ADDENDUM NO. 1

December 26, 2023

TO PROSPECTIVE BIDDERS UNDER Fenter Rd Reconstruction LVWD Bid No. 24-0105-02

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached. Bid inserts pages must be returned with the bid proposal submitted to the LVWD.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum.

Receipt of this addendum must be acknowledged in the space provided in the bid form. Failure to acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

Rosa Rivera Purchasing Agent*

Date

Alejandra Gallegos, P! Project Manager Huitt-Zollars, Inc.

12/26/2023

Date

*The Purchasing Agent's signature certifies only that this document shall become part of the Contract Documents for the referenced project. Her signature is not a representation that the content of this Document is technically correct. ADDENDUM NO. 1 Bid No. 24-0105-02 December 22, 2023 Page 2 of 9

PART A – QUESTIONS SUBMITTED BY PROSPECTIVE BIDDERS

The purpose of this part of the Addendum is to answer questions submitted by prospective bidders as follows:

1. I am writing to request a copy of the pre-bid meeting attendance sheet, any addenda that have been released to date and the plan holders list if available. I would also like to know the estimated budget for this project.

Answer:

Attachment 1 includes the pre-bid meeting attendance sheet and agenda. The agenda has been updated. Item III, Item V.1.B, Item V.11, and Item V.12 were revised. The milestone descriptions under Item V.1 were also revised.

Addenda No. 1 is the only addenda that has been released to date.

There is no plan holders list available.

The estimated range for the Base Bid 1 is between \$690,000 and \$720,000.

The estimated range for the Base Bid 2 is between \$320,000 and \$340,000.

2. Plans and bid form call for the removal and disposal of existing Asphalt Pavement and Basecourse. After visiting the jobsite, it looks like both of these have been removed. Please confirm the extends of the removal. Depending on how much was removed this will also affect the quantity of select fill. Can the bid documents and quantities be updated to reflect this?

Answer:

The asphalt layer has been removed for the entire length of the project, except for an 800 SY section between approximately STA 16+00 to STA 19+00. The area highlighted in yellow in the following exhibits show an approximation of the area where the existing asphalt pavement was not removed.





The base course layer was only removed for the areas where a water and sewer line trench was excavated. The depth of the base course removed was about 1 inch at those locations. The rest of the soil removed in the trenches was native soil.

3. Per question #1 What will the new grade lines be? Will an updated existing conditions survey be provided to the contractor?

Answer:

The proposed grading will not change. It will remain as proposed in the engineering design plans.

An updated existing conditions survey will not be provided.

4. On Plan Sheet Number 2 of 29; GRADING SPECIFICATIONS Note 12. States the following " IN AREA\S WHERE PUMPING OCCURS, THE CONTRACTOR SHALL REMOVE THE SATURATED MATERIAL AND REPLACE WITH CEMENT STABILIZED BACKFILL (2-SACK). THIS SHOULD BE SUBSIDIARY TO ITEM 13 COMPACTED SELECT FILL AND ITEM 14 SUBGRADE PREPARATION. It is unknown if pumping will occur or not. How much 2-Sack should we include on these bid items?

Answer:

As per Note 10, weak or soft areas identified during proof rolling should be removed to a minimum depth of 8 inches. If the soil is suitable (not saturated) at this depth, the removed 8 inch depth of soil should be replaced with suitable, compacted select fill. However, if saturated soil conditions exist at this depth, the removed 8 inch depth of soil should be replaced backfill. Significant use of cement stabilized backfill is not anticipated.

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5. Horizontal and Vertical Control Information is missing from STA 12+00 to 19+50.

<u>Answer:</u>

Horizontal and vertical control information is not necessary between STA 12+00 and 19+50 since the control information provided in Sheet 3 can be used for the missing area.

6. There is a 2 ft. wide Bench shown in the pavement cross section detail (Sheet 24). Will this section have a compacted base and asphalt layer? If so, can you clarify type and thickness of these layers?

Answer:

The 2 ft bench will not have a compacted base nor an asphalt layer. The bench and parkway grading will consist of native soil and will only require ordinary compaction.

7. There is an existing Gas Line shown in Plan sheets 7 ~ 11. In case there is the need to relocate, Is the Town of Clint / LVWD responsible for payment of this item?

Answer:

Relocation of the existing gas line is not expected. The contractor shall protect the gas line in place. In the event that the gas line needs to be relocated, this will have to be coordinated with Texas Gas and Texas Gas will be responsible for this expense. The Contractor will be financially responsible for any damage to existing utility lines.

8. There is three (3) existing Power Poles marked for relocation on Sheets 11 and 12. Is the Town of Clint / LVWD responsible for payment of this item?

<u>Answer</u>:

The Town of Clint will be responsible for the payment of the power poles called out for replacement in Sheets 11 and 12. However, it is the Contractor's responsibility to inform El Paso Electric at least two weeks in advance of construction near their facilities.

9. Does the Engineer have a Project Estimate cost?

<u>Answer:</u>

The estimated range for Base Bid 1 is between \$690,000 and \$720,000.

The estimated range for Base Bid 2 is between \$320,000 and \$340,000.

ADDENDUM NO. 1 Bid No. 24-0105-02 December 22, 2023 Page 5 of 9

10. Bid Form calls for only two (2) Water Valves to be adjusted to grade. Will the current contractor installing the water & sewer lines do their own adjustments for Gate Valves, Fire Hydrants & Manholes?

Answer:

Concrete collars and adjustments to match proposed pavement or parkway grade for water valves, water meters, man holes, and water valves for fire hydrants will be included in this project. The bid tab items, quantities and specifications have been updated. Refer to Attachment 2 for the latest engineering plans for the water and sewer line project and Attachments 3 and 4 for the updated bid tabs.

11. Will all the new residential driveways to receive asphalt ?

Answer:

Asphalt driveways are not proposed for all existing residential driveways. Asphalt driveways are only proposed for existing driveways that have asphalt and will be disturbed as a result of the proposed work. Refer to Sheets 9 through 11 for proposed asphalt driveways. Driveways called out as "Unpaved Driveways" will only require ordinary compaction and are identified for informational purposes only.

12. Will Owner pay for Density testing?

Answer:

Yes, the Owner will pay for density testing. However, the Contractor will be responsible to pay for all failing tests as indicated in Specification 01 40 00 Testing Laboratory Services.

13. On Sheets 5 & 6, Note number 9 states that "Water and sewer lines installed in 2023 by LVWD are not reflected in this sheet or Engineering Plans". Will As-Builts for these lines be provided to the Contractor?

Answer:

As-builts are not currently available. However, the latest engineering plans for the water and sewer lines with clouded revisions are included in *Attachment 2*.

14. Will there be any grading permit fees associated with this project? If yes, who will pay for this, Owner or Contractor?

<u>Answer:</u>

The Contractor shall submit a request for an Ordinance No. 144 Building Permit from the Town of Clint. The fee will be waived.

PART B – BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

No. 1.01 00300 - 3 DELETE BID FORM Section 00300 page 00300-3 REPLACE in its entirety with attached BID FORM Section page 00300-3 in Attachment 3. Revisions to Base Bid 1 include revision to quantities for Ite 9 and 10; revision to the item number, description, and qu for Item 4; and addition of Item 22 Adjust Manhole. 1.02 00300 - 5 DELETE BID FORM Section 00300 page 00300-5 REPLACE in its entirety with attached BID FORM Section page 00300-5 in Attachment 4. Revisions to Base Bid 2 include revision to quantities for Item	
1.01 00300 - 3 DELETE BID FORM Section 00300 page 00300-3 REPLACE in its entirety with attached BID FORM Section page 00300-3 in Attachment 3. Revisions to Base Bid 1 include revision to quantities for Ita 9 and 10; revision to the item number, description, and qu for Item 4; and addition of Item 22 Adjust Manhole. 1.02 00300 - 5 DELETE BID FORM Section 00300 page 00300-5 REPLACE in its entirety with attached BID FORM Section page 00300-5 REPLACE in its entirety with attached BID FORM Section page 00300-5 REPLACE in its entirety with attached BID FORM Section page 00300-5 in Attachment 4. Revisions to Base Bid 2 include revision to quantities for Ita	
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Revisions to Base Bid 2 include revision to quantities for It.	5 and 00300
7 and 8; revision to the item number, description, and quant Item 4; addition of Item 9 Adjust Water Valve, Item 10 A Water Meter, and Item 22 Adjust Manhole; and revisi description for Item 21.	ems 3, tity for Adjust ion to
1.0300500 - 1DELETE BID FORM page 00500-1 and REPLACE in its endwith attached BID FORM page 00500-1 in Attachment 5.	ntirety
Adjustment of manholes was added to project description.	
1.04 00500 - 2 DELETE BID FORM page 00500-2 and REPLACE in its environment with attached BID FORM page 00500-2 in Attachment 6. Milestone 2 time frame was corrected to 163 Calendar Days	ntirety
1.05Section 00900 ARPA Required Information, Attachment GDELETE Section 00900 ARPA Required Information, Attac G: Ethics and Conflict of Interest Acknowledgement form entirety and REPLACE with Section 00900 ARPA Re Information, Attachment G: Ethics and Conflict of In Acknowledgement form in Attachment 7 of Addendum No.1.05Section 00900 ARPA Required Information, Attachment G1.05Section 00900 ARPA Required Information, Attachment G1.05Section 00900 ARPA Required Information, Attachment G1.05Section 00900 ARPA Required Information, Attachment G1.05Section 00900 ARPA Required Information, Attachment G: Ethics and Conflict of In Acknowledgement form in Attachment 7 of Addendum No.1.05Form was revised to reference Town of Clint	hment in its equired nterest . 1.

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PART C – TECHNICAL SPECIFICATIONS

Item No.	Page or Drawing No	Location and Description of Change
1.06	Table of Contents	DELETE Table of Contents in its entirety and REPLACE with Table of Contents in Attachment 8
		Revised name of Sections 03 40 00 and 33 05 13.
1.07	01.00.00 1	DELETE many 01.00.00, 1 in its antimate and DEDLACE with many
1.07	01 00 00 - 1	01 00 00–1 in Attachment 9.
		Revised project description to include adjustment of manholes.
		Descriptions for Milestones 1 and 2 were revised. Milestone 1 was revised to specify flowable backfill instead of 2-sack. The Milestone 2 description was corrected to reference the 163 Calendar Days allowed to substantially complete this milestone.
1.08	01 22 00 - 3	DELETE page 01 22 00–3 in its entirety and REPLACE with page 01 22 00–3 in Attachment 10 .
		Updated Mobilization & Bonds (Bid Item No. 1) to include Item 22 in the 5% total threshold.
1.09	01 22 00 - 4	DELETE page 01 22 00–4 in its entirety and REPLACE with page 01 22 00–4 in Attachment 11 .
		Revised Item 3 Traffic Control description.
1.10	01 22 00 - 6	DELETE page 01 22 00–6 in its entirety and REPLACE with page 01 22 00–6 in Attachment 12 .
		Revised Item 13's third and last sentences.
1.11	01 22 00 - 7	DELETE page 01 22 00–7 in its entirety and REPLACE with page 01 22 00–7 in Attachment 13 .
		Revised Item 14 second to last sentence.
1.12	01 22 00 - 8	DELETE page 01 22 00–8 in its entirety and REPLACE with page 01 22 00–8 in Attachment 14 .
		Modified item name description for Item 21. Added Item 22 Adjust Manhole.
1.13	01 40 00 - 3	DELETE page 01 40 00–3 in its entirety and REPLACE with page 01 40 00–3 in Attachment 15 .
		Revised testing for asphalt pavement and concrete.

ADDENDUM NO. 1 Bid No. 24-0105-02 December 22, 2023 Page 8 of 9

PART C – TECHNICAL SPECIFICATIONS (CONTINUED)

Item No.	Page or Drawing No.	Location and Description of Change
1.14	03 40 00 - 1	DELETE page 03 40 00–1 in its entirety and REPLACE with 03 40 00–1 in Attachment 16 . Revised specification to define flowable backfill and cement stabilized backfill.
1.15	33 05 13 - 1	DELETE page 33 05 13–1 in its entirety and REPLACE with page
		33 05 13–1 in Attachment 17 . Revised specification to include adjustment of manholes.

ADDENDUM NO. 1 Bid No. 24-0105-02 December 22, 2023 Page 9 of 9

PART D – PLAN SHEETS

Item No.	Page or Drawing No	Location and Description of Change	
1.16	Sheet 2	DELETE Sheet 2 in its entirety and REPLACE with Sheet 3 in Attachment 18.	
		required for areas with pumping issues.	
1.17	Sheet 5	DELETE Sheet 5 in its entirety and REPLACE with Sheet 5 in Attachment 18.	
		Identified existing gas lines and underground communication lines that were missing from original plans. The legend was also updated to show the correct line type for existing underground communication lines.	
1.18	Sheet 6	DELETE Sheet 6 in its entirety and REPLACE with Sheet 6 in Attachment 18.	
		The legend was updated to show the correct line type for existing underground communication lines.	
1.19	Sheet 7	DELETE Sheet 7 in its entirety and REPLACE with Sheet 7 in Attachment 18.	
		Identified existing gas lines that were missing from original plans.	
1.20	Sheet 10	DELETE Sheet 10 in its entirety and REPLACE with Sheet 10 in Attachment 18 .	
		Revised Note 7, Section Note *, and callouts for Section A-A and Section B-B to reference flowable backfill, which will be required for the pavement section above the Salitral Lateral culvert.	
1.21	Sheet 18	DELETE Sheet 18 in its entirety and REPLACE with Sheet 18 in Attachment 18.	
		Added existing sign that was missing from original plans. This existing sign will be removed in this project.	

End of Addendum No. 1

ATTACHMENT 1

Fenter Rd Reconstruction

LVWD Bid No. 24-0105-02

PREBID MEETING - 11:00 a.m. (MST), December 12, 2023

AGENDA

I. SIGN IN & INTRODUCTIONS

1. Owners:

Lower Valley Water District 1557 FM 1110 Road Clint, Texas 79836

Ed Long – Chief Operations and Technical Officer	(915) 791-4480 ext. 1104
Daniel Hernandez – Project Engineer	(915) 791-4480 ext. 1110

Town of Clint, Texas

200 N. San Elizario Rd Clint, Texas 79836

Ramon Cano – Mayor915-851-3146Susie Rodriguez – Town Clerk915-851-3146Hector Parada – Maintenance Supervisor915-852-3146

2. Design Engineers and Construction Managers:

Huitt-Zollars

Alejandra Gallegos, PE – Project Manager Raul Esparza, Resident Project Representative

II. GENERAL BID PHASE REQUIREMENTS:

- 1. Bid Requirements
 - a. Local Project
 - b. Unit Price Contract
 - c. Davis/Bacon Wage Rate apply
 - d. American Rescue Plan Act (ARPA), North American Development Bank (NADBank), and Town of Clint funds
 - e. Minimum Goals:
 - 10% for Small Locally Owned Business
 - 14% for Minority-Owned Business
 - 2% for Women-Owned Business
- 2. Contract Documents consist of the project manual, which includes drawings.

III. PROJECT DESCRIPTION

The above listed project consists of providing all labor, equipment, materials, tools and incidentals to perform the work described in the Fenter Rd Reconstruction project contract documents.

Base Bid 1:

This work consists of the roadway reconstruction of Fenter Rd from STA 0+90 (beginning of project limits) to STA 11+46 and from STA 20+46 to STA 30+83.67 (end of project limits). Major work items include site demolition, 24 ft roadway improvements, header curb, asphalt driveways, roadway signing, pavement markings, and parkway grading.

Street improvements consist of HMAC pavement, header curb, HMAC driveways, striping, and installing new small roadway signs.

Other improvements consist of regrading, removal of three trees, and minor adjustments of manholes and water meters and valves. Replacement of El Paso Electric power poles is required if the pole base is exposed by 1 ft or more. Three El Paso Electric power poles will have to be replaced due to the regraded parkway. Replacement of power poles will be paid by the Town of Clint. Contractor shall coordinate with El Paso Electric at least two weeks in advance of work activities that will expose the power pole base by 1 ft or more. Contractor shall also coordinate with El Paso Electric if they will perform work activities that will destabilize the power poles.

Base Bid 1 excludes stone for the v-channels between STA 20+30 and STA 30+51.22. Grading for the v-channels will also differ between Base Bid 1 and Base Bid 1 Alternate 1. Grading for the v-channel north of Fenter Rd will not follow the grading presented in the Cross Section Sheets 15 through 17. The Contractor shall refer to the *Fenter Rd Typical Section A-A (Base Bid 1)* detail in Sheet 20 for the Base Bid 1 grading between STA 20+30 and STA 30+40.

Base Bid 1 Alternate 1:

Base Bid 1 Alternate 1 includes stone for the v-channels between STA 20+30 and STA 30+51.22. Grading for the v-channels will follow the grading presented in the Cross Section Sheets 15 through 17 and the *Fenter Rd Typical Section A-A (Base Bid 1 Alternate 1)* detail in Sheet 20 between STA 20+30 and STA 30+51.22.

Base Bid 2:

This work consists of the roadway reconstruction of Fenter Rd from STA 11+46 to STA 20+46. Major work items include site demolition, 24 ft roadway improvements, header curb, asphalt driveways, roadway signing, pavement markings, parkway grading, and adjustments of manholes and water meters and valves.

Within the Base Bid 2 boundaries, Fenter Rd crosses the Salitral Lateral and Mesa Drain, which are El Paso County Water Improvement District No. 1 (EPCWID1) facilities. The Mesa Drain culvert will be about 7.1 ft below the proposed pavement surface, while the Salitral Lateral culvert will be about 2.1 ft below the proposed pavement surface. The Contractor shall not disturb the Salitral Lateral and Mesa Drain and protect the culverts in place. The Contractor shall reconstruct the Fenter Rd section from STA 17+97 to STA 18+23, which is above the

Salitral Lateral, by February 14, 2024 under Milestone 1 to avoid conflicts with EPCWID1's irrigation season as described in the construction documents.

