

CITY OF LEON VALLEY

GRASS HILL ELEVATED STORAGE TANK PAINTING AND REHABILITATION

BEXAR COUNTY

BID NO. 2020-02

CALL BEFORE YOU DIG!



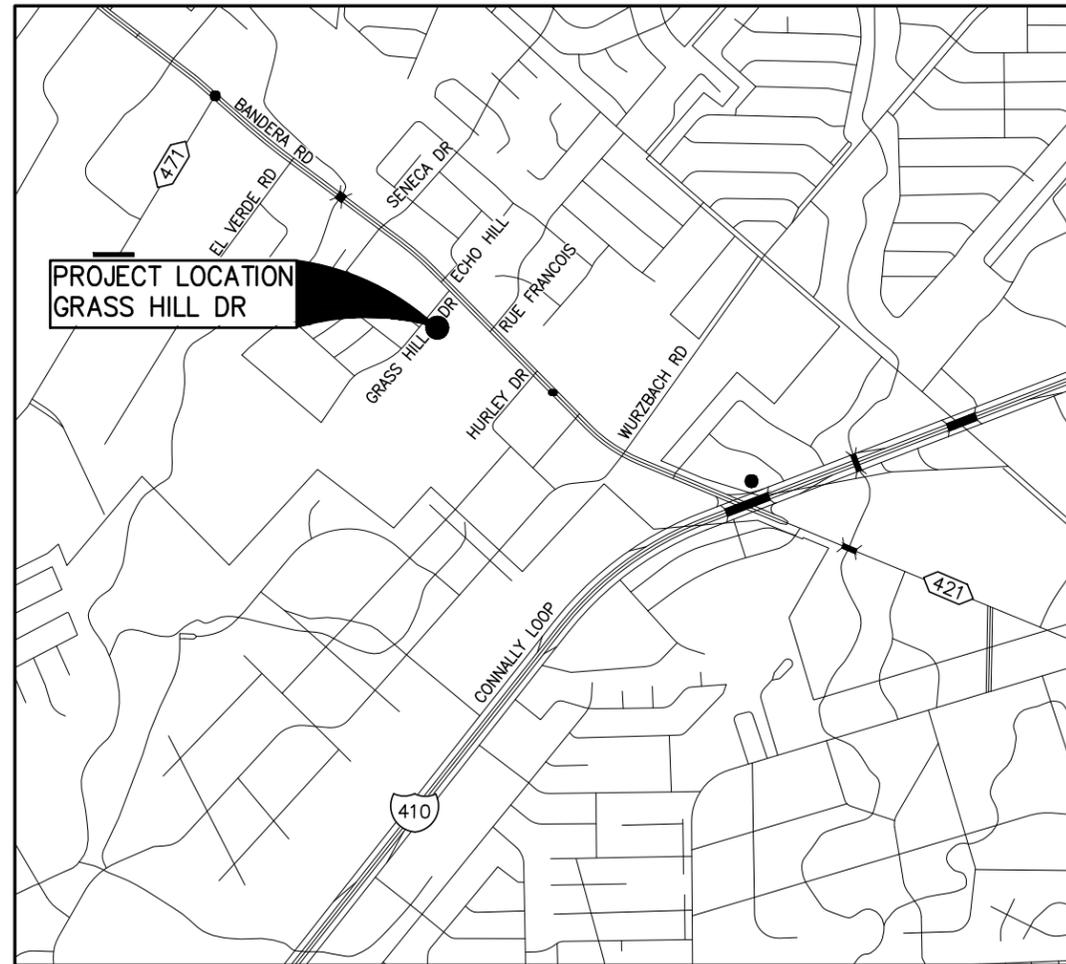
PARTICIPANTS REQUEST
48 HOURS NOTICE BEFORE YOU DIG,
DRILL, OR BLAST - STOP AND CALL

811

THE LONE STAR
NOTIFICATION COMPANY
AT 1-800-669-8344

SHEET INDEX

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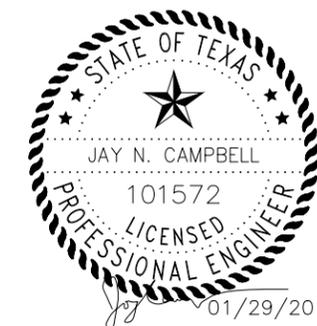


