

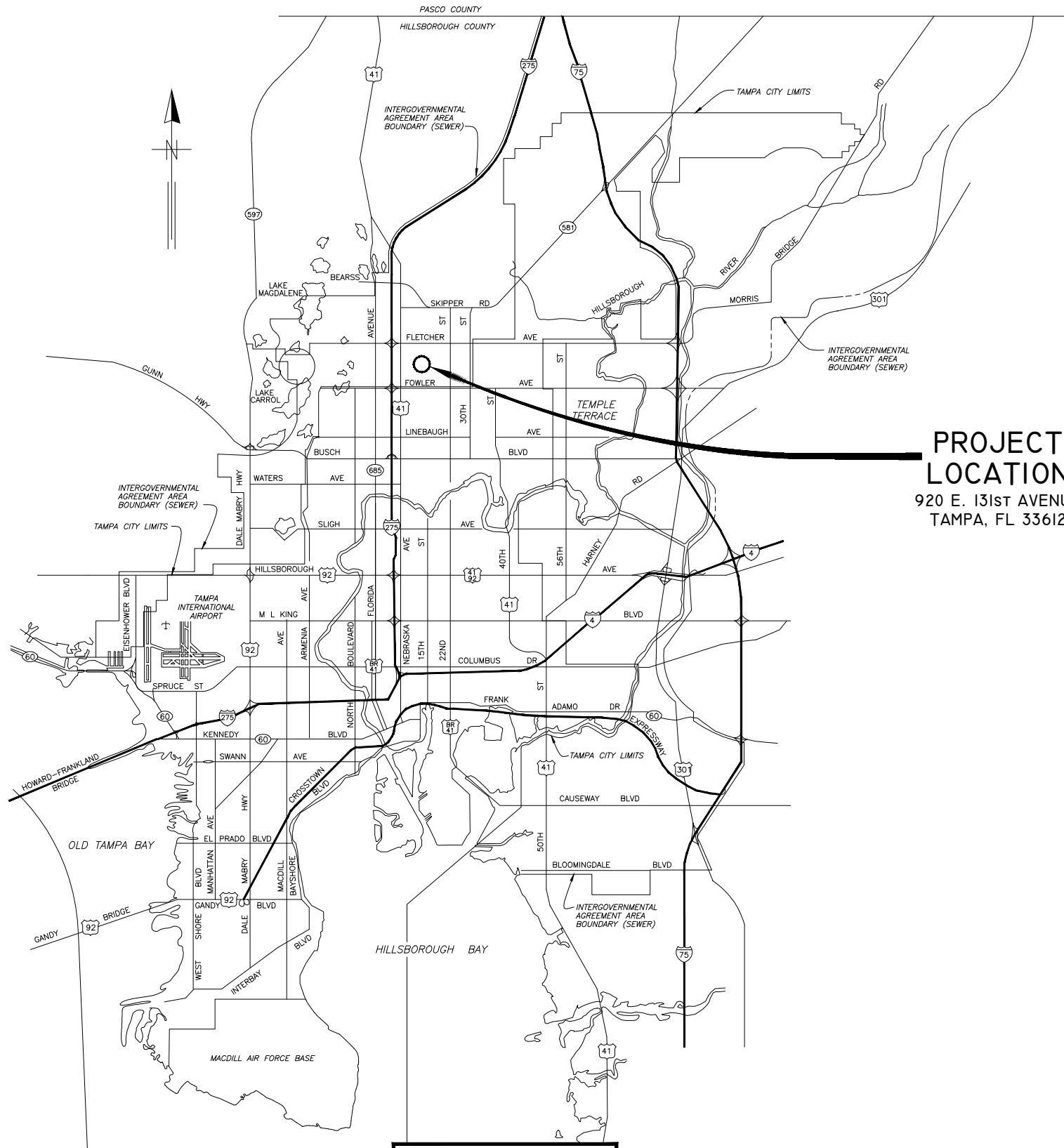
**The Enclosed Document Is Provided For Your Convenience.**

**Please Email ALL Questions:**  
**[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)**

**Please Let Us Know If You Plan To Bid**

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

LOCATION MAP



**PROJECT LOCATION**  
 920 E. 131st AVENUE  
 TAMPA, FL 33612

CITY of TAMPA



**WASTEWATER DEPARTMENT**

PLANS FOR  
**UNIVERSITY PUMPING STATION  
 PUMP #1 REPLACEMENT**

CONTRACT: 16-C-00019

**TRICON**  
 CONSULTING ENGINEERS  
 777 S. Harbour Island Blvd, STE 870, TAMPA, FL 33602  
 813.227.9190 FAX 813.227.9195  
 Certificate of Authorization No. 00008363

C:\PROGRAMFILES\AUTOCAD\CIVIL3D2010\DWGFILES\PS\UNIVERSITY.P.S.\4511-SHEET-01.DWG

JACINTO CARLOS FERRAS, P.E. #49454  
 DESIGN DIVISION HEAD  
 WASTEWATER DEPARTMENT

TIMOTHY D. THOMAS, PE - FPE 47079  
 TRICON CONSULTING ENGINEERS  
 ELECTRICAL / INSTRUMENTATION DESIGN

No.	DATE	REVISIONS
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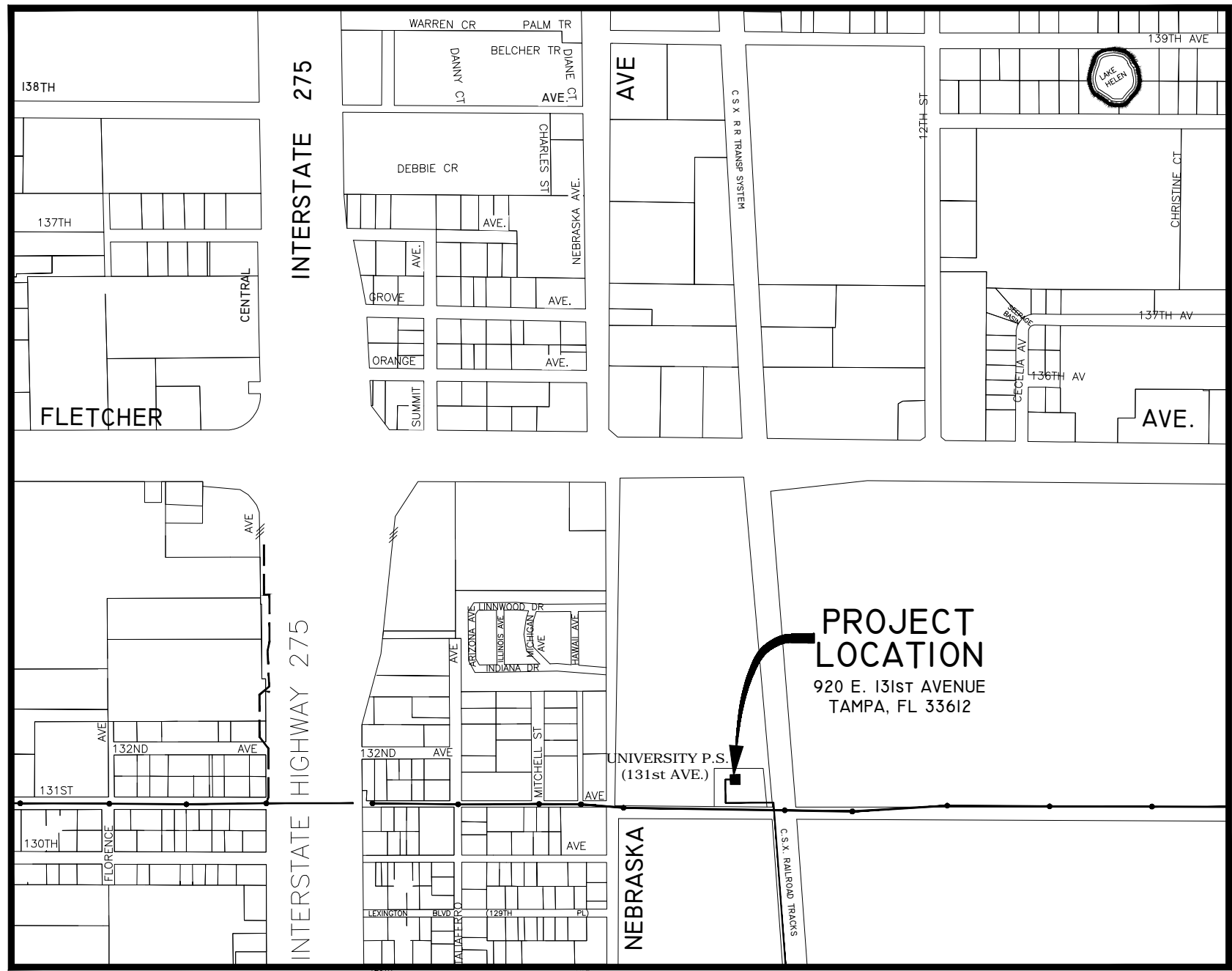
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CITY of TAMPA  
 WASTEWATER DEPARTMENT

COVER SHEET

SHEET  
 1

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**PROJECT MAP**  
NOT TO SCALE