IV. MINIMUM GENERAL REQUIREMENTS

The Bidder, or at least three *Key Personnel employed by the Bidder, must demonstrate **Successful Completion of one project similar in nature and scope to this project within the past five (5) years and one similar project with a value of at least 50% of the value bid for this project.

BIDDER MUST MEET THE FOLLOWING MINIMUM PROJECT SPECIFIC CRITERIA IN ORDER TO QUALIFY FOR AWARD OF THE BID:

1. Key personnel shall demonstrate successful completion of at least three (3) projects with similar scope of work and size within the past five (5) years. This requirement may be satisfied by employing the services of a qualified subcontractor and a list of paving projects.

2. Project involves work within EPCWID1 right of way. Bidder shall demonstrate successful completion of at least one (1) project that included work within EPCWID1 right of way.

3. Project involves work within TxDOT right of way. Bidder shall demonstrate successful completion of at least one (1) project within the last five years that included work within TxDOT right of way.

V. PROJECT CONSTRUCTION CONSIDERATIONS

- 1. Contract Time
 - A. Milestone 1 Work shall be completed by February 14, 2024. It is expected that Notice to Proceed will be provided on January 29, 2024.
 - B. Milestone 2 163 Calendar Days from Notice to Proceed
 - C. Substantial Completion 163 Calendar Days (includes time to complete Milestones 1 and 2)
 - D. Final Completion 193 Calendar Days
 - E. Liquidated Damages
 - \$2,050/Calendar Day with a total maximum amount of \$26,650 for Milestone 1
 - \$2,050/Calendar Day for Substantial Completion
 - \$1,025/Calendar Day for Final Completion

Work under this project will be divided into the following milestones:

Milestone No. 1: Contractor shall reconstruct the Fenter Rd section from STA 17+97 to STA 18+23 by February 14, 2024 to avoid conflicts with EPCWID1's irrigation season. The Salitral Lateral crosses this segment of Fenter Rd through a culvert. Work to be completed by the Milestone 1 deadline includes demolition of existing pavement structure, excavation, placement of flowable backfill for proposed pavement structure,

header curb and parkway grading. HMAC shall be placed when weather is optimal as described in Section 32 12 17 Specifications; therefore, the base course and HMAC may be placed after the February 14, 2024 deadline. If placement of HMAC will exceed two calendar days from placement of base course, prime coat shall be applied for moisture retention and density tests shall be conducted again to verify proper compaction before HMAC placement.

Milestone No. 2: Contractor shall reconstruct the remaining sections of Fenter Rd from STA 0+90 to STA 17+97 and from STA 18+23 to STA 30+83.67 as described in the Fenter Rd Reconstruction engineering plans and the specifications. Placement of base course and HMAC between STA 17+97 and STA 18+23 shall also be completed within the 163 Calendar Days allowed to substantially complete Milestone 2.Contractor may start Milestone No. 2 work with Milestone No. 1 activities.

- 2. Contractor Schedule
 - A. No construction will begin until Engineer has received and approved the schedule. Separate schedules for Milestones 1 and 2 can be submitted and approved independently.
 - B. A revised schedule will be submitted every two weeks at the biweekly meetings.
 - C. Regular working hours shall be defined as Monday through Friday from 8:00 a.m. to 4:30 p.m.
 - D. Allowed working hours in the vicinity of TxDOT ROW are from 9 a.m. to 4 p.m., Monday through Friday.
 - E. Work may be allowed on Saturdays between January 29, 2024 and February 14, 2024 with Owner's written consent given after prior written notice to Engineer.
- 3. Water for Construction Coordinate with the Lower Valley Water District to determine location of water source. Contractor will be responsible for paying for the water used.
- 4. Dust and Noise Control Sections 1.7 and 1.8 of Specifications
- 5. Traffic Control
 - Implement TCP provided in engineering plans, which follow TxDOT standards and requirements.
 - Shadow vehicle with TMA shall be used when workers are present at the Fenter Rd and FM 76 intersection, which shall only be allowed for one day, with up to four daily applications.
 - Traffic control using TxDOT Standard TCP (2-3)-23 (2-3a) and Detail B shall only be allowed when working at the Fenter Rd and FM 76 intersection. TxDOT Standard TCP (2-3)-23 (2-3a) and Detail B shall only be allowed for one day, with up to four daily applications. TCP (2-1)-18 (2-1b) and Detail A shall be reinstated after work hours.

- Water filled barriers shall be used in lieu of plastic drums inside lateral buffer zones when excavating over 24" and/or slopes cannot be installed due to field conditions.
- 6. Shop Drawings Shop drawings must be submitted and approved by the Engineer before any materials are installed.
- 7. TPDES Stormwater Pollution Prevention Plan requirements- Small Construction Site
- 8. Permits
 - Contractor will need to submit Town of Clint Ordinance No. 144 Building Permit. No fee will be charged.
 - Engineer will obtain TxDOT Permit Form 1058 Permit to Construct Access Driveway Facilities on Highway Right of Way
- 9. Construction Easements from residents in adjacent properties will be obtained by Engineer
- 10. Materials Testing Requirements LVWD will provide Materials Testing during Construction.
- 11. Water & Sewer Adjustments Meters, valves and manholes need to be adjusted to proposed grade. Coordinate with LVWD.
- 12. Utility Coordination
 - 48-hour notification is required of all contractors working in the vicinity of high pressure gas lines and to allow stand-by personnel to be present during excavation.
 - Contractor shall inform Texas Gas of required utility adjustments and relocations at least 30 days in advance of planned construction.
 - Contractor shall coordinate with El Paso Electric at least two weeks in advance of planned construction near power poles to be replaced or stabilized.

VI OTHER CONSIDERATIONS

- 1. Bid Requirements:
 - A. Bids due by 3:00 p.m. (MST), Friday, January 5, 2024
 - B. Questions shall be submitted to LVWD in writing no later than Tuesday, December 19, 2023.
 - C. Include ARPA Required Documents
- 2. Addendum(s)
- VII. QUESTIONS
- VIII. ADJOURN

Fenter Rd Reconstruction LVWD Bid No. 24-0105-02 PREBID MEETING – 11:00 a.m. (MST), December 12, 2023

Sign-in Sheet

		Phone:	E
Name PASIO MOTA	Za Wullington Dr. Ap. 225	915 246 4103	pmoly OSCITUNKS. COM
Company SPIASS		,	
Nam HECTOR PARADA	Address:	Phone:	Email:
Company		915-283144	TWON VE CL'AT
Name - (()	Address:	Phone:	Email:
Company Company	13247 Alameda	915-996-5292	DOHRLA CEPIWIDI NO
EPCVID7			1
Name Mail Munky	Address:	Phone:	Email:
Company Smith Lu	6 King Loup	575-894-6161	Smithco & smithcorre
Name	Address:	Phone:	Email:
Donovan Casyone	14160 Blair Dr.	015-575-2358	1 01
Company Bain Const	Itrizo City JA	915 - 525 - 2718	donovan a bainconstruction
Vame (JERALI) GRI, ALVA	Address: / '	Phone:	Email:
Company LI/IICN		915 791-44 20-1100	agrialia Plundas
Name	Address:	Phone:	Email:
David Hernunde		Thome.	
Company		915-791-4480-1110	Chesander Qlundorg
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ATTACHMENT 2





LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER AND SEWER IMPROVEMENTS

LVWD BID No. 23-0207-01

JANUARY 2023

PRESIDENT ROSALINDA VIGIL VICE—PRESIDENT DAVID CARRASCO SECRETARY/TREASURER HENRY TRUJILLO

> DIRECTOR DAVID ESTRADA

DIRECTOR ROD CHAVEZ

GENERAL MANAGER GERALD GRIJALVA

FRANK X. SPENCER & ASSOCIATES, INC. Consulting Civil Engineers & Surveyors (TBPE# F-3584, TBPLS# 100490-00) 1130 MONTANA AVE EL PASO, TX 79902 Ph: (915) 533-4600 Fax:(915)533-4673 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF <u>BID OPPENING OR CONSTRUCTION UNDER THE AUTHORITY</u> OF JAVIER ACOSTA, P.E. 109225 ON JANUARY 10, 2023.





DESCRIP
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VER & WATER STANDARD DETAILS
ANNEL PLAN AND PROFILE

S	HEET NO.	
1	OF 34	



CONTROL POINTS & TEMPORARY BENCHMARKS				
CP	NORTHING (Y)	EASTING (X)	ELEVATION	DESCRIPTION
100	10591279.44	466981.20	3637.09	SET 5/8" REBAR WITH FXSA CAP
101	10593185.05	465181.34	3636.63	SET 5/8" REBAR WITH FXSA CAP
102	10595437.39	463247.21	3638.44	SET 5/8" REBAR WITH FXSA CAP
108	10592164.92	463363.75	3638.60	SET 5/8" REBAR WITH FXSA CAP
109	10591308.78	464573.50	3636.53	SET 5/8" REBAR WITH FXSA CAP
110	10591224.51	463342.85	3638.16	SET 5/8" REBAR WITH FXSA CAP



- WHEN WATER LINES ARE INSTALLED IN THE VICINITY OF SEWER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH SECTION 290.44 (WATER DISTRIBUTION) AS PUBLISHED IN "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" BY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, (DECEMBER, 1995 OR ANY REVISION THERETO).
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL OR BETTER CONCRETE SIDEWALKS, CURBS, CONCRETE RAMPS, SPRINKLER SYSTEMS, LANDSCAPE, PAVEMENT. THE RESTORATION SHALL BE INCIDENTAL TO THE CONTRACT ITEMS, AND SHALL NOT BE PAID FOR SEPARATELY.
- SURFACE STRUCTURES SUCH AS STREETS SIGNS, DRIVEWAYS, LANDSCAPING, CULVERTS, CONTRACTORS RESPONSIBILITY TO SAFEGUARD AND MAINTAIN ANY AND ALL SURFACE DAMAGED BY THE CONTRACTOR WITH LIKE OR BETTER QUALITY.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, ACCESS TO GAS VALVES MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA, COORDINATE ALL WORK WITH AFFECTED GAS UTILITY COMPANIES.
- WHENEVER POWER POLES ARE ADJACENT TO THE PROPOSED WATER/SANITARY 6. SEWER LINE. THE CONTRACTOR SHALL PROVIDE PROPER SHORING OR OTHER METHODS MUST BE APPROVED BY THE UTILITY COMPANY MAINTENANCE DEPARTMENT. NO SEPARATE PAYMENT.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE RECORDS AVAILABLE AND ARE NOT GUARANTEED. BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF, THE EXISTING UTILITIES DURING CONSTRUCTION, EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTACT: LOWER VALLEY WATER DISTRICT
 - TEXAS GAS SERVICE TXDOT EL PASO DISTRICT
 - EL PASO ELECTRIC COMPANY AT&T REPAIR EL PASO COUNTY COURT HOUSE
- EL PASO WATER THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES IF MODIFICATIONS OF DEPTH
- DESIGN OF THE PROPOSED WATER/SANITARY SEWER LINE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND GRADE OF THE UTILITIES WITH THE 10. UTILITY COMPANIES WELL AHEAD OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- 11. TRAFFIC AND SPECIAL CONDITIONS: TRAFFIC ENGINEERING REPRESENTATIVES WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.
- 12. THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS AND BUSINESS OWNERS THAT THEY MAY BE AFFECTED BY THE CONSTRUCTION TEN DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SAFE DRIVEWAY ACCESS AND PROVIDING FULL DRIVEWAY ACCESS AT ALL TIMES FOR LANDOWNERS.
- 13. ALL TIE-INS SHALL BE CLOSELY COORDINATED WITH LOWER VALLEY WATER DISTRICT AT LEAST 48-HOURS PRIOR TO ACTUAL CONSTRUCTION. CLOSING AND OPENING OF EXISTING VALVES SHALL BE OPERATED BY THE LOWER VALLEY WATER DISTRICT. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE TO CUSTOMERS IF SERVICE WILL BE INTERRUPTED FOR MORE THAN 4 HOURS IN A 24 HOUR PERIOD.
- 14. ANY HORIZONTAL RADIUS OF CURVATURE FOR THE WATERLINE SHALL BE IN ACCORDANCE AND RECOMMENDATIONS WITH PIPE & JOINT DEFLECTION SPECIFIED BY THE MANUFACTURER.
- 15. GRADING, PAVEMENT CUT, HAULING, AND STORM WATER POLLUTION PREVENTION PLAN PERMITS MAY BE REQUIRED FROM APPROPRIATE AGENCIES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMITS.
- 16. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF POWER POLES AND ASSOCIATED EQUIPMENT WHILE EXCAVATING IN THE VICINITY OF THESE FACILITIES.
- 17. ALL GATE VALVES TO OPEN COUNTER CLOCKWISE
- LINES A BOUNDARY SURVEY WILL BE REQUIRED. WATER UTILITIES DIVISION - RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS AS
- 20. IN ACCORDANCE WITH TXDOT DETAILS AND SPECIFICATIONS.
- TRENCH EXCAVATION PROTECTION: 21. THE CONTRACTOR SHALL INDEPENDENTLY RETAIN/OR EMPLOY A STRUCTURAL DESIGN/ TRENCH SAFETY PROVISIONS. THIS INDIVIDUAL SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEMS THAT COMPLY WITH, AS A STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND SUBPART P - EXCAVATIONS, REQUIREMENTS AS PUBLISHED IN THE CODE OF FEDERAL REGULATIONS JULY 1996 OR ANY REVISIONS THERETO.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ADDITIONAL FITTINGS WHERE NECESSARY IN ORDER TO MAKE ADJUSTMENTS AND/OR COMPLETE PROPER INSTALLATION OF THE WATERLINES.
- 23. SERVICE CONNECTIONS INDICATED ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM LOCATION INSTALLATION BY THE CONTRACTOR.
- AND OWNER REGARDING FINAL ALIGNMENT OF PROPOSED WATER/SANITARY SEWER LINE, AT NO CHARGE TO THE CONTRACT.

BENCHMARKS:			LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHEET NO.	
	NO. DATE 1 1/31/23	REVISIONS ADDENDUM # 2	BY J.A.	GENERAL LAYOUT & GENERAL NOTES	2 OF 34

GENERAL NOTES:

CONDITION ALL DAMAGE CAUSED TO EXISTING IMPROVEMENTS SUCH AS FENCES, LAWNS, BUILDINGS, CONCRETE DRIVEWAYS, DRAINAGE STRUCTURES, FIBER OPTICS, AND EXISTING

ETC., ARE SHOWN ON THE PLANS AS VISIBLE AT THE TIME OF THE SURVEY. IT IS THE STRUCTURES DURING THE COURSE OF WORK AND TO REPLACE THOSE ITEMS WHICH ARE

SUITABLE SUPPORT DURING CONSTRUCTION OF THE WATER/SANITARY SEWER LINE, WHICH

1-915-791-4480
1-800-959-5325
1-915-790-4200
1-800-592-1634
1-888-944-0447
1-915-546-2000
1-915-594-5500

AND/OR COURSE OF EXISTING UTILITY LINES ARE REQUIRED TO COMPLY WITH THE

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TRAFFIC CONTROL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY CONTRACTOR, USING THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE COUNTY CONSTRUCTION INSPECTOR AND THE REPRESENTATIVES AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO

18. LOCATIONS OF BOUNDARY LINES ARE APPROXIMATE. TO OBTAIN LOCATION OF BOUNDARY

ALL WORK TO BE DONE UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH TCEQ PUBLISHED IN THE 10-20-95 TEXAS REGISTER, DECEMBER 1995 OR ANY REVISIONS THERETO.

UTILITY TRENCH BACKFILL & COMPACTION SHALL BE IN ACCORDANCE WITH THE LOWER VALLEY WATER DISTRICT TRENCHING DETAILS AND SPECIFICATIONS. FURTHERMORE, ALL UTILITY TRENCHING BACKFILL & COMPACTION WITHIN TXDOT R.O.W. (NORTH LOOP DR - FARM RD 76) SHALL BE

GEOTECHNICAL/SAFETY EQUIPMENT PROFESSIONAL TO DESIGN AND MONITOR ALL REQUIRED WITHIN THE PROJECT WORK AREA IN ORDER TO DEVELOP THE CONTRACTOR'S TRENCH SAFETY PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, THE CONTRACTOR'S TRENCH SAFETY PROFESSIONAL AND/OR CONTRACTORS INDEPENDENTLY RETAINED SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA

IRENCH EXCAVATION. ALL EXCAVATING SHALL BE DONE IN ACCORDANCE WITH 29 CFR 1926,

OF SERVICE CONNECTIONS WITH OWNER AND THE LOWER VALLEY WATER DISTRICT PRIOR TO

24. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, THE LOWER VALLEY WATER DISTRICT

25. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH AN AS-BUILT PLAN INDICATING THE LOCATION, DISTANCE FROM EXISTING ROW, AND LENGTH OF ALL WATERLINES, SANITARY SEWER, VALVES, SERVICE CONNECTIONS, FITTINGS, MANHOLES AND APPURTENANCES (WITH STATION AND ELEVATIONS). AS-BUILTS SHALL BE SUBMITTED ON A USB FLASH DRIVE AND A 24" X 36" HARDCOPY SET OF PLANS.

