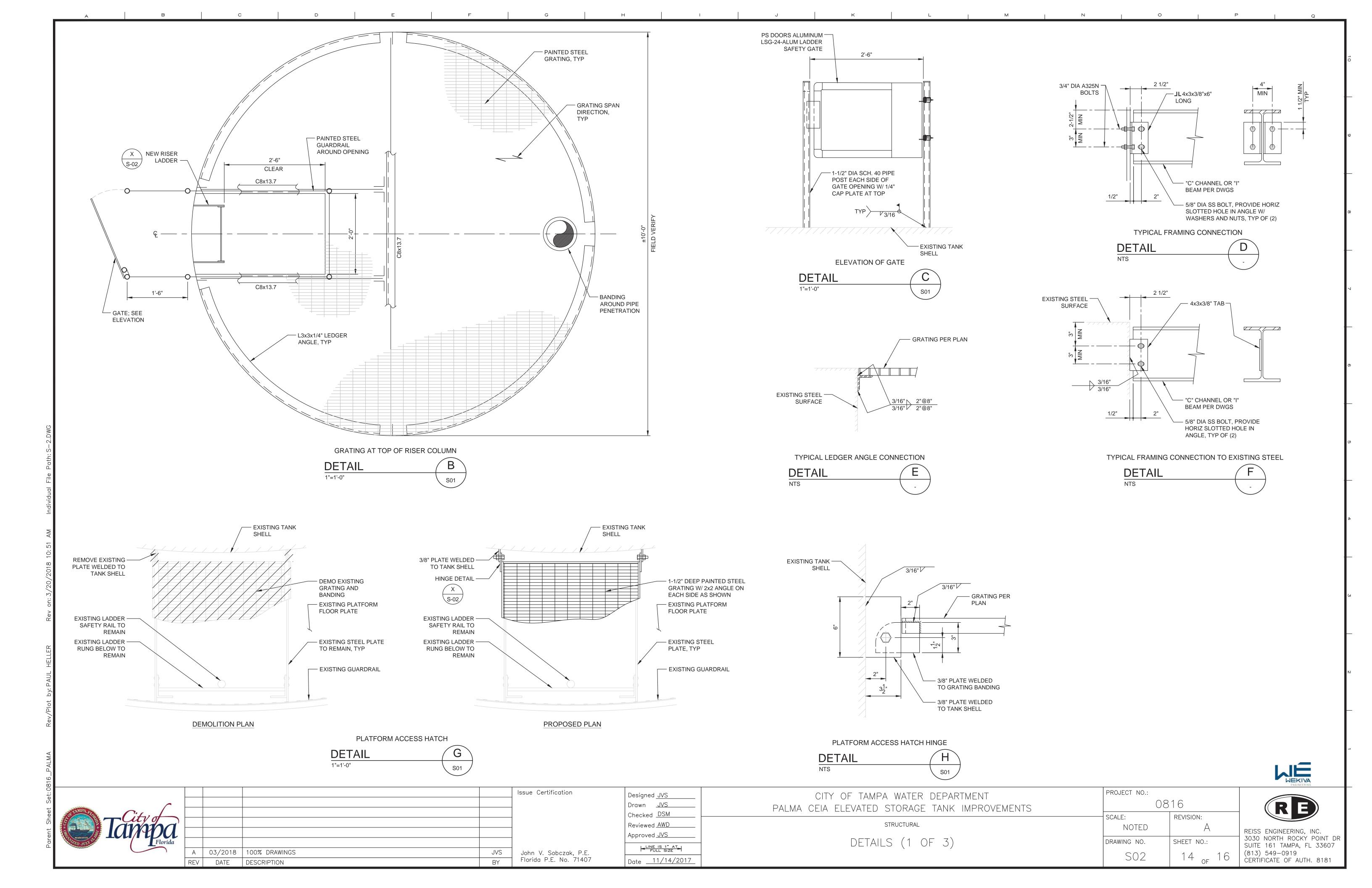
PROJECT NO .: CITY OF TAMPA WATER DEPARTMENT 0816 PALMA CEIA ELEVATED STORAGE TANK IMPROVEMENTS **REVISION:** SCALE: STRUCTURAL NOTED GENERAL NOTES, ELEVATION, AND DETAILS DRAWING NO. SHEET NO.: S01

