ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

September 10, 2024

Please find the following addendum to the below mentioned BID.

Addendum No.: 2

Bid#: 24-39-2

Project Name: Meadow Lake New Storage Tank

Bid Due Date: **September 18, 2024**

Receipt of this addendum shall be acknowledged by inserting its number and date in the space provided on the Proposal.

GENERAL INFORMATION:

1. Non-mandatory pre-bid was conducted on August 29, 2024. A sign- in sheet is included in this addendum.

DRAWINGS:

1. **Drawing Sheet 4:**
   a. **Add** the following note: "7a. A location for the delivery of the salvaged equipment will be within a 50-mile radius of the project site and will be located within St. Tammany Parish. Contractor shall include all rigging, equipment, and labor costs required to load, transport,and unload the tank and other equipment in his bid."

2. **Drawing Sheet 5:**
   a. **Replace** Drawing Sheet 5- "Meadow Lake Site Plan" with Drawing Sheet 5 - "Meadow Lake Site Plan – Addendum No. 2".

SPECIFICATIONS:

1. Section 16500, Pump Control Panel
    a. **Delete** this section and Replace with: "16500 – Pump Control Panel – Addendum No. 2".

QUESTIONS AND ANSWERS

1. Question: Drawing Sheet # 2. Note # 5. Vibration Control. Is it the intent that the contractor monitor vibration at the site during work hours? Monitoring vibrations while pile driving is standard, but not for construction equipment and vehicle traffic. Please be more specific. *Answer: The intent is that the vibration be monitored during pile driving operations*.
2. Question: Sheet 4. Note #7. Licensed Arborist. If we are removing trees and brush from site, do we really need an arborist? *Answer: A licensed arborist will not be required for removing brush and trees from the site. The Contractor must coordinate this work with the inspector prior to tree removal*.
3. Question: Sheet # 4. Note # 7. Hydro tank and equipment etc…. Please provide an address where we are to deliver the equipment, and also will you have a crane to unload tank? *Answer: An address cannot be provided at this time. The bidder should include the cost of salvaging the tank. This cost should include all rigging, equipment and labor required to load and unload the tank at a location designated by the Owner. The location will be within a 50-mile radius of the project site and will be located within St. Tammany Parish. Location will be determined at the pre-construction meeting.*
4. Question: Will the parish provide the water for testing of the new storage tank? If not, how much will you charge for the water? *Answer: The Parish will provide the water for testing the new storage tank. There will be no charge for the water*.

5. Question: Roadway Access to Site. It looks like the road width is about 20ft wide. In order to get equipment and materials in and out of the site, all trees branches etc… will have to be removed all vegetation 20ft wide x 15ft high in the easement. *Answer: It is understood that vegetation that obstructs access to the site within the access road must be removed to allow access for construction equipment and to allow for material deliveries. The removal must be limited to the 20-foot-wide x 15-foot-high corridor. This work must be closely coordinated with the construction inspector and the Owner.*
6. Question: Who installs the proposed utility transformer? (Ref. Sheet E-3) *Answer: Contractor shall install the concrete pad and all primary and secondary conduits into the slab. Coordinate with Entergy for exact pad dimensions and construction requirements.*
7. Question: Who installs primary conduits and conductors? (Ref. Sheet E-3) *Answer: Contractor shall provide and install (2) 4" PVC conduits at 48" below grade minimum. Each conduit shall have pull strings. Stub up conduits in primary window opening of transformer pad. At existing transformer, tunnel under existing foundation and stub into primary window opening at existing transformer. Entergy will provide and install primary conductors and make medium voltage terminations at the transformers*.
8. Question: We will be crossing a fence with primary. Where will the utility transformer be located? (Ref. Sheet E-5). *Answer: The proposed utility transformer shall be located inside the new fence. Coordinate exact location on site with Engineer and utility company. Verify location of all other utility lines and install proposed transformer to not interfere with other utilities*.

ATTACHMENTS:

Pre-bid Sign-in Sheet

Specification Section 16500 – "Pump Control Panel – Addendum No. 2".

Drawing Sheet 5- "Meadow Lake – Site Plan - Addendum No. 2".