- 26. THE CONTRACTOR SHALL PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AND MECHANICAL JOINT RESTRAINERS AT THE FOLLOWING: TAPPING SLEEVES, TEES, BENDS, PLUGS AND ALL FITTINGS.
- 27. ALL VALVES ON P.V.C. WATER MAINS SHALL BE ANCHORED IN CONCRETE, SEE ANCHOR DETAILS.
- 28. ALL P.V.C. PIPE ON THIS PLAN SHALL BE ENCASED WITH INDICATED BEDDING MATERIAL.
- 29. INSTALL NEW WATER LINES WITH 4' OF COVER UNDER PROPOSED FINISH GRADE.
- 30. CONTRACTOR TO REPLACE ALL EXISTING WATER SERVICES (IF APPLICABLE), TO INCLUDE METER BOXES, NEW PIPING, FITTINGS, VALVES & ALL APPURTENANCES. NO SEPARATE PAYMENT.
- 31. RECONNECTION OF EXISTING WATER LINE SYSTEM SHOWN ON THESE PLANS MUST BE MADE SUCH THAT MINIMAL INTERRUPTION OF SERVICE TO CUSTOMER IS MADE.
- 32. ALL EXISTING LINES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING WATER/SANITARY SEWER LINES (INCLUDING SERVICES) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES.
- 33. PIPE MATERIALS AND PIPE TO BE ABANDONED IN PLACE, THAT ARE REMOVED WILL BE DISPOSED OFF AT THE CONTRACTORS RESPONSIBILITY AND EXPENSE.
- 34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL TRAFFIC DEVICES.
- 35. USE CAUTION WHEN DIGGING IN THE AREA OF EXISTING GAS LINE. VERIFY DEPTH AND LOCATION OF GAS MAIN BEFORE CONSTRUCTION.
- 36. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A TRAFFIC CONTROL PLAN TO THE LOWER VALLEY WATER DISTRICT ENGINEERING DEPARTMENT AND TXDOT FOR APPROVAL. THE TCP SHALL BE IN ACCORDANCE WITH THE TMUTCD AND SHALL BE SUBMITTED AT LEAST 2 WEEKS BEFORE CONSTRUCTION.
- 37. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN PHOTOGRAPHS AND VIDEO OF ALL FENCES, WALLS, AND HOUSES INCLUDING TREES ON BOTH SIDES OF EACH STREET WHERE WATER LINES WILL BE INSTALLED. PHOTOGRAPHS AND OR VIDEO SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO COMMENCING ANY WORK. NO DIRECT PAYMENT FOR THIS ITEM. SHALL BE SUBSIDIARY PER ALL BID ITEMS
- 38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVED TRAFFIC CONTROL BY TXDOT PRIOR TO COMMENCING ANY WORK IN TXDOT R.O.W. NO SEPARATE PAYMENT.
- 39. ALL CONCRETE SHALL BE 3000 PSI AT 28 DAYS AND MEET MATERIAL REQUIREMENTS OF "CAST IN PLACE CONCRETE" OF THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
- 40. ALL REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE MATERIAL AND CONSTRUCTION REQUIREMENTS OF "REINFORCING STEEL" OF THE SPECIFICATIONS.
- 41. CURING SHALL BE MADE BY THE IMPERVIOUS MEMBRANE METHOD AND SHALL MEET THE MATERIAL AND CONSTRUCTION REQUIREMENTS ON " CONCRETE WORK" OF THE SPECIFICATIONS.
- 42. PROOF ROLLING ALL SUB-GRADE AND EACH LIFT OF BASE MATERIAL SHALL BE PROOF-ROLLED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT AND OPERATORS FOR PROOF-ROLLING. SOFT AND YIELDING AREAS DISCOVERED SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO PRIME COAT AND SURFACE TREATMENT APPLICATIONS.
- 43. FINISH GRADING OF SUBGRADE AND BASE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 44. UTILITY TRENCH COMPACTION SHALL BE 95% PROCTOR PRIOR TO UTILITY ACCEPTANCE.

45. ALL WORK REQUIRED TO SAW-CUT EXISTING CONCRETE SIDEWALKS, EXISTING DRIVEWAYS, ETC. AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDER SUBSIDIARY TO THE VARIOUS BID ITEMS.

46. MOBILIZATION, DEWATERING, SWPPP, AND TRAFFIC CONTROL WILL NOT BE PAID SEPARATELY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.

EMERGENCY RESPONSE NOTE: THE CONTRACTOR SHALL IMMEDIATELY CALL AND NOTIFY TO THE LOWER VALLEY WATER DISTRICT - EMERGENCY LEAKS AT 915-588-7831 WHEN A WATER OR SANITARY SEWER IS BROKEN DURING CONSTRUCTION EXCAVATION. THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY THE LOWER VALLEY WATER DISTRICT WATER UTILITIES FIELD INSPECTOR AND PROJECT ENGINEER ASSIGNED TO THE PROJECT.

48. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RETESTING NECESSARY ON THE FAILED TESTS

49. LABORATORY TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY, THE FOLLOWING TEST SCHEDULE SHALL BE ADHERED TO: A. SUBGRADE MOISTURE AND DENSITY TEST AT THE RATE OF ONE PER EACH BLOCK,

NOT TO EXCEED 500 FEET SPACING. B. FLEXIBLE BASE P.I., L.L. AND GRADATION OF MATERIAL USED, MOISTURE AND DENSITY TEST PER LIFT ON SAME SPACING AS SUBGRADE.

C. COMPACTED FILL P.I. SHALL BE A MINIMUM OF 25 TESTS, TESTING SHALL BE PROVIDED FOR 12" LIFT, 1 TEST PER 300 LINEAR FEET OF STREET;

D. CONCRETE - TWO CONCRETE COMPRESSIVE STRENGTH TEST (4 CYLINDERS EACH) FOR EVERY 800 LINEAR FEET OF CONCRETE CAP.

ALL TESTING IS THE OWNER'S RESPONSIBILITY. COPIES OF ALL TEST RESULTS SHALL BE FURNISHED TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FAILURES & RE-TESTING EXPENSES.

HOT-MIX ASPHALTIC CONCRETE TESTING DESIGN MIXES AND TESTS FOR DENSITY AND STABILITY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AT HIS EXPENSE. ALL TESTING SHALL FULFILL THE REQUIREMENTS ON SECTION ASPHALTIC CONCRETE PAVING OF THE TECHNICAL SPECIFICATIONS.

SURVEY POINTS

- HORIZONTAL CONTROL: MAPPING COORDINATES AND BEARINGS ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, TEXAS CENTRAL ZONE 4203, NAD83. UNIT OF MEASURE: U.S. SURVEY FOOT. COORDINATES SHOWN HEREON ARE GRID USING A COMBINED FACTOR OF 1.0002127334, TO CONVERT TO SURFACE COORDINATES DIVIDED BY 0.999787312 FOR THIS PROJECT.
- 2. VERTICAL CONTROL AND ELEVATIONS ARE BASED ON NAVD 88. US SURVEY FEET.
- 3. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY, ACTUAL LOCATION AND DEPTH MUST BE VERIFIED IN THE FIELD.
- 4. UNDERGROUND UTILITIES LOCATIONS ARE BASED ON PHYSICAL FEATURES SUCH AS MANHOLES, VALVES, PEDESTALS, METERS AND SPOTTING IN THE FIELD AND ARE APPROXIMATE ONLY. NO DIGGING WAS PERFORMED TO LOCATE THE ACTUAL LOCATIONS OF BURIED UTILITIES. THE SURVEYOR DOES NOT GUARANTEE THE COMPLETENESS OR ACCURACY OF THE BURIED UTILITY DATA SHOWN HEREON. ACTUAL LOCATIONS SHOULD BE VERIFIED PRIOR TO ANY EXCAVATING.



- (1) PROPOSED 48" ARMOROCK POLYMER MANHOLE, SEE SHEET 32.

- PROTECT EXISTING SANITARY SEWER LINES AND EXISTING SERVICE
- PROPOSED PIPE CONNECTION TO EXISTING MANHOLE, SEE SHEET 32 DETAIL "330".
- OF ABANDONED WATER LINE. CONTRACTOR SHALL RECONNECT EXISTING
- SHALL FIELD VERIFY LOCATION AND DEPTH OF UTILITY LINE BEFORE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY
- (12) PROPOSED STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS. SEE DETAILS ON SHEET 27.

* ESTIMATED SHEET QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	
FURNISH AND INSTALL 8" PVC SDR-35 SANITARY SEWER PIPE, COMPLETE IN PLACE	LF	403	
48" ARMOROCK SANITARY SEWER MANHOLE WITH RING AND COVER, COMPLETE IN PLACE EA			
SAW/CUT AND PATCH PAVEMENT	SY	8	
PROPOSED 16" STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS.			
EXTRA DEPTH MANHOLES	VF	2	

REPAIRS TO ANY DAMAGE OF EXISTING IMPROVEMENTS, AT NO ADDITIONAL COST TO OWNER.

BENCHMARKS:	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS PROJECT NO. F2119EP	SHEET NO.
NO. DATE REVISIONS BY 10/26/23 ADDENDUM # 3 J.A.	ALIGNMENT "A" – 8" SANITARY SEWER LINE PLAN AND PROFILE	3 OF 34

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SCALE HOR.: 1"=30'

SCALE VER.: 1"=5' CONTOUR INTERVAL = 1.0' APART

LEGEND

Дср	CONTROL POINT AS NOTED	U	FXISTING ANCHOR GUY WIRF
۳ ^{MH}	PROPOSED 48" SANITARY SEWER MANHOLE		
	PROPOSED 8" SANITARY SEWER LINE	WV	EXISTING WATER WATER
	PROPOSED ASPHALT PAVEMENT PATCHING	GM	
	PROPOSED WATER/SEWER IMPROVEMENTS		EXISTING GAS METER
	CENTERLINE ALIGNMENT		EXISTING INDEX CONTOURS
	PROPOSED SERVICE LINE	3639	EXISTING INTERMEDIATE CONTOURS
\bigcirc	EXISTING 48" SANITARY SEWER MANHOLE	OHE	EXISTING OVERHEAD ELECTRIC
Q ^{₽/₽}	EXISTING POWER POLE	WI	EXISTING WATER LINE
. JBT	EXISTING TELEPHONE JUNCTION BOX		
d	EXISTING SIGN	SAN	EXISTING SANITARY SEWER LINE
	EXISTING WOOD POST	GAS	EXISTING GAS LINE
OPST	EXISTING POST		EXISTING ASPHALT PAVEMENT
	EXISTING MAILBOX		
·	EXISTING TRAFFIC LIGHT	.JDL	EXISTING ELECTRIC JUNCTION BOX
	PROPOSED WATER/SEWER IMPROVEMENTS		

CENTERLINE ALIGNMENT BY OTHERS (NOT PART OF THIS CONTRACT)

NOTES:

RIGHT-OF-WAY.

2

- 1. CONTRACTOR SHALL INSTALL SEWER LINES 10 FEET MIN. FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER OF WATER LINE WHEN PARALLEL TO WATERLINE.
- 2. CONTRACTOR SHALL COORDINATE WITH LOWER VALLEY WATER DISTRICT FOR SERVICE LINE CONNECTION REQUIREMENTS TO MAIN LINE.
- 3. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION OPERATIONS WITHIN THE UTILITY EASEMENTS, STREET R.O.W, ALLEYS AND ONLY THE PROPERTIES RECEIVING SERVICES.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING AND PROTECTING UTILITIES DURING CONSTRUCTION. NO SEPARATE PAYMENT.
- 5. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE RECORDS AVAILABLE AND ARE NOT GUARANTEED. BUT SHALL BE INVESTIGATED AND VERIFY BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES DURING CONSTRUCTION, EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
- 6. CONTRACTOR SHALL INSTALL GRAVITY FLOW SANITARY LINES TO THE LINES AND GRADES INDICATED ON THE PLANS USING A PIPE LASER.
- 7. SEE SHEET 2 FOR GENERAL NOTES AND GENERAL LEGEND.
- 8. SEE SHEET 2 FOR SURVEY NOTES AND CONTROL POINT TABLE.
- 9. ALL PROPOSED PIPE INVERT AND ELEVATIONS ARE TO THE PROPOSED OR EXISTING MANHOLE INVERT. UNLESS NOTED OTHERWISE ON PLANS. 10. ALL PROPOSED PROPOSED MANHOLES RIM ELEVATION SHALL MEET AND MATCH WITH FINISH GRADE ELEVATION.
- $\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark$ 11. NO OPEN CUTS IN DITCH BANKS ARE PERMITTED DURING IRRIGATION

SEASON. 12. CONTRACTOR SHALL COORDINATE WITH EPCWID #1 SIZE AND DEPTH OF BORE PITS DURING CONSTRUCTION TO WORK OUTSIDE THE EPCWID #1



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NQ.	DATE	REVISIONS
	1/31/23	ADDENDUM # 2
72	10/26/23	ADDENDUM # 3



LEGEND

KEYED NOTES:

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OP/P

., JB1

OPST

CONTROL POINT AS NOTED	\cdot	EXISTING ANCHOR GUY WIRE
PROPOSED 48" SANITARY SEWER MANHOLE	<.>₩M	EXISTING WATER METER
PROPOSED 8" SANITARY SEWER LINE	↓ ₩V	EXISTING WATER VALVE
PROPOSED ASPHALT PAVEMENT PATCHING	GM	
PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT		EXISTING GAS METER
PROPOSED SERVICE LINE	3639	EXISTING INTERMEDIATE CONTOURS
EXISTING 48" SANITARY SEWER MANHOLE	OHE	EXISTING OVERHEAD ELECTRIC
EXISTING POWER POLE	WL	EXISTING WATER LINE
EXISTING TELEPHONE JUNCTION BOX EXISTING SIGN	SAN	EXISTING SANITARY SEWER LINE
EXISTING WOOD POST	GAS	EXISTING GAS LINE
EXISTING POST		EXISTING ASPHALT PAVEMENT
EXISTING MAILBOX	⊓JBE	EXISTING ELECTRIC JUNCTION BOX
EXISTING TRAFFIC LIGHT		
PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT BY OTHERS (NOT PART OF THIS CONTRACT)		WATER TABLE ELEVATION DATE DETERMINED INDICATED

(1) PROPOSED 48" ARMOROCK POLYMER MANHOLE, SEE SHEET 32. (2) INSTALL PROPOSED 8" DIA. PVC SDR-35 SANITARY SEWER LINE. (B) EXISTING WATER LINE TO BE ABANDONED AFTER PROPOSED 12" WATERLINE IS INSTALLED AND IN OPERATION. CONTRACTOR SHALL CONCRETE FILL ALL ENDS OF ABANDONED WATER LINE. CONTRACTOR SHALL RECONNECT EXISTING SERVICES TO NEW WATER MAIN. 9 APPROXIMATE DEPTH OF EXISTING UTILITY LINE. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF UTILITY LINE BEFORE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER & ENGINEER IMMEDIATELY IF A CONFLICT IS FOUND 12 PROPOSED STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS. SEE DETAILS ON SHEET 27. 3650 PROPOSED STEEL CASING INSTALLED BY APPROVED OPEN / CUT METHOD STEEL CASING SHALL EXTEND 5 FEET BEYOND DRAINAGE/ROADWAY R.O.W. UNLESS SHOWN ON PLAN. SEE DETAILS ON SHEET 27. (16) PROPOSED 8" DIAMETER SANITARY SEWER PVC CAP. 3645 48" MA +59.09 3639. 23.53 下旦ろ PROF NIXA: DEV 3640 ------____/ NOTES: + 3635 1. CONTRACTOR SHALL INSTALL SEWER LINES 10 FEET MIN. FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER OF WATER LINE WHEN PARALLEL TO WATERLINE. 2. CONTRACTOR SHALL COORDINATE WITH LOWER VALLEY WATER DISTRICT FOR SERVICE LINE CONNECTION REQUIREMENTS TO MAIN LINE. Z 3630 3. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION OPERATIONS WITHIN THE UTILITY EASEMENTS, STREET R.O.W, ALLEYS AND ONLY THE PROPERTIES RECEIVING SERVICES. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING AND PROTECTING 8" PVC SDR-35 UTILITIES DURING CONSTRUCTION. NO SEPARATE PAYMENT. L = 113.27 3625 S = 0.33% 5. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE RECORDS AVAILABLE AND ARE NOT GUARANTEED. BUT SHALL BE INVESTIGATED AND VERIFY BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROP. SANITARY SEWER LINE 8'' PVC SDR-35 2 L = 40.91 S = 0.33% PROTECTION OF THE EXISTING UTILITIES DURING CONSTRUCTION, EVEN IF THEY ARE NOT SHOWN ON THE PLANS. 3620 6. CONTRACTOR SHALL INSTALL GRAVITY FLOW SANITARY LINES TO THE LINES AND GRADES INDICATED ON THE PLANS USING A PIPE LASER. 3618 7. SEE SHEET 2 FOR GENERAL NOTES AND GENERAL LEGEND. 8. SEE SHEET 2 FOR SURVEY NOTES AND CONTROL POINT TABLE. 8+00 9. ALL PROPOSED PIPE INVERT AND ELEVATIONS ARE TO THE PROPOSED OR EXISTING MANHOLE INVERT. UNLESS NOTED OTHERWISE ON PLANS. 10. ALL PROPOSED PROPOSED MANHOLES RIM ELEVATION SHALL MEET AND MATCH WITH FINISH GRADE ELEVATION. 11. NO OPEN CUTS IN DITCH BANKS ARE PERMITTED DURING IRRIGATION

SCALE HOR.: 1"=30'

VER.: 1"=5'

LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS SHEET NO. EL PASO COUNTY, TEXAS PROJECT No. E2119EP ALIGNMENT "C" – 8" SANITARY OF 34 J.A. 5 SEWER LINE PLAN AND PROFILE J.A.

SEASON.

RIGHT-OF-WAY.

