

Document 00910

ADDENDUM NO. 1

Date of Addendum: 9/6/16



PROJECT NAME: Rehabilitation of Water Storage Tanks at Various Locations – Package 7

PROJECT NO: WBS No. S-000600-0047-4

BID DATE: **September 15, 2016** (The Bid Date has changed.)

FROM: James T. Lincoln, P.E., City Engineer
City of Houston, Department of Public Works and Engineering
611 Walker Street
Houston, Texas 77002

Attn: Tina Yao, P.E., Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.

CHANGES IN BID DATE:

1. The Bid Date for this Project has been changed from 9/8/2016 to 9/15/2016. Time of day and place for submittal of bid remains the same.

CHANGES TO PROJECT MANUAL:

Specifications:

1. Replace Specification Section 01110 - Summary of Work in its entirety.

CHANGES TO THE DRAWINGS:

1. Drawing G-2 (Sheet 2) – Remove and replace Drawing G-2 (Sheet 2) in its entirety.
2. Drawing C-2 (Sheet 4) – Remove and replace Drawing C-2 (Sheet 4) in its entirety.
3. Drawing C-4 (Sheet 6) – Remove and replace Drawing C-4 (Sheet 6) in its entirety.
4. Drawing C-6 (Sheet 8) – Remove and replace Drawing C-6 (Sheet 8) in its entirety.
5. Drawing C-7 (Sheet 9) – Remove and replace Drawing C-7 (Sheet 9) in its entirety.
6. Drawing C-10 (Sheet 11) – Remove and replace Drawing C-10 (Sheet 11) in its entirety.
7. Drawing C-11 (Sheet 12) – Remove and replace Drawing C-11 (Sheet 12) in its entirety.
8. Drawing C-14 (Sheet 15) – Remove and replace Drawing C-14 (Sheet 15) in its entirety.
9. Drawing C-16 (Sheet 17) – Remove and replace Drawing C-16 (Sheet 17) in its entirety.

CLARIFICATIONS:

1. Cathodic Protection Specification #13111 is missing from the project manual.

Response: Specification 13111 - Cathodic Protection for Water Tank Interiors (Sacrificial Anode) is a Standard City of Houston Specification, and is listed in the table of contents of the project manual (in bold). It is included by reference, as are the other standard specs listed in the Table of Contents (bolded).

2. On the tanks can we use equipment called Track Blasting, it's a machine that blast the exterior and drops the paint chips in a 50 gallon drum, then we do Vapor blasting on the little bit that it can't get to on the ground and around the roof.

Response: Track Blasting and Vapor Blast on the exterior of the tanks is allowed.

3. Then on the bigger 5.0M GST can we cut a door in the side of the tank to remove the blast media.

Response: A door sheet is allowed to be cut into the tanks, but will require a proper submittal prior to removal, including x-ray weld test when re-installed.

4. Last one can we use a stripper on taking off the 100% coating system.

Response: No stripper will be allowed; the contractor is to remove the coatings in accordance with the specifications.

END OF ADDENDUM NO. 1

DATED: _____

9/6/16

Ravi Kaleyatodi

Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Engineering Branch
Engineering and Construction Division
Department of Public Works and Engineering

CD - M

END OF DOCUMENT

Section 01110

SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work including work by the City, work covered by contract documents, cash allowances, City-furnished products, work sequence, contractor use of premises, warranty, and additional conditions for substantial completion.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. Work of the Contract is for rehabilitation of four (4) ground storage tanks, one (1) elevated storage tank, and three (3) hydropneumatic tanks at six (6) pumping stations.
- B. General Requirements:
 - 1. The completed work shall not lack any part which can be reasonably implied as incidental for proper and useful operation of the facility. This includes all items of equipment, labor, and materials, whether or not shown in the Contract Documents, where such items are required to fulfill the intent of the Contract, and all shall be in accordance with code requirements, standards of regulatory agencies, manufacturer's recommendations, and acceptable industry practice.
 - 2. The Contractor shall provide a superintendent who can act on behalf of the Contractor to be on site or be available at all times while work is underway.
 - 3. Although some minor items may not be specifically identified by quantity or description, they shall be considered a part of the Work and shall be included in the applicable Proposal Item with which they are a component part.
 - 4. The need for and use of any labor or material not specifically described but necessary to complete the project described by the Contract Documents shall not represent a claim for extra payment.
- C. Scope of Work

Work of the Contract is for rehabilitation of four (4) ground storage tanks, one (1) elevated storage tank, and three (3) hydropneumatic tanks at six (6) pumping stations.

SUMMARY OF WORK

Provide materials, labor, equipment and superintendence in accordance with these Technical Specifications, Drawings, and Contract Documents. Contractor's responsibility includes, but is not limited to: construction sequencing in accordance with the Contract Documents, quality control of workmanship and materials, handling of all material, handling and disposal of all waste, and compliance with regulatory standards governing the work.

<u>WATER PLANT</u>	<u>TANK ID</u>	<u>LOCATION</u>	<u>KEY MAP</u>
District 42 #2	EST (0.2 MG)	7501 Langley Rd.	415 W
District 218	GST-2 (0.5 MG)	12705 Brantrock Dr.	528D
Enclave #2	HPT-1 (30,000 - gal)	13135 Forkland Dr.	488 L
Enclave #2	HPT-2 (30,000 - gal)	13135 Forkland Dr.	488 L
EWPP Water Plant No. 1	GST-5 (5 MG)	12555 Clinton Dr.	496 Y
EWPP Water Plant No. 1	GST-6 (5 MG)	12555 Clinton Dr.	496 Y
EWPP Water Plant No. 1 Valve Pit	N/A	12555 Clinton Dr.	496 Y
Ridgemont	GST-1 (0.793 MG)	15089 Ridgeroe Ln.	611D
Willowchase Park	HPT-1 (21,000 - gal)	13135 Misty Willow Dr.	369 H

The work in general, to be performed under this Contract consists of, but is not limited to the following general tasks which are more specifically described in the Drawings and other Sections of these Specifications.

