

**Addendum No. 4  
to the  
Contract Documents  
JVWCD Headquarters Upper Campus Site Repairs & Improvements  
Project**

To All Planholders

April 10, 2021

Gentlemen:

Project No.: 3910

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of the “JVWCD Headquarters Upper Campus Site Repairs & Improvements”, dated March 3 2021, as fully and completely as if the same were fully set forth therein:

- A.** The Bid Schedule replaces ALL previously published Bid Schedules. The Bid Schedule attached to this Addendum No.4 must be used for when bidding on this project.
  
- B.** Drawings: UTILITY PLAN BECKSTEAD LANE, drawing page 4.3, replaces the previously published drawing UTILITY PLAN BECKSTEAD LANE, drawing page 4.3.
  
- C.** Drawings: UTILITY PLAN GAS LINE, drawing page 4.5, replaces the previously published drawing UTILITY PLAN GAS LINE, drawing page 4.5.
  
- D.** The attached document titled “TCC Response to Comments Jordan Valley Water Conservation District Headquarters Upper Campus Improvements Project” is added and made integral part of the Bid Documents.
  
- E.** The attached document titled “UNIT PRICE – MEASUREMENT AND PAYMENT”, replaces ANY previously published “UNIT PRICE-MEASUREMENT AND PAYMENT” document.

Sincerely,

Jordan Valley Water Conservancy District

Marcelo Anglade, P.E.

Receipt acknowledged and conditions agreed to this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

\_\_\_\_\_  
Bidder

\_\_\_\_\_  
By

# BID

## BID SCHEDULES

### JVWCD Headquarters Upper Campus Site Repairs and Improvements

#### BID SCHEDULE A - CULVERT

SCHEDULE A - CULVERT					
Item No.	Description	Quantity Unit	Quantity	Unit Price	Extended Amount
1	Mobilization	Lump Sum	1		
2	Asphalt to be removed and disposed	Square Feet	1,703		
3	Excavation	Cubic Yards	407		
4	Curb and Gutter to be removed and disposed	Linear Feet	130		
5	Storm Drain Pipe to be removed and disposed	Linear Feet	152		
6	Existing Storm Drain Headwall and Valve to be removed and disposed	Each	1		
7	Existing Gate to be removed, stored, and replaced	Each	1		
8	Sawcut - Tie Ins to Existing Asphalt/Concrete	Linear Feet	62		
9	Construction Silt Fencing	Linear Feet	233		
10	Filter Sock Inlet Protection	Each	2		
11	Storm Drain Catch Basin to be removed and disposed	Each	2		
12	Remove and properly dispose of existing fence	Linear Feet	87		
13	Remove and relocate existing Monument and Lighting	Each	1		
14	Remove and Properly dispose of existing Landscaping	Square Feet	2,780		
15	Tree Protection	Each	3		
16	4" Heavy Asphalt Pavement	Square Feet	1,708		
17	30" Curb and Gutter with Base Course	Linear Feet	130		
18	Aggregate Base Course	Cubic Feet	1,139		
19	Granular Subbase	Cubic Feet	1,424		
20	Precast Concrete Wing Wall for Box Culvert	Each	4		
21	Guardrail along Wing Wall	Linear Feet	73		

**BID**

22	Fence Replacement	Linear Feet	87		
23	Rip-Rap with Fabric	Cubic Yards	9		
24	Structural Fill Box Culvert	Cubic Feet	2,500		
25	2'x4' Storm Drain Catch Basin	Each	2		
26	8" Water Line 45 Degree Bend	Each	4		
27	15" RCP Storm Drain	Linear Feet	35		
28	5'x3' Concrete Box Culvert	Linear Feet	110		
29	Underground Electrical Conduit Loop	Lump Sum	1		
30	Telecommunication Conduit Loop	Lump Sum	1		
31	Restore Landscape to match existing	Square Feet	2,690		
<b>Total Bid Schedule A</b>					<b>\$</b>

**TOTAL AMOUNT BID SCHEDULE A - CULVERT REPLACEMENT IN WORDS:**

\_\_\_\_\_ Dollars and \_\_\_\_ cents.

**BID SCHEDULE B- BECKSTEAD LANE LINE OF SITE**

SCHEDULE B - BECKSTEAD LANE LINE OF SITE					
Item No.	Description	Quantity Unit	Quantity	Unit Price	Extended Amount
1	Mobilization	Lump Sum	1		
2	Asphalt to be removed and disposed	Square Feet	14,472		
3	Excavation	Cubic Yards	1,532		
4	Remove Concrete Waterway	Linear Feet	15		
5	Curb and Gutter to be removed and disposed	Linear Feet	1,060		
6	Gas line to be cut, capped, and abandoned in place	Each	2		
7	Storm Drain Pipe to be removed and disposed	Linear Feet	78		
8	Sawcut - Tie Ins to Existing Asphalt/Concrete	Linear Feet	139		
9	Construction Silt Fencing	Linear Feet	610		
10	Remove and properly dispose of existing water line	Linear Feet	497		

**BID**

11	Remove and Properly dispose of existing Landscaping	Square Feet	2,562		
12	Tree Protection	Each	2		
13	4" Heavy Asphalt Pavement	Square Feet	13,167		
14	3.5" Asphalt Pavement	Square Feet	1,186		
15	30" Curb and Gutter with Base Course	Linear Feet	1,060		
16	Aggregate Base Course	Cubic Feet	9,841		
17	Granular Subbase	Cubic Feet	10,973		
18	Concrete Waterway	Linear Feet	60		
19	Utility Structure Adjust to Grade	Each	5		
20	8" CAV	Each	1		
21	8" C900 Water Line	Linear Feet	475		
22	4" Tap into 8" C900 Water Line	Each	1		
23	8x6x8" Tee into 8" C900 Water Line	Each	1		
24	Remove Existing Maxicom Valve	Each	1		
25	Rain Bird Drip Control Valve	Each	2		
26	Flush Valve	Each	2		
27	2" PVC Class 200 Irrigation Sleeves	Linear Feet	75		
28	Restore Landscape to match existing	Square Feet	6,960		
<b>Total Bid Schedule B</b>				<b>\$</b>	

**TOTAL AMOUNT BID SCHEDULE B - BECKSTEAD LANE LINE OF SITE IN WORDS:**

\_\_\_\_\_ Dollars and \_\_\_\_\_ cents.

