



Addendum No. 1

To: All Bidders

From: Adam Jackson

Date: April 14, 2023

**RE: Planter's Pointe Lift Station
Thompson Engineering Project No. 22-1101-0257**

The plans and specifications for the above referenced project are hereby revised as follows:

General:

- The bid opening will be April 19, 2023, at 10:00 a.m.

Revised Plan Set:

The following revisions have been issued.

- Sheet C604 has been revised from 16" HDPE pipe to 16" D.I. pipe.
- Sheet C604 call out has been revised to 12'-0" inside diameter precast culvert seal joints with preformed mastic (alternative material, fiberglass must be preapproved by the City of Fairhope.
- Sheet C606 concrete structure notes have been revised to include ¾" White Epoxy Coated Plywood Walls and Ceiling.
- Sheet C606 wet well note has been added "Fiberglass can be used as an alternative. The applicable design standards are the plans, City of Fairhope Standard Specifications for Constructing Sanitary Sewer Facilities and Water Facilities, ASTM D3753, Fiberglass manufacturer's recommendations".

RFI Response Log:

The following clarifications are issued in response to questions and requests for information.

1. On page C602 are we to fill this site to the proposed contour by utility contractor, if so, is there a spec for the fill?
 - Answer – Yes refer to spec 2.05 from the City of Fairhope Standard Specifications for Constructing Sanitary Sewer Facilities and Water Facilities.
2. On page C603 it shows the pump station – force main is this the limit of this phase?
 - Answer - Yes
3. Is there a spec specific to the building and the generator pad?
 - Answer - Refer to Section A on sheet C605 and sheet C607. Refer to the City of Fairhope Standard Specifications for Constructing Sanitary Sewer Facilities and Water Facilities Spec 2.07

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4. Where do we tie in for the hose bib, or is this a new meter?
 - Answer – The City of Fairhope will do the water tap and the hose bib.
5. Are ALDOT permits required?
 - Answer - No
6. Is a generator included in this bid, if so, is there a spec?
 - Answer - Yes
7. Is the interior framing wood or metal? What coating on the plywood?
 - Answer – Refer to sheet C606 concrete structure notes. The interior framing is aluminum that must meet the requirements on sheet C606. The coating on the plywood will be epoxy.
8. Is there a spec on the fiberglass wet well?
 - Answer – See sheet C606 and spec 2.08 in City of Fairhope Standard Specifications for Constructing Sanitary Sewer Facilities and Water Facilities.
9. Why is the 16" HDPE pipe coming out of the ground?
 - Answer – The 16" HDPE pipe is underground. The 16" pipe coming out of the ground is ductile iron pipe.
10. Can T shaped be used instead of Y shaped?
 - Answer – Yes
11. Can I get confirmation on the location of the transformer pad?
 - Answer – Transformer is onsite and installed.
12. Is the MCC one unit like a power wall?
 - Answer – Yes in a panel.
13. Is the MCC in all components being provided?
 - Answer – Yes
14. I need details on the instrument junction box material, size, and purpose.
 - Answer – The City of Fairhope will supply electrical materials.
15. Is the PFR a component of the MCC if not is there a detail on this?
 - Answer - The City of Fairhope supplies the MCC in a complete panel.

Please find the following items attached:

1. Sign in Sheet
2. Material Manifest
3. Revised Sheet C604
4. Revised Sheet C606

The bidders on this project are advised to email a signed copy of this sheet to the office of Thompson Engineering Inc. (mrogers@thompsonengineering.com & ajackson@thompsonengineering.com) prior to Tuesday, April 18, 2023, at 12:00 PM. **A copy of the entire addendum (all 3 pages) must be stapled to**

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the inside front cover of the bid book. The modified bid form (see attached) shall be used. If you have any questions regarding this addendum, please contact our office.

Sincerely,
Thompson Engineering Inc.