1. District 42 #2 EST:
 - a. City to remove and re-install tank security and SCADA equipment, Contractor to coordinate his work with the City,
 - b. The existing antenna pod mount, antenna conduit and wiring is not to be removed, Contractor to perform work on this tank to accommodate continual operation of the antenna pod mount during and upon completion of rehabilitation,
 - c. Contractor to remove and replace all conduits, brackets, mounts, etc., (excluding antenna pod mount, antenna conduit and wiring as stated in 1. b. of this section) necessary to blast and coat the tank exterior,
 - d. Installation of inlet protection barriers as shown in the Drawings,
 - e. Furnish all required connections and appurtenances,
 - f. Perform tank repairs as noted in the Drawings and Specifications,
 - g. Install new valves, including connections to existing piping as indicated in the Drawings,
 - h. Prepare interior wet and dry areas of tank and apply protective coatings as specified,
 - i. Prepare exterior of tank and apply protective coatings as specified,
 - j. Remove and replace galvanic cathodic protection system as specified,
 - k. Clean and disinfect tank and appurtenances,
 - l. Clean and re-grade site as required including repair of Contractor damaged driveways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,

- m. Miscellaneous and other work necessary or incidental for completion of the project, and
 - n. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.
2. District 218 GST-2:
- a. City to remove and re-install tank security and SCADA equipment, Contractor to coordinate his work with the City,
 - b. Contractor to remove and replace all conduits, brackets, mounts, etc. necessary to blast and coat the tank exterior,
 - c. Furnish all required connections and appurtenances,
 - d. Install new valves, including connections to existing piping as indicated in the Drawings,
 - e. Perform tank repairs as noted in the Drawings and Specifications,
 - f. Contractor to blast and coat existing piping as shown on the Drawings,
 - g. Prepare interior of tank and apply protective coatings as specified,
 - h. Prepare exterior of tank and apply protective coatings as specified,
 - i. Clean and disinfect tank and appurtenances,
 - j. Remove and replace galvanic cathodic protection system as specified,
 - k. Removal of existing equipment and installation of new Hydro-Ranger 200 including new level transducer, conduit, and cabling,
 - l. Removal of existing equipment and installation of new overflow sensor, conduit and cabling,
 - m. Clean and re-grade site as required including repair of Contractor damaged driveways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,
 - n. Miscellaneous and other work necessary or incidental for completion of the project, and
 - o. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.
3. Enclave #2 HPT-1:
- a. Contractor to remove, replace or protect all conduits, brackets, mounts, etc. necessary to blast and coat the tank exterior,
 - b. Perform tank repairs as noted in the Drawings and Specifications,
 - c. Installation of inlet protection barriers as shown in the Drawings,
 - d. Furnish all required connections and appurtenances,
 - e. Install new valves, including connections to existing piping as indicated in the Drawings,
 - f. Prepare interior areas of tank and apply protective coatings as specified,

SUMMARY OF WORK

- g. Prepare exterior of tank and apply protective coatings as specified,
 - h. Clean and disinfect tank and appurtenances,
 - i. Clean and re-grade site as required including repair of Contractor damaged driveways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,
 - j. Miscellaneous and other work necessary or incidental for completion of the project, and
 - k. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.
4. Enclave #2 HPT-2:
- a. Contractor to remove, replace or protect all conduits, brackets, mounts, etc. necessary to blast and coat the tank exterior,
 - b. Perform tank repairs as noted in the Drawings and Specifications,
 - c. Installation of inlet protection barriers as shown in the Drawings,
 - d. Furnish all required connections and appurtenances,
 - e. Install new valves, including connections to existing piping as indicated in the Drawings,
 - f. Prepare interior areas of tank and apply protective coatings as specified,
 - g. Prepare exterior of tank and apply protective coatings as specified,
 - h. Clean and disinfect tank and appurtenances,
 - i. Clean and re-grade site as required including repair of Contractor damaged driveways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,
 - j. Miscellaneous and other work necessary or incidental for completion of the project, and
 - k. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.
5. EWPP Water Plant No. 1 GST-5:
- a. City to remove and re-install tank security and SCADA equipment, contractor to coordinate his work with the City,
 - b. Contractor to remove and replace all conduits, brackets, mounts, etc. necessary to blast and coat the tank exterior,
 - c. Furnish all required connections and appurtenances,
 - d. Install new valves, including connections to existing piping as indicated in the Drawings,
 - e. Perform tank repairs as noted in the Drawings and Specifications,

- f. Remove existing baffle system and replace with new baffle system,
 - g. Contractor to blast and coat existing piping as shown in the Drawings,
 - h. Prepare interior of tank and apply protective coatings as specified, *(note: Existing interior coatings are Carobline Polibrid 705 100% solids)*,
 - i. Prepare exterior of tank and apply protective coatings as specified,
 - j. Clean and disinfect tank and appurtenances,
 - k. Remove and replace galvanic cathodic protection system as specified,
 - l. Removal of existing equipment and installation of new Hydro-Ranger 200 including new level transducer, conduit, and cabling,
 - m. Removal of existing equipment and installation of new overflow sensor, conduit and cabling,
 - n. Clean and re-grade site as required including repair of Contractor damaged roadways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,
 - o. Miscellaneous and other work necessary or incidental for completion of the project, and
 - p. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.
6. EWPP Water Plant No. 1 GST-6:
- a. City to remove and re-install tank security and SCADA equipment, Contractor to coordinate his work with the City,
 - b. Contractor to remove and replace all conduits, brackets, mounts, etc. necessary to blast and coat the tank exterior,
 - c. Furnish all required connections and appurtenances,
 - d. Install new valves, including connections to existing piping as indicated in the Drawings,
 - e. Perform tank repairs as noted in the Drawings and Specifications,
 - f. Remove existing baffle system and replace with new baffle system,
 - g. Contractor to blast and coat existing piping as shown in the Drawings,
 - h. Prepare interior of tank and apply protective coatings as specified,
 - i. Prepare exterior of tank and apply protective coatings as specified,
 - j. Clean and disinfect tank and appurtenances,
 - k. Remove and replace galvanic cathodic protection system as specified,
 - l. Removal of existing equipment and installation of new Hydro-Ranger 200 including new level transducer, conduit, and cabling,
 - m. Removal of existing equipment and installation of new overflow sensor, conduit and cabling,
 - n. Clean and re-grade site as required including repair of Contractor damaged roadways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,
 - o. Miscellaneous and other work necessary or incidental for completion of the project, and