12. CONTRACTOR SHALL COORDINATE WITH EPCWID #1 SIZE AND DEPTH OF

BORE PITS DURING CONSTRUCTION TO WORK OUTSIDE THE EPCWID #1







[™]	PROPOSED 48" SANITARY SEWER MANHOLE	A W/M		
	PROPOSED 8" SANITARY SEWER LINE		EXISTING	WAIER ME
	PROPOSED & SANTARY SEWER LINE	MMA	EXISTING	WATER VA
	PROPOSED ASPHALI PAVEMENT PATCHING	GM	EXISTING	GAS METE
	PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT		EXISTING	INDEX CO
	PROPOSED SERVICE LINE	3639	FXISTING	INTERMED
\bigcirc	EXISTING 48" SANITARY SEWER MANHOLE	OHE	EXISTING	OVERHEAD
O ₽/₽	EXISTING POWER POLE	WL	EXISTING	WATER III
⊡ JBT	EXISTING TELEPHONE JUNCTION BOX			
d	EXISTING SIGN	—— SAN ——	EXISTING	SANITARY
⊙ WP	EXISTING WOOD POST	GAS	EXISTING	GAS LINE
OPST	EXISTING POST		EXISTING	ASPHALT
	EXISTING MAILBOX		EVICTING	
·	EXISTING TRAFFIC LIGHT	⊡ JBF	EXISTING	ELECTRIC
=	PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT BY OTHERS (NOT PART OF THIS CONTRACT)			

) EXISTING 48" SANITARY SEWER MANHO	DLE OHE EXISTING OVERHEAD ELECTRIC	IN PLACE	EA	3
P/P EXISTING POWER POLE		SEPTIC TANK TO BE DECOMMISIONED	EA	3
EXISTING TELEPHONE JUNCTION BOX		CONCRETE CAP 3,000 P.S.I. CLASS "A"	LF	12
NP EXISTING WOOD POST	GAS EXISTING GAS LINE	* ALL QUANTITIES ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL B	BE RESPO	ISIBLE
PST EXISTING POST	EXISTING ASPHALT PAVEMENT	FOR INSTALLING ACTUAL QUANTITIES REQUIRED TO INSTALL ALL NEW IMPROVEMENTS SHOWN, INCLUDING A REPAIRS TO ANY DAMAGE OF EXISTING IMPROVEMENTS, AT NO ADDITIONAL COST TO OWNER.		
EXISTING MAILBOX EXISTING TRAFFIC LIGHT	□ JBE EXISTING ELECTRIC JUNCTION BOX			
PROPOSED WATER/SEWER IMPROVEMEN CENTERLINE ALIGNMENT BY OTHERS (NOT PART OF THIS CONTRACT)	NTS			
	BENCHMARKS:	LOWER VALLEY WATER DISTRICT		
SPENCER & ASSOCIATES, INC. Civil Engineers & Surveyors		NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHE	ET NO.
a Ave., El Paso, Texas 79902 -4600 Fax:(915)533-4673 ŀ90-00, TBPE# F-3584	NO. DATE REVISIONS BY 2 8/4/23 ADDENDUM # 3 J.A.	ALIGNMENT "D" – 8" SANITARY SEWER LINE PLAN AND PROFILE	9	OF 34

* ESTIMATED SHEET QUANTITIES

DESCRIPTION

UNIT QUANTITY

600

1

LF

EA

- 1. CONTRACTOR SHALL INSTALL SEWER LINES 10 FEET MIN. FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER OF WATER LINE WHEN PARALLEL TO WATERLINE.
- 2. CONTRACTOR SHALL COORDINATE WITH LOWER VALLEY WATER DISTRICT FOR SERVICE LINE CONNECTION REQUIREMENTS TO MAIN LINE.
- 3. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION OPERATIONS WITHIN THE UTILITY EASEMENTS, STREET R.O.W, ALLEYS AND ONLY THE PROPERTIES RECEIVING SERVICES.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING AND PROTECTING UTILITIES DURING CONSTRUCTION. NO SEPARATE PAYMENT.
- 5. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE RECORDS AVAILABLE AND ARE NOT GUARANTEED. BUT SHALL BE INVESTIGATED AND VERIFY BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES DURING CONSTRUCTION, EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
- 6. CONTRACTOR SHALL INSTALL GRAVITY FLOW SANITARY LINES TO THE LINES AND GRADES INDICATED ON THE PLANS USING A PIPE LASER.
- 7. SEE SHEET 2 FOR GENERAL NOTES AND GENERAL LEGEND.
- 8. SEE SHEET 2 FOR SURVEY NOTES AND CONTROL POINT TABLE.
- 9. ALL PROPOSED PIPE INVERT AND ELEVATIONS ARE TO THE PROPOSED OR EXISTING MANHOLE INVERT. UNLESS NOTED OTHERWISE ON PLANS. 10. ALL PROPOSED PROPOSED MANHOLES RIM ELEVATION SHALL MEET AND MATCH WITH FINISH GRADE ELEVATION.

IT'S THE LAW AND IT'S FREE - CALL BEFORE YOU DIG CALL TWO WORKING DAYS BEFORE YOU DIG IN TEXAS (1-800-DIG-TESS)	
ES LA LEY GRATIS PARA USTED – LLAME ANTES DE EXCAVAR LLAME 2 DIAS DE TRABAJO ANTES DE EXCAVAR EN TEXAS (1-800-DIG-TESS)	WA

KEYED NOTES:

- (1) PROPOSED 48" ARMOROCK POLYMER MANHOLE, SEE SHEET 32.
- (2) INSTALL PROPOSED 8" DIA. PVC SDR-35 SANITARY SEWER LINE.
- 3 CONTRACTOR SHALL PROTECT OVERHEAD ELECTRICAL LINES, POWER POLES & ANCHOR GUY WIRE DURING CONSTRUCTION.
- O PROPOSED 4" PVC SANITARY SEWER SERVICE LINE @0.84% MIN. SLOPE. CONTRACTOR SHALL CONNECT TO MAIN LINE AND TO EXISTING SEPTIC TANK SERVICE LINE, SEE SHEET 34 FOR DETAIL.
- (1) EXISTING SEPTIC TANK TO BE DECOMMISSIONED BY CONTRACTOR. LOCATION OF SEPTIC TANK SHOWN IS APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY SEPTIC TANK SERVICE LINE & SHALL COORDINATE WITH OWNER. SEE SHEET 34 FOR DETAIL.
- (13) CONCRETE CAP 3,000 P.S.I. CLASS "A". SEE SHEET 28 DETAIL "115 & 116"

	* ESTIMATED SHEET QUANTITIES
	DESCRIPTION
FURNISH AND INSTALL 8" P	/C SDR-35 SANITARY SEWER PIPE, COMPLETE IN PLACE
48" ARMOROCK SANITARY SI	WER MANHOLE WITH RING AND COVER, COMPLETE IN PLACE
CONCRETE CAP 3,000 P.S.I.	CLASS "A"
SEPTIC TANK TO BE DECOM	MISIONED
FURNISH AND INSTALL SANIT IN PLACE	ARY SEWER SERVICE LINE WITH CONNECTIONS AND CLEANOUT, (
ALL QUANTITIES ARE APPROX FOR INSTALLING ACTUAL QUA REPAIRS TO ANY DAMAGE OF	MATE AND PROVIDED FOR INFORMATION PURPOSES ONLY. CONTRACT VITILES REQUIRED TO INSTALL ALL NEW IMPROVEMENTS SHOWN, INC EXISTING IMPROVEMENTS, AT NO ADDITIONAL COST TO OWNER.

FXSA 1130 Montana Ave., El Paso, Texas 79902 www.fxsa.com

FRANK X. SPENCER & ASSOCIATES, INC. Consulting Civil Engineers & Surveyors

Ph:(915)533-4600 Fax:(915)533-4673 TBPLS# 100490-00, TBPE# F-3584

DATE 2 8/4/23

REVISIONS ADDENDUM # 3

BENCHMARKS:

ACP			
<u>∽</u> MH	PROPOSED 48" SANITARY SEWER MANHOLE	\odot	EXISTING ANCHOR GUY WIRE
	PROPOSED 8" SANITARY SEWER LINE	♦ WM	EXISTING WATER METER
	PROPOSED ASPHALT PAVEMENT PATCHING	MMA	EXISTING WATER VALVE
	PROPOSED WATER SEWER IMPROVEMENTS	GM	EXISTING GAS METER
and the second s	CENTERLINE ALIGNMENT		EXISTING INDEX CONTOURS
	PROPOSED SERVICE LINE	3639	EXISTING INTERMEDIATE CONTOURS
\bigcirc	EXISTING 48" SANITARY SEWER MANHOLE	OHE	EXISTING OVERHEAD ELECTRIC
O P/P	EXISTING POWER POLE	WI	EXISTING WATER LINE
. JBT	EXISTING TELEPHONE JUNCTION BOX		
d	EXISTING SIGN	SAN	EXISTING SANITARY SEWER LINE
⊙ WP	EXISTING WOOD POST	——GAS——	EXISTING GAS LINE
OPST	EXISTING POST		EXISTING ASPHALT PAVEMENT
	EXISTING MAILBOX		
·	EXISTING TRAFFIC LIGHT	JDL	EXISTING ELECTRIC JUNCTION BU
	PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT BY OTHERS (NOT PART OF THIS CONTRACT)		

	UNIT	QUANTITY
	ĿF	147
	EA	1
	LF	147
	EA	1
MPLETE	EA	1

TOR SHALL BE RESPONSIBLE CLUDING APPURTENANCES AND

	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHEET NO.		
BY J.A.	ALIGNMENT "D" – 8" SANITARY SEWER LINE PLAN AND PROFILE	10 OF 34		

FRANK X. SPENCER & ASSOCIATES, INC. Consulting Civil Engineers & Surveyors	
 1130 Montana Ave., El Paso, Texas 79902 Ph:(915)533-4600 Fax:(915)533-4673 TBPLS# 100490-00, TBPE# F-3584 	NC

DATE	REVISIONS

* ESTIMATED SHEET QUANTITIES					
DESCRIPTION	UNIT	QUANTITY			
FURNISH AND INSTALL 8" PVC SDR-35 SANITARY SEWER PIPE, COMPLETE IN PLACE	LF	791			
48" ARMOROCK SANITARY SEWER MANHOLE WITH RING AND COVER, COMPLETE IN PLACE	EA	2			
FURNISH AND INSTALL SANITARY SEWER SERVICE LINE WITH CONNECTIONS AND CLEANOUT, COMPLETE IN PLACE	EA	2			
SEPTIC TANK TO BE DECOMMISIONED	EA	2			
PROPOSED 16" STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS.	LF	80			
48" ARMOROCK SANITARY SEWER DROP MANHOLE WITH RING AND COVER, COMPLETE IN PLACE	EA				
EXTRA DEPTH MANHOLES	VF	6			

	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS PROJECT NO. E2119EP	SHEET NO.		
BY J.A.	ALIGNMENT "E" – 8" SANITARY SEWER LINE PLAN AND PROFILE	12 OF 34		

3 4:20PM J:\2021\E2119EP-LVWD NORTH LOOP WATER LINE DESIGN\10-3-0 DESIGN PHASE & PERMITS\DRAWINGS\WATER AND SEWER_PHASE 1\SHEET 13-19 WATER PLAN FENTER (F, G, H).

Ju Montana Ave.,	LI I USO, TEXUS / 330Z
:(915)533-4600	Fax:(915)533–4673
PLS# 100490-00,	TBPE# F-3584

F	BENCHMARKS:	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHEET NO.	
	NO. DATE REVISIONS BY 1 1/31/23 ADDENDUM # 2 J.A. 2 10/26/23 ADDENDUM # 3 J.A.	ALIGNMENT "F" – 12" WATER LINE PLAN AND PROFILE	14 OF 34	

		LEGENI	כ	
\backslash		CONTROL POINT AS NOTED	<:>₩M	EXISTING WATER METER
		PROPOSED 48" SANITARY SEWER MANHOLE	WV	EXISTING WATER VALVE
		PROPOSED WATER LINE AS NOTED PROPOSED ASPHALT PAVEMENT PATCHING	GM	EXISTING GAS METER
		EXISTING POWER POLE		EXISTING INDEX CONTOURS
"- Z O'	. JBT	EXISTING TELEPHONE JUNCTION BOX	3639	EXISTING INTERMEDIATE CONTOURS
	d	EXISTING SIGN	OHE	EXISTING OVERHEAD ELECTRIC
	⊙ WP	EXISTING WOOD POST	WL	EXISTING WATER LINE
"=5'	OPST	EXISTING POST	—— SAN ——	EXISTING SANITARY SEWER LINE
.0' APART		EXISTING MAILBOX	GAS	EXISTING GAS LINE
	\odot	EXISTING TRAFFIC LIGHT EXISTING ANCHOR GUY WIRE		
		PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT	JBE	EXISTING ELECTRIC JUNCTION BO
		EXISTING CHAIN LINK FENCE	WW	PROPOSED WATER VALVE
		PROPOSED STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS.	♦ WM	PROPOSED WATER METER
	MARV	PROPOSED AIR RELEASE VALVE	s¥a FH	PROPOSED FIRE HYDRANT
		PROPOSED SERVICE LINE AS NOTED	<u> </u>	WATER TABLE ELEVATION

PROPOSED WATER SERVICE LINE AND WATER METER WITH BOX AND COVER, SEE SHEETS 30 & 31 DETAILS "228, 237, 238, 239 & 240". 19 PROPOSED AIR RELEASE VALVE. SEE SHEET 29 DETAIL "212". PROPOSED STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS. STEEL CASING SHALL EXTEND 5 FEET BEYOND DRAINAGE/ROADWAY R.O.W. UNLESS SHOWN ON PLAN. PROPOSED STEEL CASING INSTALLED BY APPROVED OPEN / CUT METHODS. STEEL CASING SHALL EXTEND 5 FEET BEYOND DRAINAGE/ROADWAY R.O.W. UNLESS SHOWN ON PLAN. ~ 29 steel casing installed by open/cut method.

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* ESTIMATED SHEET QUANTITIES

DESCRIPTION	UNIT	QUANTITY	
C C-900, DR18 WATERLINE PIPE, COMPLETE IN PLACE	LF	700	
SERVICE LINE WITH CONNECTION AND WATER METER, COMPLETE IN PLACE	EA	1	
TE VALVE WITH BOX AND COVER	EA	2	
YDRANT INCLUDING ALL NECESSARY FITTING AND APPURTENANCES	EA	2	
G INSTALLED BY APPROVED OPEN / CUT METHODS.	LF	145	D/
GLE BODY COMBINATION AIR RELEASE VALVE, COMPLETE IN PLACE	EA		
5° BEND WITH MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA		
2.5" BEND WITH MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA		L
.25° BEND WITH MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA	1	

REPAIRS TO ANY DAMAGE OF EXISTING IMPROVEMENTS, AT NO ADDITIONAL COST TO OWNER.

NOTES:

- 1. CONTRACTOR SHALL INSTALL SEWER LINES 10 FEET MIN. FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER OF WATER LINE WHEN PARALLEL TO WATERLINE.
- 2. CONTRACTOR SHALL COORDINATE WITH LOWER VALLEY WATER DISTRICT FOR SERVICE LINE CONNECTION REQUIREMENTS TO MAIN LINE.
- 3. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION OPERATIONS WITHIN THE UTILITY EASEMENTS, STREET R.O.W, ALLEYS AND ONLY THE PROPERTIES RECEIVING SERVICES.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING AND PROTECTING UTILITIES DURING CONSTRUCTION. NO SEPARATE PAYMENT.
- 5. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE RECORDS AVAILABLE AND ARE NOT GUARANTEED. BUT SHALL BE INVESTIGATED AND VERIFY BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES DURING CONSTRUCTION, EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
- 6. CONTRACTOR SHALL INSTALL GRAVITY FLOW SANITARY LINES TO THE LINES AND GRADES INDICATED ON THE PLANS USING A PIPE LASER.
- 7. SEE SHEET 2 FOR GENERAL NOTES AND GENERAL LEGEND.
- 8. SEE SHEET 2 FOR SURVEY NOTES AND CONTROL POINT TABLE. 9. NO OPEN CUTS IN DITCH BANKS ARE PERMITTED DURING IRRIGATION
- SEASON. 10. CONTRACTOR SHALL COORDINATE WITH EPCWID #1 SIZE AND DEPTH

OF BORE PITS DURING CONSTRUCTION TO WORK OUTSIDE THE EPCWID #1 RIGHT-OF-WAY.

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77								
	1130	Мо	ntana	Ave.,	ΕI	Paso,	Texas	79902
	Ph:(9	15)	533-4	-600	Fa	x:(915))533-4	673
	TBPLS	5#	10049	0-00,	-	TBPE#	F-358	4

NO.	DATE	REVISIONS
/2	10/26/23	ADDENDUM # 3

	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHEET NO.		
BY J.A.	ALIGNMENT "F" – 12" WATER LINE PLAN AND PROFILE	15 OF 34		

PROPOSED WATER SERVICE LINE AND WATER METER WITH BOX AND COVER, SEE SHEETS 30 & 31 DETAILS "228, 237, 238, 239 & 240". NR RELEASE VALVE. SEE SHEET 29 DETAIL '

SCALE VER.: 1"=5'

CONTOUR INTERVAL = 1.0' APART

	1-	 FRAN Cons	IK) ultin	(. S g Ci	PEN Vil E	CER Ingir	& neers	ASS &	30(Su	CIAT rvey
		1130	Mont	ana	Ave.,	EI F	^D aso,	Техс	us .	
۱		Ph:(9	15)53	33-4	600	Fax	:(915))533	-46	573
		TBPLS	S# 1(0490	00-C	, TE	BPE#	F-3	584	1

- 1. CONTRACTOR SHALL INSTALL SEWER LINES 10 FEET MIN. FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER OF WATER LINE WHEN PARALLEL TO WATERLINE.
- 2. CONTRACTOR SHALL COORDINATE WITH LOWER VALLEY WATER DISTRICT FOR SERVICE LINE CONNECTION REQUIREMENTS TO MAIN LINE.
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- 6. CONTRACTOR SHALL INSTALL GRAVITY FLOW SANITARY LINES TO THE LINES AND GRADES INDICATED ON THE PLANS USING A PIPE LASER.
- 7. SEE SHEET 2 FOR GENERAL NOTES AND GENERAL LEGEND.
- 8. SEE SHEET 2 FOR SURVEY NOTES AND CONTROL POINT TABLE.