INDEX	
SH. No.	DESCRIPTION
1	COVER SHEET
2	INDEX & PROJECT MAP
3	SITE PLAN
4	GENERAL NOTES
5	DEMOLITION PLAN AT ELEV. 15.00 AND SECTION
6	DEMOLITION SECTION
7	PROPOSED PLAN AT ELEV. 15.00 AND SECTION
8	PROPOSED SECTION
9	MISCELLANEOUS PUMP ROOM DETAILS
10	WET WELL ISOLATION DETAILS
E0	ELECTRICAL – TIMING DIAGRAM, LEGEND & ABBREVIATIONS
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E2	ELECTRICAL – ELECTRICAL POWER PLAN – ELEV. 15.00
E3	ELECTRICAL – ELECTRICAL POWER SECTION
E4	ELECTRICAL – CONTROL CENTER FRONT ELEVATION
E5	ELECTRICAL – SECTION 3 MODIFICATIONS
E6	ELECTRICAL – LLC AND VFD FRONT ELEVATIONS
E7	ELECTRICAL – ELECTRICAL ONE-LINE DIAGRAM
E8	ELECTRICAL – VFD INTERCONNECTIONS
E9	ELECTRICAL – PUMP No. 1 CONTROL PANEL
E10	ELECTRICAL – PUMP No. 1 CONTROLS (SHEET 1 OF 3)
E11	ELECTRICAL – PUMP No. 1 CONTROLS (SHEET 2 OF 3)
E12	ELECTRICAL – PUMP No. 1 CONTROLS (SHEET 3 OF 3)
E13	ELECTRICAL – PUMP No. 2 CONTROL PANEL
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E16	ELECTRICAL – MOTOR CONTROL CENTER ELEVATION
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E18	ELECTRICAL – ANNUNCIATOR PLC WIRING DIAGRAMS
E19	ELECTRICAL – DISCRETE I/O WIRING DIAGRAMS
E20	ELECTRICAL – PROPOSED ANNUNCIATOR SCREENS
E21	ELECTRICAL – CONDUIT AND CABLE SCHEDULE

JACINTO CARLOS FERRAS, P.E. #49454  
DESIGN DIVISION HEAD  
WASTEWATER DEPARTMENT

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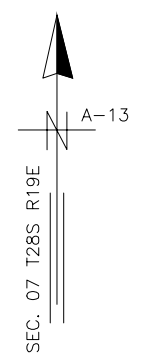
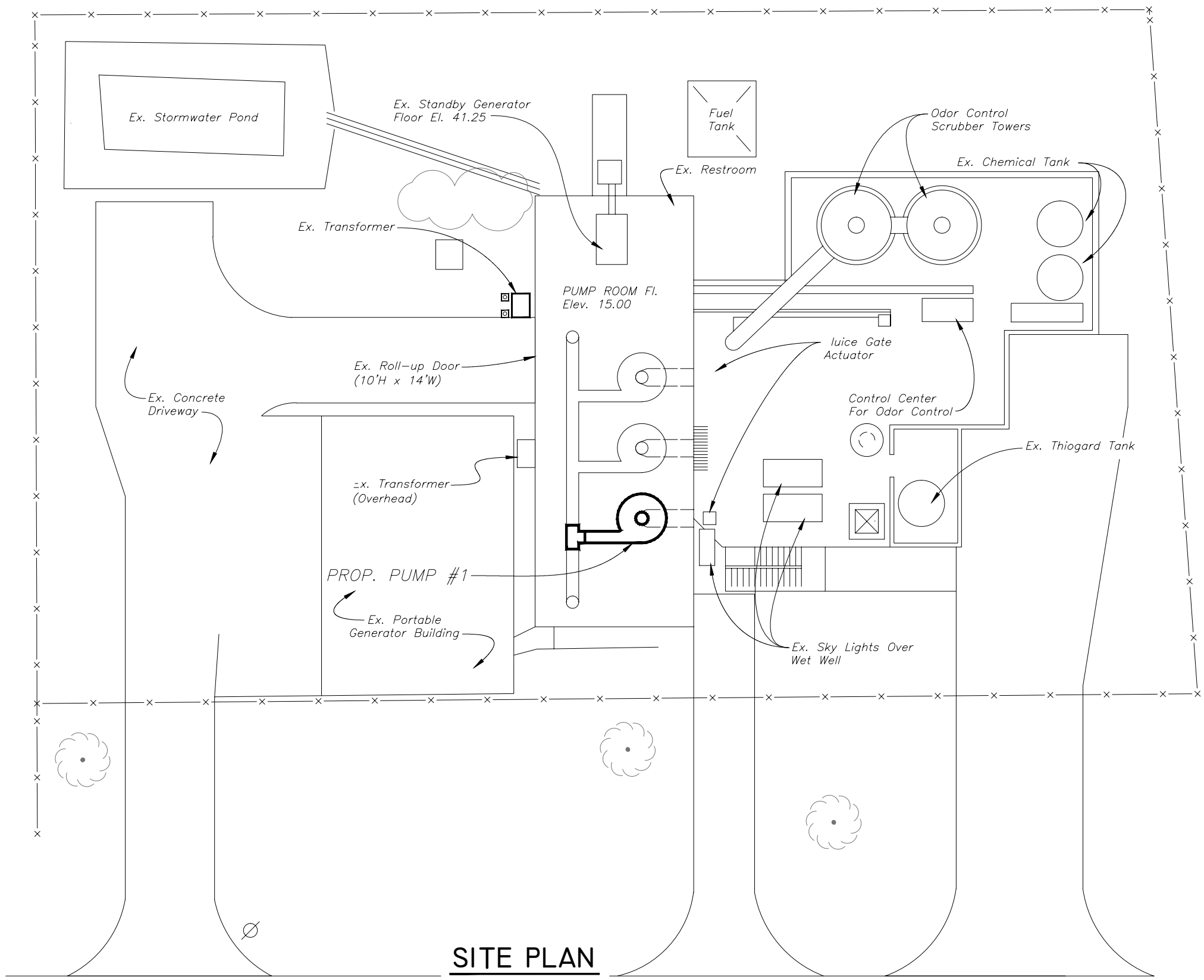
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**CITY of TAMPA**  
WASTEWATER DEPARTMENT

**UNIVERSITY PUMPING STATION**  
**PUMP No. 1 REPLACEMENT**  
**INDEX & PROJECT MAP**

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**SITE PLAN**

NOT TO SCALE

JACINTO CARLOS FERRAS, P.E. #49454  
 DESIGN DIVISION HEAD  
 WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
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**CITY of TAMPA**  
 WASTEWATER DEPARTMENT

**UNIVERSITY PUMPING STATION  
 PUMP #1 REPLACEMENT  
 SITE PLAN**

HEET  
**3**  
 OF

# NOTES

## GENERAL NOTES

- G-1. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH DEPARTMENT PERSONNEL AND PUMPING STATION OPERATIONS.
- G-2. EXISTING DIMENSIONS AND ELEVATIONS ARE BASED ON THE BEST INFORMATION AVAILABLE. TRUE DIMENSIONS AND ELEVATIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO LAYOUT AND SHOP DRAWING SUBMITTALS.
- G-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.
- G-4. PRIOR TO PUMP #1 DEMOLITION, CITY FORCES WILL CLOSE THE NECESSARY PLUG VALVES INSIDE THE PUMPING STATION TO ISOLATE THE DISCHARGE SIDE OF PUMP #1. THE CITY REQUIRES A MIN. 1 WEEK ADVANCE NOTICE FOR THIS WORK.
- G-5. CONTRACTOR SHALL INSTALL TWO STOP LOGS AND A 42" INFLATABLE PLUG IN WET WELL IN ORDER TO ISOLATE SUCTION SIDE OF PUMP #1. SEE WET WELL DETAILS ON SHEET 10.
- G-6. MECHANICAL AND ELECTRICAL EQUIPMENT TO BE LOCKED OUT SHALL BE LOCKED OUT WITH A MULTIPLE-LOCK MASTER LOCK-OUT DEVICE, WHICH SHALL BE INSTALLED BY CITY PERSONNEL AND LOCKED BY BOTH THE CITY PERSONNEL AND THE CONTRACTOR.
- G-7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, INSTALLING, LEVELING AND ALIGNING MOTOR AND PUMP. PROCEDURES FOR INSTALLATION, AS OUTLINED IN THE HYDRAULIC INSTITUTE STANDARDS, MOST CURRENT EDITION, SHALL BE ADHERED TO. SEE SPECIFIC PROVISION SP-80. IF CONFLICT BETWEEN THE SPECS AND THE H.I.S. PROCEDURE ARISE, THE MOST STRINGENT STANDARD SHALL BE FOLLOWED.
- G-8. PROPOSED PUMP SHALL BE A 400 HORSEPOWER, 24-INCH, 600 RPM FAIRBANKS MORSE VERTICAL CLOSE-COUPLED ANGLEFLOW PUMP MODEL #C5741. PUMP SHALL BE RATED FOR 29.3 MGD @ 62.0 FEET TDH. SEE SPECIFICATIONS FOR MOTOR INFORMATION.
- G-9. PROPOSED KNIFE GATE VALVE SHALL BE A MODEL 145, "PERFORMANCE PLUS" KNIFE GATE, AS MADE BY TYCO VALVE AND CONTROLS; SEE SPECIFICATIONS FOR DETAILS. KNIFE GATE VALVE SHALL BE EQUIPPED WITH ELECTRIC POWERED ACTUATOR, AS MADE BY ROTORK, LIMITORQUE, OR EQUAL; SEE SPECIFICATIONS FOR DETAILS.
- G-10. EXISTING 30" PUMP CHECK VALVE AND PNEUMATIC ACTUATOR SHALL BE REMOVED AND PLACED IN SAFE STORAGE DURING DEMOLITION ACTIVITIES. PUMP CHECK VALVE ASSEMBLY SHALL BE RE-INSTALLED IN NEW LOCATION WITH PROPOSED PUMP #1, PIPE AND FITTINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-CONNECTING PUMP CHECK VALVE ACTUATOR TO PNEUMATIC AIR SUPPLY, POWER AND CONTROLS SOURCES. SEE ELECTRICAL SHEETS FOR DETAILS.
- G-11. AIR SUPPLY FOR PNEUMATICALLY ACTUATED PUMP-CHECK VALVE SHALL BE FROM EXISTING STATION AIR. ARRANGEMENT OF PIPING AND CONNECTIONS TO EXISTING PIPES SHALL BE MADE BY THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER.
- G-12. ANCHOR BOLTS SHALL BE AS PER PUMP MANUFACTURER'S RECOMMENDATIONS. ANCHOR BOLTS SHALL BE DOUBLE-NUTTED AND FINISHED WITH NON-SHRINK GROUT. ALL BOLTS SHALL EXTEND BEYOND THE FASTENING NUTS BY A MINIMUM OF 1/2-INCH.