LOCATION MAP
SCALE: 1" = 5000'



TBPE FIRM NO. F-366
TBPLS FIRM NO. 10126502

engineers | architects | surveyors
8918 TESORO DR., SUITE 401
SAN ANTONIO, TX 78217
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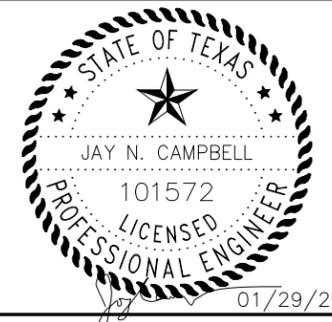


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Thursday, January 30, 2020, 11:58am

TANK REHABILITATION GENERAL:

1. LEON VALLEY HAS RIGHT OF FIRST REFUSAL ON ANY SALVAGED EQUIPMENT. CONTRACTOR TO COORDINATE WITH LEON VALLEY INSPECTOR ON DELIVERY OF SALVAGED EQUIPMENT TO OTHER LEON VALLEY FACILITIES. SHOULD LEON VALLEY NOT WANT TO RETAIN SALVAGED EQUIPMENT, CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL AT NO ADDITIONAL COST.
2. CONTRACTOR TO COORDINATE WITH LEON VALLEY REPRESENTATIVE AND DELIVER ANY SALVAGEABLE MATERIAL TO A FACILITY SPECIFIED, AS REQUIRED BY LEON VALLEY INSPECTORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING THE REMOVAL AND DELIVERY PROCESS AT CONTRACTORS EXPENSE.
4. RESTORE ALL DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION NO SEPARATE PAY ITEM. EXISTING SITE IMPROVEMENTS SHALL BE PROTECTED DURING THE TANK REHABILITATION WORK. ANY AND ALL DAMAGES SHALL BE CORRECTED AND RETURNED TO ORIGINAL (PRE-CONSTRUCTION) CONDITION TO THE APPROVAL OF LEON VALLEY AND THE ENGINEER.
5. CONTRACTOR MUST KEEP VEHICLES AND EQUIPMENT WITHIN LIMITS OF SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY. COORDINATE WITH INSPECTOR JOHN KONZEN 512-422-7655.
6. CONTRACTOR SHALL TAKE NECESSARY MEASURES TO AVOID FUGITIVE BLAST DEBRIS FROM ENTERING DRAINAGE STRUCTURES.
7. CONTRACTOR SHALL REPLACE ALL EXISTING LABELS AND SIGNS CURRENTLY ON THE TANK AFTER PAINTING OPERATIONS ARE COMPLETE, NO SEPARATE PAY ITEM.
8. EXISTING VALVES MAY LEAK TO INTERIOR OF TANK. CONTRACTOR SHALL REQUEST APPROVAL FROM ENGINEER AND OWNER BEFORE TAKING MEASURES TO CONTROL WATER AS REQUIRED FOR INTERIOR WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING RESIDUAL WATER LEFT IN TANK AFTER INITIAL TANK DRAINING. NO SEPARATE PAY ITEM.
10. CONTRACTOR SHALL DISPOSE OF ALL SEDIMENT LEFT IN TANK AFTER INITIAL TANK DRAINING AT AN APPROVED LAND FILL OR AS DIRECTED BY THE ENGINEER. NO SEPARATE PAY ITEM.
11. REMOVE ANY EXISTING FREEZE PROTECTION ON EXTERIOR VALVES & PIPES AND REPLACE SUBSEQUENT TO EXTERIOR COATINGS. NO SEPARATE PAY ITEM.
12. CONTRACTOR IS RESPONSIBLE FOR REMOVING & REINSTALLING EXISTING ANTENNAS ON TOP OF THE EST AS NEEDED FOR BLASTING AND COATING WORK. CONTRACTOR SHALL COORDINATE WITH NORTH SIDE INDEPENDENCE SCHOOL & OWNER OF RADIO EQUIPMENT FOR REQUIREMENTS OF ADVANCE NOTIFICATION AND DETERMINATION OF SPECIFIC REQUIREMENTS OF OWNER. CONTRACTOR SHALL PROVIDE ESTIMATED DOWN TIME OF ANTENNA IN ADVANCE, CONTACT KELLEY FRYAR AT (210) 397-5661. NO SEPARATE PAY ITEM FOR THIS WORK.
13. ACCESS ROAD AND DRIVEWAY DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AS DIRECTED AND APPROVED BY LEON VALLEY AND THE ENGINEER. NO SEPARATE PAY ITEM.
14. OWNER DOES NOT GUARANTEE WATERTIGHT SHUTDOWN FROM ALL EXISTING VALVES. CONTRACTOR IS REQUIRED TO ACCOMMODATE LEAKAGE AS NECESSARY TO PERFORM REQUIRED WORK AT NO ADDITIONAL COST TO OWNER.
15. PROVIDE CONDUCTOR SUPPORT FITTINGS FOR SUPPORTING OF CONDUCTORS IN VERTICAL CONDUIT OR CABLE RUNS AS PER NEC ARTICLE 300.19.
16. ALL NUTS AND BOLTS USED MUST HAVE AN ANTI-SEIZE COMPOUND APPLIED. GASKETS SHALL BE 1/8-INCH, CLOTH-INSERTED RUBBER CORROSIVE ACID AND ALKALI FREE FOR POTABLE WATER CONFORMING TO ANSI B16.21-92 AND AWWA C207-07. FLAT FACED FLANGES SHALL REQUIRE FULL-FACED GASKETS. RAISED FACE FLANGES SHALL REQUIRE FLAT RING GASKETS.
17. CONTRACTOR SHALL REFER TO THE TECHNICAL SPECIFICATIONS FOR THE PREPARATION REHABILITATION, AND PAINTING OF THE EXTERIOR AND INTERIOR OF THE TANK AND APPURTENANCES. SEE TECHNICAL SPECIFICATION SECTION TS.