	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHEET NO.		
BY	ALIGNMENT "F" – 12" WATER LINE PLAN AND PROFILE	16 OF 34		

	DATE	REVISIONS	
	10/26/23	ADDENDUM # 3	
•			

 PVC C900, DR18 WATERLINE. GATE VALVE WITH BOX AND COVER. SEE SHEET 28, 29 & 20, 203, 219 & 220". SHALL PROTECT OVERHEAD ELECTRICAL LINES, & ANCHOR GUY WIRE DURING CONSTRUCTION. "X12"X12" TEE WITH MECHANICAL JOINTS AND CONCRETE KING. SEE SHEET 30 DETAIL "221". ER LINE TO BE ABANDONED AFTER PROPOSED INSTALLED AND RUNNING. CONTRACTOR SHALL L ALL ENDS OF ABANDONED WATER LINE. PE CONNECTION TO EXISTING WATER VALVE. ER LINE TO REMAIN. CONTRACTOR SHALL L ALL ENDS OF ABANDONED WATER LINE. PE CONNECTION TO EXISTING WATER VALVE. ER LINE TO REMAIN. CONTRACTOR SHALL PROTECT ER LINE TO REMAIN. CONTRACTOR SHALL PROTECT ER LINE DURING CONSTRUCTION. DEPTH OF EXISTING UTILITY LINE. CONTRACTOR WERIFY LOCATION AND DEPTH OF UTILITY LINE. 			
 22, 203, 219 & 220". SHALL PROTECT OVERHEAD ELECTRICAL LINES, & ANCHOR GUY WIRE DURING CONSTRUCTION. "X12"X12" TEE WITH MECHANICAL JOINTS AND CONCRETE KING. SEE SHEET 30 DETAIL "221". ER LINE TO BE ABANDONED AFTER PROPOSED INSTALLED AND RUNNING. CONTRACTOR SHALL L ALL ENDS OF ABANDONED WATER LINE. PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (1) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"-11.25" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET (2) PROPOSED 12"X8" REDUCER. PROPOSED 12"X8" REDUCER. PROPOSED 5TEEL CASING INSTALLED BY A BORING METHODS. STEEL CASING INSTALLED BY A BORING METHODS. STEEL CASING SHALL E DRAINAGE/ROADWAY R.O.W. UNLESS SHOW WERIFY LOCATION AND DEPTH OF UTILITY LINE 	" PVC C900, DR18 WATERLINE. ' GATE VALVE WITH BOX AND COVER. SEE SHEET 28, 29 &	11	CONNECT PROPOSED 3/4" WATER SERVICE METER. SEE SHEET 30 DETAIL "228".
 PROPOSED 12"-22.5° BEND WITH MECHANICAL JOINTS AND CONCRETE PROPOSED 12"-22.5° BEND WITH MECHAN CONCRETE PROPOSED 12"-11.25° BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET PROPOSED 12"-11.25° BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET PROPOSED 12"-11.25° BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET PROPOSED 12"-11.25° BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET PROPOSED 12"-11.25° BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET PROPOSED 12"X8" REDUCER. PROPOSED 12"X8" REDUCER. PROPOSED FIRE HYDRANT WITH WATER VA AND FITTINGS (COMPLETE). SEE SHEET 30 PROPOSED STEEL CASING INSTALLED BY A BORING METHODS. STEEL CASING SHALL E DRAINAGE/ROADWAY R.O.W. UNLESS SHOW 	02, 203, 219 & 220". SHALL PROTECT OVERHEAD ELECTRICAL LINES, & ANCHOR GUY WIRE DURING CONSTRUCTION	12	PROPOSED 12"-90" BEND WITH MECHANIC CONCRETE THRUST BLOCKING. SEE SHEET
ER LINE TO BE ABANDONED AFTER PROPOSED INSTALLED AND RUNNING. CONTRACTOR SHALL L ALL ENDS OF ABANDONED WATER LINE.PROPOSED 12"-11.25" BEND WITH MECHA CONCRETE THRUST BLOCKING. SEE SHEET PROPOSED 12"X8" REDUCER.PE CONNECTION TO EXISTING WATER VALVE.Image: Contractor shall protect FR LINE DURING CONSTRUCTION.PROPOSED FIRE HYDRANT WITH WATER VA AND FITTINGS (COMPLETE). SEE SHEET 30 PROPOSED STEEL CASING INSTALLED BY A BORING METHODS. STEEL CASING SHALL E DRAINAGE/ROADWAY R.O.W. UNLESS SHOWN	"X12"X12" TEE WITH MECHANICAL JOINTS AND CONCRETE	14	PROPOSED 12"-22.5" BEND WITH MECHAN CONCRETE THRUST BLOCKING. SEE SHEET
PE CONNECTION TO EXISTING WATER VALVE. ER LINE TO REMAIN. CONTRACTOR SHALL PROTECT ER LINE DURING CONSTRUCTION. DEPTH OF EXISTING UTILITY LINE. CONTRACTOR VERIFY LOCATION AND DEPTH OF UTILITY LINE	ER LINE TO BE ABANDONED AFTER PROPOSED INSTALLED AND RUNNING. CONTRACTOR SHALL	15 16	PROPOSED 12"-11.25" BEND WITH MECHA CONCRETE THRUST BLOCKING. SEE SHEET PROPOSED 12"X8" REDUCER.
ER LINE TO REMAIN. CONTRACTOR SHALL PROTECT ER LINE DURING CONSTRUCTION. DEPTH OF EXISTING UTILITY LINE. CONTRACTOR VERIFY LOCATION AND DEPTH OF UTILITY LINE	PE CONNECTION TO EXISTING WATER VALVE.		PROPOSED FIRE HYDRANT WITH WATER VA AND FITTINGS (COMPLETE). SEE SHEET 30
DEPTH OF EXISTING UTILITY LINE. CONTRACTOR VERIFY LOCATION AND DEPTH OF UTILITY LINE	ER LINE TO REMAIN. CONTRACTOR SHALL PROTECT ER LINE DURING CONSTRUCTION.	20	PROPOSED STEEL CASING INSTALLED BY A
	DEPTH OF EXISTING UTILITY LINE. CONTRACTOR VERIFY LOCATION AND DEPTH OF UTILITY LINE		DRAINAGE/ROADWAY R.O.W. UNLESS SHOW

BEFORE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER & ENGINEER IMMEDIATELY IF A CONFLICT IS FOUND. E LINE AT EXISTING WATER

CAL JOINTS AND Γ 30 DETAIL "221".

- NICAL JOINTS AND
- T 30 DETAIL "221"
- IANICAL JOINTS AND T 30 DETAIL "221".
- ALVE, BONNET BOX & COVER, 30 DETAILS "223, 224 & 225".
- APPROVED JACKING AND EXTEND 5 FEET BEYOND WN ON PLAN.
- 23 PROPOSED 12" MECHANICAL JOINT END CAP.

* ESTIMATED SHEET QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	
FURNISH AND INSTALL 12" PVC C-900, DR18 WATERLINE PIPE, COMPLETE IN PLACE	LF	427	/2
FURNISH AND INSTALL WATER SERVICE LINE WITH CONNECTION, COMPLETE IN PLACE	EA	1	
FURNISH AND INSTALL FIRE HYDRANT INCLUDING ALL NECESSARY FITTING AND APPURTENANCES	EA	1	1
FURNISH AND INSTALL 12" GATE VALVE WITH BOX AND COVER	EA	$\left\{ \begin{array}{c} 2 \end{array} \right\}$	1
PROPOSED 24" STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS.	LF	50	1
FURNISH AND INSTALL 12"-90" BEND WITH MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA	$\sqrt{3}$	
FURNISH AND INSTALL 12"X12"X12" TEE WITH MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA	$\left(\circ \right)$	
REMOVE AND RELOCATE EXISTING SIGN	EA	$\left(\circ \right)$	1
FURNISH AND INSTALL 12"-22.5" BEND WITH MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA	$\left(\circ \right)$]
FURNISH AND INSTALL 12"-11.25" BEND WITH MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA	(0 3	
FURNISH AND INSTALL 12"X8" REDUCER	EA		<u>/2</u>
		$\overline{}$	•

★ ALL QUANTITIES ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ACTUAL QUANTITIES REQUIRED TO INSTALL ALL NEW IMPROVEMENTS SHOWN, INCLUDING APPURTENANCES AND REPAIRS TO ANY DAMAGE OF EXISTING IMPROVEMENTS, AT NO ADDITIONAL COST TO OWNER.

	LEGENI	D	
Acp	CONTROL POINT AS NOTED	↔ ^{wm}	EXISTING WATER METER
	PROPOSED 48" SANITARY SEWER MANHOLE	WV	EXISTING WATER VALVE
	PROPOSED WATER LINE AS NOTED PROPOSED ASPHALT PAVEMENT PATCHING	GM	EXISTING GAS METER
	EXISTING POWER POLE		EXISTING INDEX CONTOURS
JBT	EXISTING TELEPHONE JUNCTION BOX	3639	EXISTING INTERMEDIATE CONTOURS
d	EXISTING SIGN	OHE	EXISTING OVERHEAD ELECTRIC
⊙ WP	EXISTING WOOD POST	WL	EXISTING WATER LINE
OPST	EXISTING POST	SAN	EVICTING CANITARY SEWER LINE
	EXISTING MAILBOX	SAN	EXISTING SANITART SEWER LINE
·	EXISTING TRAFFIC LIGHT	——GAS——	EXISTING GAS LINE
$\cdot \cdot$	EXISTING ANCHOR GUY WIRE		EXISTING ASPHALT PAVEMENT
	PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT	JBE	EXISTING ELECTRIC JUNCTION BOX
 X X	EXISTING CHAIN LINK FENCE	MW	PROPOSED WATER VALVE
777777777	PROPOSED STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS.	♦ WM	PROPOSED WATER METER
	PROPOSED AIR RELEASE VALVE	>≣ ∢ FH	PROPOSED FIRE HYDRANT
	PROPOSED SERVICE LINE AS NOTED		WATER TABLE ELEVATION DATE DETERMINED INDICATED

NOTES:

- 1. CONTRACTOR SHALL INSTALL SEWER LINES 10 FEET MIN. FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER OF WATER LINE WHEN PARALLEL TO WATERLINE.
- 2. CONTRACTOR SHALL COORDINATE WITH LOWER VALLEY WATER DISTRICT FOR SERVICE LINE CONNECTION REQUIREMENTS TO MAIN LINE.
- 3. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION OPERATIONS WITHIN THE UTILITY EASEMENTS, STREET R.O.W, ALLEYS AND ONLY THE
- PROPERTIES RECEIVING SERVICES.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING AND PROTECTING UTILITIES DURING CONSTRUCTION. NO SEPARATE PAYMENT.
- 5. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE RECORDS AVAILABLE AND ARE NOT GUARANTEED. BUT SHALL BE INVESTIGATED AND VERIFY BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO, AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES DURING CONSTRUCTION, EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
- 6. CONTRACTOR SHALL INSTALL GRAVITY FLOW SANITARY LINES TO THE LINES AND GRADES INDICATED ON THE PLANS USING A PIPE LASER.
- 7. SEE SHEET 2 FOR GENERAL NOTES AND GENERAL LEGEND.
- 8. SEE SHEET 2 FOR SURVEY NOTES AND CONTROL POINT TABLE.

	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHEET NO.		
	PRUJECT NO. E2119EP			
BY J.A.	ALIGNMENT "G" – 12" WATER LINE PLAN AND PROFILE	17 OF 34		

P. FORCE MAIN BY OTHERS		
TOF WAY		
PROP. SANITARY SEWER	SCALE HOR.: $1"=30'$	
	0 5 10 SCALE VER.: 1"=5'	
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2H-4-65	CONTROL POINT AS NOTED	↔ WM EXISTING WATER METER
NOTE:	PROPOSED WATER LINE AS NOTED	GM EXISTING WATER VALVE GM EXISTING GAS METER
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	EXISTING TELEPHONE JUNCTION BOX	- OHE - EXISTING OVERHEAD ELECTRIC
	EXISTING POST	— WL— EXISTING WATER LINE — SAN— EXISTING SANITARY SEWER LINE
PROPOSED 12" WATER LINE SEE SHEETS 20-25	EXISTING TRAFFIC LIGHT	GAS EXISTING GAS LINE
20' WIDE PROPOSED	PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT	□ JBE EXISTING ELECTRIC JUNCTION BOX
	EXISTING CHAIN LINK FENCE PROPOSED STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS.	Image: PROPOSED WATER VALVEImage: WMPROPOSED WATER METER
MARV	PROPOSED AIR RELEASE VALVE	WATER TABLE ELEVATION
	The osed service line as noted	DATE DETERMINED INDICATED
	NOTES: CONTRACTOR SHALL INSTALL SEWER LINES 10 FE	ET MIN.
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PROP. SANITARY SEWER LINE BY OTHERS 3.	FOR SERVICE LINE CONNECTION REQUIREMENTS TO CONTRACTOR SHALL PERFORM ALL CONSTRUCTION THE UTILITY FASEMENTS STREET ROW ALLEYS A	O MAIN LINE. I OPERATIONS WITHIN AND ONLY THE
* III 4.	PROPERTIES RECEIVING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOS	SING AND PROTECTING
5.	UTILITIES DURING CONSTRUCTION. NO SEPARATE F THE EXISTENCE AND LOCATION OF UNDERGROUND ON THE PLANS ARE TAKEN FROM THE RECORDS	PAYMENT. UTILITIES INDICATED AVAILARLE AND ARE
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	PROTECTION OF THE EXISTING UTILITIES DURING O IF THEY ARE NOT SHOWN ON THE PLANS.	CONSTRUCTION, EVEN
7.	LINES AND GRADES INDICATED ON THE PLANS US	L LEGEND.
8.	SEE SHEET 2 FOR SURVEY NOTES AND CONTROL	POINT TABLE.
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	OF BORE PITS DURING CONSTRUCTION TO WORK #1 RIGHT-OF-WAY.	OUTSIDE THE EPCWID
20' WIDE PROPOSED		
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	ALIGNMENT "I" PROPOSED 12"	
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NORTH LOOP PHASE I WATER	& SEWER IMPROVEMENTS TY. TEXAS	SHEET NO.
	17" \N/ATED LINE	
J.A. PLAN AND	PROFILE	19 OF 34

				BLINCHMARKS.	
A. ACOSTA 0225 <u>65</u>	FRANK X. SPENCER & ASSOCIATES, INC. Consulting Civil Engineers & Surveyors				
NSERGIA	www.fxsa.com Ph:(915)533-4600 Fax:(915)533-4673	NO. 2	DATE	REVISIONS ADDENDUM # 3	
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ER 26, 2023					

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	LEGEND
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	PROPOSED WATER LINE AS NOTED
	PROPOSED ASPHALT PAVEMENT PATCHING
OP/P	EXISTING POWER POLE
JBT	EXISTING TELEPHONE JUNCTION BOX
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)	EXISTING TRAFFIC LIGHT
\cdot	EXISTING ANCHOR GUY WIRE
	PROPOSED WATER/SEWER IMPROVEMENTS CENTERLINE ALIGNMENT
- <u>* * *</u>	EXISTING CHAIN LINK FENCE
//////	PROPOSED STEEL CASING INSTALLED BY APPROVED JACKING AND BORING METHODS.
.>WM	EXISTING WATER METER
WV	EXISTING WATER VALVE
. GM	EXISTING GAS METER
3640 ~~	EXISTING INDEX CONTOURS
- 3639 —	EXISTING INTERMEDIATE CONTOURS
- OHE	EXISTING OVERHEAD ELECTRIC
WL	EXISTING WATER LINE
— SAN ——	EXISTING SANITARY SEWER LINE
-GAS	EXISTING GAS LINE
	EXISTING ASPHALT PAVEMENT
⊡ JBE	EXISTING ELECTRIC JUNCTION BOX
	PROPOSED AIR RELEASE VALVE
\mathbf{M}	PROPOSED WATER VALVE
♦ WM	PROPOSED WATER METER
s¥⊲ FH	PROPOSED FIRE HYDRANT

STIMATED SHEET QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	
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ITH BOX AND COVER	EA	2	
IPLETE WITH CONNECTION AND GATE VALVE	EA		•
BY APPROVED JACKING AND BORING METHODS.	ĿF	77	/2\
H MECHANICAL JOINTS AND CONCRETE THRUST BLOCKING	EA	4 🖌	
COMBINATION AIR VALVE, COMPLETE IN PLACE	EA	1	
/IDED FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE INSTALL ALL NEW IMPROVEMENTS SHOWN, INCLUDING APPURTENAL	RESPONS NCES AN	BLE FOR D REPAIRS TO	

	LOWER VALLEY WATER DISTRICT NORTH LOOP PHASE I WATER & SEWER IMPROVEMENTS EL PASO COUNTY, TEXAS	SHEET NO.		
BY J.A	ALIGNMENT "I" – 12" WATER LINE PLAN AND PROFILE	21 OF 34		