## BID

### BID SCHEDULE C - UPPER CAMPUS PARKING LOT

BID SCHEDULE C - UPPER CAMPUS PARKING LOT					
Item No.	Description	Quantity Unit	Quantity	Unit Price	Extended Amount
1	Mobilization	Lump Sum	1		
2	Asphalt to be removed and disposed	Square Feet	76,112		
3	Concrete to be removed and disposed	Square Feet	8,320		
4	Excavation	Cubic Yards	1,409		
5	Remove Concrete Waterway	Linear Feet	125		
6	Curb and Gutter to be removed and disposed	Linear Feet	3,545		
7	Storm Drain Pipe to be removed and disposed	Linear Feet	125		
8	Sawcut - Tie Ins to Existing Asphalt/Concrete	Linear Feet	952		
9	Construction Silt Fencing	Linear Feet	842		
10	Filter Sock Inlet Protection	Each	7		
11	Storm Drain Catch Basin to be removed and disposed	Each	3		
12	Remove and properly dispose of Existing ADA Parking Sign	Each	4		
13	Remove and properly dispose of existing tree	Each	16		
14	Remove and Properly dispose of existing Landscaping	Square Feet	1,290		
15	Tree Protection	Each	7		
16	3.5" Asphalt Pavement	Square Feet	73,948		
17	5" Concrete Sidewalk	Square Feet	5,077		
18	6.5" Vehicular Concrete Section	Square Feet	3,096		
19	30" Curb and Gutter with Base Course	Linear Feet	3,140		
20	Type 'P' Curb with Base Course	Linear Feet	85		
21	Aggregate Base Course	Cubic Feet	65,710		
22	Concrete Waterway	Linear Feet	154		
23	Utility Structure Adjust to Grade	Each	2		

**BID**

24	Detectable Warning Surface (3' Section)	Each	35		
25	Wheel Stops	Each	6		
26	2'x4' Storm Drain Catch Basin	Each	3		
27	12" RCP Storm Drain	Linear Feet	98		
28	18" RCP Storm Drain	Linear Feet	139		
29	Tie-ins to Existing Storm Drain System	Each	2		
30	4" Solid Striping	Linear Feet	2,196		
31	Cross Walk-Paint	Square Feet	2,495		
32	ADA markings and loading zones	Each	5		
33	Rain Bird Drip Control Valve	Each	6		
34	Flush Valve	Each	14		
35	2" PVC Class 200 Irrigation Sleeves	Linear Feet	265		
36	Restore Landscape to match existing	Square Feet	10,700		
<b>Total Bid Schedule C</b>					<b>\$</b>

**TOTAL AMOUNT BID SCHEDULE C - UPPER CAMPUS PARKING LOT IN WORDS:**

\_\_\_\_\_ Dollars and \_\_\_\_ cents.

**BID SCHEDULE D - GAS LINE REPLACEMENT**

BID SCHEDULE D - GAS LINE REPLACEMENT					
Item No.	Description	Quantity Unit	Quantity	Unit Price	Extended Amount
1	Mobilization	Lump Sum	1		
2	Sawcut - Tie Ins to Existing Asphalt/Concrete	Linear Feet	1,500		
3	4" Heavy Asphalt Pavement	Square Feet	2,886		
4	8" PVC Sleeve for Gas Line	Linear Feet	296		
5	Gas Line Relocation (Refer to Dominion Energy)	Not to Be Included in Bid	N/A	N/A	N/A
<b>Total Bid Schedule D</b>					<b>\$</b>

**TOTAL AMOUNT BID SCHEDULE D - GAS LINE REPLACEMENT IN WORDS:**

\_\_\_\_\_ Dollars and \_\_\_\_ cents.

**BID**

**BID SCHEDULE E - UPPER CANAL (DITCH) REROUTING**

BID SCHEDULE D - UPPER CANAL (DITCH) REROUTING					
Item No.	Description	Quantity Unit	Quantity	Unit Price	Extended Amount
1	Mobilization	Lump Sum	1		
4	Excavation	Cubic Yards	166		
8	Storm Drain Pipe to be removed and disposed	Linear Feet	12		
37	5' Diameter Storm Drain Manhole	Each	2		
39	24" Pipe Outfall	Each	1		
46	24" RCP Storm Drain	Linear Feet	250		
47	Tie-ins to Existing Storm Drain System	Each	1		
<b>Total Bid Schedule E</b>					<b>\$</b>

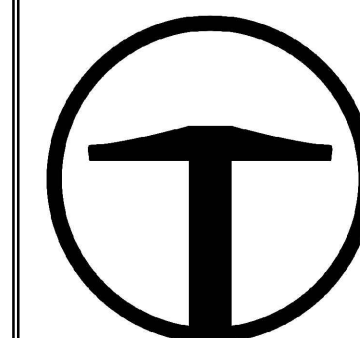
**TOTAL AMOUNT BID SCHEDULE E - CANAL (DITCH) REROUTING IN WORDS:**

\_\_\_\_\_ Dollars and \_\_\_\_ cents.

BID SCHEDULE	AMOUNT
<b>BID SCHEDULE A - CULVERT REPLACEMENT</b>	
<b>BID SCHEDULE B - BECKSTEAD LANE LINE OF SITE</b>	
<b>BID SCHEDULE C - UPPER CAMPUS PARKING LOT</b>	
<b>BID SCHEDULE D - GAS LINE REPLACEMENT</b>	
<b>BID SCHEDULE E - CANAL (DITCH) REROUTING</b>	
<b>TOTAL BID SCHEDULES A-B-C-D-E COMBINED</b>	

**TOTAL PROJECT BIDS COMBINED IN WORDS:**

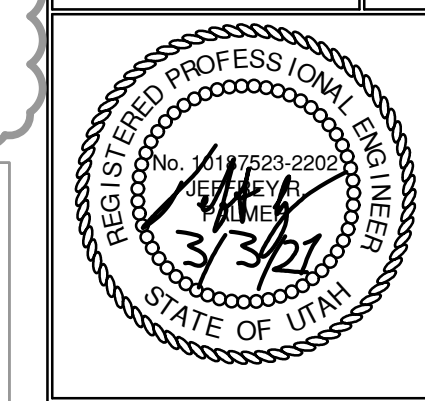
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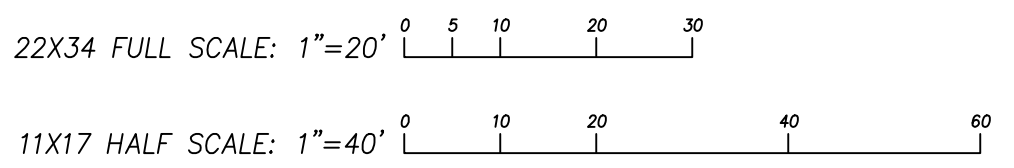
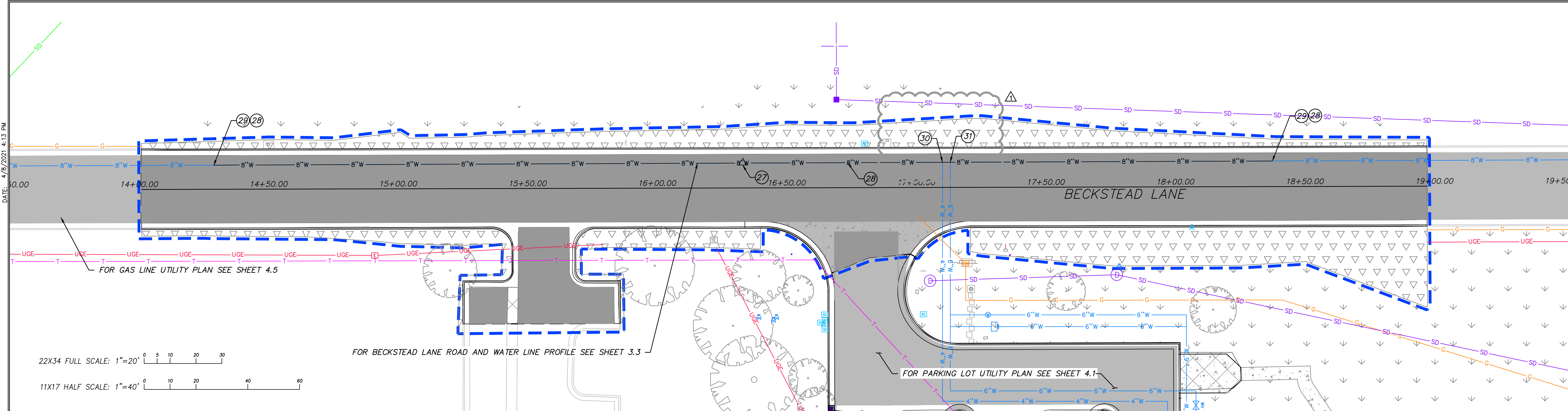
**TALISMAN**  
CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