BID ITEMS			
Item No.	Item Description	Est. Qty.	Unit
1	Furnish all materials, equipment, labor, superintendence and incidental work to abrasive blast per SSPC-SP6, clean, prime and coat with Containment and Dust Collection the Exterior of the existing 150,000-gallon EST, all appendages, ladder, vent, hatch, railing, tank piping, valves, etc., as indicated on the drawings and specifications part 2.04.A and part 3.07 except where specifically covered by other bid items.	1	L.S.
2	Furnish all materials, equipment, labor, superintendence and incidental work to spot blast for inspection and identification of repairs, abrasive blast per SSPC-SP10, clean, prime, stripe coat and coat with Dehumidification the Interior of the existing 150,000-gallon EST, all appendages, ladder, vent, hatch, weir box, etc., as indicated on the drawings and specifications part 2.04.B and part 3.06 , except where specifically covered by other bid items.	1	L.S.
3	Furnish all materials, equipment, labor, superintendence and incidental work to Dehumidify the interior of the existing 150,000-gallon EST, during surface preparation and coating, including hoses, filters, etc., as indicated on the drawings and specifications part 3.06 , except where specifically covered by other bid items.	1	L.S.
4	Furnish all materials, equipment, labor, superintendence and incidental work to provide Containment and Dust Collection as indicated on the drawings and specifications part 3.07 , except where specifically covered by other bid items.	1	L.S.
5	Furnish all materials, equipment, labor, superintendence and incidental work to perform General Repairs ; grinding, welding and general work to repair corrosion related surfaces, repositioning electrical conduit and obstacles preventing safe use and rendering all OSHA Compliant as indicated on the drawings and specifications, except where specifically covered by other bid items.	1	L.S.
6	Furnish all materials, equipment, labor, superintendence and incidental work to install a 20"Ø AWWA approved aluminum Roof Vent , including a new weld-on C.S. flanged neck to accommodate the bolt on installation of the new aluminum vent, as indicated on the drawings and specifications except where specifically covered by other bid items. Provide drawing with P.E. seal for submittal.	1	L.S.
7	Furnish all materials, equipment, labor, superintendence and incidental work to perform Interior and Exterior ladder replacement , balcony mid-railing modifications and rendering all OSHA Compliant as indicated on the drawings and specifications, except where specifically covered by other bid items.	1	L.S.
8	Furnish all materials, equipment, labor, superintendence and incidental work to install a New Riser Manway 18"x24" oval or 24" diameter AWWA D100 approved and TCEQ compliant as indicated on the drawings and specifications, except where specifically covered by other bid items.	1	L.S.
9	Furnish all materials, equipment, labor, superintendence and incidental work to perform Caulking and or Seam Sealing work to seams and areas as deemed necessary, as indicated on the drawings and specifications part 3.01.A.2 , except where specifically covered by other bid items.	50	Per Tube
10	Furnish all materials, equipment, labor, superintendence and incidental work to perform removing & reinstalling antennas as needed for tank rehab. Contractor Shall Coordinate with North Side Independent School	1	L.S.