Adam C, Jackson P.E.
Team Leader

SIGNED:

Company Name

Contractors Representative

Date

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City of Fairhope
Planter's Pointe Lift Station
Thompson Engineering Project 21-1101-0257
Pre-Bid Meeting 4/4/2023 @ 10:00 am



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No.	Company Name	Contact Name	Contact Information
1	City of Fairhope	Jason Langley	Phone: (251) 278-5130 Email: jason.langley@fairhopeal.gov
2	City of Fairhope	Curtis Cooper	Phone: (251) 279-6231 Email: curtis.cooper@fairhopeal.gov
3	City of Fairhope	Erin Wolfe <i>EW</i>	Phone: (251) 331-2510 Email: erin.wolfe@fairhopeal.gov
4	Thompson Engineering	Matt Rogers <i>MR</i>	Phone: (251) 459-3943 Email: mrogers@thompsonengineering.com
5	Thompson Engineering	Kayla Camp <i>KC</i>	Phone: (251) 665-5456 Email: kcamp@thompsonengineering.com
6	<i>Sycamore Construction</i>	<i>Robert Costantino</i>	Phone: <i>251-234-7984</i> Email: <i>SycamoreINC@bellsouth.net</i>
7	<i>SYCAMORE CONST.</i>	<i>MIKE RAINIER</i>	Phone: <i>670-768-9733</i> Email:
8	<i>City of Fairhope</i>	<i>Craig Brown</i>	Phone: <i>251-620-7002</i> Email: <i>Craig.brown@fairhopeal.gov</i>
9	<i>Hill Brothers Inc.</i>	<i>Samie Montgomery</i>	Phone: <i>251-604-9002</i> Email: <i>Samie@hillbrothersgc.com</i>
10	<i>" " "</i>	<i>Charlie Hill</i>	Phone: <i>251-583-1116</i> Email: <i>charlie@hillbrothersgc.com</i>
11			Phone: Email:



MATERIAL MANIFEST

JOB NAME: PLANTERS POINTE PUBLIX
EQUIPMENT IDENTIFICATION: DUPLEX LIFT STATION EQUIPMENT
ENGINEERING FIRM: THOMPSON
CONTRACTOR: FAIRHOPE UTILITIES
UTILITY PROVIDER: FAIRHOPE UTILITIES
POWER: 3/460/60

1LT COMPONENTS FOR PUMP STATION AS FOLLOWS:

- 2 WILO MODEL FA15.97Z SUBMERSIBLE PUMP, 50HP, 1750RPM,
3/460/60, 50' CORDS, STAINLESS STEEL LIFTING CHAIN
- 2 BASE ELBOWS
- 2 STAINLESS STEEL RAIL SYSTEM
- 1 PRIMEX DUPLEX CONTROL PANEL AS PER FAIRHOPE SPECIFICATIONS
WITH VFD'S AND FLOW MODULATING CONTROLLER
(TO BE SUBMITTED SEPARATELY)
- 1 VEGA RADAR LEVEL SENSOR
- 1 STAINLESS STEEL CABLE HANGER
- 1LT WET-WELL PIPING, SCH10 304 STAINLESS STEEL, 8" FLANGED,
INCLUDES BY-PASS SUCTION LINE, ALUMINUM PASS-THRUS
AND LINK SEALS
- 1LT ABOVE GROUND VALVE ASSEMBLY PIPING, SCH10 304 STAINLESS
STEEL, 8" FLANGED, INCLUDES AVK CAST IRON CHECK & GATE
VALVES, ARI AIR RELEASE VALVES, PRESSURE GAUGE ASSEMBLIES,
BY-PASS CONNECTION AND SS PIPE SUPPORTS
- 2 ANCHOR SCIENTIFIC CONTROL FLOAT, STAINLESS STEEL, 40' CORD
- 1 USF APD300 48" X 72" ALUMINUM HATCH WITH GRATING
- 1 CERTIFIED STARTUP