SUMMARY OF WORK

- p. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.
7. EWPP Water Plant No. 1 Valve Pit:
- a. Contractor to remove and replace all conduits, brackets, mounts, etc. necessary to blast and coat the piping exterior,
 - b. Installation of inlet protection barriers as shown in the Drawings,
 - c. Perform repairs as noted in the Drawings and Specifications,
 - d. Install new flexible couplings and valves, including connections to existing piping as indicated in the Drawings,
 - e. Remove and replace 20 linear feet of damaged handrail, including gate as shown in the Drawings.
 - f. Contractor to blast and coat existing piping in the valve pit as shown in the Drawings,
 - g. Clean site as required including repair of Contractor damaged roadways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction, and
 - h. Miscellaneous and other work necessary or incidental for completion of the project.
8. Ridgemont GST-1:
- a. City to remove and re-install tank security and SCADA equipment, Contractor to coordinate his work with the City,
 - b. Contractor to remove and replace all conduits, brackets, mounts, etc. necessary to blast and coat the tank exterior,
 - c. Furnish all required connections and appurtenances,
 - d. Install new valves, including connections to existing piping as indicated in the Drawings,
 - e. Perform tank repairs as noted in the Drawings and Specifications,
 - f. Contractor to blast and coat existing piping as shown on Drawings,
 - g. Prepare interior of tank and apply protective coatings as specified,
 - h. Prepare exterior of tank and apply protective coatings as specified,
 - i. Clean and disinfect tank and appurtenances,
 - j. Remove and replace galvanic cathodic protection system as specified,
 - k. Removal of existing equipment and installation of new Hydro-Ranger 200 including new level transducer, conduit, and cabling,
 - l. Removal of existing equipment and installation of new overflow sensor, conduit and cabling,
 - m. Clean and re-grade site as required including repair of Contractor damaged driveways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,
 - n. Miscellaneous and other work necessary or incidental for completion

- of the project, and
 - o. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.
9. Willowchase HPT-1:
- a. Contractor to remove, replace or protect all conduits, brackets, mounts, etc. necessary to blast and coat the tank exterior,
 - b. Perform tank repairs as noted in the Drawings and Specifications,
 - c. Installation of inlet protection barriers as shown in the Drawings,
 - d. Furnish all required connections and appurtenances,
 - e. Install new valves, including connections to existing piping as indicated in the Drawings,
 - f. Prepare interior areas of tank and apply protective coatings as specified,
 - g. Prepare exterior of tank and apply protective coatings as specified,
 - h. Clean and disinfect tank and appurtenances,
 - i. Clean and re-grade site as required including repair of Contractor damaged driveways and site areas to original or better condition. Site shall be kept clean both during and upon completion of construction,
 - j. Miscellaneous and other work necessary or incidental for completion of the project, and
 - k. Spot clean tank interior for year-end inspection. If the one-year anniversary occurs on or between May 1 and September 30, the inspection may be re-scheduled for some time after September 30.

D. Project Identification Signs will be considered incidental to mobilization.

1.03 CASH ALLOWANCES

A. Include the following specific Cash Allowances in Contract Price under provision of Paragraph 3.11 – Document 00700 - General Conditions:

- 1. Coordination with CenterPoint Energy and Isolation of Overhead Power Line(s) - \$40,000.
- 2. City of Houston Code Enforcement and Building Permit(s) - \$20,000
- 3. City of Galena Park Code Enforcement and Building Permit(s) - \$25,000
- 4. Floodplain Development Permit Fee- \$1,000

SUMMARY OF WORK

1.04 CITY-FURNISHED PRODUCTS

- A. Items Furnished by the City for installation and final connection by Contractor - **NOT INCLUDED**
- B. Contractor's Responsibilities:
 - 1. Arrange and pay for Product delivery to the site.
 - 2. Receive and unload Products at the site; jointly with the City, inspect for completeness or damage.
 - 3. Handle, store, install, and finish Products.
 - 4. Repair or replace damaged items.

1.05 WORK SEQUENCE

- A. Construct the Work in Phases during the construction period. Coordinate construction schedule and operations with the City. Within ten (10) days of notification of award of the contract, the Contractor shall submit to the Owner a detailed schedule showing dates when each work task is planned to begin and end.
- B. Contractor shall commence work on either GST-5 or GST-6 at the EWPP Water Plant No. 1 once either GST-5 or GST-6 is fully rehabilitated and back in service, Contractor to commence work on the remaining tank. Only one (1) tank shall be out of service at any time.
- C. Contractor shall coordinate with and assist the City to isolate valves required for replacement.
- D. Coordination of the Work: Refer to Section 01312 - Coordination and Meetings.

1.06 CONTRACTOR USE OF PREMISES

- A. Comply with procedures for access to the site as specified in Section 01560 – Site Security and for Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises.
- B. Construction Operations: Limited to the City's rights-of-way provided by the City and areas shown or described in the Contract documents.
- C. Utility Outages and Shutdown: Provide a minimum of 48 hours notice to the City and private utility companies (when applicable), excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.

1.07 STREET CUT ORDINANCE – **NOT USED**

1.08 WARRANTY

- A. Comply with warranty requirements in accordance with Document 00700 - General Conditions.

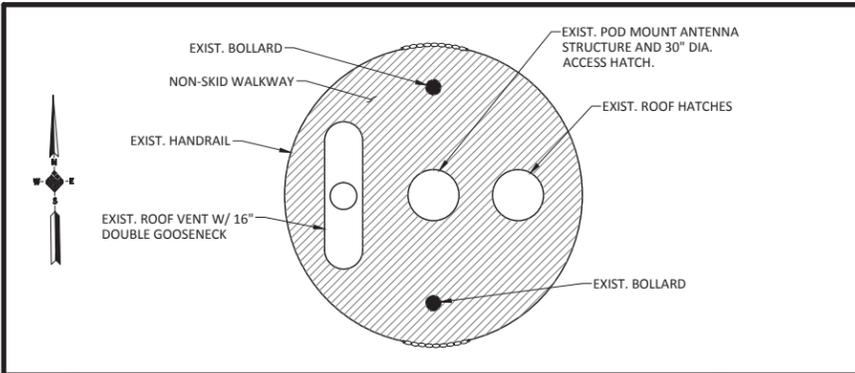
1.09 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

- A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection by Project Manager to confirm, the following conditions must be met or completed:
 - 1. All testing shall be completed and accepted by Project Manager.
 - 2. Completion of site restoration.
 - 3. Substantial completion shall be contingent on the successful completion of the leak test.