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TBPLS FIRM NO. 10126502

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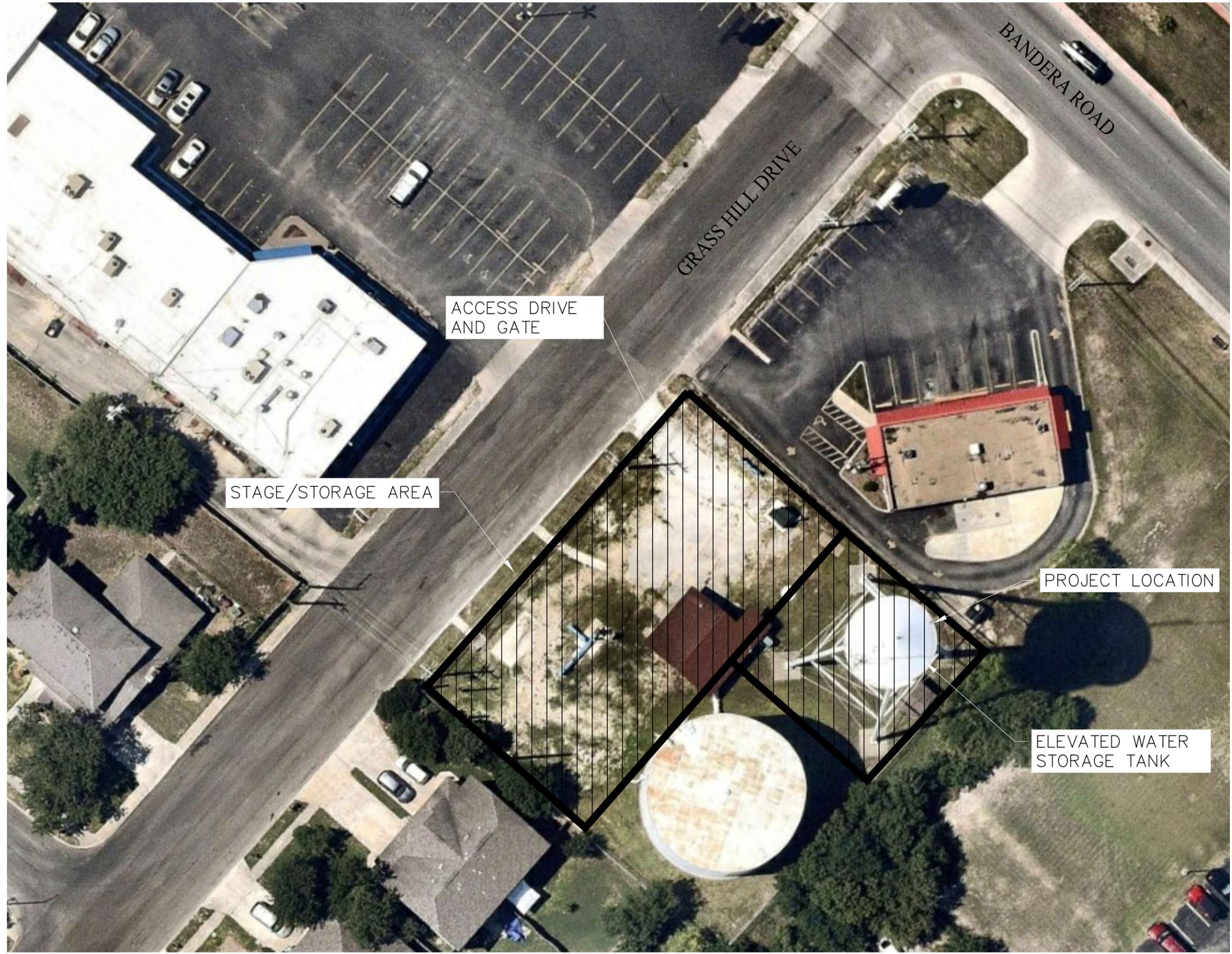
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GRASS HILL ELEVATED STORAGE TANK
PAINTING AND REHABILITATION
BEXAR COUNTY