NO.	1
BY	DKK
DATE	4.8.2021
REVISIONS	ADDENDUM 3

**JWVCD HEADQUARTERS**  
UPPER CAMPUS SITE REPAIRS & IMPROVEMENTS  
UTILITY PLAN BECKSTEAD LANE  
DATE SUBMITTED: 03.05.2021  
TCC JOB NUMBER: 18-024



SHEET NUMBER  
**4.3**  
25 OF 38



**UTILITY GENERAL NOTES:**

CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS. SEE ELECTRICAL PLANS FOR DRY UTILITY LOCATION, INSTALLATION AND DESIGN INFORMATION.

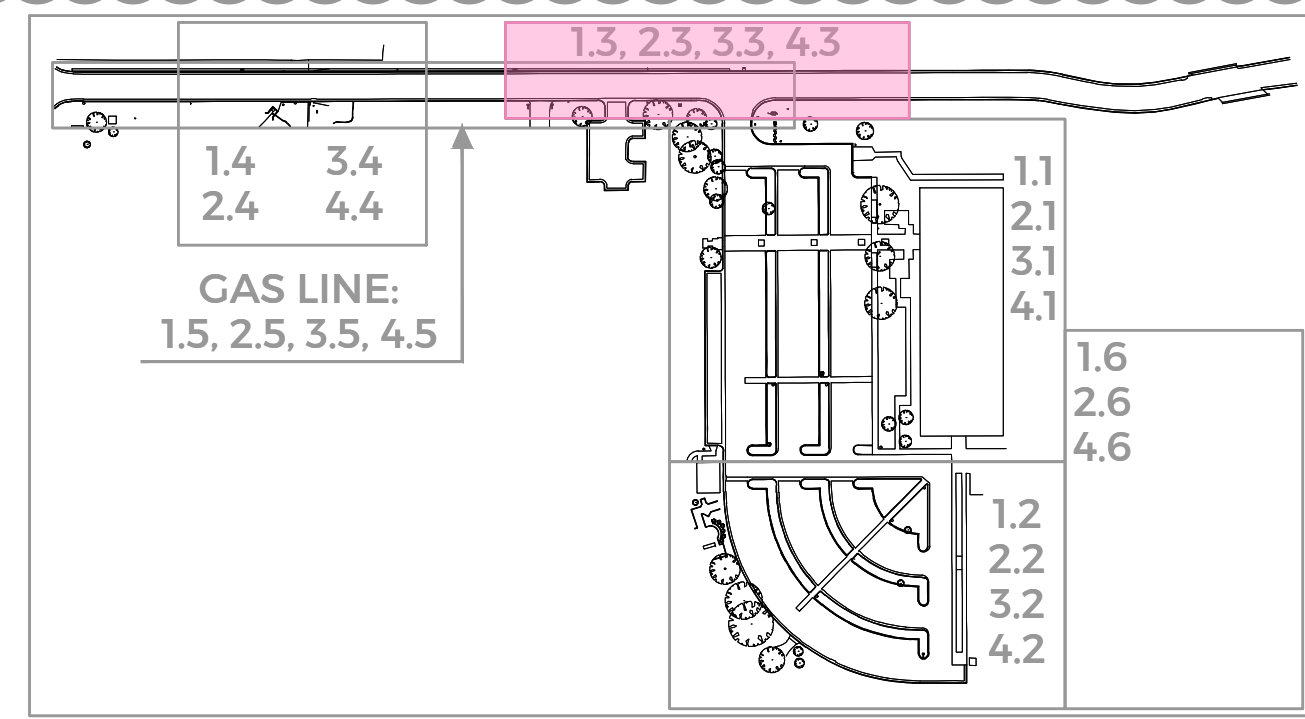
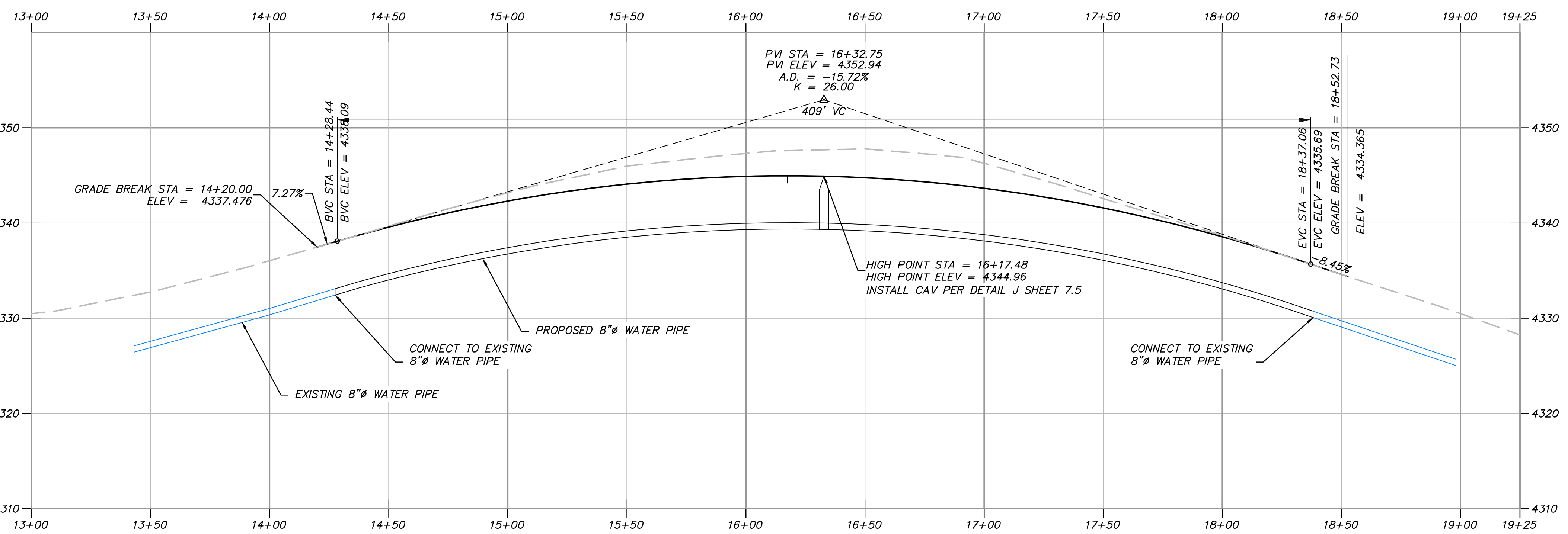
ALL NEW WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING AGENCIES AND APWA STANDARDS & SPECIFICATIONS.

EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.

ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

**UTILITY SCOPE OF WORK:**

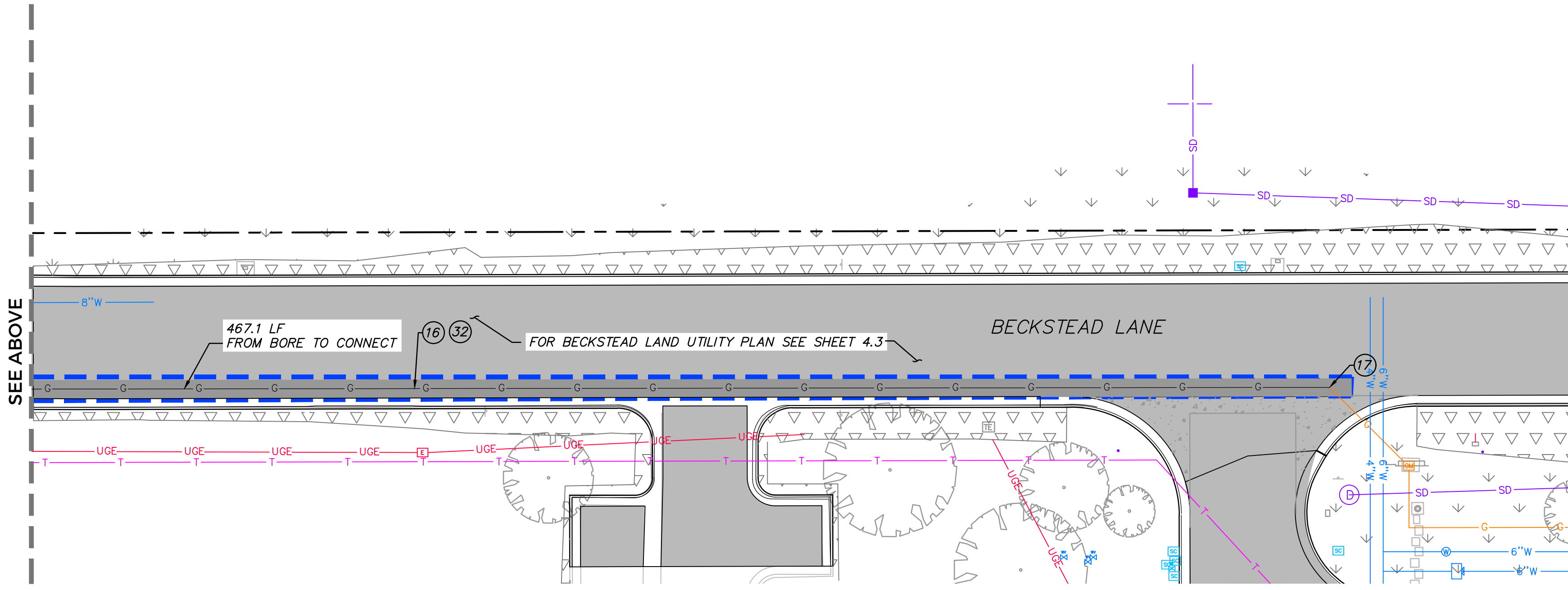
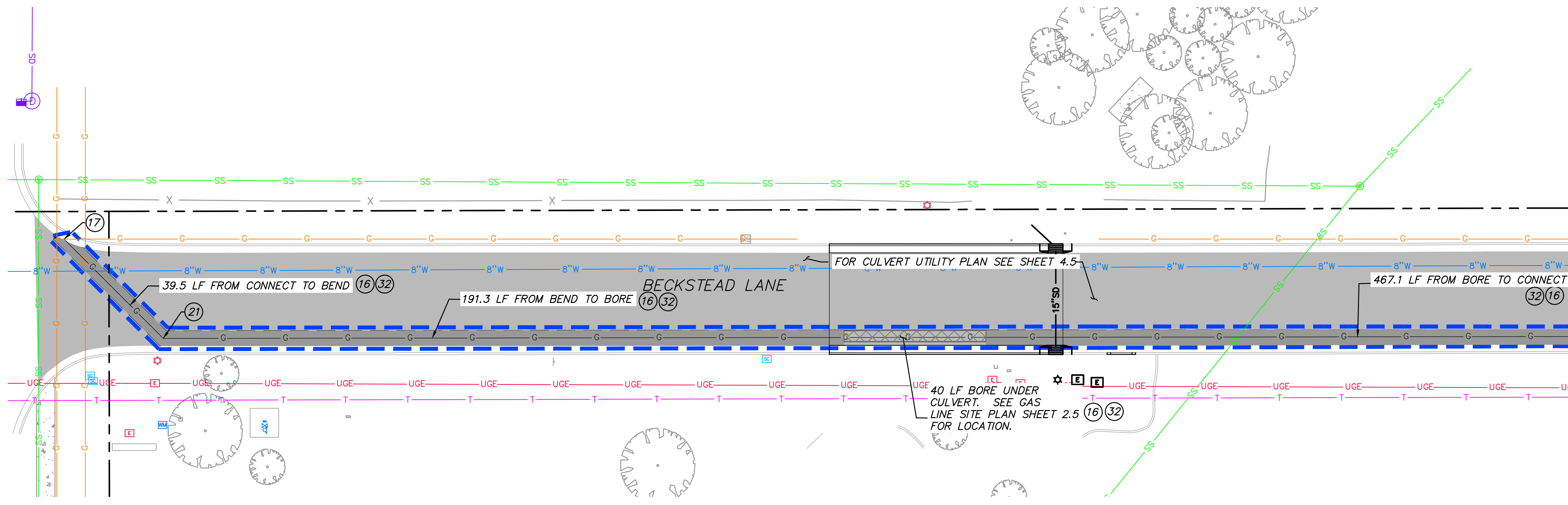
- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- (27) INSTALL CAV PER DETAIL J SHEET 7.5.
  - (28) INSTALL 8"Ø WATER PIPE. MAINTAIN MINIMUM 4' BURY DEPTH FROM TOP OF PIPE TO FINISHED GRADE.
  - (29) CONNECT TO EXISTING WATERLINE WITH NEW 8"Ø WATERLINE. MAINTAIN MINIMUM 4' BURY DEPTH FROM TOP OF PIPE TO FINISHED GRADE.
  - (30) CONNECT EXISTING 4" WATER SERVICE LINE TO NEW 8" WATER LINE WITH 4" TAP. EXISTING 4" WATER LINE TO BE ADJUSTED AS NEEDED TO MAKE CONNECTION.
  - (31) CONNECT EXISTING 6" WATER SERVICE LINE TO NEW 8" WATER LINE WITH 8x6x8" TEE. EXISTING 6" WATER LINE TO BE ADJUSTED AS NEEDED TO MAKE CONNECTION.