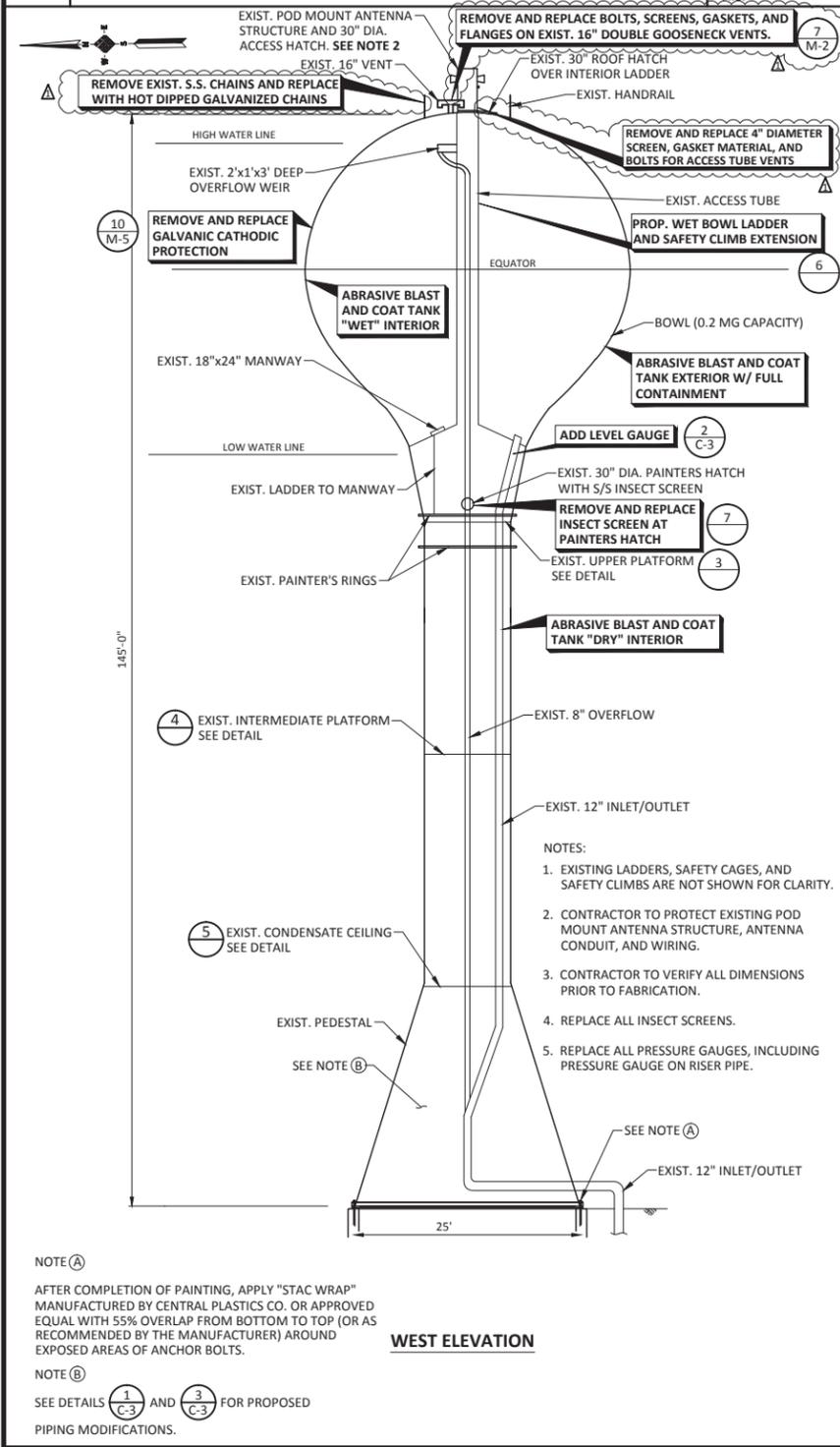
PART 2 P R O D U C T S - NOT USED

PART 3 E X E C U T I O N - NOT USED

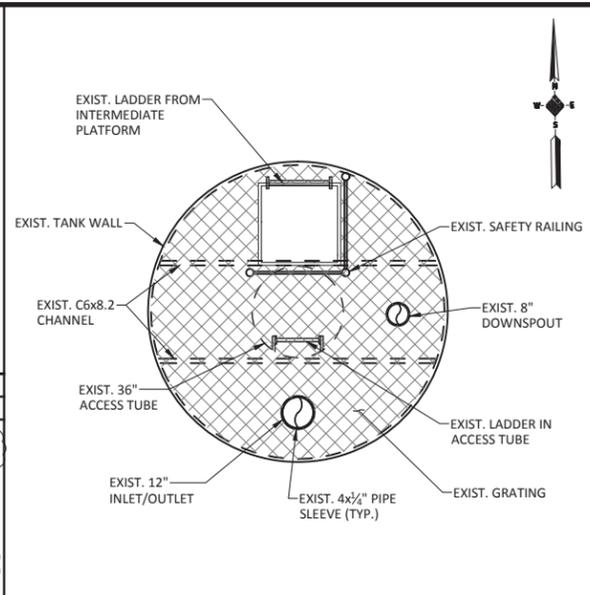
END OF SECTION



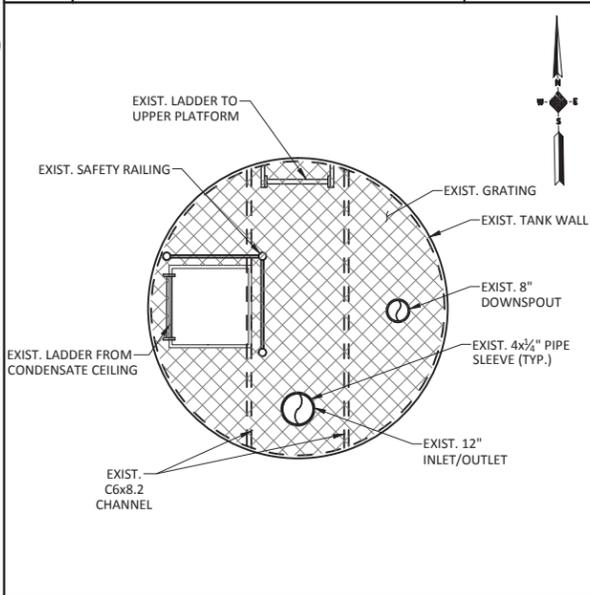
1 SCHEMATIC OF ROOF APPURTENANCES Scale: N.T.S. File:



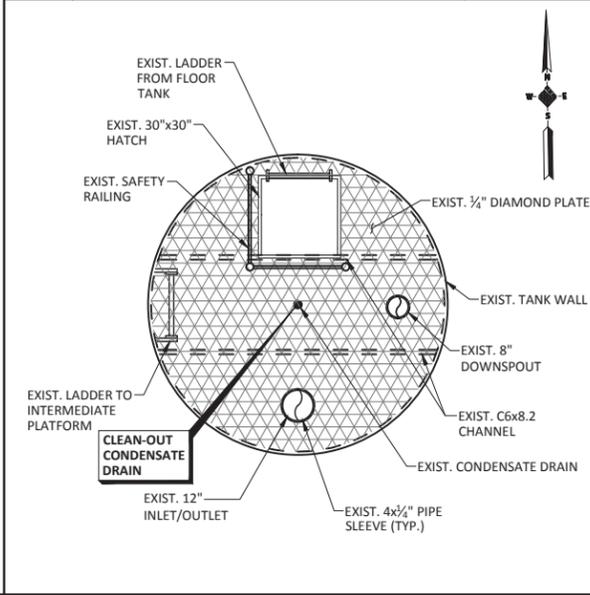
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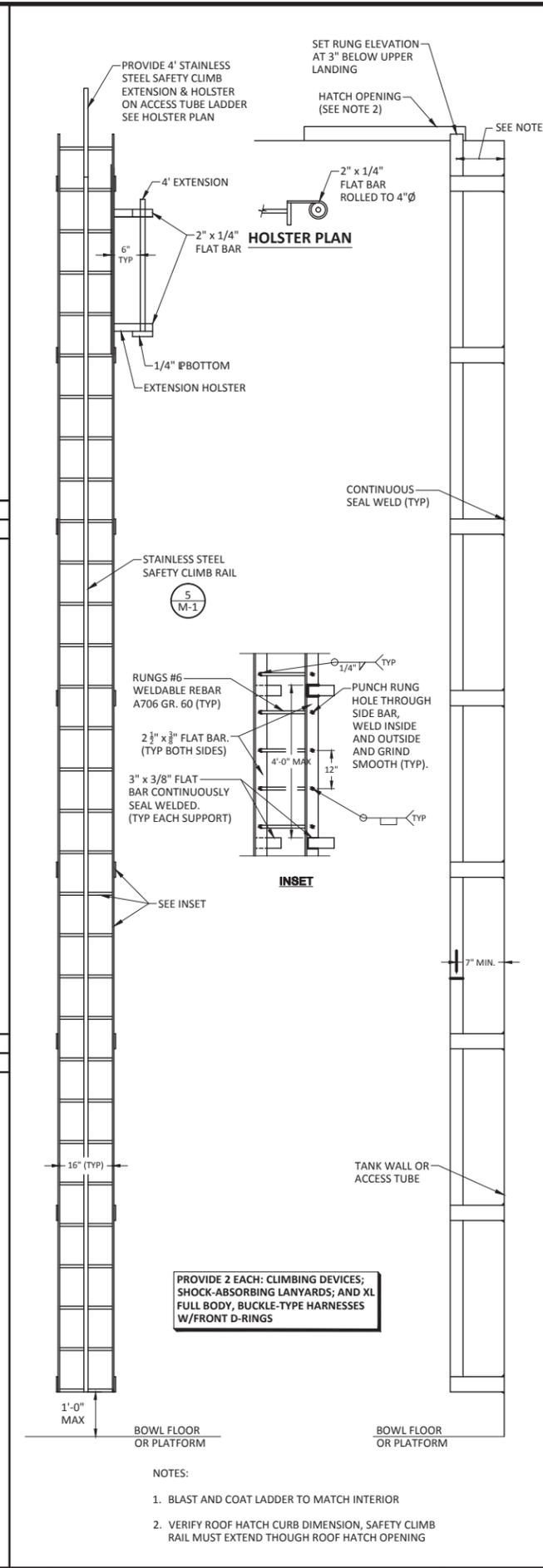
3 PLAN AT UPPER PLATFORM Scale: 1"=3' File:



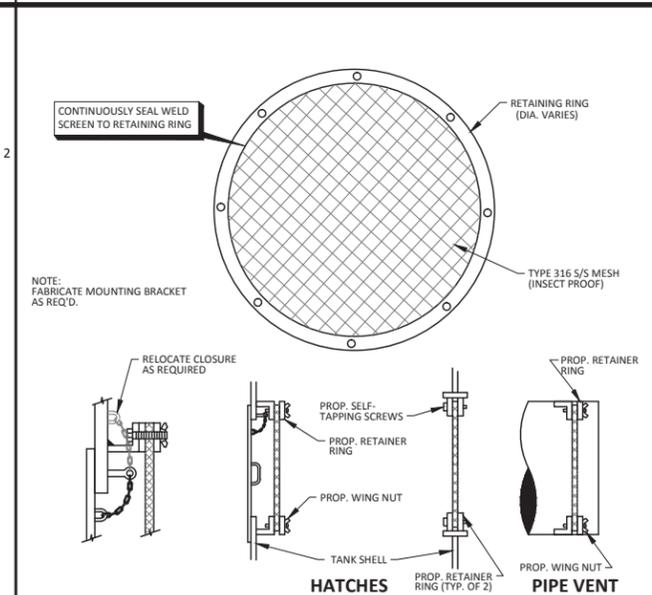
4 PLAN AT INTERMEDIATE PLATFORM Scale: 1"=3' File:



5 PLAN AT CONDENSATE CEILING Scale: 1"=3' File:



6 BOWL/ACCESS TUBE LADDER SCALE: N.T.S. FILE:



7 INSECT SCREEN DETAIL Scale: N.T.S. File:

IDS Engineering Group
13430 NW. Freeway, Suite 700
Houston, Tx. 77040
713-462-3178
TYPE F-002726
TBP15 10110700

APPROVED: MK DATE: APRIL 2016
DESIGNED BY: AT DRAWN BY: MB JOB NO: 0057-068-07
SURVEYED BY:
FB NO.
MARCEL KHOUW
101807
LICENSED PROFESSIONAL ENGINEER
4/19/16

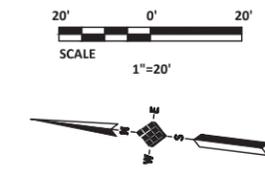
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
REHABILITATION OF WATER STORAGE TANKS AT VARIOUS LOCATIONS
PACKAGE 7
WBS S-000600-0047-4

DISTRICT 42 #2 WATER PLANT
EST TANK LAYOUT AND DETAILS

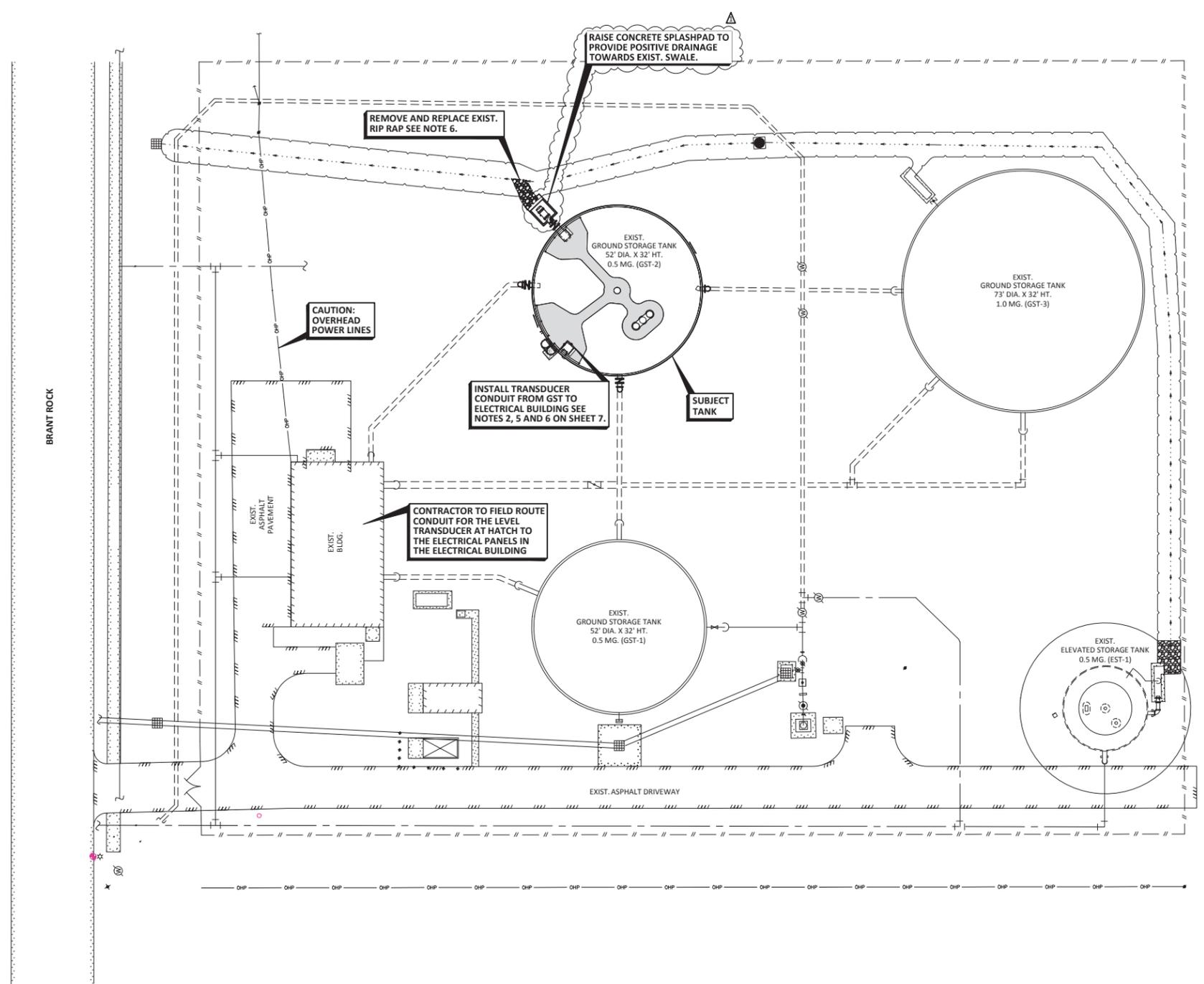
WBS NO.	S-000600-0047-4	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	AS NOTED	
CITY OF HOUSTON PM	NA YAO, P.E.	
DWG. NO.	C-2	
SHEET NO.	4 OF 24	