<< End of Addendum 2 >>

St. Tammany Parish Government
Office Complex, 21454 Koop Dr.
Mandeville, LA 70471

Non-Mandatory Pre-Bid Sign-In Sheet

August 29, 2024; 2:00 PM

Meadow Lake New Storage Tank; BID No.: 24-39-2

Page:

Name	Company	Email	Phone
BOB Moeinian	STP Gov.	BMoeinian@STP.gov	985-893-1717
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PUMP CONTROL PANEL
SECTION 16500
ADDENDUM NO. 2

PART I: GENERAL

1.01 The Requirement

A. General: The CONTRACTOR shall furnish, install, and place into service a pump control panel (CP-201) furnished by the System Supplier through the pump supplier.

B. System Supplier: Due to the critical nature of the system, the complete pump system and controls panel shall be furnished and warranted by a single supplier.

One Responsible Supplier (System Supplier): The system described herein, shall be furnished by a single supplier designated as the System Supplier. The System Supplier shall be regularly engaged in the business of system integration for municipal water projects, and be familiar with all aspects of fully automated process control systems. The responsibility for performance to the specification in its entirety shall not be split up amongst individual suppliers of components comprising the system, but must be assumed solely by the supplier of the system. The System Supplier shall furnish the Owner with program implementation and customization. In addition, the System Supplier shall furnish schematics, wiring diagrams for the system components, interconnection schematics, and field point to point wiring diagrams showing all connections to each individual piece of equipment within the system. The System Supplier shall be a *Certified Member* of the Control Systems Integration Association (CSIA) and evidence of certification shall be provided.

1.02 Submittals

The Pump Control Panel manufacturer shall provide the following documents to the engineer for review.

- Bills of Material
- Elevation and Base Plan drawings
- Wiring diagrams
- Catalog cut-sheets
- Certified Factory Test results
- Spare parts list
- 1-year warranty for all electrical components, from date of pump station acceptance
- CSIA *Certified Member* certification

PART II: MATERIALS

2.01 Pump Control Panel

A. General Requirements

Furnish and install all equipment as shown on drawings in a U.L. 508 listed control panel, as indicated on drawings. Doors shall be hinged on the same side and shall open to greater than 90 degrees. Enclosure exterior shall be painted “ANSI 61 Gray”. Interior color including front and back of all hinged dead front doors, separation barriers and mounting backpans shall be white. The painting process shall include five stages of metal preparation using dip tanks as follows: 1) Alkaline cleaner, 2) Clear water rinse, 3) Iron phosphate application, 4) Clear water rinse, and 5) Inhibitive rinse to seal phosphated surfaces. Finish shall be polyester dry powder, electrostatically applied and baked on at 400 degrees Fahrenheit for a minimum of 15 minutes.

The main circuit breaker, pump circuit breakers, and all wiring shall be located behind an interior dead front doors. Interlocks and circuit breaker operation shall be possible without opening the dead front door. Breaker cutouts for breaker toggle protrusion shall be supplied, to eliminate exposure to hazardous potentials. A physical lockout device shall be supplied on each motor circuit breaker. Lightning/surge protection and PFR power fail relay shall be furnished to protect the panel equipment from lightning, loss of power or utility power surges. Provide GFCI receptacle, intrusion switch and LED light with door activated switch in each panel section. All bussing and wire shall be copper. All wire shall be stranded with locking spade pressure connectors and labeled with clip-on permanent plastic wire markers. All circuit breakers and dead-front mounted devices (lights and switches) shall be equipped with custom engraved phenolic nameplates.

B. Terminal and Distribution Blocks

Distribution blocks shall be furnished and installed as required for "fan-out" of control power and other 120V sources within the enclosure. The blocks shall be rated 300V at a minimum of 20 amperes and sized for the conductors served.

C. Circuit Breakers

All 480 volt circuit breakers shall have minimum interrupting capacities at 35,000 amperes. All 120 volt breakers shall be minimally rated at 4,000 amperes interrupting capacity. Circuit breakers shall be of the indicating type, providing ON, OFF and TRIPPED positions of the operating handle. Circuit breakers shall be quick-make, quick-break, with a thermal-magnetic action, except when protecting motor feeders where motor circuit protector (MCP) breakers may be used. Circuit breakers shall be the bolted on type. The use of tandem or dual circuit breakers in a normal single- pole space to provide the number of poles or spaces specified is not acceptable. All multiple-pole circuit breakers shall be designed so that an overload on one pole automatically causes all poles to open. Circuit breakers shall meet the requirements of UL and NEMA AB l.. All circuit breakers shall be heavy duty molded case circuit breakers conforming to Federal specification W-C-375B and shall be UL listed.