- G-13. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE TYPE 316 STAINLESS STEEL.
- G-14. PROP. 30"x 30"x 24" REDUCING TEE SHALL BE FABRICATED TO SUIT THE DIMENSIONS OF THE PROPOSED EQUIPMENT AND SHALL BE A36-STEEL WITH A 150 PSI RATING. STEEL FITTINGS SHALL BE MANUFACTURED BY AN AWWA CERTIFIED FABRICATOR.
- G-15. ALL CEMENTITIOUS CONCRETE AND GROUT, UNLESS OTHERWISE SPECIFIED, SHALL BE CLASS "B" 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
- G-16. EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4" CHAMFER AND RE-ENTRANT CORNERS SHALL HAVE A 3/4" FLAT FILLET UNLESS OTHERWISE NOTED.
- G-17. CONCRETE PEDESTAL SHOP DRAWINGS INCLUDING FLANGE SUPPORT DETAILS SHALL BE SUBMITTED FOR APPROVAL.
- G-18. ALL STEEL REINFORCING SHALL BE DETAILED ACCORDING TO THE LATEST "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". ACTUAL PLACEMENT OF STEEL REINFORCING SHALL BE SHOWN ON SHOP DRAWINGS. ALL LAPS AND SPLICES SHALL BE AT LEAST 32 BAR DIAMETERS OR 24 INCHES.
- G-19. CERTAIN PORTIONS OF THIS PROJECT MAY REQUIRE NIGHT TIME WORK.
- G-20. ALL NOTES PERTAINING TO PROPOSED WORK INSIDE SCREEN ROOM ARE LOCATED ON PERTINENT SHEETS.
- G-21. PROP. FLOW METER SHALL BE A 24" ABB ELECTROMAGNETIC FLOW METER, WATERMASTER SERIES, AS MADE BY ABB. SEE SPECIFICATIONS FOR DETAILS.
- G-22. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY (40 MILS DFT), OR EQUAL. ALL STEEL PIPE AND FITTINGS SHALL BE LINED WITH 40 MILS (DFT) OF "SG-14" GLASS LINING (PORCELAIN ENAMEL), AS MADE BY U.S. PIPE, OR EQUAL.
- G-23. THE PUMPING STATION SHALL REMAIN IN OPERATION DURING THE ENTIRE PUMP No.1 REPLACEMENT PROJECT. THE CONTRACTOR SHALL PLAN HIS WORK ACCORDINGLY.
- G-24. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 5th EDITION 2014, AND CHAPTER 5 OF THE CITY OF TAMPA CODE.
- G-25. CONTRACTOR SHALL REMOVE EX. WET WELL #1 (42") SLUICE GATE AND ENTIRE ELECTRIC ACTUATOR ASSEMBLY.
- G-26. CONFIGURATION FOR THREE PROPOSED KNIFE GATE VALVE ACTUATORS SHALL BE AS INDICATED IN THE PLANS.
- G-27. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 5TH EDITION 2014, CHAPTER 5 OF THE CITY OF TAMPA CODE AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) SERIES 70/NATIONAL ELECTRICAL CODE (NEC) 2011 EDITION.

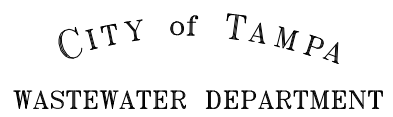
## DEMOLITION NOTES

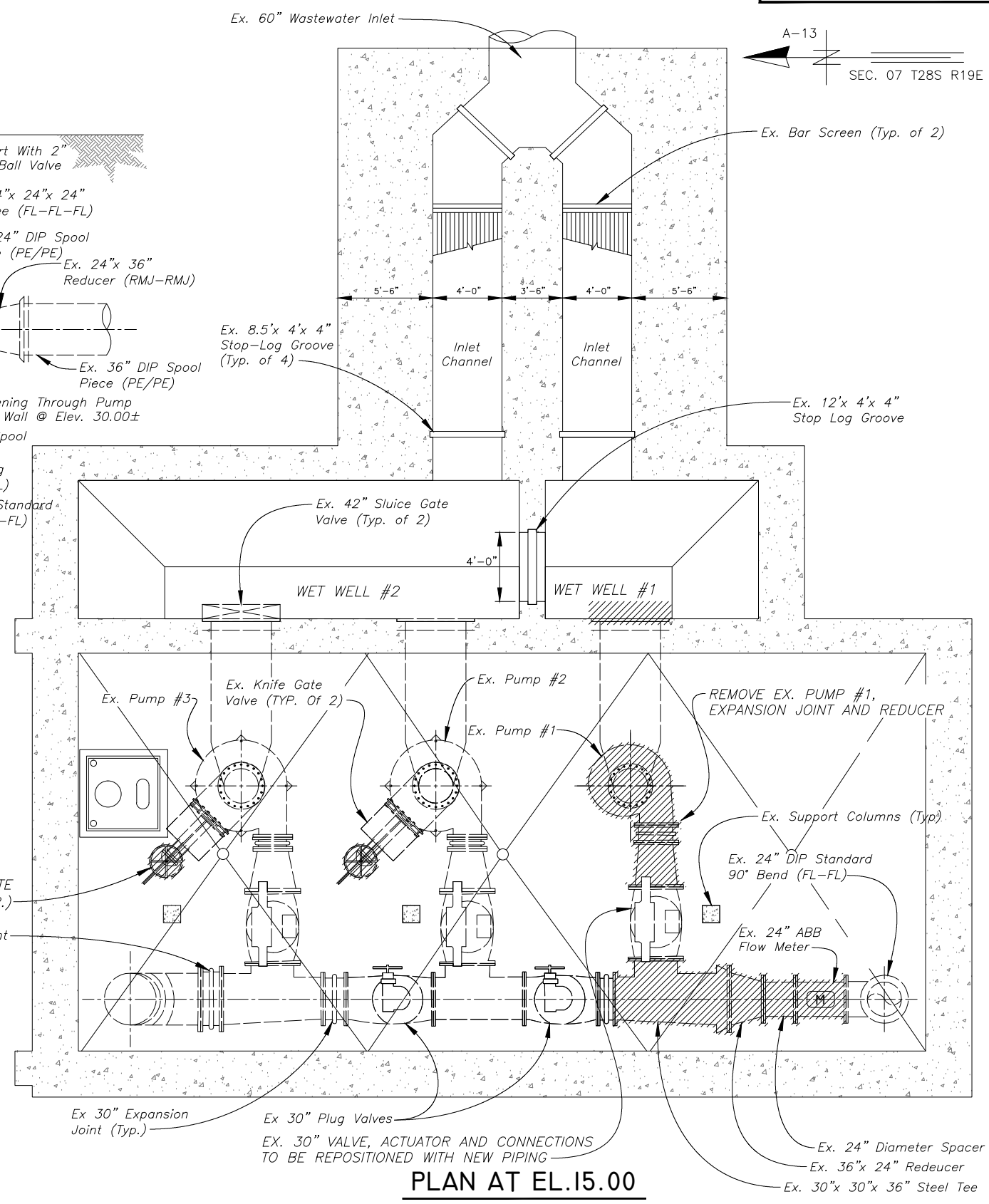
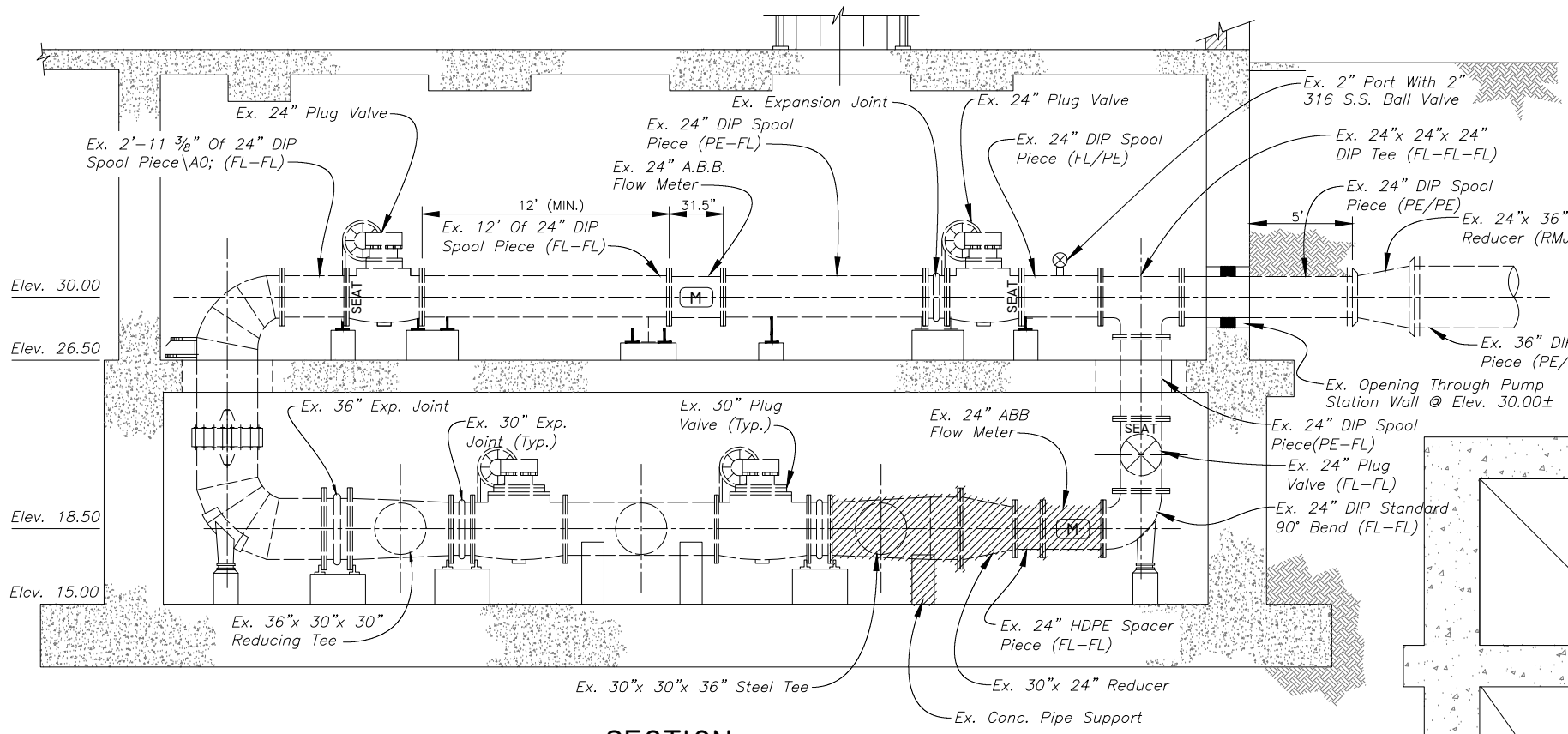
- D-1. ALL DIMENSIONS ARE APPROXIMATE. TRUE DIMENSIONS SHALL BE DETERMINED IN THE FIELD.
- D-2. SALVAGEABLE MATERIAL, AS DETERMINED BY DEPARTMENT PERSONNEL, SHALL BE DELIVERED TO THE CITY OF TAMPA'S HOWARD F. CURREN AWTP AT 2700 MARITIME BOULEVARD. NON-SALVAGEABLE MATERIALS ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. IN GENERAL, ALL PUMP AND CONTROLS EQUIPMENT SHALL REMAIN PROPERTY OF THE CITY AND SHALL BE DELIVERED TO THE TREATMENT PLANT.
- D-3. ALL ALUMINUM FRAMES AND PLATFORMS ON PUMP #1 SHALL BE SALVAGED AND DELIVERED TO THE TREATMENT PLANT.
- D-4. THE PUMP STATION SITE SHALL BE MAINTAINED IN AS NEAT AND ORDERLY CONDITION AS POSSIBLE DURING CONSTRUCTION OPERATIONS. WALKWAYS AND DRIVEWAYS SHALL BE KEPT CLEAR FOR DEPARTMENT PERSONNEL TO PASS THROUGH.
- D-5. CONTRACTOR SHALL CUT ALL EXPOSED REINFORCING STEEL TO A DEPTH OF 1-INCH BELOW THE EXPOSED SURFACE AND GROUT OVER.
- D-6. CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL THAT WILL PREVENT THE EXPANSION JOINTS IN THE 30"-36" DISCHARGE HEADER FROM EXPANDING AFTER THE EXISTING 30"x 30"x 36' TEE HAS BEEN REMOVED IN THE PUMP ROOM.