NO.	DATE	DESCRIPTION	APP'D

IDS JOB No. 0057-068-07



DATE	9/1/16
APPD	M.K.
DESCRIPTION	ADDENDUM No. 1
REVISION	



- NOTES:
- PROJECT LOCATION: 12705 BRANT ROCK RD., HOUSTON, TX. 77082
- PRIOR TO WATER STORAGE TANK REHABILITATION WORK, CONTRACTOR SHALL PERFORM THE FOLLOWING:
- CONTRACTOR SHALL CALL COH ELECTRICIANS WAYNE KLUGE AT (713) 501-4086, OR JUAN TIJERINA AT (832) 395-3845 FOR REMOVAL OF ELECTRICAL DEVICES SUCH AS LEVEL TRANSDUCER, LEVEL TRANSMITTER, MINI RANGERS, CHART RECORDERS, HATCH SENSORS, MOTION DETECTOR, OVERFLOW DETECTOR AND HIGH AND LOW SWITCHES. COH SHALL KEEP ALL THESE ELECTRICAL DEVICES.
 - CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONDUITS, CONDUCTORS AND SIGNAL CABLES OF ALL DEVICES THAT ATTACH TO THE TANK AND WHERE EXISTING CONDUITS AND CONDUCTORS ARE ASSOCIATED WITH REMOVAL OF ELECTRICAL DEVICES.
 - CONTRACTOR SHALL IDENTIFY THE SIGNAL CABLES FOR EACH REMOVED ELECTRICAL DEVICE.
 - CONTRACTOR TO PROVIDE ELECTRICAL NEMA BOX FOR STORAGE OF THE UNUSED ELECTRICAL SIGNAL CABLES. ELECTRICAL NEMA BOX CAN BE ATTACHED OR CLIPPED TO THE NEAREST LOCATION OF THE EXISTING CONDUIT AT THE BASE OF THE TANK. ALL THE UNUSED SIGNAL CABLES SHALL BE STORED INSIDE THE NEMA BOX.
 - CONTRACTOR SHALL NOTIFY TEXAS ONE-CALL AT 811/800-545-6005/800-699-8344.
 - GRADATION NO. 1 WITH GEOTEXTILE FABRIC, 18-INCH THICK MAT.
 - CONTRACTOR TO PROTECT EXISTING DRIVEWAY. PAVEMENT DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. (NO SEPARATE PAY)

- FLOODPLAIN NOTES:**
- AS PER FIRM PANEL NO. 48201C0830L, DATED JUNE 18, 2007, THIS TRACT IS WITHIN THE 100-YEAR FLOODPLAIN, AND THE NEAREST 100-YEAR FLOODPLAIN ELEVATION IS 78.0' (2001 DATUM ADJUSTMENT).
 - NO NET FILL IS ALLOWED IN THE 100-YEAR FLOODPLAIN AND NO FILL IS ALLOWED IN THE FLOODWAY.
 - TOP OF PROPOSED RIP RAP TO MATCH EXISTING GRADE. NO NET FILL OF RIP RAP IS ALLOWED IN THE 100 YEAR FLOODPLAIN.

PHOTOGRAPHIC DOCUMENTATION

PRIOR TO REMOVING CONDUITS, CONDUCTORS, ELECTRICAL, INSTRUMENTATION, AND SECURITY ITEMS FROM GROUND STORAGE TANK, USE DIGITAL PHOTOGRAPHY TO DOCUMENT EXISTING ITEMS INSTALLED ON THE GROUND STORAGE TANK. SUBMIT MULTIPLE CD'S, AS INDICATED FOR SUBMITTALS IN THE PROJECT SPECIFICATIONS, WITH DIGITAL PHOTOGRAPHS TO THE ENGINEER.

IDS Engineering Group

13430 NW. Freeway, Suite 700
Houston, Tx. 77040
713-462-3178
TYPE F-002726
TBPLS 10110700

APPROVED: MK DATE: APRIL 2016
DESIGNED BY: AT DRAWN BY: MB JOB NO: 0057-068-07

SURVEYED BY: MARCEL KHOUW
FB NO. 4/19/16



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
REHABILITATION OF WATER STORAGE TANKS AT VARIOUS LOCATIONS
PACKAGE 7
WBS S-000600-0047-4

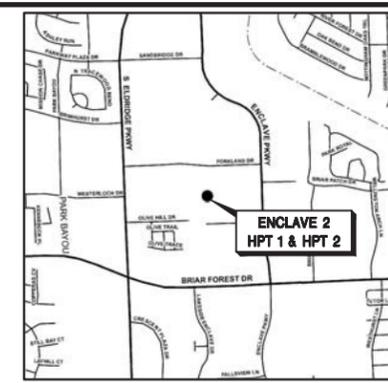
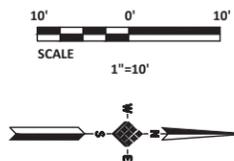
**DISTRICT 218 WATER PLANT
GST-2 SITE PLAN**

WBS NO.	FOR CITY OF HOUSTON USE ONLY
S-000600-0047-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
NA YAO, P.E.	