D. Motor Control

Provide each motor with a suitable controller and devices that will perform the functions as specified for their respective motors. Controllers shall conform to the applicable requirements of NEMA ICS, ANSI C19.1, the NEC, and UL. Anticipated horsepower ratings are shown on the contract documents. This information is for guidance only and does not limit the equipment size. When motors furnished differ from the expected ratings indicated, make the necessary adjustments to wiring, conduit, disconnect devices, branch circuit protection, and other affected material or equipment to accommodate the motors actually installed, at no additional cost to the Owner.

Each motor control system shall be equipped with a hand-off-auto control switch, indicating lights, elapsed time meter, motor starter and 3-phase pump current monitoring. Control switches and indicating lights shall be U.L. listed oil-tight devices rated heavy duty.

Elapsed running time meter for recording total elapsed running time for each motor shall be six digit, non-reset, recording in hours and tenths. Meters shall be mounted to dead front door with stainless steel machine screws. Sheet metal screws will not be acceptable.

E. Nameplates

Nameplates shall be black phenolic with custom white lettering. Nameplates shall be stainless steel screw mounted. Sheet metal screws will not be acceptable. Glue type will not be acceptable.

F. Control Power Transformer

Transformer shall be furnished with primary and secondary fusing. Transformer shall be encapsulated with electrical grade epoxy and silica sand to completely seal the core and coils from moisture and contaminants. Transformer shall be designed for quiet operation, 180 deg. C insulation system standard with 115 deg. C temperature rise for longer, more reliable life. Transformer shall be made in U.S.A. and meet or exceed all applicable NEMA, ANSI, OSHA, UL and CSA requirements.

G. Panelboard

Panelboard shall be circuit breaker type custom constructed to utilize minimum enclosure space with breakers as shown. Circuit breakers shall be bolted on type. The panelboard shall be furnished with custom phenolic nameplates. The panelboard transformer shall be dry type construction sized as shown on the plans with primary breaker protection.

H. Panel Lights

Furnish and install push-to-test lights to indicate status and alarm conditions locally as shown on drawings. Custom engraved phenolic nameplates shall specify each light's function. Lights shall be wired as shown on drawings. Panel lights shall be full voltage.

I. Push-buttons and Selector Switches

Furnish and install push-buttons and selector switches as shown on drawings. Custom engraved phenolic nameplates shall specify each switches function. Switches shall be wired as shown on drawings. Switches shall be full voltage.

J. Receptacles, Duplex

Receptacles shall be of specification grade and of NEMA configuration and rated 2 pole, 3 wire grounding, 20 amperes, 125 volts. Bases shall be of ivory phenolic composition. Wire terminals shall be suitable for 10 AWG wire and shall be screw type. Receptacles shall be U.L. listed. The receptacles shall have corrosion resistant conducting parts of nickel-plated brass and other metal parts of stainless steel. All external and dead front receptacles shall be installed on ground fault interrupter circuits "GFCI".

K. Relays, Control

Control relays shall have two form-C contacts (minimum) on each relay. Provide relay energized neon lamp (inside relay case).

L. Relays, Power Fail

The power fail relay shall continuously monitor the three phases for power loss, low voltage, phase loss, phase reversal and have automatic reset. The power fail monitor shall have a drop-out voltage adjustment and a failure indicating LED.

M. Relays, Time Delay

Time delay relays shall be solid state relays with a timer adjustable over the range 1 to 60 seconds unless other ranges are indicated or required. Provide LED relay energized indicator lamp.

PART III: QUALITY ASSURANCE

3.01 Pump Control Panel Supplier Responsibility

In order to assume electrical and control system responsibility, the above specified Pump Control Panel shall be furnished by the pump supplier.