## "POSSIBLE" CONSTRUCTION SEQUENCE

- S-1. CITY FORCES CLOSE EX. 30" & 24" PLUG VALVES IN PUMP ROOM TO ISOLATE DISCHARGE SIDE OF PUMP #1. CONTRACTOR TO INSTALL STOP LOGS AND 42" PLUG IN SCREEN ROOM TO ISOLATE SUCTION SIDE OF PUMP #1.
- S-2. PROCEED WITH DEMOLITION AND INSTALL 24" KNIFE GATE VALVE AS SOON AS POSSIBLE.
- S-3. INSTALL PROPOSED PUMP #1, PUMP CHECK VALVE, FLOW METER, PIPE AND FITTINGS (INCLUDING ELECTRICAL WORK).
- S-4. PERFORM REQUIRED TESTS ON PROPOSED PUMPING EQUIPMENT.
- S-5. PERFORM TRAINING, COMPLETE PUNCH LIST ITEMS.

user: ps/11 - Drawing Name: K:\Wastewater Projects\University P.S. - Pump #1 - sheet 4.dwg  
 Location: Nov 22, 2016 - 9:55am

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 10%;">DATE</th> <th style="width: 85%;">REVISIONS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> <td></td> </tr> </tbody> </table>	No.	DATE	REVISIONS	3			2			1			DES: J.H. DRN: BB CKD: DATE:		<b>UNIVERSITY PUMPING STATION                  PUMP #1 REPLACEMENT                  GENERAL NOTES</b>	SHEET <span style="font-size: 2em; font-weight: bold;">4</span>
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ITEMS SHOWN AS HATCHED ARE TO BE DEMOLISHED AND REMOVED

JACINTO CARLOS FERRAS, P.E. #49454  
 DESIGN DIVISION HEAD  
 WASTEWATER DEPARTMENT  
 Nov 21, 2016 - 2:24pm

JACINTO CARLOS FERRAS, P.E. #49454  
DESIGN DIVISION HEAD  
WASTEWATER DEPARTMENT

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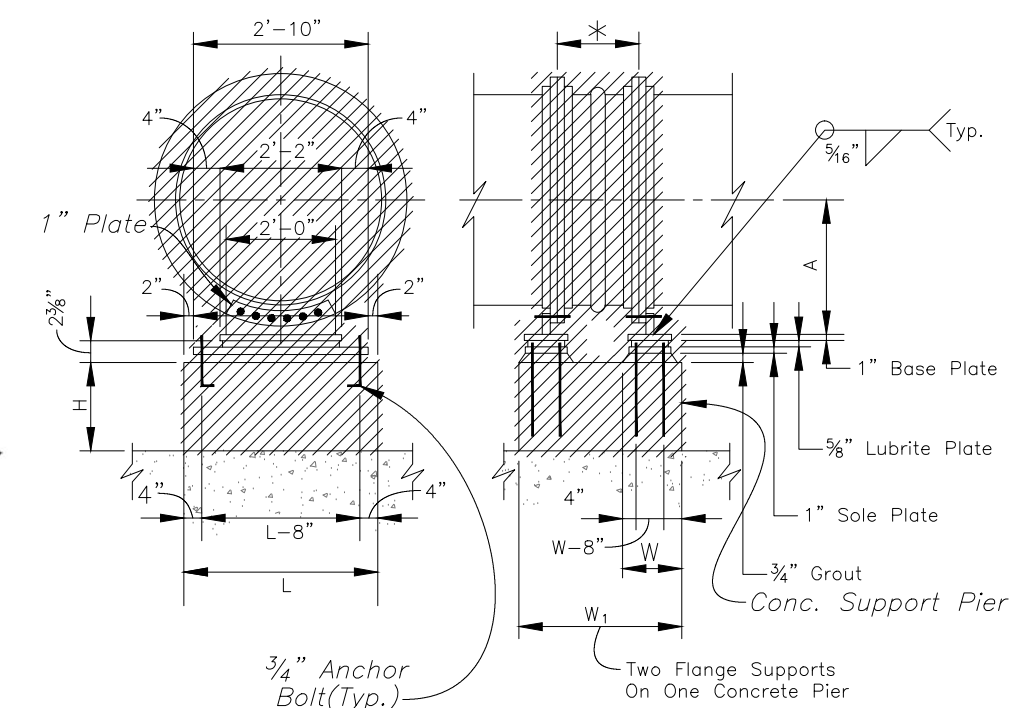
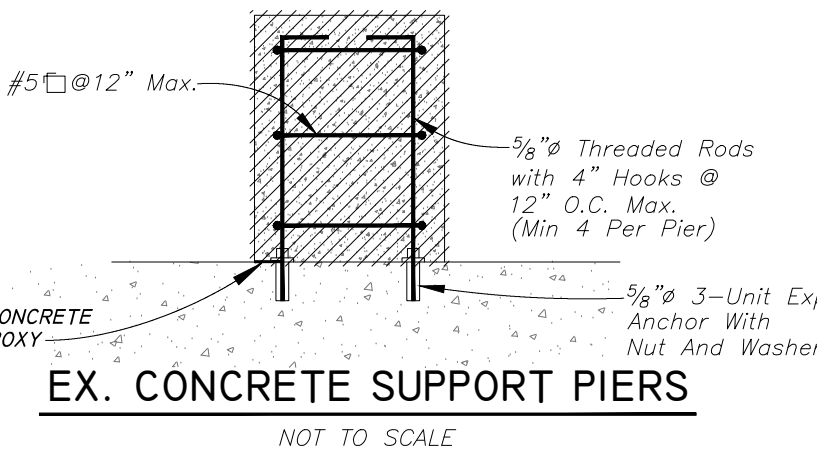
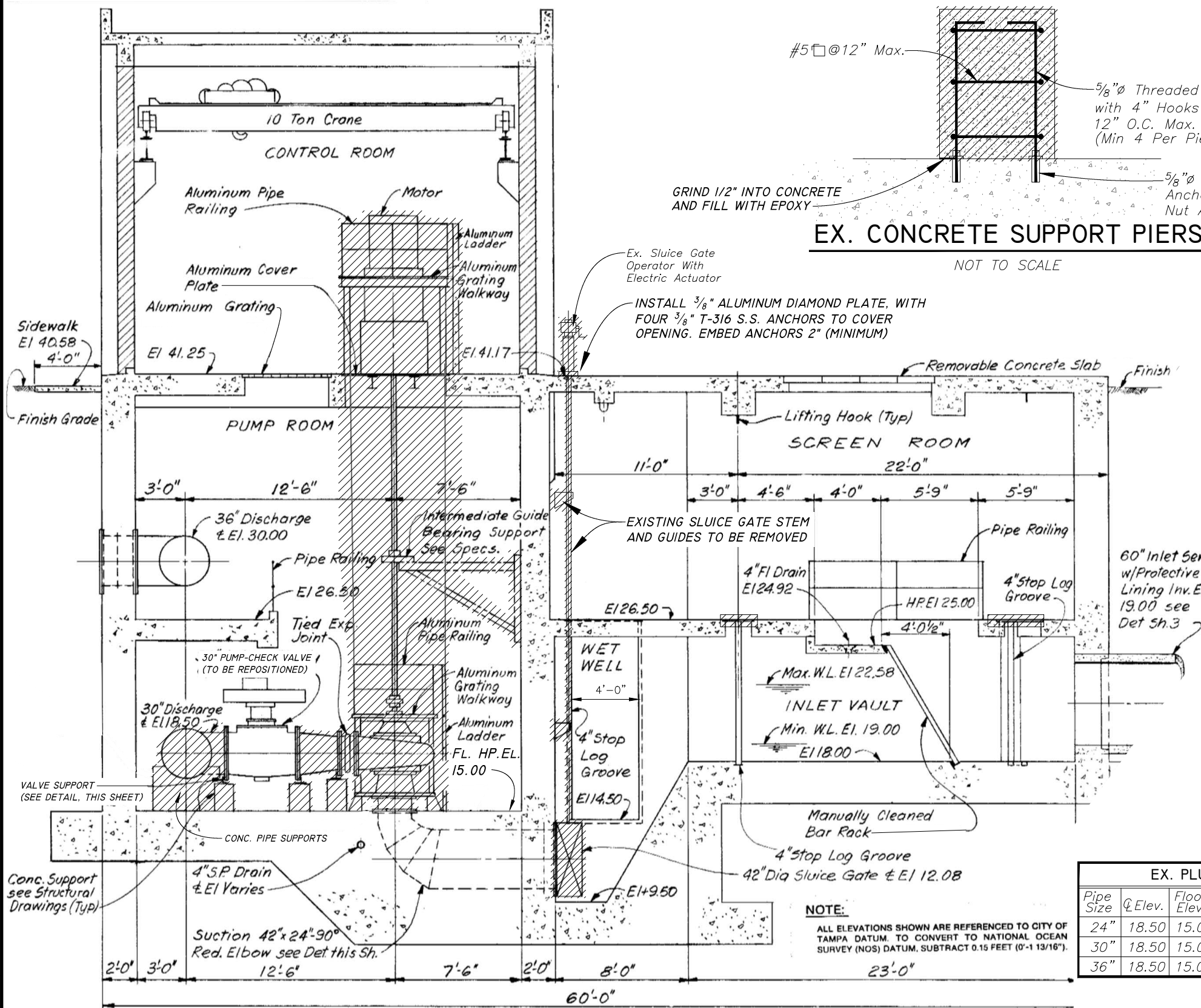
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CKD:  
DATE:

CITY of TAMPA  
WASTEWATER DEPARTMENT

UNIVERSITY PUMPING STATION  
PUMP #1 REPLACEMENT  
DEMOLITION PLAN AND SECTION

SHEET  
5  
OF

User: sst1 - Drawing Name: K:\WasteWater Projects\University P.S. - Pump#1 - Sheets 5-6-8-d.dwg



**EX. PLUG VALVE AND EXPANSION JOINT SUPPORT DIMENSIONS (TO BE FIELD VERIFIED)**

Pipe Size	Q Elev.	Floor Elev.	Location	A	B	C	D	E	W	W <sub>1</sub>	L	H
24"	18.50	15.00	Low Discharge Header	1'-6"	2'-10"	10"	2'-2"	10"	1'-2"	*	3'-2"	1'-8 5/8"
30"	18.50	15.00	Low Discharge Hdr & Pumps	1'-9 3/8"	2'-10"	10"	2'-2"	10"	1'-2"	*	3'-2"	1'-5 1/4"
36"	18.50	15.00	Low Discharge Hdr & Pumps	2'-1"	2'-10"	10"	2'-2"	10"	—	*	3'-2"	1'-1 5/8"

\* Shown For Information Only. Not Included In This Contract

**NOTE:**  
ALL ELEVATIONS SHOWN ARE REFERENCED TO CITY OF TAMPA DATUM. TO CONVERT TO NATIONAL OCEAN SURVEY (NOS) DATUM, SUBTRACT 0.15 FEET (0'-1 13/16").

ITEMS SHOWN HATCHED ARE TO BE REMOVED

JACINTO CARLOS FERRAS, P.E. #49454  
DESIGN DIVISION HEAD  
WASTEWATER DEPARTMENT

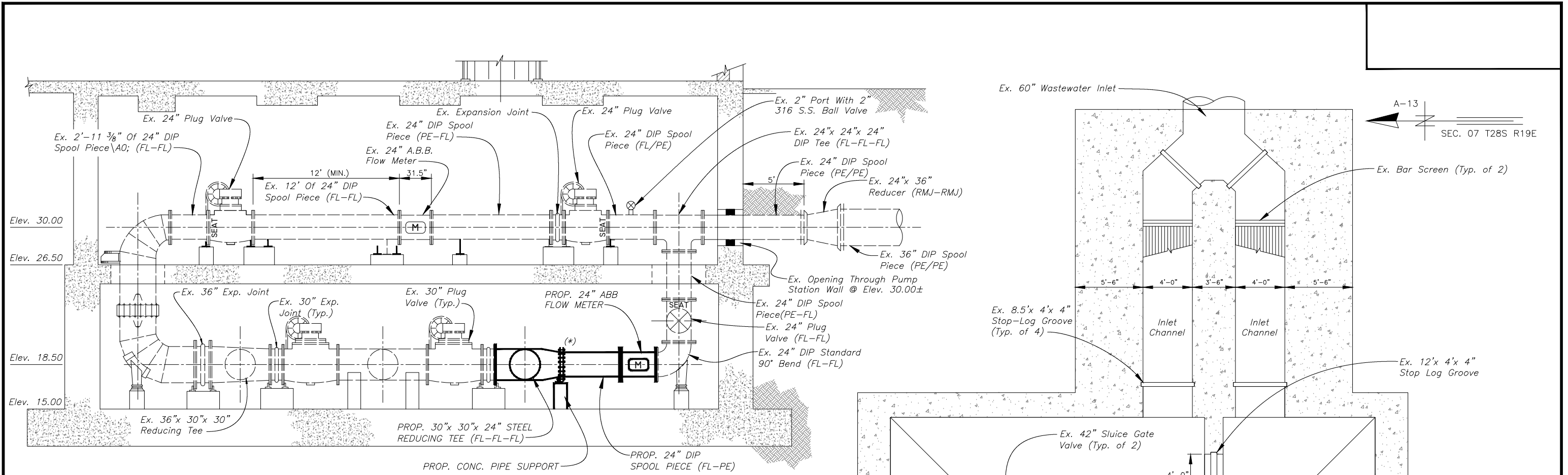
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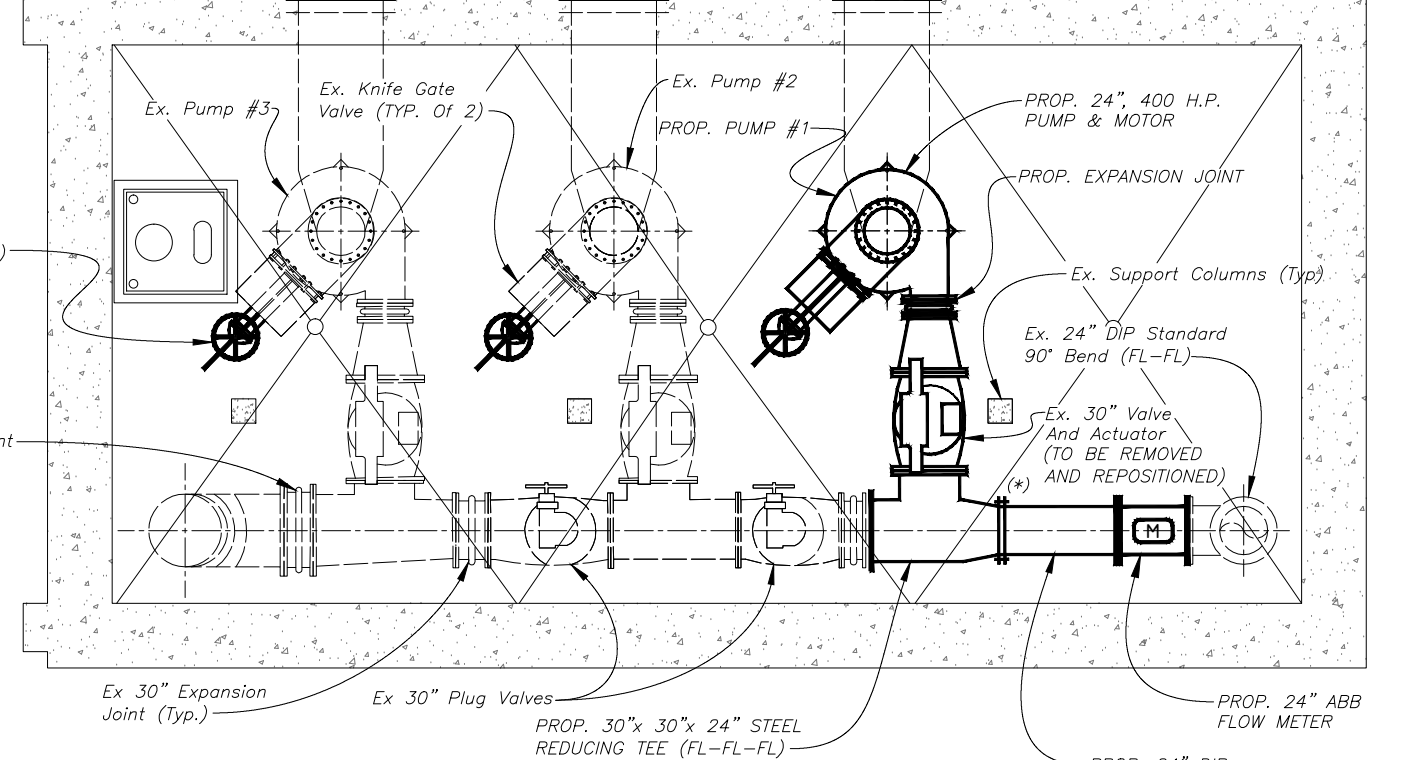
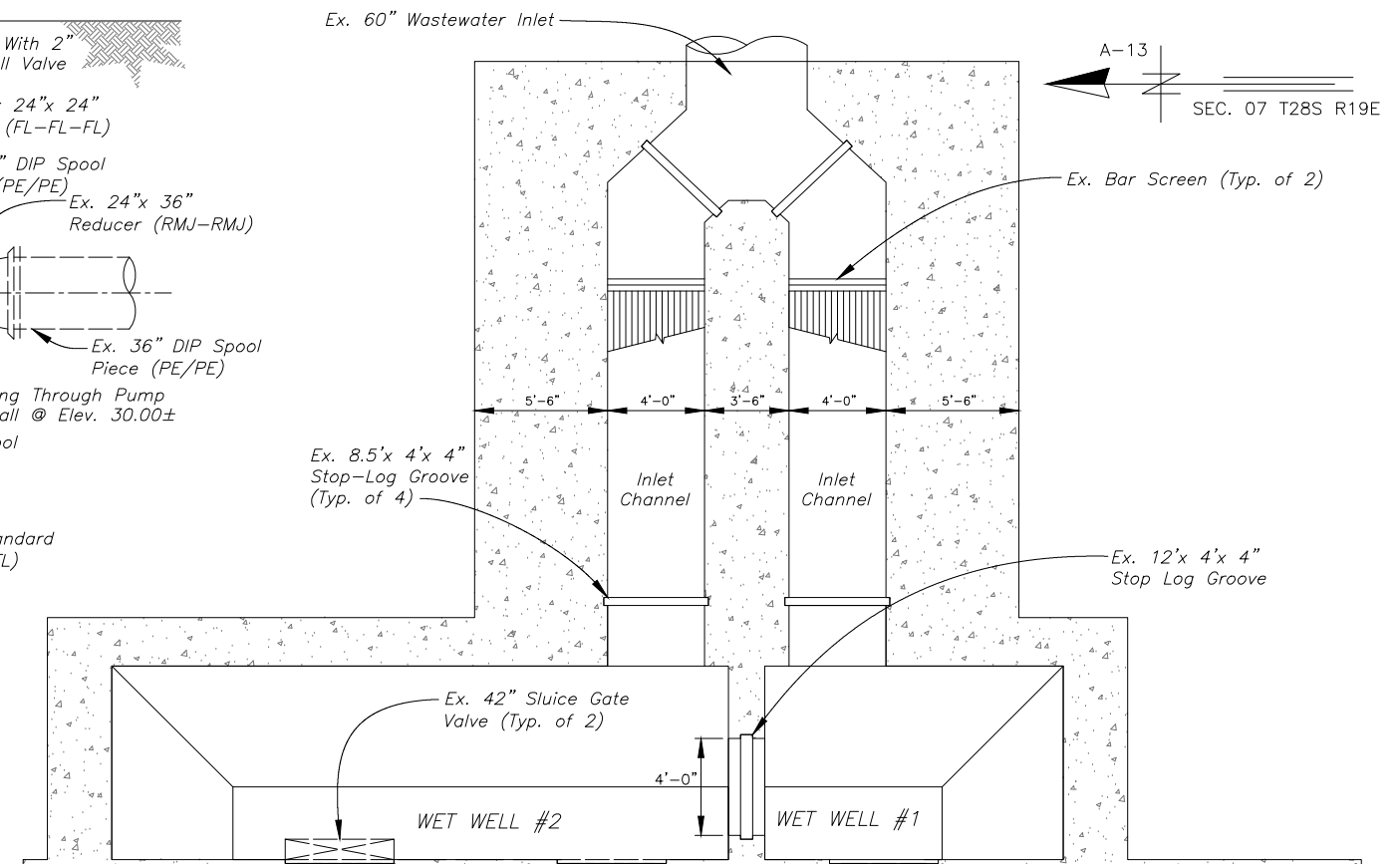
**CITY of TAMPA**  
WASTEWATER DEPARTMENT