DATE: 4/9/2021 4:14 PM

PA:TH: N:\18-024 - JMWCD Headquarters\Cadd\01 Upper Campus Beckstead\14.5 UTILITY PLAN-GAS.dwg



**UTILITY GENERAL NOTES:**

CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS. SEE ELECTRICAL PLANS FOR DRY UTILITY LOCATION, INSTALLATION AND DESIGN INFORMATION.

ALL NEW WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH LOCAL GOVERNING AGENCIES AND APWA STANDARDS & SPECIFICATIONS.

EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.

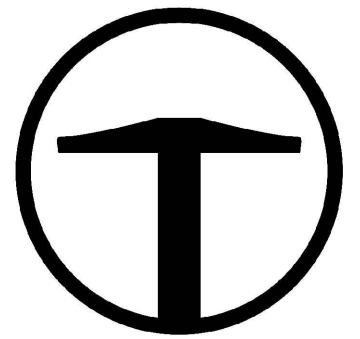
ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

**UTILITY SCOPE OF WORK:**

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- (16) INSTALL GAS LINE, CONTRACTOR TO COORDINATE WITH DOMINION ENERGY.
- (17) CONNECT TO EXISTING GAS LINE, CONTRACTOR TO COORDINATE WITH DOMINION ENERGY.
- (21) INSTALL SWEEP, CONTRACTOR TO COORDINATE WITH DOMINION ENERGY.
- (32) CONTRACTOR TO INSTALL 8" PVC SLEEVE FOR FUTURE RELOCATED GAS LINE. CONTRACTOR TO COORDINATE WITH DOMINION ENERGY AND DISTRICT OVER TIMING OF SWITCH OVER.

SEE BELOW

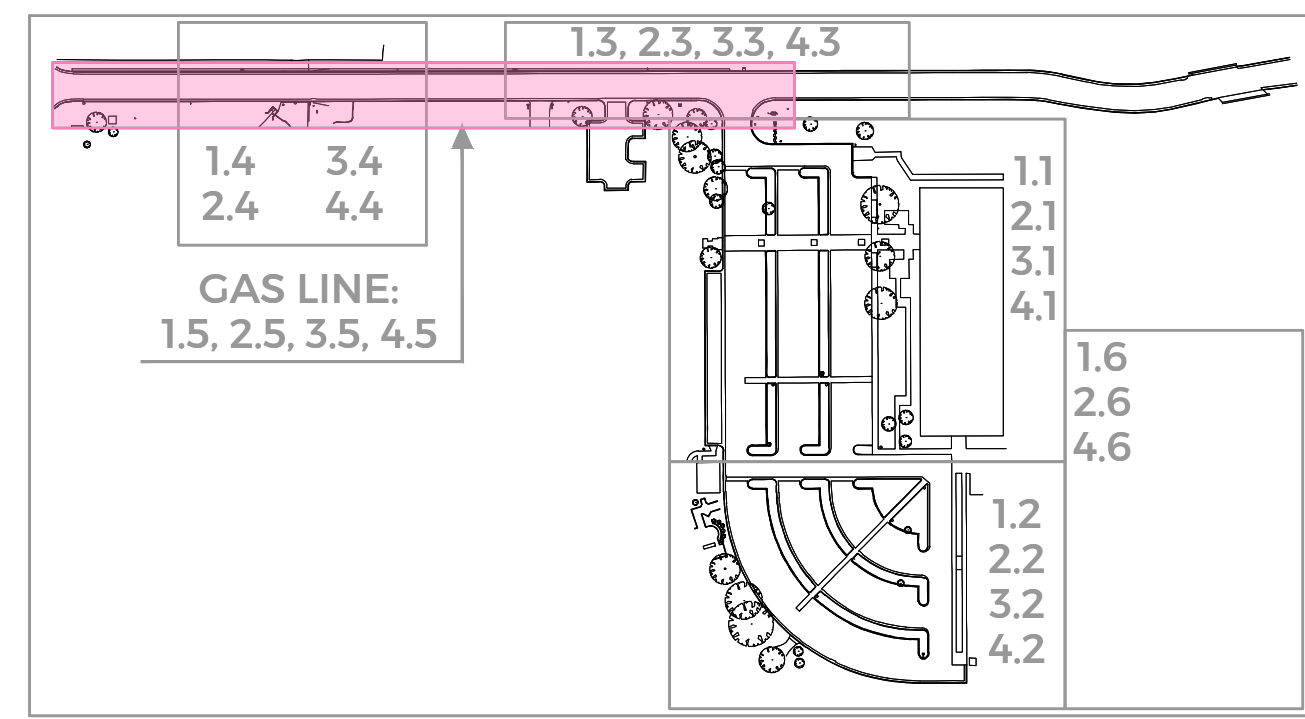
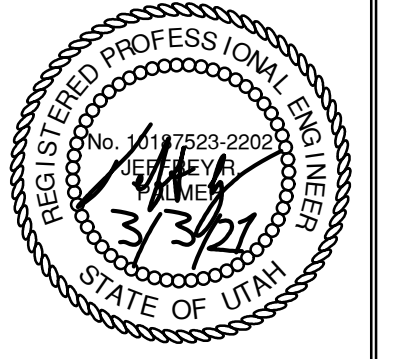


**TALISMAN**  
CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

REVISIONS:	ADDENDUM 3
DATE:	4.8.2021
BY:	DK
NO.:	1

**JWVCD HEADQUARTERS**  
UPPER CAMPUS SITE REPAIRS & IMPROVEMENTS  
UTILITY PLAN GAS LINE

TCC JOB NUMBER: 18-024 DATE SUBMITTED: 03.05.2021



22X34 FULL SCALE: 1"=20'

11X17 HALF SCALE: 1"=40'



SHEET NUMBER  
**4.5**

27 OF 38

***TCC Response to Comments  
Jordan Valley Water Conservation District Headquarters  
Upper Campus Improvements Project***

Date	<u>4-7-2021</u>
TCC Job No.	<u>18-024</u>
JVWCD Job No.	<u>3910</u>

**UPDATES TO RESPONSES TO COMMENTS SUBMITTED WITH ADDENDUM #1**

Question: The gas line work, items #7 and #51 we don't do this work without Dominion being involved. Were those supposed to be on the bid schedule?