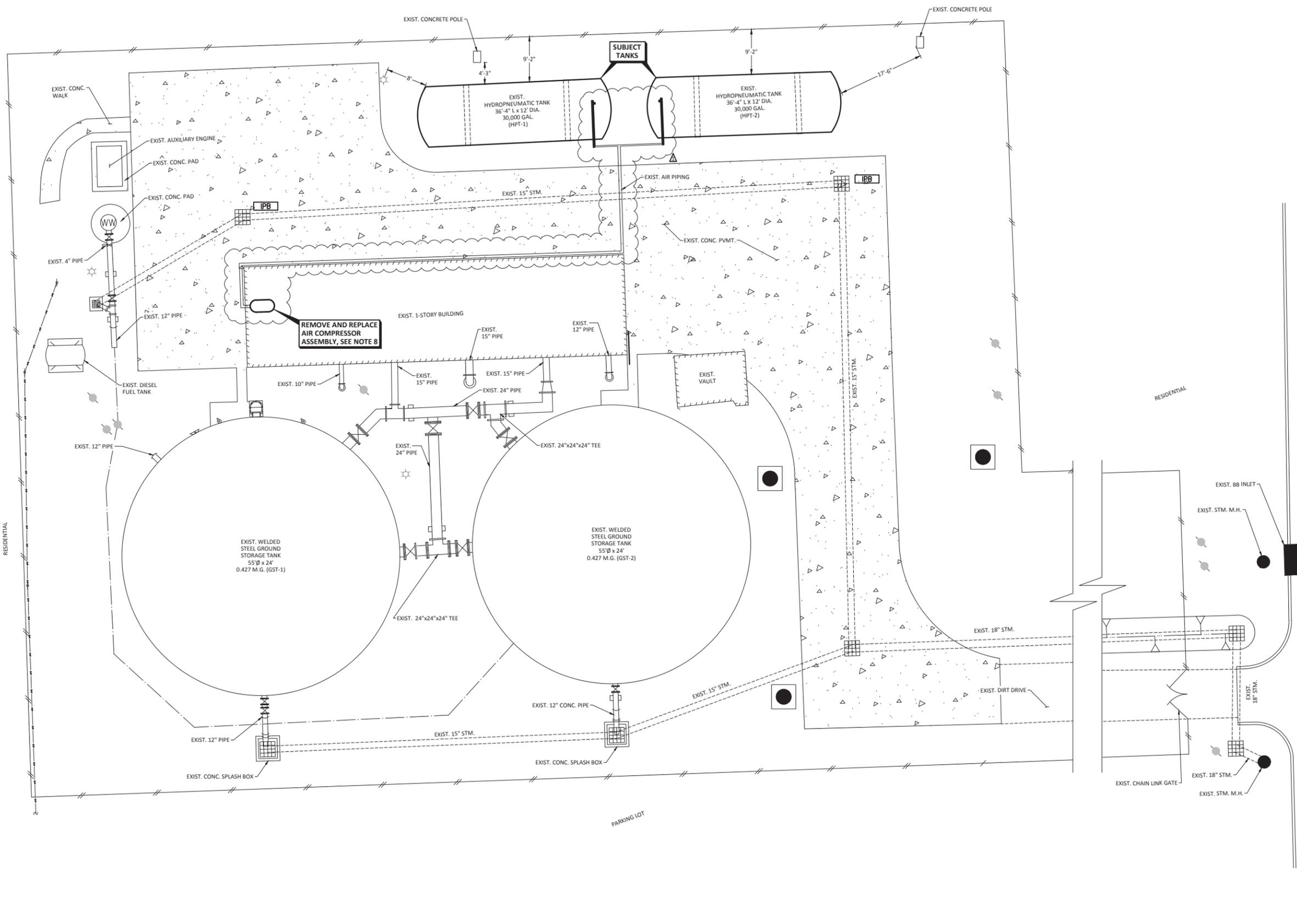
DWG. NO.	C-4
SHEET NO.	6 OF 24

X:\000\0057068\02 COH\WP - work\mshah\75040\DWG\17218-SITE PLAN.dwg [D:\186507-2-SITE PLAN] Sep 06, 2016 8:07am bharrat

IDS JOB No. 0057-068-07



REVISION	DESCRIPTION	DATE
APPD	M.I.C.	9/1/15



REMOVE AND REPLACE AIR COMPRESSOR ASSEMBLY, SEE NOTE 8

- NOTES:
- PROJECT LOCATION: 13135 FORKLAND DR., HOUSTON TX, 77077
1. REMOVE ANY AND ALL EXPOSED CONDUITS AND ELECTRICAL DEVICES, WHICH ARE ATTACHED TO A PAINTED STEEL SURFACE. PROTECT WIRING AND DEVICES WHILE TANK IS BEING PAINTED. REINSTALL CONDUIT, ELECTRICAL DEVICES AND WIRING ONCE PAINTING THE TANK IS COMPLETE.
 2. PRIOR TO DISCONNECTING ANY SECURITY SERVICES CONTACT ALAN GOODMAN, SECURITY MANAGEMENT AT (713) 837-7586.
 3. PRIOR TO DISCONNECTING ANY ELECTRICAL DEVICES OR INSTRUMENTATION DEVICES CONTACT WAYNE KLUGE, DRINKING WATER OPERATIONS AT (713) 501-4086.
 4. WHEN SECURITY DEVICES HAVE BEEN REINSTALLED, CONTACT ALAN GOOD TO CONFIRM THAT THE DEVICES ARE FUNCTIONING PROPERLY.
 5. WHEN ELECTRICAL INSTRUMENTATION DEVICES HAVE BEEN REINSTALLED, CONTACT WAYNE KLUGE TO CONFIRM THAT THEY ARE FUNCTIONING PROPERLY.
 6. CONTRACTOR SHALL NOTIFY TEXAS ONE-CALL AT 811/800-545-6005/800-669-8344.
 7. CONTRACTOR TO PROTECT EXISTING DRIVEWAY. PAVEMENT DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION. (NO SEPARATE PAY)
 8. CONTRACTOR TO REMOVE AND REPLACE EXIST. DAYTON 5 HP 230/460 VAC-3 PHASE 70 GAL AIR COMPRESSOR.

FLOODPLAIN NOTES:

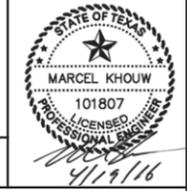
1. AS PER FIRM PANEL NO. 48201C0640L, DATED JUNE 18, 2007, THIS TRACT IS NOT WITHIN THE 100-YEAR FLOODPLAIN, AND THE NEAREST 100-YEAR FLOODPLAIN ELEVATION IS 74.0' (2001 DATUM ADJUSTMENT).
2. NO NET FILL IS ALLOWED IN THE 100-YEAR FLOODPLAIN AND NO FILL IS ALLOWED IN THE FLOODWAY.

PHOTOGRAPHIC DOCUMENTATION

PRIOR TO REMOVING CONDUITS, CONDUCTORS, ELECTRICAL, INSTRUMENTATION, AND SECURITY ITEMS FROM HYDRO-PNEUMATIC TANK, USE DIGITAL PHOTOGRAPHY TO DOCUMENT EXISTING ITEMS INSTALLED ON THE HYDRO-PNEUMATIC TANK. SUBMIT MULTIPLE CD'S, AS INDICATED FOR SUBMITTALS IN THE PROJECT SPECIFICATIONS, WITH DIGITAL PHOTOGRAPHS TO THE ENGINEER.



APPROVED	MK	DATE:	APRIL 2016
DESIGNED BY:	AT	DRAWN BY:	MB
		JOB NO.:	0057-068-07



SURVEYED BY:

FB NO.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
REHABILITATION OF WATER STORAGE TANKS AT VARIOUS LOCATIONS PACKAGE 7
WBS S-000600-0047-4

ENCLAVE #2 WATER PLANT
HPT-1 & HPT-2
SITE PLAN

WBS NO.	FOR CITY OF HOUSTON USE ONLY
S-000600-0047-4	
DRAWING SCALE	
1"=10'	
CITY OF HOUSTON PM	
NA YAO, P.E.	

DWG. NO.	C-6
SHEET NO.	8 OF 24

FORKLAND DR.

IDS JOB No. 0057-068-07