**UNIVERSITY PUMPING STATION**  
PUMP #1 REPLACEMENT  
DEMOLITION SECTION

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OF



**SECTION**  
 APPROXIMATE SCALE: 1/8" = 1'-0" (\*) — EBAA MEGA-FLANGE FLANGE ADAPTOR



**PLAN AT EL. 15.00**  
 APPROXIMATE SCALE: 1/8" = 1'-0"



PROP. ELECTRIC KNIFE GATE VALVE ACTUATORS (TYP. OF 3)

**PROPOSED CONFIGURATION FOR KNIFE GATE VALVE ACTUATORS**

Nov 21, 2016 - 2:24pm  
 Layout -

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT
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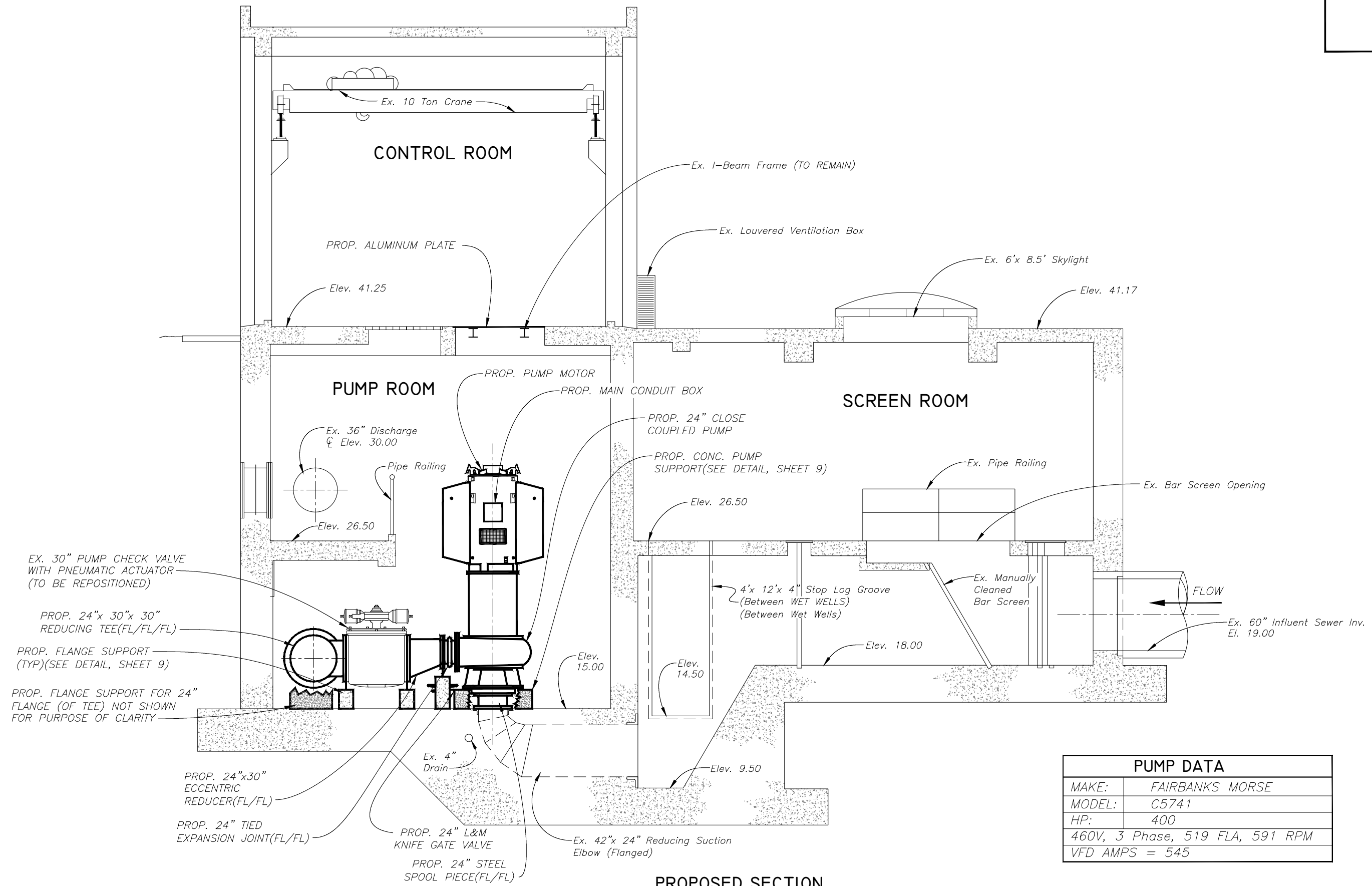
**CITY of TAMPA**  
 WASTEWATER DEPARTMENT

**UNIVERSITY PUMPING STATION  
 PUMP #1 REPLACEMENT  
 PROPOSED PLAN AND SECTION**

SHEET  
**7**  
 OF



User: sst1 Drawing Name: K:\WasteWater Projects\University P's pump #1\Design\Plans\Dratting\UWG\University P.S. - Pump#1 - Sheets 5-6-8-dwg