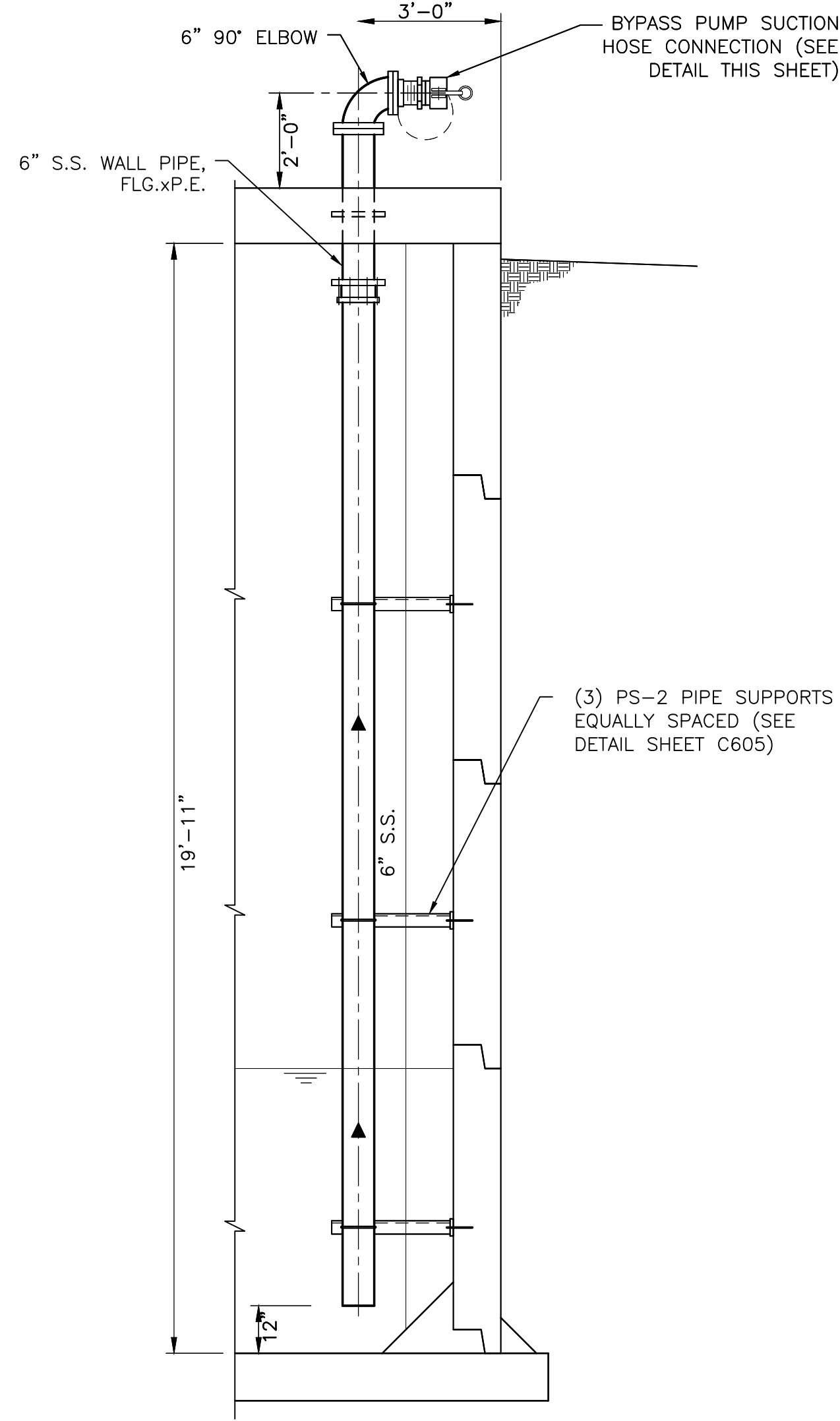
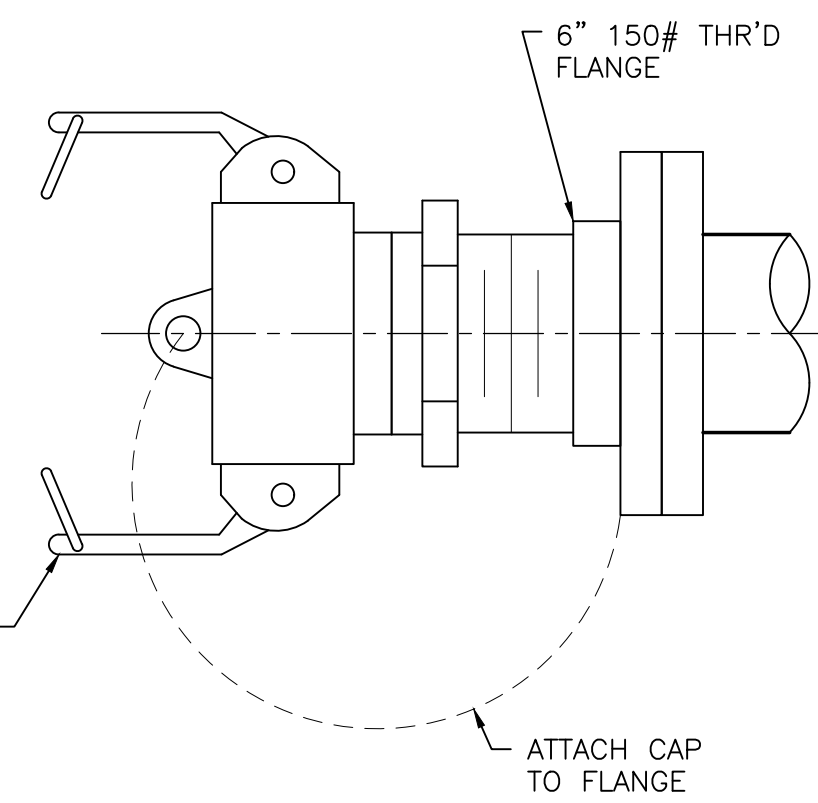
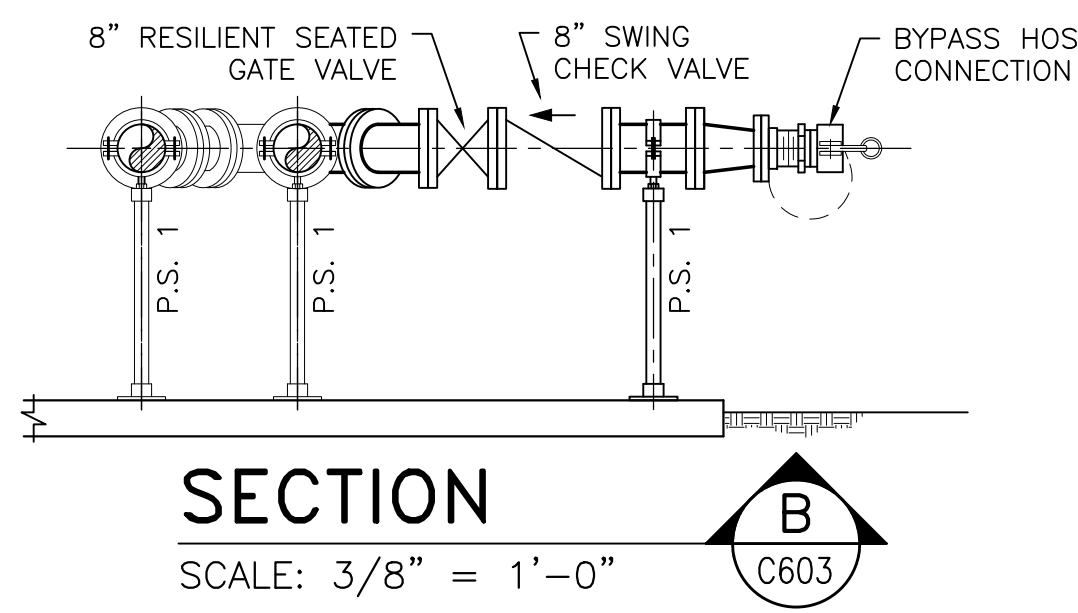
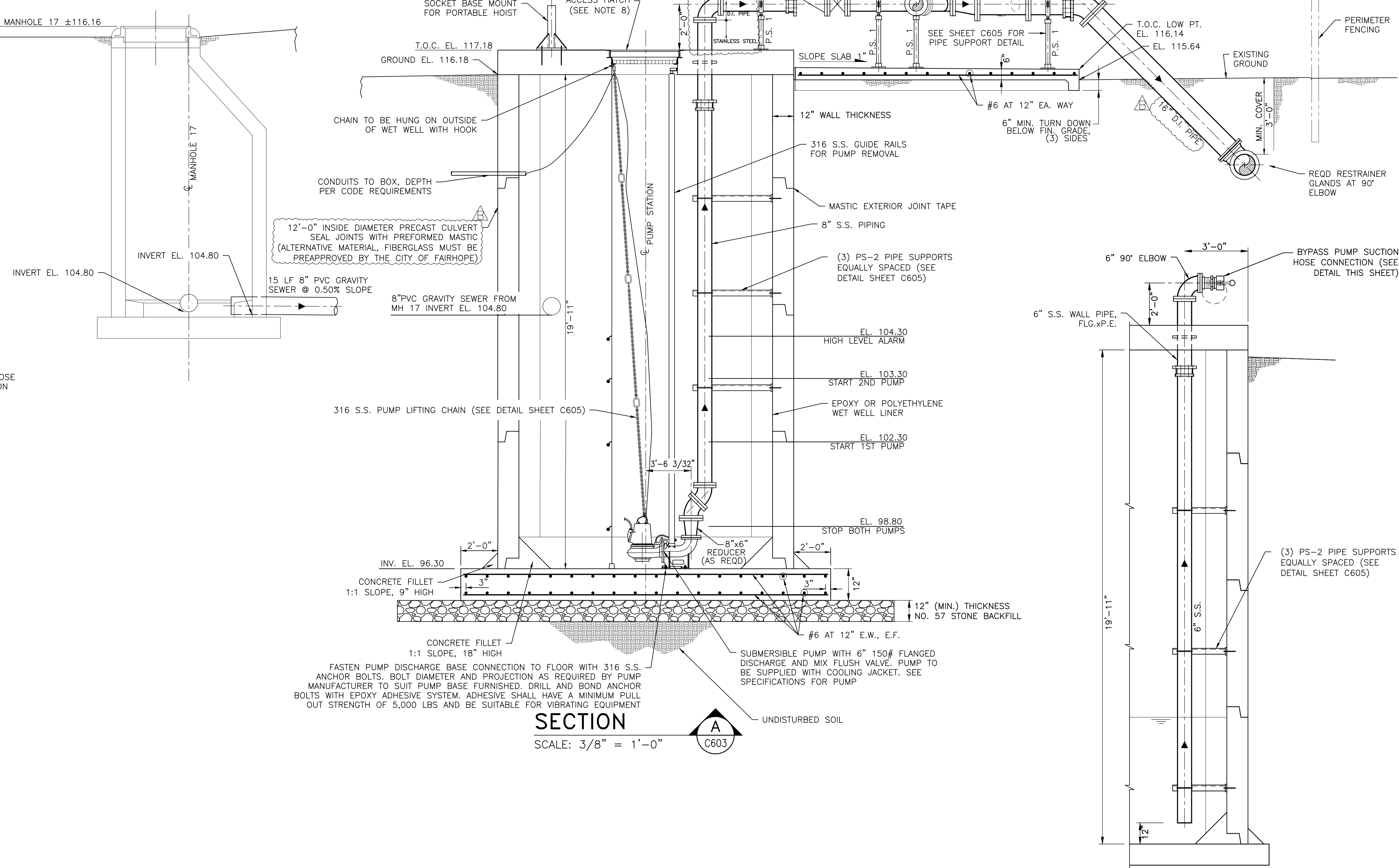
NOTE: ABOVE GROUND PIPING ASSEMBLY COMPONENTS WILL STOP AT THE 8" DISCHARGE WYE AND 45-ELBOW THAT WILL TIE-IN TO THE FORCE MAIN. ALL PIPING FROM THAT POINT FORWARD TO BE PROVIDED BY OTHERS.