*Talisman Response: The gas line work has been updated in the bid schedule per coordination with Dominion Energy.*

Updated Answer to Question: Is there a contact name and phone number for Dominion for Bid Item #7 and #51?

*Talisman Response: Dominion Energy contact Valerie Sneed – [Valerie.Sneed@DominionEnergy.com](mailto:Valerie.Sneed@DominionEnergy.com) – (801)448-1116.*

**UNIT PRICE - MEASUREMENT AND PAYMENT**

1. **Base Bid:** Measurement and payment shall be in accordance with APWA 01 29 00 except as follows:

**A. Bid Item – Mobilization**

- a. APWA Standard Specification Reference: APWA 01 71 13.
- b. Measurement: Lump Sum.
- c. Payment Covers: Cost of mobilization, temporary facilities, modifying and maintaining project sponsorship signs, pothole existing utilities, project site pre-construction video tape, and all necessary permits.
- d. The lump sum cost of Mobilization and Demobilization shall not exceed 10% of the total base bid. Any bid proposal that contains a bid for mobilization and demobilization greater than 10% of the total bid may be deemed unresponsive.
- e. Partial payments will be as follows:

Partial Payment	Amount	When Paid
1 <sup>st</sup>	25 percent of mobilization or 2.5 percent of original contract amount, whichever is less.	With 1 <sup>st</sup> estimate
2 <sup>nd</sup>	25 percent of mobilization or 2.5 percent of original contract amount, whichever is less.	With 1 <sup>st</sup> estimate following completion of 5 percent of contract.
3 <sup>rd</sup>	25 percent of mobilization or 2.5 percent of original contract amount, whichever is less.	With 1 <sup>st</sup> estimate following completion of 10 percent of contract
4 <sup>th</sup>	25 percent of mobilization or 2.5 percent of original contract amount, whichever is less.	With 1 <sup>st</sup> estimate following completion of 20 percent of contract

**B. Bid Item – Asphalt to be Removed and Disposed**

- a. APWA Standard Specification Reference: APWA 02 41 14.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs of labor, materials, equipment and appurtenances required to remove and dispose of all asphalt pavement as shown on the project plans.

**C. Bid Item – Concrete to be Removed and Disposed**

- a. APWA Standard Specification Reference: APWA 02 41 14.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs of labor, materials, equipment and appurtenances required to remove and dispose of concrete as shown on the project plans.

**D. Bid Item – Excavation**

- a. APWA Standard Specification Reference: APWA 31 23 16.
- b. Measurement: Cubic Yard.
- c. Payment Covers: All costs for labor, materials, equipment coordination and appurtenances required for excavation and removal of material as required within the limit of construction as shown on the project plans. Dispose of all excavated material removed from the site in an approved location. No payment will be made under any item for unauthorized excavation outside of the lines and grades shown on the plans. Excavation for all piping will be considered incidental to those items.

**E. Bid Item – Remove Concrete Waterway**

- a. APWA Standard Specification Reference: APWA 02 41 14.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs of labor, materials, equipment and appurtenances required to remove and dispose of concrete as shown on the project plans.

**F. Bid Item – Curb and Gutter to be Removed and Disposed**

- a. APWA Standard Specification Reference: APWA 02 41 15.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to demolish, remove and dispose of all curb and gutter as required within the limits of construction as shown on the project plans. Saw cutting shall be considered incidental to removal of curb and gutter.

**G. Bid Item – Gas Line to be Cut, Capped and Abandoned in Place**

- a. APWA Standard Specification Reference: APWA 31 23 16, 02 41 13
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to cut and cap existing gas line, including excavation and backfill of void.

**H. Bid Item – Storm Drain Pipe to be Removed and Disposed**

- a. APWA Standard Specification Reference: APWA 31 23 16, 02 41 13
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to remove and dispose of existing reinforced concrete pipe, including excavation and backfill of void.

**I. Bid Item – Existing Storm Drain Headwall and Valve to be Removed and Disposed**

- a. APWA Standard Specification Reference: APWA 31 23 16, 02 41 13
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to remove and dispose of existing storm drain headwall and valve, including excavation and backfill of void.

**J. Bid Item – Existing Gate to be Removed, Stored, and Replaced**

- a. APWA Standard Specification Reference: APWA 31 23 16, 02 41 13
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to remove, store, and replace existing gate, including excavation and backfill of void.

**K. Bid Item – Sawcut – Tie In to Existing Asphalt/Concrete**

- a. APWA Standard Specification Reference: APWA 02 41 14
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to sawcut where called out on plans.

**L. Bid Item – Construction Silt Fencing**

- a. APWA Standard Specification Reference: APWA 31 25 00
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to install and remove construction silt fencing as called out on plans.

**M. Bid Item – Filter Sock Inlet Protection**

- a. APWA Standard Specification Reference: APWA 31 25 00
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to install and remove Filter Sock Inlet Protection as called out on plans.

**N. Bid Item – Storm Drain Catch Basin to be Removed and Disposed**

- a. APWA Standard Specification Reference: APWA 02 41 13.
- b. Measurement: Each.
- c. Payment Covers: All cost of labor, materials, equipment and appurtenances required to demolish, remove and dispose of existing inlet box as shown on the project plans. Excavation, saw cutting and backfill shall be considered incidental to removal of inlet box.

**O. Bid Item – Remove and Properly Dispose of Existing ADA Parking Sign**

- a. APWA Standard Specification Reference: APWA 32 01 05.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to relocate/remove signs as shown on the project plans, complete and in place.

**P. Bid Item – Remove and Properly Dispose of Existing Tree**

- a. APWA Standard Specification Reference: APWA 31 11 00.
- b. Measurement: Each.
- c. Payment Covers: All costs of labor, materials, equipment and appurtenances required to remove and dispose of all trees and roots as shown on the project plans.

**Q. Bid Item – Remove and Properly Dispose of Existing Fence**

- a. APWA Standard Specification Reference: APWA 32 01 10.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to remove and properly dispose of existing fence, as shown on the project plans, complete and in place.

**R. Bid Item – Remove and Relocate Existing Monument and Lighting**

- a. APWA Standard Specification Reference: APWA 31 23 16, 02 41 13
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to remove, store, and replace existing monument and lighting, including excavation and backfill of void.

**S. Bid Item – Remove and Properly Dispose of Existing Water Line**

- a. APWA Standard Specification Reference: APWA 31 23 16, 02 41 13
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to remove and dispose of existing water line, including excavation and backfill of void.

**T. Bid Item – Remove and Properly Dispose of Existing Landscaping**

- a. APWA Standard Specification Reference: APWA 31 11 00
- b. Measurement: Square Feet
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to remove and dispose of existing landscaping as per documents.

**U. Bid Item – Tree Protection**

- a. APWA Standard Specification Reference: N/A.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to install and remove Tree Protection as called out on plans.