GENERAL NOTES

FED. RD. DIV. NO.	FEDERAL AID PROJECT		SHEET NO.
			2
STATE	DIST.	COUNTY	
TEXAS		BEXAR COUNTY	
CONT.	SECT.	JOB	HIGHWAY NO.

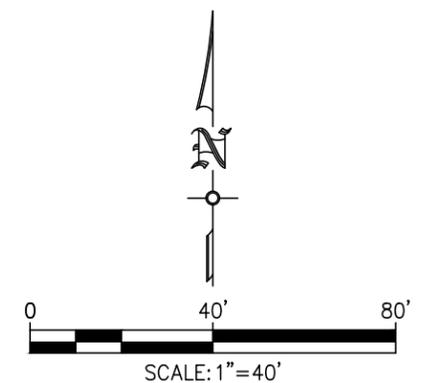


ACCESS DRIVE AND GATE

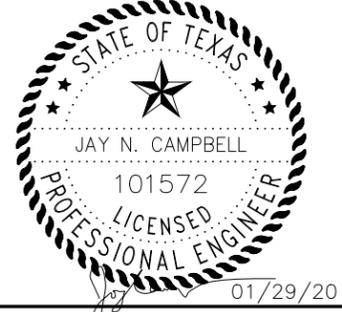
STAGE/STORAGE AREA

PROJECT LOCATION

ELEVATED WATER STORAGE TANK



LEGEND
 STAGE/STORAGE AREA



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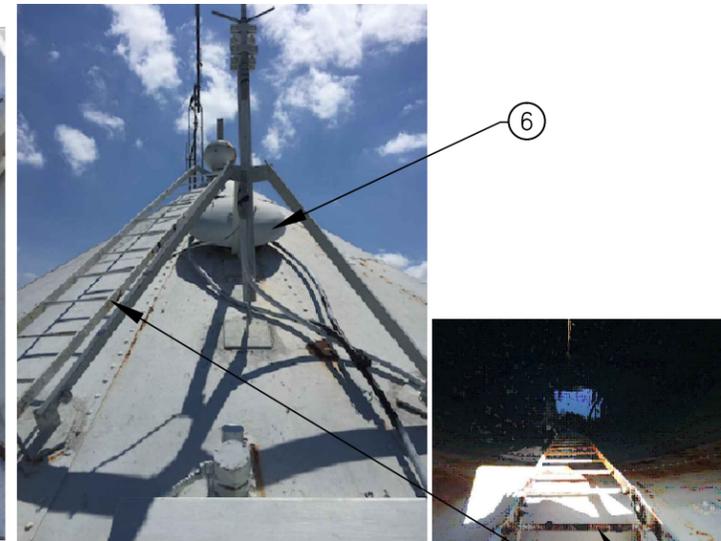


CITY OF LEON VALLEY
 GRASS HILL ELEVATED STORAGE TANK
 PAINTING AND REHABILITATION
 BEXAR COUNTY

OVERALL SITE LAYOUT

FED. RD. DIV. NO.	FEDERAL AID PROJECT			SHEET NO.
				3
STATE	DIST.	COUNTY		
TEXAS		BEXAR COUNTY		
CONT.	SECT.	JOB	HIGHWAY NO.	

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 Thursday, January 30, 2020, 11:58am



TANK INFORMATION	
WELDED STEEL TANK	
CONSTRUCTED:	1930
TANK VOLUME:	150,000 GST
TANK HEIGHT:	155'
BCL =	±100'
TCL =	±142'
SHELL HEIGHT =	±25'
INTERIOR SURFACE AREA:	5,000 SF
EXTERIOR SURFACE AREA:	9,500 SF

1 EXTERIOR CLEANING AND COATING

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE AND INCIDENTAL WORK TO ABRASIVE BLAST PER SSPC-SP6, CLEAN, PRIME & COAT WITH CONTAINMENT AND DUST COLLECTION THE EXTERIOR OF THE TANK, ALL APPENDAGES, LADDER, VENT, HATCH, RAILING, TANK PIPING, VALVES, PER PLANS & SPECIFICATION PART 2.04.A & PART 3.07.