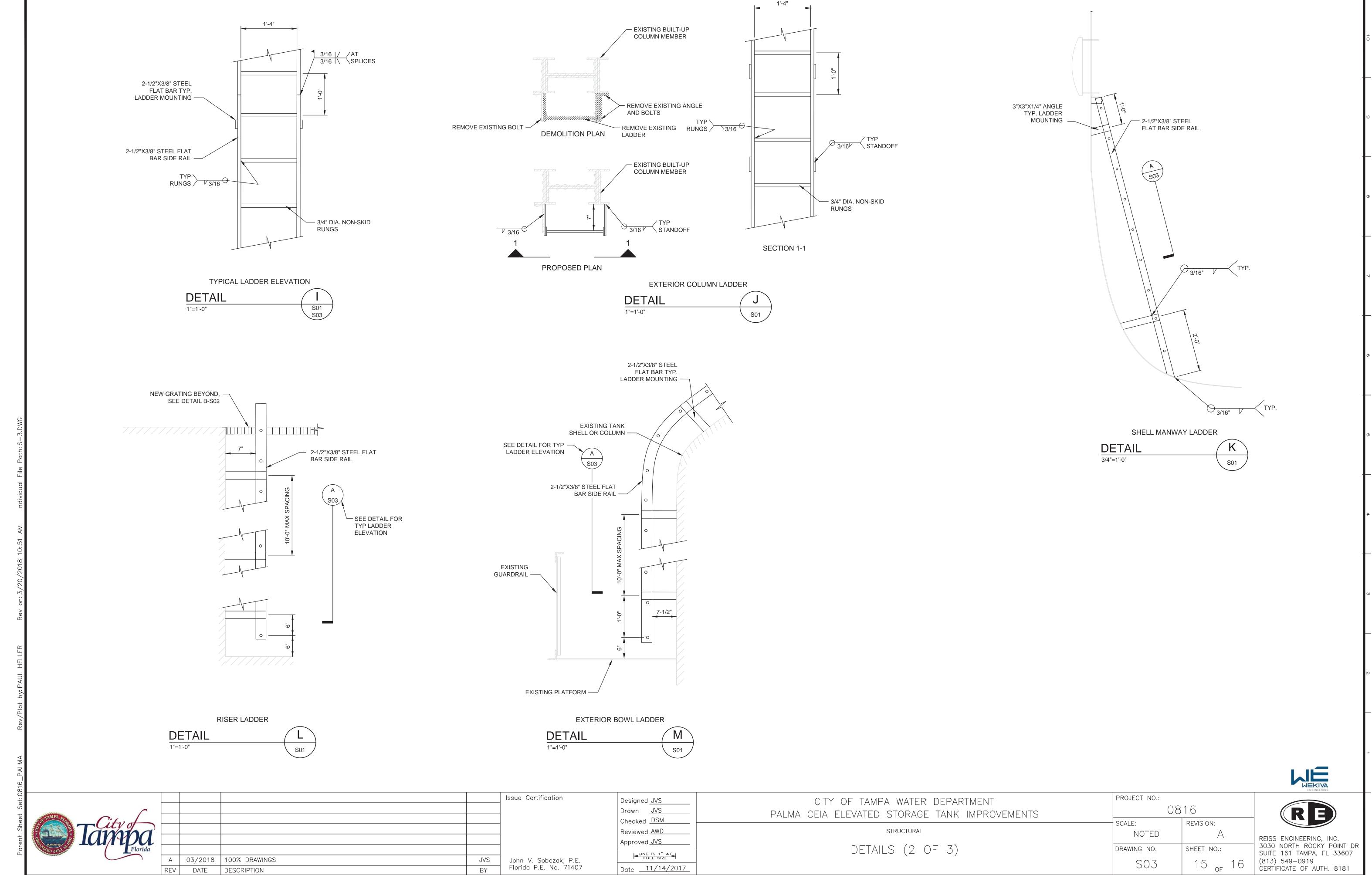


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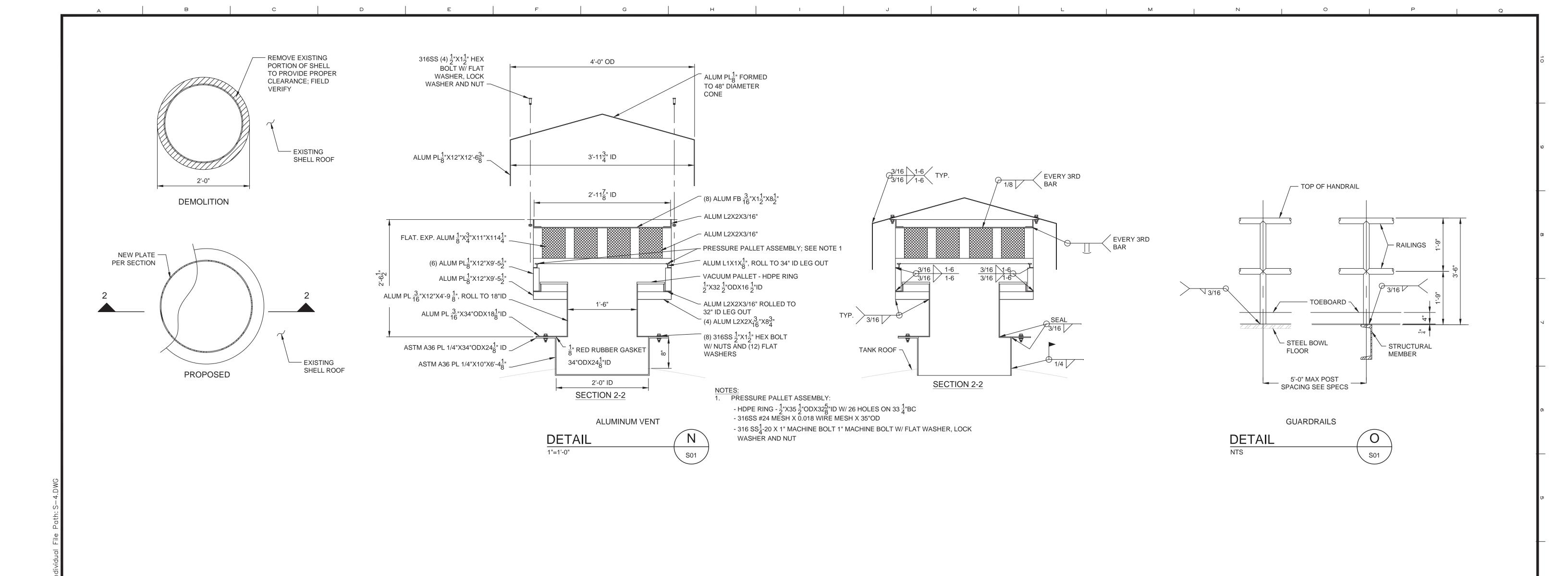
SUITE 161 TAMPA, FL 33607 (813) 549-0919





Date <u>11/14/2017</u>

DATE DESCRIPTION







				Issue Certification
Α	03/2018	100% DRAWINGS	JVS	John V. Sobczak, P. Florida P.E. No. 714
REV	DATE	DESCRIPTION	BY	Florida P.E. No. 714
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Drawn <u>JVS</u> Checked <u>DSM</u> Reviewed <u>AWD</u>
Pavious AWD
I Veviewed VMD
Approved <u>JVS</u>
LINE IS 1" AT FULL SIZE
P.E. Date 11/14/2017

CITY OF TAMPA WATER DEPARTMENT PALMA CEIA ELEVATED STORAGE TANK IMPROVEMENTS	PROJECT NO.: 0816		
	scale: NOTED	REVISION:	R
DETAILS (3 OF 3)	drawing no.	SHEET NO.: 16	S (-)

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