VERIFY AVAILABLE POWER

GENERAL NOTES:

- ALL EXPOSED PIPING SHALL BE FLANGED STAINLESS STEEL, SPEC. NO. D-3A.
- ALL BURIED PIPING SHALL BE MECHANICAL JOINT STAINLESS STEEL, SPEC. NO. D-2A. UP TO TIE PT. WITH HDPE FORCE MAIN AS INDICATED. ALL MECHANICAL JOINTS SHALL HAVE MEGALUG TYPE RETAINER GLANDS.
- PUMP ALIGNMENT IN SUMP MAY BE VARIED TO SUIT INSTALLATION AND SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- FLOAT SWITCHES SHALL BE "CONSOLIDATED ELECTRIC CO." MODEL 9G (3 EA.) FASTENED TO 1" DIA. SCH. 40, TYPE 316 S.S. PIPE, OR 3/4" DIA. STAINLESS STEEL CABLE (AS DIRECTED BY OWNER) AT ELEVATIONS INDICATED. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
- ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH ASPHALT MASTIC MEETING ASTM SPECIFICATION D-491.
- VALVE SIZES SHALL BE THE SAME AS DISCHARGE PIPING.
- ALL MISCELLANEOUS METAL IN WET WELL SHALL BE TYPE 6063-T6 ALUMINUM OR 316 S.S.
- ALUMINUM ACCESS COVER SHALL BE EQUIPPED WITH AN EXTERNALLY OPERATED LOCKING DEVICE TO PREVENT OPENING OF COVER BY UNAUTHORIZED PERSON. LOCKING DEVICE IS TO BE KEVED. COVER SHALL BE MINIMUM 1/4" THICK DIAMOND PATTERN ALUMINUM REINFORCED TO SUPPORT A LIVE LOAD OF 150# PSF. MINIMUM HINGES, BOLTS, AND FASTENERS SHALL BE STAINLESS STEEL. ACCESS COVER SHALL BE EQUIPPED WITH GRATING, FLYGT "SAFE-HATCH" OR APPROVED EQUAL TO PROVIDE FOR VISUAL INSPECTION OF WET WELL WITH FALL-THROUGH PROTECTION. THE ACCESS COVER SHALL HAVE A POSITIVE LOCKING ARM TO HOLD THE DOOR IN AN OPEN POSITION WHEN NECESSARY. CONSTRUCTION HINGES SHALL BE TAMPER-PROOF.
- ALL ANCHOR BOLTS INSIDE OF WET WELL TO BE 316 S.S.
- ALL OUTSIDE ANCHOR BOLTS TO BE CARBON STEEL HILTI HAS ROD SET WITH HILTI HIT HY 150 INJECTION ADHESIVE. SEE DETAILS FOR ROD SIZES. COAT EXPOSED AREAS PER SPECIFICATIONS.
- HILTI HAS ROD EMBEDMENTS: (S.S. AND C.S. RODS)
 - 1/2" DIA. ROD 4 1/4" EMBED
 - 5/8" DIA. ROD 5" EMBED
 - 5/8" DIA. ROD 6 5/8" EMBED