	LEGEND						
ACP	CONTROL POINT AS NOTED	♦₩M	EXISTING WATER METER				
OP/P	EXISTING POWER POLE	\bowtie^{WV}	EXISTING WATER VALVE				
⊡ JBT	EXISTING TELEPHONE JUNCTION	BOX	FXISTING GAS METER				
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OPST	EXISTING POST	— — 3639 — _	EXISTING INTERMEDIATE CONTOURS				
<u>₽</u>	EXISTING MAILBOX	OHE	EXISTING OVERHEAD ELECTRIC				
$\bigcirc $	EXISTING TRAFFIC LIGHT		EXISTING WATER LINE				
\odot	EXISTING ANCHOR GUY WIRE						
	EXISTING CHAIN LINK FENCE	SAN	EXISTING SANITARY SEWER LINE				
0	EXISTING TREE	GAS	EXISTING GAS LINE				
			EXISTING ASPHALT PAVEMENT				
	EXISTING CONCRETE CHANNEL	⊡ JBE	EXISTING ELECTRIC JUNCTION BOX				
	EXISTING CONCRETE		GRADING LIMITS				
	PROPOSED CONCRETE CHANNEL		BOUNDARY LINE				
0.15%	PROPOSED SLOPE		PROPOSED CONTOURS				

					BENCHMARKS:	
REVIEW ONLY CUMENT IS RELEASED E PURPOSE OF INTERIM UNDER THE AUTHORITY	FRANK X. SPENCER & ASSOCIATES, INC. Consulting Civil Engineers & Surveyors 1130 Montana Ave., El Paso, Texas 79902 Ph:(915)533-4600 Fax:(915)533-4673 TBPLS# 100490-00, TBPE# F-3584					
ER ACOSTA, P.E. 109225 EMBER 15, 2022. IT IS <u>BE USED FOR</u> J <u>CTION PURPOSES</u>		NO.	DATE	REVISIONS		
BASE BID 1 (INCLUDES ALL WORK FROM STA 0+90 TO STA 11+46 AND FROM STA 20+46 TO 30+83.67)						
--	--	------------------	------	----------------	---------------------------------------	--
Item No	Description of Item	Est. Quantity	Unit	Unit Bid Price	Extended Amount (Qty x Unit Price)	
1	Mobilization & Bonds (for Items 2-22)	1	LS			
2	Implement Storm Water Pollution Prevention Plan	1	LS			
3	Traffic Control	6.5	МО			
4b	Remove Base Material and Dispose Off-site (up to 6")	6260	SY			
5	Excavation of Subgrade and Dispose Off-site	6260	SY			
6	Tree Removal	3	EA			
7	Grading	21	STA			
8	Remove Sign Post and Assembly & Dispose Off- site	4	EA			
9	Adjust Water Valve	6	EA			
10	Adjust Water Meter	8	EA			
11	Furnish and Install HMAC Type C Pavement	870	TON			
12a	FL BS (CMP IN PLC)(TY A GR 3) (6")	6240	SY			
12b	FL BS (CMP IN PLC)(TY A GR 3) (4")	20	SY			
13	Compacted Select Fill	6260	SY			
14	Subgrade Preparation	6260	SY			
15	Furnish & Install Header Curb	4250	LF			
16	Install 4" Broken Yellow Striping	350	LF			
17	Install 4" Solid White Striping	4150	LF			
18	Install 4" Solid Yellow Striping	1300	LF			
19	Furnish & Install Sign, Post, and Assembly	7	EA			
22	Adjust Manhole	5	EA			

TOTAL BASE BID 1 (in words)

TOTAL BASE BID 1 (ITEMS 1 THROUGH 22)

In accordance with Section 151.311 of the Texas Tax Code (V.A.T.C.S.), regarding taxes on materials and services, and requiring a separated contract, the following is the breakdown of cost for materials and cost for labor for this bid:

MATERIALS TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX:	\$
LABOR TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX:	\$
RENTAL EQUIPMENT AND OTHER TAXABLE ITEMS:	\$
OTHER (I.E. BONDS, INSURANCE, CAPITAL EQUIPMENT, ETC.)	\$
*TOTAL CONTRACT (TOTAL MUST EQUAL TOTAL BID PRICE): 00300 - 3	\$

	BASE BID 2 (INCLUDES ALL WORK BETWEEN STA 11+46 AND STA 20+46)							
Item No	Description of Item	Est. Quantity	Unit	Unit Bid Price	Extended Amount (Qty x Unit Price)			
1	Mobilization & Bonds (for Items 2-22)	1	LS					
2	Implement Storm Water Pollution Prevention Plan	1	LS					
3	Traffic Control	6.5	MO					
4a	Remove Asphalt Pavement and Base Material, and Dispose Off-site (up to 9")	800	SY					
4b	Remove Base Material and Dispose Off-site (up to 6")	2080	SY					
5	Excavation of Subgrade and Dispose Off-site	2690	SY					
7	Grading	9	STA					
8	Remove Sign Post and Assembly & Dispose Off- site	11	EA					
9	Adjust Water Valve	5	EA					
10	Adjust Water Meter	1	EA					
11	Furnish and Install HMAC Type C Pavement	370	TON					
12a	FL BS (CMP IN PLC)(TY A GR 3) (6")	2640	SY					
12b	FL BS (CMP IN PLC)(TY A GR 3) (4")	50	SY					
13	Compacted Select Fill	2690	SY					
14	Subgrade Preparation	2690	SY					
15	Furnish & Install Header Curb	1800	LF					
17	Install 4" Solid White Striping	1800	LF					
18	Install 4" Solid Yellow Striping	1800	LF					
19	Furnish & Install Sign, Post, and Assembly	11	EA					
20	Furnish & Install Object Marker	2	EA					
21	Flowable Backfill (12")	15	SY					
22	Adjust Manhole	3	EA					

TOTAL BASE BID 2 (ITEMS 1 THROUGH 22)

TOTAL BASE BID 2 (in words)

In accordance with Section 151.311 of the Texas Tax Code (V.A.T.C.S.), regarding taxes on materials and services, and requiring a separated contract, the following is the breakdown of cost for materials and cost for labor for this bid:

MATERIALS TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX:	\$
LABOR TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX:	\$
RENTAL EQUIPMENT AND OTHER TAXABLE ITEMS:	\$
OTHER (I.E. BONDS, INSURANCE, CAPITAL EQUIPMENT, ETC.)	\$
*TOTAL CONTRACT (TOTAL MUST EQUAL TOTAL BID PRICE): 00300 - 5	\$

SECTION 00500

<u>STANDARD FORM OF AGREEMENT BETWEEN OWNER</u> AND CONTRACTOR ON THE BASIS OF A STIPULATED PRICE

THIS AGREEMENT is dated as of the _____ day of _____ in the year 201 ___ by and between Lower

Valley Water District (hereinafter called OWNER) and

_____(hereinafter called CONTRACTOR). OWNER and CONTRACTOR, in consideration of the

mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1. WORK.

CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The work is generally described as follows:

FENTER RD RECONSTRUCTION

The work under this contract shall be for furnishing all labor, materials, transportation and services for the construction and installation of the following work:

The Fenter Rd Reconstruction project includes the reconstruction of approximately 3,000 linear feet of Fenter Rd including removal of asphalt, base and subgrade, and construction of a new pavement structure. The project will also include installation of header curb, reconstruction of driveways, removal and installation of signs, striping, drainage improvements, and adjustment of manholes and water meters and valve boxes.

ARTICLE 2. ENGINEER.

The Project has been designed by Huitt-Zollars, Inc. who is hereinafter called ENGINEER and who is to act as OWNER's representative, assume all duties and responsibilities and have the rights and authority assigned to ENGINEER in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

ARTICLE 3. CONTRACT TIME.

- 3.1 The Work will be Substantially completed within <u>163</u> Calendar Days from the date when the Contract Time commences to run as provided in Paragraph 2.03 of the General Conditions, and as revised in Supplementary Conditions, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions, and as revised in the Supplementary Conditions, within <u>193</u> calendar days. Final completion includes CONTRACTOR'S resolution of all punch list items and CONTRACTOR'S submission of required close-out documentation. Any failure of the CONTRACTOR to complete the project within the contract time will be considered a material breach of this contract.
- 3.2 Liquidated Damages. OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss and public inconvenience if the Work is not completed and the submittals are not submitted within the times specified in Paragraph 3.1 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER the sum per day as noted below per milestone for each and every milestone date as defined in Section 01 00 00 of these Specifications and which the Contractor fails to meet. For Milestone 2, liquidated damages shall be computed from the milestone date until the date the milestone task is completed.

Liquidated Damages

Milastona	Description	Liquidated Damagas non Day
Milestone	Description	Liquidated Damages per Day
Milestone No. 1	Fenter Rd Reconstruction between STA 17+97 and STA	\$2,050 per day with a total
	18+23 as described in Section 01 00 00 of these Specifications	maximum amount of \$26,650
	and Sheet 10 of the Fenter Rd Reconstruction project	for Milestone 1.
	engineering plans.	
Milestone No. 2	Remaining work for the complete reconstruction of Fenter Rd	\$2,050 per day for
	as described in Section 01 00 00 of these Specifications and	substantial completion
	the Fenter Rd Reconstruction project engineering plans.	 \$1,025 per day for final
		completion

Milestone No. 1Milestone 1 work shall be completed by February 14, 2024 to avoid conflicts with
EPCWID1 irrigation season. It is expected that Notice to Proceed will be provided
on January 29, 2024.

ARTICLE 4. CONTRACT PRICE.

4.1 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents in current funds, per the attached CONTRACTOR's Bid in accordance with the below listed separate charges:

BASE BID 1

MATERIALS TO BE INCORPORATED IN	
PROJECT NOT SUBJECT TO SALES TAX:	\$
LABOR TO BE INCORPORATED IN	
PROJECT NOT SUBJECT TO SALES TAX:	\$
RENTAL EQUIPMENT	
AND OTHER TAXABLE ITEMS:	\$
OTHER (I.E. BONDS, INSURANCE,	\$
CAPITAL EQUIPMENT, ETC.)	
*TOTAL CONTRACT:	\$
*(TOTAL MUST EQUAL TOTAL BID PRICE)	
BASE BID 1 ALTERNATE 1	
MATERIALS TO BE INCORPORATED IN	
PROJECT NOT SUBJECT TO SALES TAX:	\$
LABOR TO BE INCORPORATED IN	
PROJECT NOT SUBJECT TO SALES TAX:	2
	\$
RENTAL EQUIPMENT	U
RENTAL EQUIPMENT AND OTHER TAXABLE ITEMS:	\$ \$
RENTAL EQUIPMENT AND OTHER TAXABLE ITEMS: OTHER (I.E. BONDS, INSURANCE,	\$ \$

00500 - 2

Milestone No. 2 163 Calendar Days from the Notice to Proceed date will be provided to substantially complete work in this milestone

Public servants are expected to conduct themselves impartially and in a manner that inspires public confidence, while ensuring that responsible contractors have fair and equal access to governmental procurement.

The Town of Clint is committed to protection of government integrity, while also facilitating the recruitment and retention of the skilled personnel necessary to support its operations. To achieve this objective, The Town of Clint has established standards of ethical conduct and conflict of interest policies and expects all vendors, contractors, and subrecipients to adhere to the same core principles, as described below.

To achieve these standards, it is essential that those doing business with the Town of Clint also observe the ethical standards prescribed here.

I acknowledge that it is a breach of ethics to attempt to influence any public employee, elected official, or department head to violate the standards of ethical conduct set forth in this code.

I further acknowledge that it is a breach of ethics for any employee of Town of Clint or a vendor doing business with the County to participate directly or indirectly in a procurement when the employee or vendor knows that:

A. The employee or any member of the employee's immediate family or household has a substantial financial interest in a company responding to a Town of Clint procurement.

B. A business or organization in which the employee or any member of the employee's immediate family has a financial interest pertaining to the procurement.

I understand that it is a breach of ethics to offer, give, or agree to give any employee of the Town of Clint or for any employee to solicit, demand, accept, or agree to accept from a vendor, a gratuity of consequence or any offer of employment in connection with any decision, approval, disapproval, recommendation, preparation, or any part of a program requirement or purchase request influencing the content of specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or controversy, any particular matter pertaining to any program requirement, contract or subcontract, or to any solicitation or proposal therefore pending before the Town of Clint.

I acknowledge that it is a breach of ethics for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Town of Clint as an inducement for the award of a contract or order.

I acknowledge all terms of the State of Texas (via the Texas Ethics Commission) for when a Conflict-of-Interest Questionnaire (CIQ) should be filed online and also understand that the City/County has designated Susie Rodriguez, Town of Clint Clerk as the point of contact should any questions or concerns arise related to Ethics or conflicts of interest at any time that must be reported for review.

I certify that I have read and understand the ethical standards set forth by Town of Clint and agree to comply with them in all business dealings with the County.

[Vendor Authorized Representative Signature]
PRINT NAME AND TITLE:
COMPANY NAME:
[Date] :

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SECTION 01 00 00 – GENERAL REQUIREMENTS

PART 1 – GENERAL

1.1 GENERAL DESCRIPTION OF THE PROJECT

The work contemplated under this contract consists of furnishing all labor, materials, equipment, and tools necessary for the construction of the project titled as Follows:

FENTER RD RECONSTRUCTION

The Fenter Rd Reconstruction project includes the reconstruction of approximately 3,000 linear feet of Fenter Rd including removal of asphalt, base and subgrade, and construction of a new pavement structure. The project will also include installation of header curb, reconstruction of driveways, removal and installation of signs, striping, drainage improvements, and adjustment of manholes and water meters and valve boxes.

Work under this project will be divided into the following milestones:

Milestone No. 1: Contractor shall reconstruct the Fenter Rd section from STA 17+97 to STA 18+23 by February 14, 2024 to avoid conflicts with EPCWID1's irrigation season. The Salitral Lateral crosses this segment of Fenter Rd through a culvert. Work to be completed by the Milestone 1 deadline includes demolition of existing pavement structure, excavation, placement of flowable backfill for proposed pavement structure, header curb and parkway grading. HMAC shall be placed when weather is optimal as described in Section 32 12 17 of these Specifications; therefore, the base course and HMAC may be placed after the February 14, 2024 deadline. If placement of HMAC will exceed two calendar days from placement of base course, prime coat shall be applied for moisture retention and density tests shall be conducted again to verify proper compaction before HMAC placement. Contractor shall exercise caution when working in this area to avoid damage to the Salitral Lateral culvert, which shall be protected in place.

Milestone No. 2: Contractor shall reconstruct the remaining sections of Fenter Rd from STA 0+90 to STA 17+97 and from STA 18+23 to STA 30+83.67 as described in the Fenter Rd Reconstruction engineering plans and these specifications within the 163 Calendar Days allowed to substantially complete this milestone. Placement of base course and HMAC between STA 17+97 and STA 18+23 shall also be completed within the 163 Calendar Days allowed to substantially complete Milestone 2.

1.2 CONTRACT DRAWINGS OR PLANS

The details for the above mentioned work are shown on a set of drawings dated December 4, 2023. These drawings together with these specifications and contract documents form the Contract. Where figures are shown on the drawings, they shall take

GENERAL REQUIREMENTS

PART 3 - EXECUTION

3.1 GENERAL

- A. Two general classes of pay items exist consisting of:
 - A.1 <u>Unit price items</u>: Payment for the various unit price items will be made at the particular contract price per unit as shown on the proposal.
 - A.2 <u>Lump Sum Items</u>: Lump sum items are to be paid for at a lump sum price per job, not in measured increments. Lump sum items shall include all work and materials involved in the installation, construction or performance of work, including incidental and subsidiary items as may be required to complete that item as shown on the drawings and designated in the specifications.
- B. The unit price or lump sum price bid on each item as stated in the Proposal shall include furnishing all labor, superintendence, incidentals, machinery, supplies, equipment and materials necessary to complete the various items of work in accordance with the Design Drawings and Specifications. Cost of work or materials shown on the Design Drawings, called for in the Specifications and on which no separate payment is made shall be included in the bid price on the various pay items for which they are associated.

3.2 MEASUREMENT AND PAYMENT

Base Bid 1 and Base Bid 2 Items

Mobilization & Bonds (Bid Item No. 1)

Shall include all costs for Contractor's mobilization and demobilization, insurance and bond, construction permits and fees, site administration expenses, temporary utilities, coordinating with owners of affected properties, and coordinating with Town's testing lab. Any demolition not covered under the demolition items is also subsidiary to this Item. This item shall also include all costs for contract closeout, site clean-up, and all costs associated with Contractor's demobilization from the site. This item shall also include a video recording of the existing conditions before construction and a video recording of the site after the completion of all work. Payment for mobilization and demobilization shall be on a Lump Sum basis as noted in the Bid Schedule. Mobilization/Demobilization shall not exceed 5% of the total of the below item descriptions, 2-22.

Implement Storm Water Pollution Prevention Plan (Bid Item No. 2)

Payment for storm water pollution prevention measures, including construction entrances/exits, silt fences, erosion control logs, dust control, concrete washout areas, protection of existing inlets and irrigation ditches, protection of the Mesa Drain and Salitral Lateral, etc., will be made at a Lump Sum price and shall be total compensation for complete performance of this work through the duration of the project.

MEASUREMENT & PAYMENT

Huitt-Zollars, Inc.