**V. Bid Item – 4” Heavy Asphalt Pavement**

- a. APWA Standard Specification Reference: APWA 32 12 05, 32 12 03.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination, and appurtenances required to complete the placement of 4” thick (minimum) asphalt concrete surface course for roadway and trench restorations including, but not limited to bituminous material, aggregates, additive, tack coat, placing, compacting compaction testing, and all incidentals necessary to complete this item. The contractor shall be required to provide independent laboratory testing to determine density and thickness.

**W. Bid Item – 3.5” Asphalt Pavement**

- a. APWA Standard Specification Reference: APWA 32 12 05, 32 12 03.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination, and appurtenances required to complete the placement of 3.5” thick (minimum) asphalt concrete surface course for roadway and trench restorations including, but not limited to bituminous material, aggregates, additive, tack coat, placing, compacting compaction testing, and all incidentals necessary to complete this item. The contractor shall be required to provide independent laboratory testing to determine density and thickness.

**X. Bid Item – 5” Concrete Sidewalk**

- a. APWA Standard Specification Reference: APWA 32 16 13, 32 13 13.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination, and appurtenances required to install 5 inch thick concrete flatwork as shown on the project plans, complete and in place. Payment does not include untreated base course.

**Y. Bid Item – 6.5” Vehicular Concrete Section**

- a. APWA Standard Specification Reference: APWA 32 16 13, 32 13 13.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination, and appurtenances required to install 6.5 inch thick concrete flatwork as shown on the project plans, complete and in place. Payment does not include untreated base course.

**Z. Bid Item – 30” Curb and Gutter with Base Course**

- a. APWA Standard Specification Reference: APWA 32 16 13.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination, and appurtenances required to install curb and gutter as per project plans, complete and in place. Payment includes 4 inches of untreated base course.



**AA. Bid Item – Type ‘P’ Curb with Base Course**

- a. APWA Standard Specification Reference: APWA 32 16 13.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination, and appurtenances required to install curb as per project plans, complete and in place. Payment includes 4 inches of untreated base course.

**BB. Bid Item – Aggregate Base Course**

- a. APWA Standard Specification Reference: APWA 32 11 23.
- b. Measurement: Cubic Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to complete the following including but not limited to: hauling, placing, compaction, compaction testing, final grading, and any other work required to place untreated base course.
- d. Base course for storm drain boxes and concrete structures will be considered incidental to those bid items.

**CC. Bid Item – Granular Subbase**

- a. APWA Standard Specification Reference: APWA 31 05 13.
- b. Measurement: Cubic Feet.
- c. Payment Covers: All cost for labor, materials, equipment and appurtenances required to complete the following: supplying, hauling, placing, compacting, compaction testing, final grading and any other work required to place borrow as shown on the project plans.

**DD. Bid Item – Concrete Waterway**

- a. APWA Standard Specification Reference: APWA 32 16 13.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct concrete waterway as shown on the project plans, complete and in place. Payment does not include untreated base course.

**EE. Bid Item – Utility Structure Adjust to Grade**

- a. APWA Standard Specification Reference: APWA 33 05 14.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to adjust a utility structure lid to grade

including installing concrete grade collar, as shown on the project plans, complete and in place.

**FF. Bid Item – Detectable Warning Surface (3' Section)**

- a. APWA Standard Specification Reference: APWA 32 16 14.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct Detectable Warning Surface as per as shown on the project plans, complete and in place. Payment does not include untreated base course.

**GG. Bid Item – Wheel Stops**

- a. APWA Standard Specification Reference: N/A
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct wheel stops as shown on the project plans, complete and in place.

**HH. Bid Item – Precast Concrete Wing Wall for Box Culvert**

- a. APWA Standard Specification Reference: APWA 31 23 23, 31 23 16, 03 40 00, 33 05 02.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct precast concrete wing wall for the box culvert. Payment does not include untreated base course.

**II. Bid Item – Guardrail along Wing Wall**

- a. APWA Standard Specification Reference: N/A.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct the guardrail along wing wall, as per project plans, complete and in place.

**JJ. Bid Item – Fence Replacement**

- a. APWA Standard Specification Reference: APWA 32 01 10.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct fence replacement as shown on

the project plans, complete and in place, and in coordination with property owner.

**KK. Bid Item – Rip-Rap with Fabric**

- a. APWA Standard Specification Reference: APWA 31 37 00.
- b. Measurement: Cubic Yards.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to complete the following including but not limited to: hauling, placing, compaction, compaction testing, final grading, and any other work required to place Rip-Rap with fabric.

**LL. Bid Item – Structural Fill Box Culvert**

- a. APWA Standard Specification Reference: APWA 31 23 23.
- b. Measurement: Cubic Feet.
- c. Payment Covers: All costs for labor, materials, equipment and appurtenances required to complete the following including but not limited to: hauling, placing, compaction, compaction testing, final grading, and any other work required to place structural fill.

**MM. Bid Item – 5’ Diameter Storm Drain Manhole**

- a. APWA Standard Specification Reference: APWA 33 41 00.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct a single 5’ Diameter Manhole as shown on the project plans, complete and in place. Excavation, untreated base course, backfill material, and compaction shall be considered incidental to the installation of the manhole.

**NN. Bid Item – 2’x4’ Storm Drain Catch Basin**

- a. APWA Standard Specification Reference: APWA 33 41 00.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct a 2’x4’ catch basin as shown on the project plans, complete and in place. Excavation, untreated base course, backfill material, and compaction shall be considered incidental to the installation of the catch basin.

**OO. Bid Item – 24” Pipe Outfall**

- a. APWA Standard Specification Reference: APWA 33 41 00, 33 05 02.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to construct a 24” pipe outfall as shown on the project plans, complete and in place. Excavation, untreated base course, backfill material, and compaction shall be considered incidental to the installation of the pipe outfall.

**PP. Bid Item – 8” CAV**

- a. APWA Standard Specification Reference: APWA 33 12 16.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to install an 8” CAV as required for the installation of the water system including, but not limited to excavation, pipe cutting, relocating valves and fittings, providing and installing temporary valves, installing thrust blocks, dewatering, backfill and testing.

**QQ. Bid Item – 8” C900 Water Line**

- a. APWA Standard Specification Reference: APWA 33 05 07.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to install 8” waterline as required for the installation of the water system including, but not limited to excavation, pipe cutting, relocating valves and fittings, providing and installing temporary valves, installing thrust blocks, dewatering, backfill and testing to meet Jordan Valley requirements.

**RR. Bid Item – 8” Water Line 45 Degree Bend**

- a. APWA Standard Specification Reference: APWA 33 05 17.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to loop 8” waterline as required for the installation of the water system including, but not limited to excavation, pipe cutting, relocating valves and fittings, providing and installing temporary valves, installing thrust blocks, dewatering, backfill and testing to meet Jordan Valley requirements.