PUMP DATA	
MAKE:	FAIRBANKS MORSE
MODEL:	C5741
HP:	400
460V, 3 Phase, 519 FLA, 591 RPM	
VFD AMPS = 545	

**PROPOSED SECTION**  
NOT TO SCALE

JACINTO CARLOS FERRAS, P.E. #49454  
DESIGN DIVISION HEAD  
WASTEWATER DEPARTMENT

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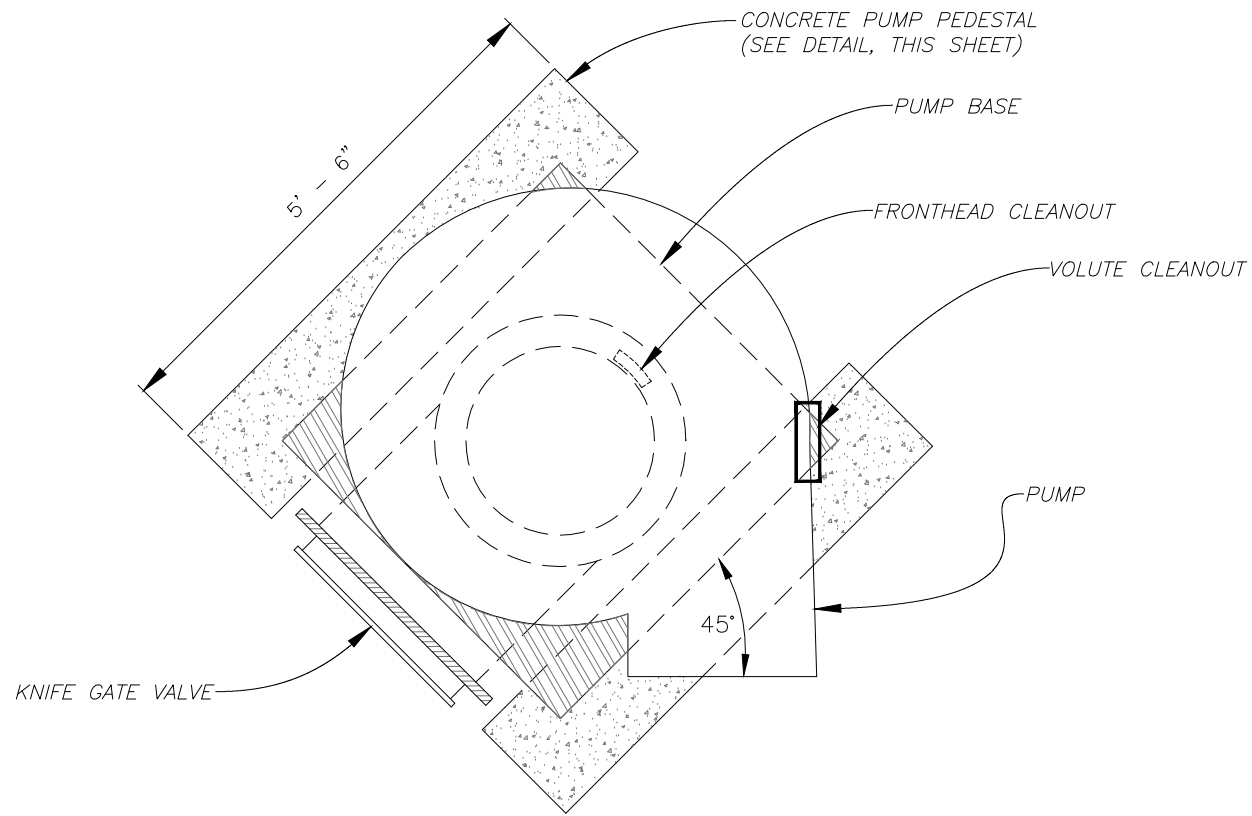
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**CITY of TAMPA**  
WASTEWATER DEPARTMENT

**UNIVERSITY PUMPING STATION**  
**PUMP #1 REPLACEMENT**  
**PROPOSED SECTION**

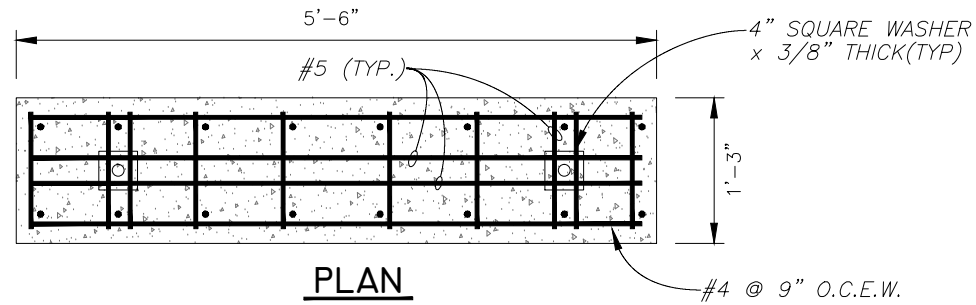
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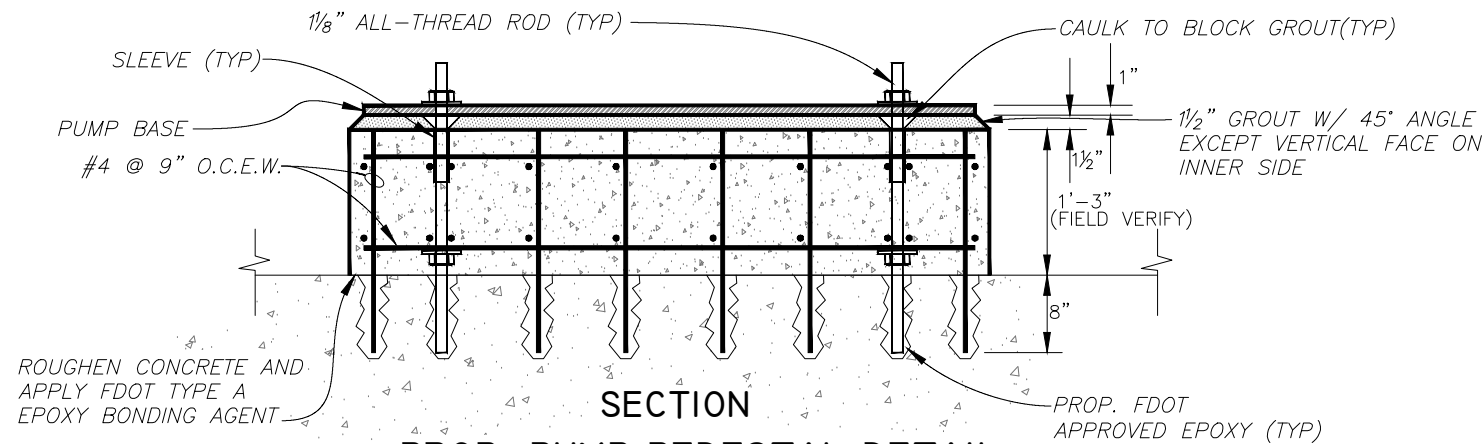


**PROP. PUMP SUPPORT  
PLAN**

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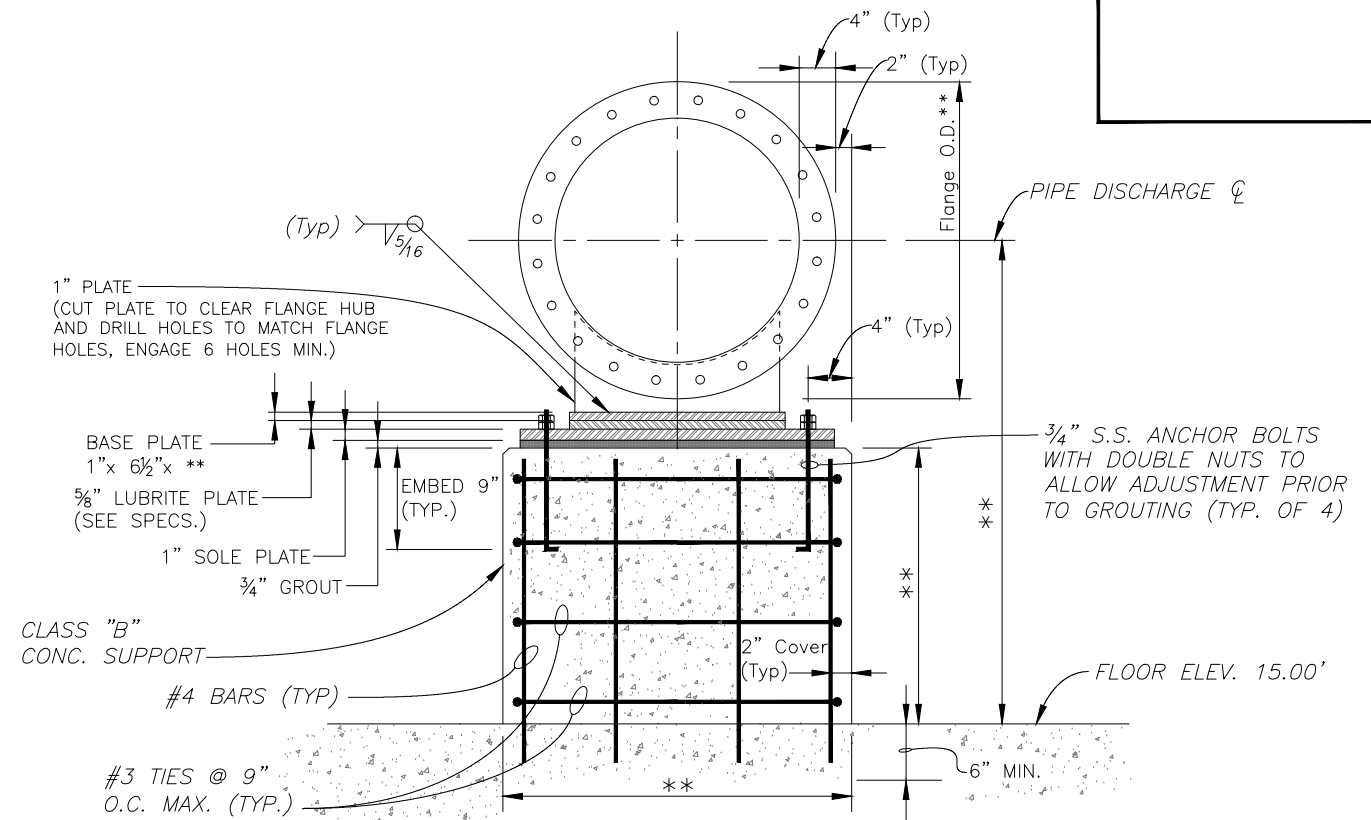


**PLAN**



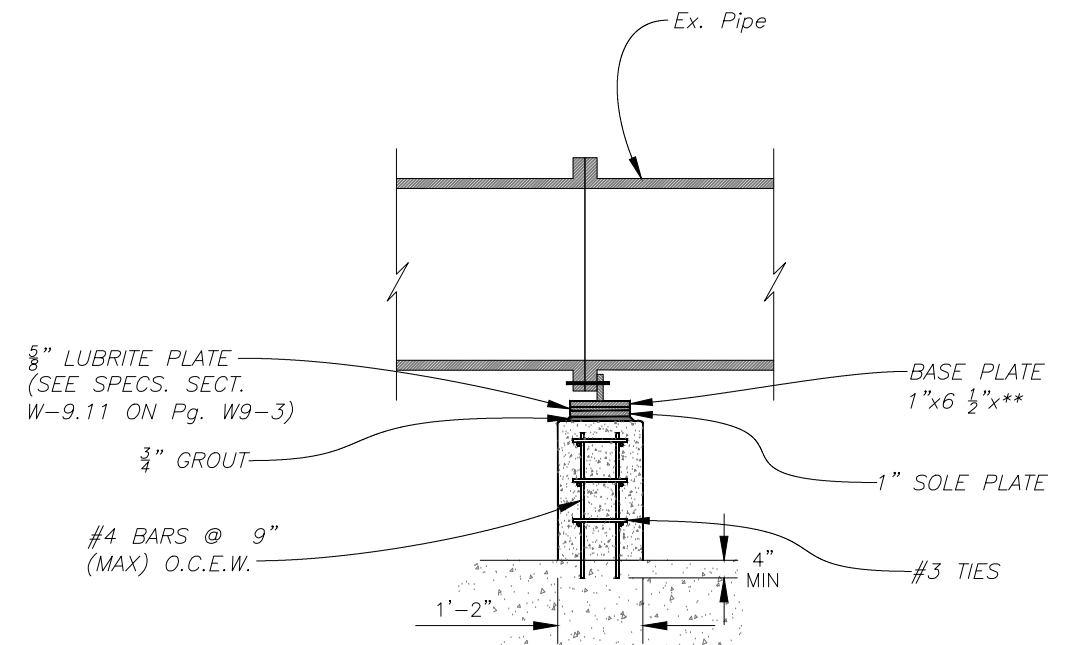
**PROP. PUMP PEDESTAL DETAIL  
SECTION**