3.02 Warranty

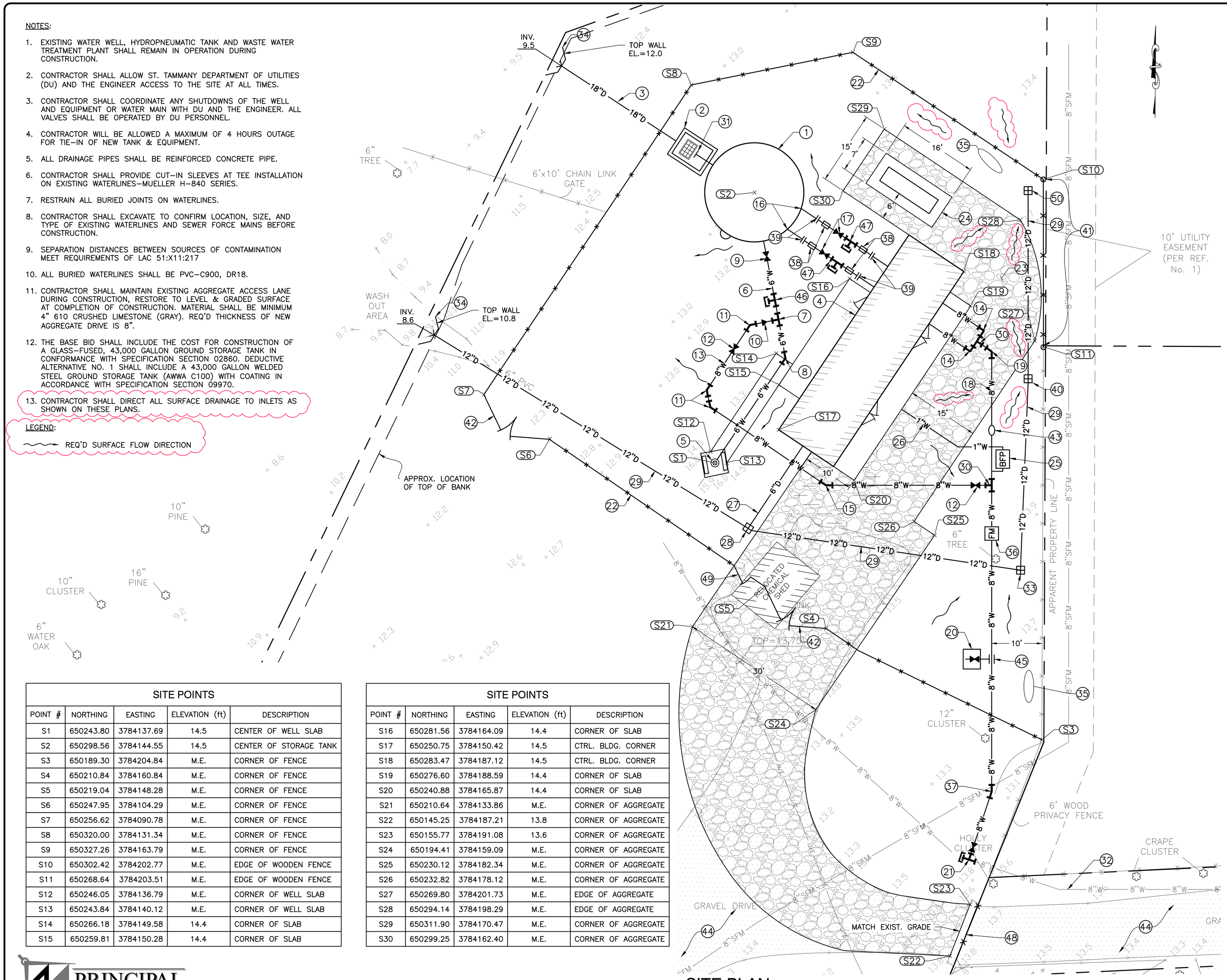
Pump Control Panel components shall carry a full one (1) year replacement warranty from date of owner acceptance.

NOTES:

1. EXISTING WATER WELL, HYDROPNEUMATIC TANK AND WASTE WATER TREATMENT PLANT SHALL REMAIN IN OPERATION DURING CONSTRUCTION.
2. CONTRACTOR SHALL ALLOW ST. TAMMANY DEPARTMENT OF UTILITIES (DU) AND THE ENGINEER ACCESS TO THE SITE AT ALL TIMES.
3. CONTRACTOR SHALL COORDINATE ANY SHUTDOWNS OF THE WELL AND EQUIPMENT OR WATER MAIN WITH DU AND THE ENGINEER. ALL VALVES SHALL BE OPERATED BY DU PERSONNEL.
4. CONTRACTOR WILL BE ALLOWED A MAXIMUM OF 4 HOURS OUTAGE FOR TIE–IN OF NEW TANK & EQUIPMENT.
5. ALL DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE.
6. CONTRACTOR SHALL PROVIDE CUT–IN SLEEVES AT TEE INSTALLATION ON EXISTING WATERLINES–MUELLER H–840 SERIES.
7. RESTRAIN ALL BURIED JOINTS ON WATERLINES.
8. CONTRACTOR SHALL EXCAVATE TO CONFIRM LOCATION, SIZE, AND TYPE OF EXISTING WATERLINES AND SEWER FORCE MAINS BEFORE CONSTRUCTION.
9. SEPARATION DISTANCES BETWEEN SOURCES OF CONTAMINATION MEET REQUIREMENTS OF LAC 51:X11:217
10. ALL BURIED WATERLINES SHALL BE PVC–C900, DR18.
11. CONTRACTOR SHALL MAINTAIN EXISTING AGGREGATE ACCESS LANE DURING CONSTRUCTION, RESTORE TO LEVEL & GRADED SURFACE AT COMPLETION OF CONSTRUCTION. MATERIAL SHALL BE MINIMUM 4" 610 CRUSHED LIMESTONE (GRAY). REQ'D THICKNESS OF NEW AGGREGATE DRIVE IS 8".
12. THE BASE BID SHALL INCLUDE THE COST FOR CONSTRUCTION OF A GLASS–FUSED, 43,000 GALLON GROUND STORAGE TANK IN CONFORMANCE WITH SPECIFICATION SECTION 02860. DEDUCTIVE ALTERNATIVE NO. 1 SHALL INCLUDE A 43,000 GALLON WELDED STEEL GROUND STORAGE TANK (AWWA C100) WITH COATING IN ACCORDANCE WITH SPECIFICATION SECTION 09970.
13. CONTRACTOR SHALL DIRECT ALL SURFACE DRAINAGE TO INLETS AS SHOWN ON THESE PLANS.