**SS. Bid Item – 12” RCP Storm Drain**

- a. APWA Standard Specification Reference: APWA 33 05 02.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to furnish and install 12 inch diameter class III reinforced concrete pipe as shown on the project plans, complete and in place. Excavation, imported backfill and compaction (up to pavement section) shall be considered incidental to pipe installation.

**TT. Bid Item – 15” RCP Storm Drain**

- a. APWA Standard Specification Reference: APWA 33 05 02.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to furnish and install 15 inch diameter class III reinforced concrete pipe as shown on the project plans, complete and in place. Excavation, imported backfill and compaction (up to pavement section) shall be considered incidental to pipe installation.

**UU. Bid Item – 18” RCP Storm Drain**

- a. APWA Standard Specification Reference: APWA 33 05 02.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to furnish and install 18 inch diameter class III reinforced concrete pipe as shown on the project plans, complete and in place. Excavation, imported backfill and compaction (up to pavement section) shall be considered incidental to pipe installation.

**VV. Bid Item – 24” RCP Storm Drain**

- a. APWA Standard Specification Reference: APWA 33 05 02.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to furnish and install 24 inch diameter class III reinforced concrete pipe as shown on the project plans, complete and in place, as well as concrete anchors per plan. Excavation, imported backfill and compaction (up to pavement section) shall be considered incidental to pipe installation.

**WW. Bid Item – Tie-ins to Existing Storm Drain System**

- a. APWA Standard Specification Reference: APWA 33 41 00.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to tie in to existing storm drain system including, but not limited to excavation, pipe cutting, relocating fittings, providing and installing temporary valves, installing thrust blocks, dewatering, backfill and testing to meet Jordan Valley requirements.
- d. Pavement restoration beyond the standard trench width for 15" storm drain installation including, but not limited to saw-cutting, untreated base course, compaction and asphalt pavement is also covered under this item.

**XX. Bid Item – 5'x3' Concrete Box Culvert**

- a. APWA Standard Specification Reference: APWA 33 05 02, 33 41 00, 03 40 00.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to furnish and install 5'x3' Box Culvert as shown on the project plans, complete and in place. Existing water flow must be maintained as part of this Bid Items construction. Structural fill and aggregate base course are not included in this payment.

**YY. Bid Item – Underground Electrical Conduit Loop**

- a. APWA Standard Specification Reference: N/A.
- b. Measurement: Lump Sum.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to loop underground electrical conduit as required for the installation of the storm drain system including, but not limited to excavation, pipe cutting, relocating valves and fittings, providing and installing temporary valves, dewatering, backfill and testing to meet Jordan Valley requirements.
- d. Contractor to coordinate with JVVCD.

**ZZ. Bid Item – Telecommunication Conduit Loop**

- a. APWA Standard Specification Reference: N/A.
- b. Measurement: Lump Sum.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to loop telecommunications conduit as required for the installation of the storm drain system including, but not limited to excavation, pipe cutting, relocating valves and fittings,

providing and installing temporary valves, dewatering, backfill and testing to meet Jordan Valley requirements.

- d. Contractor to coordinate with JWCD.

**AAA. Bid Item – Gas Line Relocation**

- a. APWA Standard Specification Reference: N/A.
- b. Measurement: Lump Sum.
- c. Payment Covers: Contractor to coordinate with Rocky Mountain Power and JWCD for gas line relocation portion of project. No Bid required for this line item.

**BBB. Bid Item – Restore Landscape to Match Existing**

- a. APWA Standard Specification Reference: APWA 32 01 90.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs for labor, materials, equipment coordination and appurtenances required to maintain, relocate, repair or replace vegetation, landscaping, and disturbed irrigation systems as shown on the project plans, complete and in place, including but not limited to placing 4 inches of topsoil, sod, seed or other plants, complete and in place.

**CCC. Bid Item – Landscape Installation**

Contractor not bidding on this item

**DDD. Bid Item – 4” Solid Striping**

- a. APWA Standard Specification Reference: APWA 32 17 23.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to prepare and paint one 4” solid stripe as shown on the project plans.

**EEE. Bid Item – Cross Walk-Paint**

- a. APWA Standard Specification Reference: APWA 32 17 23.
- b. Measurement: Square Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to prepare and paint cross walk paintas shown on the project plans.

**FFF. Bid Item – ADA Markings and Loading Zones**

- a. APWA Standard Specification Reference: APWA 32 17 23.
- b. Measurement: Each Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to prepare and paint ADA Markings for Loading Zone as shown on the project plans.

**GGG. Bid Item – 4” Tap into 8” C900 Water Line**

- a. APWA Standard Specification Reference: APWA 33 05 07.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to tie in to existing water system with a 4” tap, including, but not limited to excavation, pipe cutting, relocating fittings, providing and installing temporary valves, installing thrust blocks, dewatering, backfill and testing to meet Jordan Valley requirements.

**HHH. Bid Item – 8x6x8” Tee into 8” C900 Water Line**

- a. APWA Standard Specification Reference: APWA 33 05 07.
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to tie in to existing water system with a 8”x6”x8” tee, including, but not limited to excavation, pipe cutting, relocating fittings, providing and installing temporary valves, installing thrust blocks, dewatering, backfill and testing to meet Jordan Valley requirements.

**III. Bid Item – Remove Existing Maxicom Valve**

- a. APWA Standard Specification Reference: APWA 32 84 23
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination, and appurtenances required to remove existing Maxicom valve, and replace with appropriate fittings for mainline connection.

**JJJ. Bid Item – Rain Bird Drip Control Valve**

- a. APWA Standard Specification Reference: APWA 32 84 23
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to install a Rain Bird Drip Control Valve as required for the installation of the irrigation system including, but not limited to excavation, pipe cutting, relocating valves and fittings, providing and installing temporary valves, dewatering, backfill and testing.



**KKK. Bid Item – Flush Valve**

- a. APWA Standard Specification Reference: APWA 32 84 23
- b. Measurement: Each.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to install a Flush Valve as required for the installation of the irrigation system including, but not limited to excavation, pipe cutting, relocating valves and fittings, providing and installing temporary valves, dewatering, backfill and testing.

**LLL. Bid Item – 2” PVC Class 200 Irrigation Sleeve**

- a. APWA Standard Specification Reference: APWA 33 05 07.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to install 2” PVC Class 200 Irrigation Sleeve as required for the installation of the irrigation line including, but not limited to excavation, pipe cutting, relocating valves and fittings, providing and installing temporary valves, dewatering, backfill and testing to meet Jordan Valley requirements.

**MMM. Bid Item – 8” PVC Sleeve for Gas Line**

- a. APWA Standard Specification Reference: APWA 33 05 07.
- b. Measurement: Linear Feet.
- c. Payment Covers: All costs for labor, materials, equipment, coordination and appurtenances required to install 8” PVC Sleeve as required for the installation of the gas line including, but not limited to excavation, pipe cutting, dewatering, backfill and testing to meet Jordan Valley requirements.

END OF DOCUMENT