NOT TO SCALE



**PROP. FLANGE SUPPORT DETAIL I  
N.T.S.**

\*\* Dimension Dependent on Pipe Diameter



**PROP. FLANGE SUPPORT DETAIL 2**

NOT TO SCALE

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	
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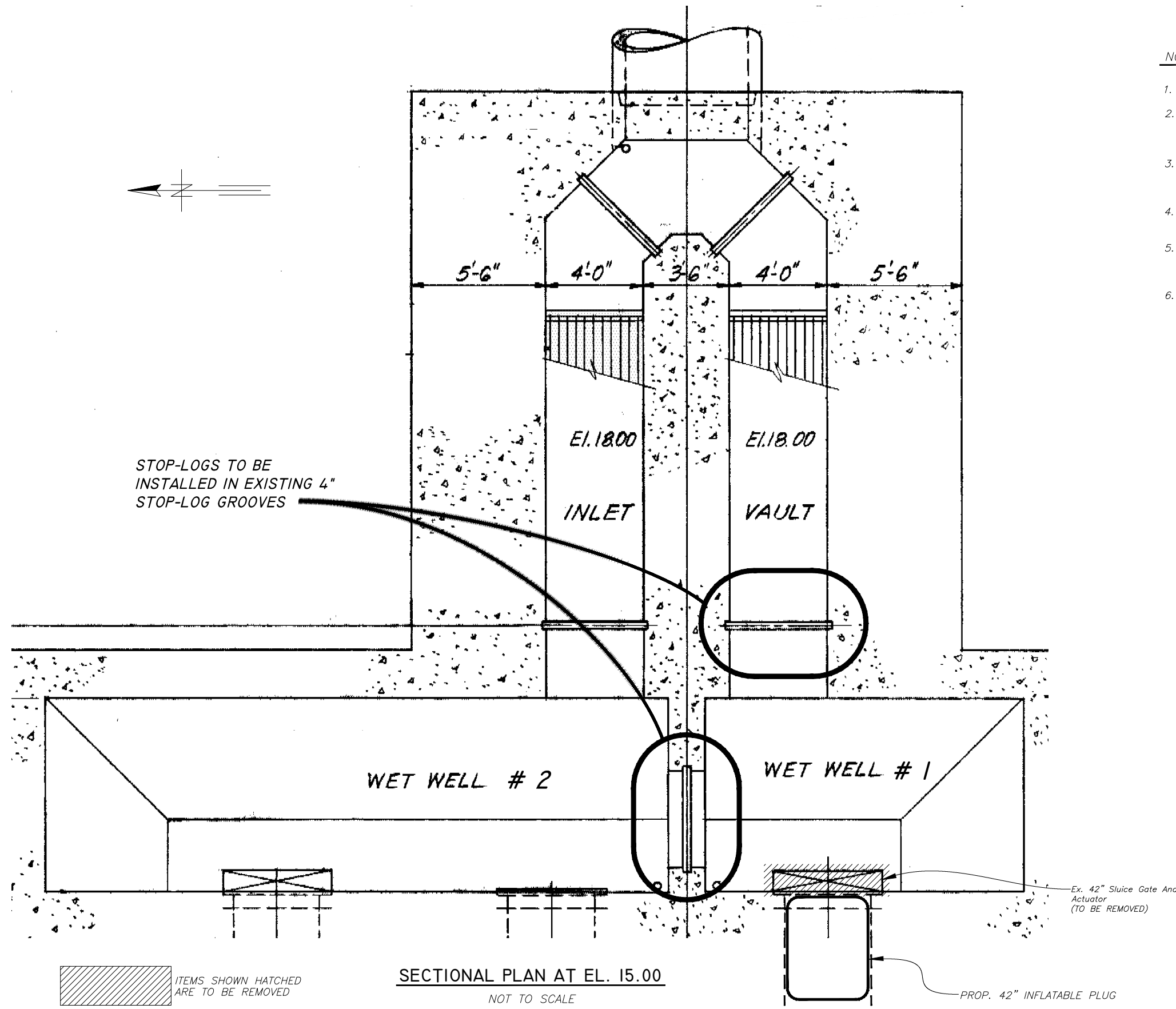
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**CITY of TAMPA**  
WASTEWATER DEPARTMENT

**UNIVERSITY PUMPING STATION  
REHABILITATION  
MISCELLANEOUS PUMP ROOM DETAILS**

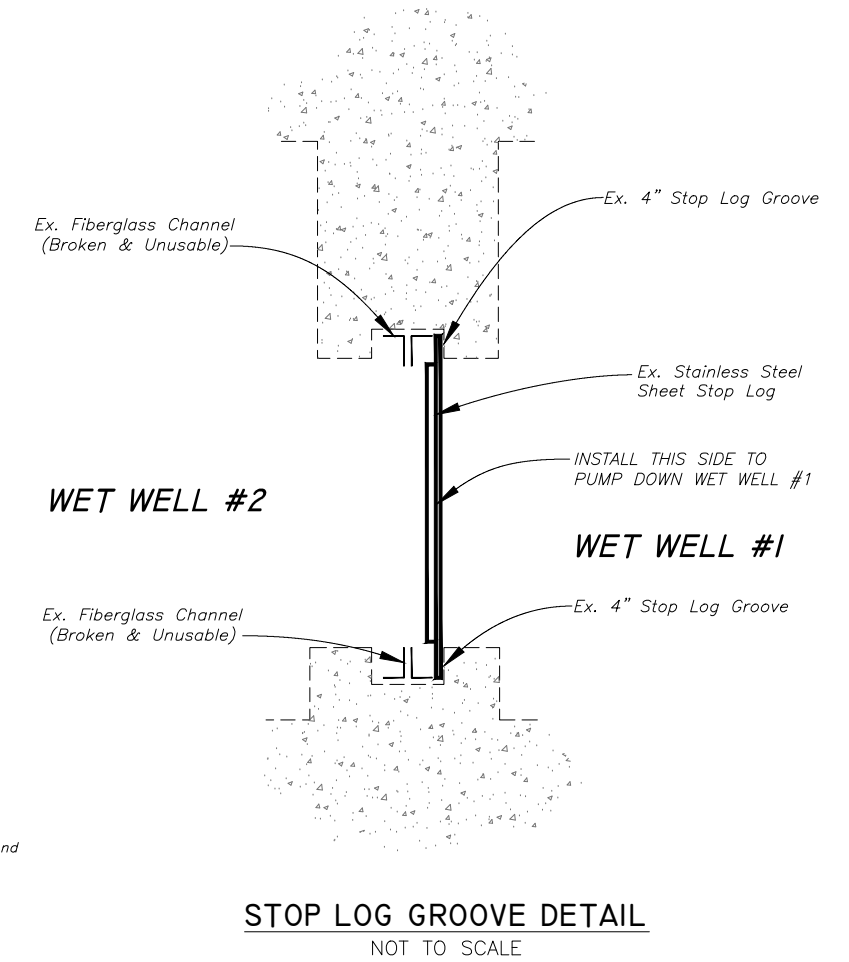
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OF

2016.11.21, 11:30am, 11/21/2016 - 2:30pm, Layout, Nov 21, 2016



**NOTES:**

1. CITY WILL FURNISH THE CONTRACTOR WITH TWO STAINLESS STEEL STOP LOGS.
2. CONTRACTOR TO INSTALL STOP LOGS IN THE WET WELL #1 INLET CHANNEL AND IN BETWEEN WET WELLS PRIOR TO REMOVING EXISTING PUMP #1 IN PUMP ROOM AND INSTALLING 24" KNIFE GATE VALVE.
3. AFTER STOP LOGS HAVE BEEN INSTALLED, CONTRACTOR SHALL INSTALL HYDRAULIC SUMP PUMP IN THE ISOLATED WET WELL #1 IN ORDER TO PUMP WET WELL DOWN AND CATCH ANY WASTEWATER BYPASSING THE STOP LOGS.
4. AFTER WET WELL IS PUMPED DOWN, CONTRACTOR SHALL INSTALL, AND MAINTAIN A 42" INFLATABLE PLUG IN THE PUMP #1 INFLUENT PIPE.
5. INFLATABLE PLUG, HYDRAULIC PUMP AND STOP LOGS MAY BE REMOVED AFTER 24" SPOOL PIECE AND KNIFE GATE VALVE ARE SUCCESSFULLY INSTALLED IN THE PUMP ROOM.
6. OSHA STANDARD SAFETY EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE, AND SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.



**SECTIONAL PLAN AT EL. 15.00**  
NOT TO SCALE

**STOP LOG GROOVE DETAIL**  
NOT TO SCALE

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: J.H.	<b>CITY of TAMPA</b> WASTEWATER DEPARTMENT	<b>UNIVERSITY PUMPING STATION</b> <b>PUMP #1 REPLACEMENT</b> <b>WET WELL ISOLATION DETAILS</b>	SHEET
	3			DRN: BB			10
	2			CKD:			
	1			DATE:			