EXISTING MANHOLE 17 ±116.16

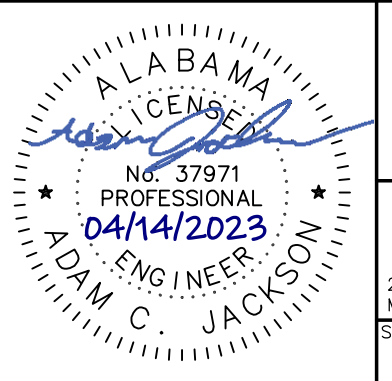


BYPASS HOSE CONNECTION DETAIL
N.T.S.

SECTION C
SCALE: 3/8" = 1'-0"
C603

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

REVISION NO.	DESCRIPTION	DATE	BY:
A	100% SUBMITTAL	3/16/23	KMC
B	REVISED PER ADDENDUM 1	4/14/23	KMC



CITY OF FAIRHOPE UTILITIES
FAIRHOPE, ALABAMA

thompson ENGINEERING

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MOBILE, ALABAMA 36606

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FAX: (251) 666-6422

SCALE: 1:1
PLOT SCALE: 1:1
DRAWN BY: KMC
CHECKED BY: EHB
APPROVED BY: MCR

PLANTER'S POINTE LIFT STATION

PUMP STATION PLAN, SECTIONS, AND NOTES

DATE: APRIL 2023
JOB NO.: 21-1101-0257
DRAWING NO.: C604
REVISION NO.: B

Tag No.: P-1 & P-2
 Service: Sewage
 Location: Planters Pointe Shopping Center Pumping Station
 Type of Pump: End Suction Centrifugal - Submersible Pump
 Solids Handling Capability: 3" minimum diameter spherical solid
 Materials of Construction:

1. Casing – Gray cast iron Class 35B
2. All Exposed Bolts & Nuts – 303/304 stainless steel
3. Pump Exterior Coating - Factory applied primer and finish coat Epoxy Paint to suit pumped media
4. Shaft & Sleeve - Stainless Steel
5. Impeller – Ductile Iron
6. O-Rings – Buna-N and Fluorocarbon (DuPont Viton or Equivalent)
7. Upper Bearing - Single row ball bearing/ permanent lubrication
8. Lower Bearing - Single row ball bearing/ permanent lubrication
9. Seal – Tandem Mechanical Oil lubrication Upper, self-lubricating lower
10. Guide Rails - Type 316 Stainless Steel

Installation: The pump shall have a 6" cast iron quick-disconnect discharge elbow permanently mounted to the wet well floor. The elbow shall include 316 stainless steel guide-rail guides to allow removal and replacement of pump without personnel entering the wet well. The guide rails shall be furnished by the contractor and the brackets furnished by the pump supplier.