Traffic Control (Bid Item No. 3)

Traffic control shall be paid for on a monthly basis and shall include coordinating traffic control requirements with TxDOT, LVWD, Town of Clint, EPCWID1, and Engineer. Traffic control plans shall conform to the Texas Manual on Uniform Traffic Control Devices for Streets and Highways (latest edition). This Item shall include obtaining approval of the traffic control plans prior to beginning construction in areas affecting traffic. The Contractor shall construct, grade, and maintain in transitable condition during construction and remove when permanent improvements are completed. The Contractor shall also provide and install all traffic control devices, materials, equipment, temporary patch paving, on-going coordination and personnel as required to implement and maintain the traffic control plans for the duration of the project. No measurement of the work or material included in this item shall be made. All materials and work associated with this item shall be included with the price of the item. Payment includes full compensation for the complete performance of the work in accordance with the Project's drawings and the provisions of these specifications. Shadow Vehicles with TMA and high intensity rotating, flashing, oscillating or strobe lights will not be paid for directly, but will be subsidiary to this Item. Water filled barriers are subsidiary to this Item.

Remove Asphalt Pavement and Base Material, and Dispose off-site (Bid Item No. 4)

Measurement shall be the actual square yards removed. The surface area is based on the width shown in the plans. This item includes the removal of asphalt pavement and base course. Removed item shall be properly disposed of and shall not exceed the limits shown on the drawings. Removal of the additional asphalt for tie in to existing pavement shall be subsidiary to this Item. Payment shall be made at the unit price as stated in the bid schedule and will be compensation in full for the necessary materials, repair to base course when necessary, equipment and work including saw-cut, removal, and off-site disposal, in accordance with the Construction Drawings and Specifications.

Excavation of Subgrade and Dispose off-site (Bid Item No. 5)

Measurement shall be by the square yards of subgrade to be removed. The surface area is based on the width shown in the plans. The work performed will be paid for at the unit price bid for the types of work described for a depth specified in plans. No additional payment will be made for thickness or width exceeding that shown on the typical section or provided on the plans. Removed item shall be properly disposed of. Payment shall be made at the unit price as stated in the bid schedule and will be compensation in full for authorized excavation; drying; undercutting subgrade and reworking or replacing the undercut material in rock cuts; hauling; disposal of material not used elsewhere on the project; scarification and compaction; and equipment, labor, materials, tools, and incidentals.

Furnish and Install HMAC Type C Pavement (Bid Item No. 11)

Measurement shall be by the ton of hot mix asphaltic concrete (HMAC) pavement installed, as determined by measurement along the baseline of the roadway using horizontal stationing and shall not exceed the limits shown on the drawings. Additional asphalt required for the tie in to existing pavement, as per the Pavement Junction detail, shall be subsidiary to this Item. Payment shall be made at the unit price as stated in the bid schedule and will be compensation in full for all necessary materials, equipment and work including tack coat, joint sealant, placement, rolling, repair of base course, clean-up, off-site disposal, equipment, labor, tools and incidentals in accordance with the Construction Drawings and Specifications.

Crushed Aggregate Base Course (Bid Item No. 12)

Measurement and payment are by the square yard for the surface area in the completed and accepted final position. The surface area of the base course is based on the width shown in the plans. The work performed and materials furnished will be paid for at the unit price bid for the types of work described for a depth specified in plans. No additional payment will be made for thickness or width exceeding that shown on the typical section or provided on the plans. This price is full compensation for furnishing materials, temporary stockpiling, assistance provided in stockpile sampling and operations to level stockpiles for measurement, loading, hauling, delivery of materials, spreading, blading, mixing, shaping, placing, compaction, reworking, finishing, correcting locations where thickness is deficient, corrections of soft spots in the subgrade, curing, furnishing and placing prime coat, furnishing scales and labor for weighing and measuring, and equipment, labor, tools and incidentals. Sprinkling and rolling (including proof rolling) will be subsidiary to this Item.

Compacted Select Fill (Bid Item No. 13)

Measurement and payment are by the square yard for the surface area of select fill in the completed and accepted final position. Payment shall be made at the unit price as stated in the bid schedule. The surface area of the select fill is based on the width and depth shown in the plans. The price is full compensation for furnishing embankment; hauling; placing, compacting, finishing, and reworking; surface preparation; repairs; disposal of waste material; cleaning; and equipment, labor, tools, and incidentals. All sprinkling and rolling (including proof rolling) will not be paid directly, but will be considered subsidiary to this Item. Corrections of soft spots (including cement stabilized backfill) in the subgrade will be subsidiary to this Item.

Subgrade preparation (Bid Item No. 14)

Measurement shall be by square yards of area where subgrade preparation is required. Grade the roadway and shape to the typical sections shown in the plans. Scarify existing natural ground or roadbed and compact in accordance with the method shown on the plans. The price is full compensation for furnishing and operating equipment; excavation required to achieve final grades, sprinkling; rolling; hauling; placing, scarification, compacting, finishing, and reworking; surface preparation; repairs; and for labor, materials, tools, and incidentals. All work involved in removing, excavating, and replacing (furnishing approved select fill) or reworking unsuitable or

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unstable material is considered subsidiary to this Item. Corrections of soft spots (including cement stabilized backfill) in the subgrade will be subsidiary to this Item. The work performed under this Item will not include work specified for payment under other Items.

Furnish & Install Header Curb (Bid Item No. 15)

Measurement shall be the actual amount of header concrete curb in linear feet. Payment shall be made at the unit price as stated in the bid schedule and will be compensation in full for excavation or select fill required for placement of header curb, compacting, and preparing subgrade, furnishing and installing the necessary materials, dowels, steel reinforcement, and for all work performed in accordance with the Construction Drawings and Specifications, and shall include all associated items, as detailed, including concrete, forming, curing, re-grading, expansion joints, broom finish, saw cutting, clean up and off-site disposal.

<u>Furnish and Install Reflective Pavement Marking Ty1 for Markings</u> (Bid Item Nos. 16 through 18)

Shall be paid for as linear foot or each as indicated in plans and shall include the full compensation for blast cleaning, mechanical cleaning and/or other cleaning methods; surface preparation; and for application of pavement markings, materials, tools, equipment, labor, traffic control, and incidentals necessary to complete the work. No payment will be made for the elimination of pavement markers or pavement markings when pavement markers or markings are to be removed in conjunction with the elimination of asphalt pavement. This item shall include the proper placement of the Type I pavement markings of the various types, colors, shapes, sizes, widths and thickness specified as per the drawings and specifications. Pavement shall be cleaned of dirt/debris and ready to accept the markings. All costs for this work shall be included in the Contractor's price and shall be complete compensation for complete performance of this work including equipment, materials, labor, tools, incidentals and work in accordance with the Construction Drawings and Specifications.

Furnish & Install Sign, Post, and Assembly (Bid Item No. 19)

Shall be paid for each and shall include the proper and complete installation. Payment shall be made at the unit price as stated in the bid schedule and will be compensation in full for furnishing and installing the necessary materials and incidentals necessary to complete the work, in accordance with the Construction Drawings and Specifications. Sign installation will be compensated in full for furnishing and installing new signs, connections, and hardware, including post and triangular base; street name sign hardware pole caps and cross brackets; foundations (including concrete and rebar); fabrication of sign panels; furnishing bolts, rivets, screws, fasteners, clamps, brackets, and sign support connections; preparing and cleaning signs; galvanizing; and equipment, materials, labor, tools, incidentals required to complete the work in accordance with the Construction Drawings and Specifications. Two back-to-back chevron signs (W1-8R and W1-8L) will be installed per one sign post. This assembly will be measured as one sign post assembly.

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Furnish & Install Object Marker (Bid Item No. 20)

Installation will be measured by each bidirectional object marker assembly installed. The price is full compensation for furnishing and fabricating when required, and installing and mounting the object marker assemblies including posts, adhesive or pads for surface mount assemblies, back plates, reflector units, fastening plates, brackets, bolts, nuts, and washers; and materials, equipment, labor, tools, and incidentals.

Flowable Backfill (Bid Item No. 21)

Measurement and payment are by the square yard for the surface area in the completed and accepted final position. The surface area of the flowable backfill is based on the width shown in the plans. The work performed and materials furnished will be paid for at the unit price bid for the type of work described for a depth specified in plans. No additional payment will be made for thickness or width exceeding that shown on the typical section or provided on the plans. This price is full compensation for furnishing materials, loading, hauling, delivery of materials, shaping, placing, compaction, reworking, finishing, correcting locations where thickness is deficient, and equipment, labor, tools and incidentals. This Item shall be used to pay for the flowable backfill proposed for the pavement structure above the Salitral Lateral. Cement stabilized backfill used for subgrade correction shall be subsidiary to Items 13 and 14.

Adjust Manhole (Bid Item No. 22)

Measurement shall be by each manhole adjusted. The price is full compensation for any coordination with utility company, adjustments, concrete collars, ring adjustments, new rings (if necessary), materials, fittings, including backfill as required, and for excavation, tools, material, equipment, labor, incidentals and for all work performed in accordance with the Construction Drawings and Specifications.

Base Bid 1 Alternate 1 Items

Mobilization & Bonds- Alternate Bid (Bid Item No. A1)

Shall include all costs for Contractor's mobilization and demobilization, insurance and bond, construction permits and fees, site administration expenses, temporary utilities, coordinating with owners of affected properties, and coordinating with Town's testing lab. Any demolition not covered under the demolition items is also subsidiary to this Item. This item shall also include all costs for contract closeout, site clean-up, and all costs associated with Contractor's demobilization from the site. This item shall also include a video recording of the existing conditions before construction and a video recording of the site after the completion of all work. Payment for mobilization and demobilization shall be on a Lump Sum basis as noted in the Bid Schedule. Mobilization/Demobilization shall not exceed 5% of the total of the below Item A2.

Stone Common Dry (4" to 6") (Bid Item No. A2)

This Item will be measured by the cubic yard of material complete in place. Volume will be computed on the basis of the measured area in place and the thickness shown on the plans. This price is full compensation for furnishing, hauling, and placing the stones and for filter fabric, scales, test weights, equipment, labor, tools, and incidentals. Payment for all necessary excavation required for stone placement as specified in the plans, and for shaping of slopes will be included in the unit price of this Item.

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- A. Street Construction:
 - 1. <u>Field Densities</u>:

a.	Subgrade*	1 density per 150 l.f.
b.	Fill*	1 density per 200 l.f
c.	Base Course	1 density per 200 l.f.
d.	Asphalt Pavement	1 density per 150 l.f.

*Field density tests and corresponding moisture content determination shall be made for each layer of compacted fill. If any areas of doubtful compaction appear, additional tests may be required.

One moisture-density curve should be obtained for each type of material used in accordance with ASTM D-1557, and one sieve analysis and one plasticity index for each type of material used, according to ASTM C-136, and D-4318.

2.	Concrete:	-1 set (four specimens) per each 50 cy
		- Slump tests shall be made every time test cylinders are made in
		reported by the testing laboratory.
3.	<u>Asphalt Pavement</u> :	1 gradation, extraction and set of briquettes per 500 feet of roadway (minimum of 1 per traffic lane poured); and in-place density of asphalt every 150 feet of roadway or as recommended by the Materials Testing Engineer representing the

Testing Laboratory.

TESTING LABORATORY SERVICES

SECTION 03 40 00 - BACKFILL

1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Specification Sections, apply to work of this section.

1.2 DESCRIPTION OF WORK

Backfill shall be used in this project for the following:

- A. Flowable Backfill shall be used for the proposed pavement section above the Salitral Lateral.
- B. Cement Stabilized Backfill shall be used in subgrade areas where pumping occurs.

1.3 SUBMITTALS

Material Certificates: Provide copies of materials certificates, signed by material producer and Contractor, certifying that each material item complies with, or exceeds specified requirements.

1.4 MATERIALS & CONSTRUCTION

- 1.4A Flowable Backfill Where flowable backfill is shown on the Drawings, it shall consist of a mixture of soil or sand and 2 sacks of Portland cement per cubic yard. Use a sandy material, free from lumps, clods or organic material. Mix backfill in a concrete mixer or transit mixer.
- 1.4B Cement Stabilized Backfill Where cement stabilized backfill is shown on the Drawings or required for pavement structure stabilization, it shall consist of a mixture of soil (select fill) or sand and 2 sacks of Portland cement per cubic yard. Use a sandy material, free from lumps, clods or organic material. Mix cement stabilized backfill in-situ.

END OF SECTION

CEMENT STABILIZED BACKFILL

SECTION 33 05 13 - ADJUSTMENTS OF MANHOLES, VALVES, & WATER METERS

PART 1 – GENERAL

1.1 This item shall govern for the furnishing of materials and for adjusting manholes, valves, and water meters where required by the plans. Manholes, valves and water meters shall be adjusted to elevations shown on the Fenter Rd Reconstruction engineering plans or as ordered by the Engineer and in accordance with these specifications and the Lower Valley District standard details. This item also includes the construction of concrete collars, which shall be built as per the Lower Valley District standard details.

PART 2 – MATERIALS AND EQUIPEMENT

2.1 Manholes, water meter boxes/manholes, valve boxes/manholes, rings, frames, and covers and brick in good condition that were removed may be reused.

PART 3 – EXECUTION

- 3.1 Construction. Manholes rings or valve boxes, covers and frames shall be removed carefully and the contact areas shall be cleaned of all mortar and grease. Rings, covers, and frames broken in the process of removal and cleaning shall be replaced in kind, by the Contractor, at the Contractor's expense.
- 3.2 The adjustment involves lowering the top of the manhole. A sufficient depth of concrete or brick courses shall be removed to permit reconstruction on a batter not exceeding 1 inch horizontal to 2 inches vertical. In the case of brickwork, the mortar shall be cleaned from the top course of brick remaining in place and from all brick to be re-used and the manhole rebuilt to the original top dimensions. The manhole ring, frame and cover shall then be installed with the top conforming to the proposed new surface of street or parkway.
- 3.3 Salvage and reuse existing valve box.

Remove and replace ductile iron riser pipe with suitable length for depth of cover required to establish the adjusted elevation to accommodate actual finish grade.

Reinstall in-kind adjustable valve box and riser piping plumbed in vertical position.

After valve box has been set, aligned, adjust so that the top lid is level with final grade.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VISIT AND BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO SUBMITTING BIDS.
- 2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VEHICLE AND PEDESTRIAN ACCESS AT ALL TIMES, INCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, TO AREA RESIDENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, DRIVEWAYS, STREETS, PARKING, AND WALKWAYS. THIS REQUIREMENT WILL BE FULFILLED AT NO EXTRA COST TO THE OWNER.
- 3. CONTRACTOR MUST WATER CONSTRUCTION AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM, ONCE IN THE MORNING AND BEFORE QUITTING TIME OR AS REQUIRED. THIS SHALL ALSO BE DONE DURING WEEKENDS AND HOLIDAYS.
- 4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE WORK SO AS TO ASSURE PROPER PASSAGE OF STORM RUNOFF DURING THE COURSE OF THE OPERATIONS. ALL LABOR, TOOLS, EQUIPMENT, AND SUPERVISION REQUIRED TO ASSURE SUCH PROPER PASSAGE OF RUNOFF WATER AND ANY REMOVAL OR HANDLING OF WATER IN ORDER TO MAINTAIN DRY CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE USER, ALL UTILITIES, AND ALL OTHER AGENCIES WITH JURISDICTION OVER THE PROJECT.
- 6. ALL EXISTING PAVEMENT, ADJACENT UTILITIES, STRUCTURES, ETC., DISTURBED AS A RESULT OF NEW CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 7. THE OWNER WILL FURNISH HORIZONTAL AND VERTICAL CONTROL REFERENCE POINTS ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER, OTHERWISE THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
- 8. RIGHT OF WAY LINES SHOWN HEREON ARE INTENDED TO BE A GRAPHICAL REPRESENTATION AND SERVE FOR INFORMATIONAL PURPOSES ONLY. NO WARRANTIES ARE MADE BY THE SURVEYOR AS TO ITS ACCURACY.
- 9. ALL ELEVATIONS ARE BASED ON NAVD 88. SEE REFERENCED BENCHMARK IN PLANS.
- 10. VIBRATORY ROLLERS WILL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY ENGINEER. COMPACTION ROLLERS WILL NOT BE PERMITTED OVER CLASS IV STORM DRAIN PIPE.
- 11. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THE PROJECT.
- 12. MATERIAL TESTING COORDINATION AND COSTS SHALL BE THE RESPONSIBILITY OF THE OWNER. HOWEVER, THE COSTS OF SAMPLING AND TESTING OF MATERIALS FAILING TO CONFORM TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. ALL WORK SHALL CONFORM TO THE TOWN OF CLINT, TEXAS SUBDIVISION ORDINANCE, LATEST EDITION, THE TEXAS ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS. ANY CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS AND THE ORDINANCE, THE CONTRACTOR SHALL CONSULT THE ENGINEER AND OWNER TO DETERMINE WHICH CONTROLS.
- 14. ANY EXISTING TOWN MONUMENT DISTURBED BY THE CONTRACTOR SHALL BE REPLACED TO THE TOWN STANDARDS BY CONTRACTOR AND CERTIFIED BY A REGISTERED SURVEYOR AT NO COST TO THE TOWN. THE CONTRACTOR'S SURVEYOR SHALL FURNISH A CERTIFIED ELEVATION AND LOCATION FOR EACH REPLACED MONUMENT.
- 15. ALL EXISTING UTILITY LINES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITY LINES (INCLUDING SERVICES) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL UNDERGROUND UTILITY LINES AT NO EXTRA COST TO THE OWNER WHEN LINES ARE DISTURBED AS A RESULT OF THE WORK.
- 16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER INDICATED ON THE DRAWINGS OR NOT, TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES AND SUBSTRUCTURES AND PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL CONTACT ALL THE UTILITY COMPANIES AND CONDUCT ALL NECESSARY FIELD INVESTIGATIONS/POTHOLING PRIOR TO ANY EXCAVATION. IF DAMAGE OCCURS, THE CONTRACTOR SHALL IMMEDIATELY CORRECT OR REPLACE EXISTING STRUCTURES OR FACILITIES THAT ARE DAMAGED IN ANY WAY AS A RESULT OF HIS OPERATIONS. THE CONTRACTOR SHALL NOT CUT. REMOVE. CHANGE, OR DISTURB ANY EXISTING LINES OR STRUCTURES, EXCEPT AS PROVIDED BY THE PLANS AND THE SPECIFICATIONS. WITHOUT THE EXPRESS PERMISSION OF THE OWNER OF ANY SUCH LINE.
- 17. THE CONTRACTOR SHALL PROVIDE THE UTILITY OWNER WITH REASONABLE ADVANCE NOTICE TO PERFORM THE REQUIRED ADJUSTMENTS AND RELOCATIONS. THE CONTRACTOR SHALL INFORM TEXAS GAS OF REQUIRED UTILITY ADJUSTMENTS OR RELOCATIONS AT LEAST THIRTY DAYS IN ADVANCE OF PLANNED CONSTRUCTION.
- 18. CONTRACTOR SHALL PLACE EROSION CONTROL MEASURES AS SHOWN IN PLANS.
- 19. CONTRACTOR MAY RE-USE SEDIMENT/EROSION CONTROLS.
- 20. CONTRACTOR SHALL COORDINATE WITH EL PASO ELECTRIC AT LEAST TWO WEEKS IN ADVANCE OF PLANNED CONSTRUCTION NEAR POWER POLES TO BE ADJUSTED OR REPLACED.
- 21. PROPOSED SIGNING AND STRIPING SHALL CONFORM TO TXDOT STANDARDS AND TXDOT SPECIFICATION ITEMS 666, 644, AND 658.