2 INTERIOR CLEANING AND COATING

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE AND INCIDENTAL WORK TO SPOT BLAST FOR INSPECTION & IDENTIFICATION OF REPAIRS, ABRASIVE BLAST PER SSPC-SP10, CLEAN, PRIME, STRIPE COAT & COAT WITH DEHUMIDIFICATION THE INTERIOR OF THE TANK, ALL APPENDAGES, LADDER, VENT, HATCH, WEIR BOX, ETC., PER PLANS & SPECIFICATIONS PART 2.04.B & PART 3.06.

3 DEHUMIDIFY

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK TO DEHUMIDIFY THE INTERIOR OF THE EXISTING EST, DURING SURFACE PREPARATION & COATING, INCLUDING HOSES, FILTERS, ETC. AS INDICATED ON DRAWINGS & SPECIFICATIONS PART 3.06.

4 CONTAINMENT AND DUST COLLECTION

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK TO PROVIDE CONTAINMENT AND DUST COLLECTION AS INDICATED ON DRAWINGS AND SPECIFICATIONS PART 3.07.

5 WELDING, GRINDING, AND GENERAL REPAIRS

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK PERFORM GENERAL REPAIRS, GRINDING, WELDING & GENERAL WORK TO REPAIR CORROSION RELATED SURFACES, EXTERIOR LADDER REPLACEMENT, BALCONY MID-RAILING MODIFICATIONS & REPOSITIONING ELECTRICAL CONDUIT & OBSTACLES PREVENTING SAFE USE & RENDERING ALL OSHA COMPLIANCE PER DRAWINGS AND SPECIFICATIONS.

6 ROOF VENT

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK TO INSTALL A 20" DIA. AWWA APPROVED ALUMINUM ROOF VENT, INCLUDING A NEW WELD-ON C.S. FLANGED NECK TO ACCOMMODATE THE BOLT ON INSTALLATIONS OF THE NEW ALUMINUM VENT, AS INDICATED ON DRAWINGS & SPECIFICATIONS.

7 LADDER & RAILING REPLACEMENT

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK TO PERFORM INTERIOR AND EXTERIOR LADDER REPLACEMENT, BALCONY MID-RAILING MODIFICATIONS AND RENDERING ALL OSHA COMPLIANCE AS INDICATED ON DRAWINGS & SPECIFICATIONS.

8 RISER MANWAY

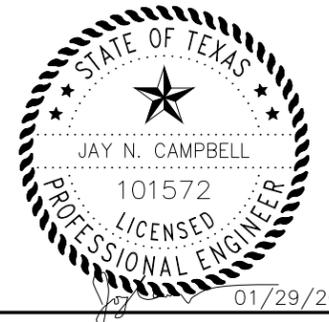
FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK TO INSTALL NEW RISER MANWAY 18"x24" OVAL OR 24" DIA. AWWA D100 APPROVED & TCEQ COMPLIANCE AS INDICATED ON DRAWINGS & SPECIFICATIONS.

9 CAULKING & SEAM SEALING

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK TO PERFORM CAULKING AND/OR SEAM SEALING WORK TO SEAMS & AREAS AS DEEMED NECESSARY, AS INDICATED ON DRAWINGS & SPECIFICATIONS Part 3.01.A.2.

10 ANTENNA REMOVAL & REPLACEMENT

FURNISH ALL MATERIALS, EQUIPMENT, LABOR, SUPERINTENDENCE & INCIDENTAL WORK TO PERFORM REMOVING & REINSTALLING ELECTRICAL CONDUIT & ANTENNAS AS NEEDED FOR TANK REHAB. CONTRACTOR SHALL COORDINATE WITH NORTH SIDE INDEPENDENT SCHOOL.



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**TANK EXTERIOR AND
INTERIOR UPGRADES**

FED. RD. DIV. NO.	FEDERAL AID PROJECT			SHEET NO.
				4
STATE	DIST.	COUNTY		
TEXAS		BEXAR COUNTY		
CONT.	SECT.	JOB	HIGHWAY NO.	