- Drive Motor:
1. 50 horsepower, 460V, 60Hz, 3 phase
 2. Design –squirrel-cage, induction
 3. NEMA Design – Type B
 4. Windings – Copper, Class H Insulated rated for 356 °F / 180 °C
 5. Service Factor – 1.15 continuous
 6. Design Temperature – 40°C ambient
 7. Non-overloading at any point on pump curve
 8. Explosion Proof
 9. Air filled or oil motor, may have closed, integral, liquid cooling system.
 10. Motor Terminal Board
 11. Stator shall be heat-shrink fitted.
 12. Motor Winding Over temperature switches embedded in windings.
 13. Seal Failure Moisture Probe

Guaranteed Performance:

	GPM	TDH	RPM	EFF
Design:	1650	67'	1770	68%

Warranty: The pump manufacturer shall warrant the unit being supplied to the Owner against defects in workmanship and material for a period of two (2) years unlimited hours.

Experience: Pump manufacturer's direct sales and service representative shall have local experience directly related to the proposed pumps and adjoining equipment.

Manufacturer(s): Pumps complying with the specified parameters and as included on the Owner's list of approved pump manufacturers shall be acceptable.

ACCEPTABLE PUMP EQUIVALENTS		
MANUFACTURER	MODEL	REMARKS
Wilo	EMU FA15.97Z	Curve FA15.97Z 1740 Impeller 10.63"

CONCRETE STRUCTURE NOTES:

Modular concrete building shall be solid concrete design with 4" walls and steel rebar reinforced high strength concrete. The standard exterior finish is exposed aggregate. Building shall be designed to be bulletproof to 30.06 rifle from 15 feet per UL-752, provide 2-Hour fire rating per UBC, and be virtually waterproof and maintenance free with internal seals. Building shall be 8' wide by 8' long by 10' 7" high outside dimensions and as follows:

- Four (4) Cast-In Lift Shackles
- Internal (Non-Exposed) Structural Seals
- 1/4" per Foot Roof Slope in All Four Directions with Rubber Membrane Secondary Roof Seal and 2" Roof Overhang on all Four Sides
- 150 PSF Floor Load Uniformly Distributed
- 150 MPH Wind Load
- 3/4" White Epoxy Coated Plywood Walls and Ceiling
- R-11 Walls and Floor, R-19 Ceiling
- One (1) 3' x 7' Door, Exterior 18 Gauge Galvanized and Painted Steel Door with Cast-In 16 Gauge Galvanized and Painted Steel Door Frame with Non-Corrosive Hinges
- Panic Hardware with Lever Lockset
- Aluminum Threshold and Door Sweep
- Weather-stripping
- Hydraulic Door Closer with Hold Open
- 2" Aluminum Drip Shield

Electrical System

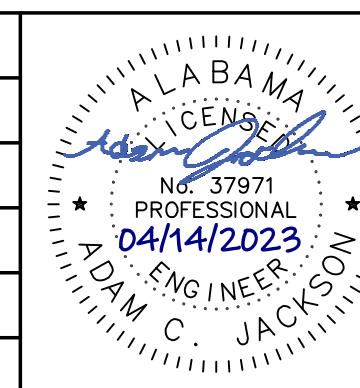
- 30 Circuit Primary Load Center, 120/240 VAC Single Phase, 60 Hz Operation and 100 Amp Main Breaker
- Two (2) 4' Dual Bulb LED Interior Light Fixtures with Switch and Lenses
- One (1) 36 Watt LED Exterior Light Fixture with Photocell
- One (1) Emergency Light with EXIT Sign
- Six (6) Duplex Convenience Receptacles - Wall Mounted
- One (1) Exterior Duplex GFCI Receptacle
- Required Conduit, Set Screw Conduit Fittings, Breakers, Wire, and Clamps
- Wall and Floor block out as required for cable entrances.

WET WELL NOTES:

- FIBERGLASS CAN BE USED AS AN ALTERNATIVE. THE APPLICABLE DESIGN STANDARDS ARE THE PLANS, CITY OF FAIRHOPE STANDARD SPECIFICATIONS FOR CONSTRUCTING SANITARY SEWER FACILITIES AND WATER FACILITIES, ASTM D3753, FIBERGLASS MANUFACTURER'S RECOMMENDATIONS.

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1:1 KMC EHB MCR APRIL 2023 21-1101-0257 C606 B

PLANTER'S POINTE LIFT STATION

PUMP SPECIFICATIONS &
 CONCRETE STRUCTURE NOTES