- PROPER LOCATION.
- REGULATIONS.
- LEAST 98 PERCENT.
- D-1557.
- SW-SM, SW-SC, SP-SM, SW-SC AND SC-SM.

- ASTM D-2922 OR D-1556.
- REQUIRED TO APPROXIMATELY BRIDGE OVER THESE ZONES.
- COVERED.
- HAS BEEN OBTAINED.
- 14. REFER TO SPECS FOR MATERIAL TESTING.
- COMPACTION.

GRADING SPECIFICATIONS

1. CLEARING AND GRUBBING: CLEAR SITE OF TREES, SHRUBS AND OTHER VEGETATION; COMPLETELY REMOVE STUMPS, ROOTS AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE: FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY FILL MATERIAL, UNLESS FURTHER EXCAVATION OF EARTHWORK IS INDICATED REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION. BURNING IS NOT PERMITTED ON OWNER'S PROPERTY. REMOVE WASTE MATERIALS FROM OWNER'S PROPERTY AND DISPOSE OF IT IN

2. ALL EXISTING PAVEMENT SHALL BE COMPLETELY REMOVED AND DISPOSED OFF-SITE. DEMOLITION DEBRIS SHALL BE REMOVED AND DISPOSED OFF-SITE AS PER LOCAL

4. HMAC MATERIAL SHOULD CONFORM TO TYPE C. IN ACCORDANCE WITH THE SPECIFICATIONS. THE HMAC MIX SHOULD HAVE A MINIMUM 1,500 POUNDS OF MARSHALL STABILITY WHEN COMPACTED AT 75 BLOWS IN ACCORDANCE WITH ASTM D-1559, AND SHOULD HAVE A FLOW BETWEEN 8 AND 16. THE HMAC COURSE SHOULD BE PLACED AT A TARGET DENSITY OF AT

5. THE CRUSHED STONE BASE COURSE (CSBC) SHOULD BE ITEM 247, TYPE A, GRADE 3 IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES. CSBC MATERIALS SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS, AND COMPACTED TO 100 PERCENT OF MAXIMUM DRY DENSITY AND A MOISTURE CONTENT WITHIN PLUS OR MINUS 2 PERCENT, IN ACCORDANCE WITH ASTM

6. SATISFACTORY FILL MATERIALS: SELECT FILL MATERIAL SHOULD BE GRANULAR, COHESIONLESS, AND FREE OF DELETERIOUS MATERIAL AND PARTICLES OVER 4 INCHES IN GREATEST DIMENSION. SOILS PROPOSED FOR USE AS FILL MATERIALS SHOULD BE CLASSIFIED IN ACCORDANCE WITH ASTM D-2487. THE FOLLOWING SOILS CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) CAN BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL: GM, GC, GW-GM, GW-GC, GP, GP-GM AND GP-GC, SM, SC,

7. UNSATISFACTORY FILL MATERIAL: THE FOLLOWING USCS-CLASSIFIED SOILS ARE NOT CONSIDERED SATISFACTORY FOR USE AS SELECT FILL: CH, CL, MH, ML, OH, OL AND PT, OR SOILS THAT EXCEED A LIQUID LIMIT OF 40 AND A PLASTICITY INDEX OF 15.

8. EXCAVATION: IS UNCLASSIFIED AND INCLUDES EXCAVATION TO ELEVATIONS INDICATED, REGARDLESS OF CHARACTER OF MATERIAL AND OBSTRUCTIONS ENCOUNTERED.

9. SELECT FILL SHOULD BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 8 INCHES IN COMPACTED THICKNESS, MOISTURE-CONDITIONED TO ADD THE AMOUNT OF MOISTURE REQUIRED FOR OPTIMUM COMPACTION AND COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR) PROCEDURES. THE MOISTURE CONTENT SHOULD BE AT PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557. THIS COMPACTION REQUIREMENT ALSO APPLIES TO THE SUBGRADE SOILS THAT WILL RECEIVE SELECT FILL. HOWEVER, IF THE SUBGRADE SOILS CONSIST OF COHESIVE SOILS SUCH AS CL OR CH, OR IF THE PLASTICITY INDEX EXCEEDS 18, THE SUBGRADE SOILS SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT. COMPACTION OF THE FILL MATERIAL AND SUBGRADE SOILS SHOULD BE CONDUCTED WITH APPROVED TYPES OF PNEUMATIC, POWER OR TAMPING EQUIPMENT. DETERMINATION OF DENSITY IN THE FIELD SHOULD BE CONDUCTED IN ACCORDANCE WITH

10. ONCE THE ELEVATION OF THE NATIVE SUBGRADE HAS BEEN ESTABLISHED, THE NATIVE SUBGRADE SOILS THAT WILL SUPPORT PREPARED SELECT FILL, BASE COURSE AND THE PAVEMENT STRUCTURE SHOULD BE STRIPPED OF ALL EXISTING PAVEMENT MATERIALS. VEGETATION, ORGANIC MATTER, TOPSOIL, AND/OR FOREIGN MATTER. THE EXPOSED SUBGRADES SHOULD BE THOROUGHLY PROOFROLLED IN ORDER TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONES. A MINIMUM OF 5 PASSES OF A FULLY-LOADED DUMP TRUCK OR CONSTRUCTION EQUIPMENT WITH SIMILAR AXLE LOADS SHOULD BE USED FOR EVALUATION PURPOSES. WEAK OR SOFT AREAS IDENTIFIED DURING PROOFROLLING SHOULD BE SCARIFIED AND RECOMPACTED OR REMOVED AND REPLACED WITH A SUITABLE, COMPACTED SELECT FILL. THESE WEAK OR SOFT SOIL ZONES (I.E., PUMPING AREAS) SHOULD BE RECOMPACTED OR REMOVED TO A MINIMUM DEPTH OF 8-INCHES OR AS

11. RECOMPACTED NON-COHESIVE SUBGRADE SOILS (I.E., SILTY SANDS OR POORLY GRADED SANDS) SHOULD BE MOISTURE CONDITIONED BY SCARIFYING TO A MINIMUM DEPTH OF 8-INCHES AND SHOULD BE RECOMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT ±3 % OF OPTIMUM MOISTURE AS DETERMINED BY ASTM D 1557. THE MOISTURE CONTENT OF THE SUBGRADE SHOULD BE MAINTAINED UNTIL PERMANENTLY

 $\sim \sim \sim \sim \sim \sim \sim$ 12. IF PUMPING CONTINUES AFTER RECOMPACTING OR REMOVING THE SOIL IN WEAK OR SOFT AREAS AS DESCRIBED IN NOTE 10, THE CONTRACTOR SHALL REPLACE THE SATURATED MATERIAL WITH CEMENT STABILIZED BACKFILL AS PER SPECIFICATION 03 40 00, 1.4B. THIS) SHALL BE SUBSIDIARY TO ITEM 13 COMPACTED SELECT FILL AND ITEM 14 SUBGRADE PREPARATION.

13. QUALITY CONTROL: FIELD DENSITY TESTS SHALL BE MADE BY GEOTECHNICAL ENGINEER AS SPECIFIED IN THE SPECIFICATIONS. DENSITY TESTS SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY. THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY

15. AFTER A COMPACTED LAYER PASSES THE DENSITY TEST, THE PLACEMENT OF THE NEXT LAYER SHALL BE DONE AS SOON AS POSSIBLE, BUT NOT EXCEED TWO CALENDAR DAYS. IF THERE IS RAIN AFTER A LAYER IS COMPACTED AND ITS DENSITY APPROVED, IT SHALL BE ALLOWED TO DRY BEFORE DENSITY TESTING IS CONDUCTED AGAIN TO VERIFY PROPER

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G	EXISTING GAS LINE (G)	MB	EXISTING MAILBOX
OEOE	EXISTING OVERHEAD ELECTRIC	WM	EXISTING WATER METER
	EXISTING COMMUNICATION LINE	WV	EXISTING WATER VALVE
	EXISTING ROW LINE		EXISITNG ELECTRICAL PAN
	EXISTING LOT LINES		EXISTING GUY WIRE
	MATCH LINE	(G)	EXISTING GAS METER
	DEMOLISH ASPHALT & BASE AND OVEREXCAVATE UNSUITABLE MATERIAL	<u> </u>	EXISTING SIGN
		× _{IR}	EXISTING IRRIGATION CON

① (







----- PROPOSED _____

HORIZONTAL SCALE : 1'' = 30'VERTICAL SCALE : 1'' = 3'DESIGN SPEED: 20 MPH

PDINT TABLE PDINT # | NORTHING EASTING | Elevation 10593695.16 463468.50 3638.13 1 10593726.73 463466.81 3637.62 2 З 10593705.52 463541.56 3637.95 10593729.50 463540.28 3637.70 4 5 10593744.27 | 463731.46 | 3637.13 10593745.13 463746.47 3637.15 6 М 7 _ _ 8 М — _

		LEGEND:					
	Wx	- EXISTING WATER LINE					
	G	- EXISTING GAS LINE	P		C	2	
	OE	EXISTING OVERHEAD ELECTRIC	Ulya	TE (OF F	alliga	2
	UT	EXISTING COMMUNICATION LINE	×			- A	
		- EXISTING ROW LINE	ALEJ	ANDR/	A GAL	LEGOS	: F F
		- EXISTING LOT LINES	PROF	123 //CE	3237 NSE	NEER	
30		MATCH LINE		SSION	IALE	N ^G 2/22/2(023
-		PROPOSED HEADER CURB	Firm	Huitt-J Regis	Zollars	s, Inc.	5 51
		PROPOSED PAVEMENT	$\prod_{i=1}^{n}$				
		PROPOSED PARKWAY REGRADE				Date	
		PROPOSED ASPHALT DRIVEWAY				Action	
	·····	PROPOSED UNPAVED DRIVEWAY				D.D. NO.	
		HIGH POINT (HP)	-				
		LOW POINT (LP)				cription	
		EXISTING POWER POLE				Des	
	\bigcirc	EXISTING TREE					
	MB	EXISTING MAILBOX				×	
	WM	EXISTING WATER METER (WM)				Mar	ļ
	WV	EXISTING WATER VALVE (WV)				_	١
		EXISTING ELECTRIC PANEL	š			13-PP1.dw 023	
	G	EXISTING GAS METER		ģ	ö	R3085380 22,22	
	O	EXISTING SIGN		sign file i	swing cod	t date: Dec t acate: 1:	
	EPB	EXISTING ELECTRIC JUNCTION BOX	X	So So	ద్		•
	DWY	DRIVEWAY		By:			
	ROW	APPROXIMATE RIGHT OF WAY LINE	E	₽ 3 ₹	- -		

<u>NOTES:</u>

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- 1. CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
- 2.REFER TO SHEETS 13 TO 17 FOR CROSS SECTIONS AND DRIVEWAY PROFILES.
- 3.REFER TO SHEET 24 FOR TYPICAL ROADWAY SECTION. 4. CONTRACTOR TO VERTICALLY ADJUST ALL EXISTING UTILITY MANHOLES AND VALVES TO NEW ROADWAY GRADE.

MATCH EXISTING ELEVATION

- 5. AN ADDITIONAL 2 FOOT OF THE ASPHALT LAYER SHALL EXTEND BEYOND THE PAVEMENT RECONSTRUCTION LIMITS AND WILL BE REPLACED AS NOTED IN THE PAVEMENT JUNCTION DETAIL IN THE CIVIL DETAILS SHEET. THIS WORK IS SUBSIDIARY TO THE ASPHALT REMOVAL AND INSTALLATION ITEMS 4 AND 11.
- 6.AN EXPANSION JOINT SHALL BE PROVIDED BETWEEN THE EXISTING CONCRETE DRIVEWAY AND THE PROPOSED HEADER CURB. THIS SHALL BE SUBSIDIARY TO ITEM 15.

WARNING ! BEFORE YOU DIG CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UNDERGROUND IMPROVEMENTS IN PROJECT AREA			RD. RECONSTRUCTION NN OF CLINT, TEXAS		DI AN & PROFILE PLAN	OM STA 0+00 TO 6+00
UTILITY LOCATOR SE TOWN OF CLINT MAIN OFFICE LOWER VALLEY WATER DISTRICT TEXAS GAS SERVICE EL PASO NATURAL GAS	RVICES 1-915-851-3146 1-915-791-4480 1-800-700-2443 1-800-334-8047 1-800-924-9420		FENTEF TOV		Ц	FRG
EL PASO ELECTRIC COMPANY SPECTRUM TEXAS 811	1-800-252-1133 1-915-772-1123 1-811		ret	Shee feren umbe	t ice er:	



NOTES:

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- . CONTRACTOR SHALL BUILD SECTION FROM STA 17+97 1TO STA 18+23 BY THE SET DATE FOR MILESTONE 1 IN THE PROJECT FRONT END DOCUMENTS, WORK TO BE COMPLETED BY THIS DATE INCLUDES DEMOLITION, EXCAVATION, PLACEMENT OF FLOWABLE BACKFILL FOR PAVEMENT STRUCTURE AS PER SPECIFICATION SECTION 03 40 00 BACKFILL (1.4A), HEADER CURB AND PARKWAY GRADING. HMAC SHALL BE PLACED WHEN WEATHER IS OPTIMAL AS DESCRIBED IN THE PROJECT SPECIFICATIONS. IF PLACEMENT OF HMAC WILL EXCEED TWO CALENDAR DAYS FROM PLACEMENT OF BASE COURSE, PRIME COAT SHALL BE APPLIED FOR MOISTURE RETENTION AND DENSITY TESTS SHALL BE CONDUCTED AGAIN TO VERIFY PROPER COMPACTION BEFORE ASPHALT PLACEMENT.









FENTER RD & PROPOSED PROFILE

_LEGENL	<u>):</u>
Wx	EXISTING WATER LINE
G	EXISTING GAS LINE
OE	EXISTING OVERHEAD ELECTRIC
UT	EXISTING COMMUNICATION LINE
	EXISTING ROW LINE
	EXISTING LOT LINES
	MATCH LINE
	PROPOSED HEADER CURB
	PROPOSED PAVEMENT
	PROPOSED PARKWAY REGRADE
	PROPOSED ASPHALT DRIVEWAY
	PROPOSED UNPAVED DRIVEWAY
	HIGH POINT (HP)
	LOW POINT (LP)
-0-	EXISTING POWER POLE
\odot	EXISTING TREE
MB	EXISTING MAILBOX
WM	EXISTING WATER METER (WM)
WV N	EXISTING WATER VALVE (WV)
	EXISTING ELECTRIC PANEL
G	EXISTING GAS METER
O	EXISTING SIGN
EPB	EXISTING ELECTRIC JUNCTION BOX
DWY	DRIVEWAY
ROW	APPROXIMATE RIGHT OF WAY LINE
Μ	MATCH EXISTING ELEVATION

POINT TABLE				
PDINT #	NORTHING	EASTING	Elevation	
25	10594441.68	464891.52	3637,80	
26	10594440.76	464898.39	3637,53	
27	10594436.93	464900.70	3637.37	
28	10594455.40	464913.07	3637.63	
29	10594448.26	464911.51	3637,41	
30	10594444.92	464913.39	3637,31	

	WARNING ! BEFORE YOU CONTRACTOR SH FIELD LOCATE ALL UNDERGROUND IMPRO IN PROJECT AF	DIG HALL EXISTING OVEMENTS REA	RD. RECONSTRUCTION N OF CLINT TEXAS	ER RD. WEST SEGMENT	STA 17+00 TO 21+00
BASE COURSE FOR A E CENTERLINE. ED STONE BASE	UTILITY LOCATOR SE TOWN OF CLINT MAIN OFFICE LOWER VALLEY WATER DISTRICT TEXAS GAS SERVICE EL PASO NATURAL GAS A T & T	RVICES 1-915-851-3146 1-915-791-4480 1-800-700-2443 1-800-334-8047 1-800-924-9420	FENTER	ENT :	FROM
-A IN THIS SHEET. IS. DO NOT USE	EL PASO ELECTRIC COMPANY SPECTRUM TEXAS 811	1-800-252-1133 1-915-772-1123 1-811	re r	Sheet eference number:	
IED STONE BASE SUBGRADE AS SHOWN			Sheet	10 of	29



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ALEJANDRA GALLEGOS

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