LEGEND:

~~~ REQ'D SURFACE FLOW DIRECTION



SITE PLAN
SCALE: 1" = 10'
0 5 10
1" = 10 FEET

SITE PLAN KEYNOTES:

1. REQ'D GROUND STORAGE TANK, TOS=14.5
2. REQ'D SPLASH BLOCK W/ C.B. T.C.=13.0, INV.=9.8
3. REQ'D 18" RCP OVERFLOW DRAIN LINE
4. REQ'D CONTROL BUILDING, FFE=14.5
5. REQ'D WELL UPGRADE
6. REQ'D 6" FILL LINE
7. REQ'D 6"x6"x6" TEE
8. REQ'D 6" 45° BEND
9. REQ'D 6" GATE VALVE
10. REQ'D 8"x6" REDUCER
11. REQ'D 8" 45° BEND
12. REQ'D 8" GATE VALVE
13. REQ'D 8" BYPASS LINE
14. REQ'D 8" 90° BEND
15. REQ'D 8" 22.5° & 11.25° BENDS
16. REQ'D 8" D.I. SUCTION LINES
17. REQ'D 8" GATE VALVES
18. REQ'D 8" PVC WATERLINE
19. REQ'D 8" 45° & 11.25° BENDS
20. REQ'D WATER SAMPLE STATION + APRON
21. REQ'D 8"x8"x8" TEE, VALVE, & VALVE BOX + PLUG
22. REQ'D 6' CHAINLINK FENCE W/ BARBED WIRE
23. REQ'D AGGREGATE SURFACE, APPROX 450 SQ. YD
24. GENERATOR & FOUNDATION SLAB
25. REQ'D BACKFLOW PREVENTER, STAINLESS STEEL TAPPING SADDLE, & BANDS, ROMAC OR EQUAL
26. REQ'D 1" WATER SERVICE
27. REQ'D 6" PVC DRAIN
28. REQ'D DRAIN INLET, T.C.=13.3, INV.=8.8
29. REQ'D 12" RCP DRAIN
30. REQ'D 8"x8"x8" TEE
31. REQ'D 8" DRAIN & OVERFLOW LINE
32. EXISTING 8" PVC WATERLINE TO SYSTEM
33. REQ'D DRAIN INLET, T.C.=13.3, INV.=8.9
34. REQ'D CONCRETE HEADWALL
35. REQ'D VIBRATION MONITORING LOCATION
36. REQ'D 8" FLOW METER, SEE DETAIL
37. REQ'D 8" 22.5° BEND
38. CONCRETE PIPE SUPPORTS
39. BOLTED COUPLING
40. REQ'D DRAIN INLET, T.C.=13.7, INV=9.0
41. REQ'D 6' WOODEN FENCE & 6' CHAINLINK
42. REQ'D 2–8' GATES
43. REQ'D SERVICE SADDLE FOR ANALYZER FEED
44. EX. GRAVEL DRIVE
45. REQ'D STAINLESS STEEL TAPPING SADDLE AND BANDS, ROMAC OR EQUAL.
46. REQ'D 6"x6"x6" TEE & BLIND FLANGE'
47. REQ'D 8"x8"x8" TEE & BLIND FLANGE
48. REMOVE AND REPLACE 6'x16' SLIDING WOOD GATE
49. REQ'D 4' PEDESTRIAN GATE
50. REQ'D DRAIN INLET, T.C.=13.5, INV.=9.1

ADDENDUM 2

SITE POINTS

POINT #	NORTHING	EASTING	ELEVATION (ft)	DESCRIPTION
S1	650243.80	3784137.69	14.5	CENTER OF WELL SLAB
S2	650298.56	3784144.55	14.5	CENTER OF STORAGE TANK
S3	650189.30	3784204.84	M.E.	CORNER OF FENCE
S4	650210.84	3784160.84	M.E.	CORNER OF FENCE
S5	650219.04	3784148.28	M.E.	CORNER OF FENCE
S6	650247.95	3784104.29	M.E.	CORNER OF FENCE
S7	650256.62	3784090.78	M.E.	CORNER OF FENCE
S8	650320.00	3784131.34	M.E.	CORNER OF FENCE
S9	650327.26	3784163.79	M.E.	CORNER OF FENCE
S10	650302.42	3784202.77	M.E.	EDGE OF WOODEN FENCE
S11	650268.64	3784203.51	M.E.	EDGE OF WOODEN FENCE
S12	650246.05	3784136.79	M.E.	CORNER OF WELL SLAB
S13	650243.84	3784140.12	M.E.	CORNER OF WELL SLAB
S14	650266.18	3784149.58	14.4	CORNER OF SLAB
S15	650259.81	3784150.28	14.4	CORNER OF SLAB

SITE POINTS

POINT #	NORTHING	EASTING	ELEVATION (ft)	DESCRIPTION
S16	650281.56	3784164.09	14.4	CORNER OF SLAB
S17	650250.75	3784150.42	14.5	CTRL. BLDG. CORNER
S18	650283.47	3784187.12	14.5	CTRL. BLDG. CORNER
S19	650276.60	3784188.59	14.4	CORNER OF SLAB
S20	650240.88	3784165.87	14.4	CORNER OF SLAB
S21	650210.64	3784133.86	M.E.	CORNER OF AGGREGATE
S22	650145.25	3784187.21	13.8	CORNER OF AGGREGATE
S23	650155.77	3784191.08	13.6	CORNER OF AGGREGATE
S24	650194.41	3784159.09	M.E.	CORNER OF AGGREGATE
S25	650230.12	3784182.34	M.E.	CORNER OF AGGREGATE
S26	650232.82	3784178.12	M.E.	CORNER OF AGGREGATE
S27	650269.80	3784201.73	M.E.	EDGE OF AGGREGATE
S28	650294.14	3784198.29	M.E.	EDGE OF AGGREGATE
S29	650311.90	3784170.47	M.E.	CORNER OF AGGREGATE
S30	650299.25	3784162.40	M.E.	CORNER OF AGGREGATE

PRINCIPAL Engineering

DEPT. OF UTILITIES
ST. TAMMANY PARISH GOVERNMENT
620 N. TYLER STREET
COVINGTON, LA 70433

No.	DESCRIPTION OF REVISION	DATE:
2	ADDITIONAL SURFACE FLOW ARROWS. ADDED APPROX. T.O.B.	9/6/24

DESIGNED BY: ACM
DRAWN BY: LMR
CHECKED BY: TMS
SUBMITTED BY: PRINCIPAL ENG
PROJECT No.: TU23000159
ISSUE DATE: JULY 2024
APPROVED BY: ---
SHEET SIZE: ANSI D
SCALE:

STATE OF LOUISIANA
Thomas M. Schreiner
REG. No. 21892
REGISTERED PROFESSIONAL ENGINEER
IN
Engineering
07/19/2024

MEADOW LAKE
NEW STORAGE TANK
SLIDELL, LOUISIANA
PROJECT No.: TU23000159

MEADOW LAKE SITE PLAN

SHEET NO.
5
SHEET 5 OF 27
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