

ADDENDUM NO. 2
June 24, 2020

TO THE CONTRACT DOCUMENTS:

City of Wray, CO
Main Street Water Line Project

BIDS OPENED: Wednesday, July 1, 2020
 11:00 AM – Local Time

This is to authorize the use of the following information to prepare proposals for the above-named work, which will be equally binding upon all parties as if included in the original set of contract documents.

ADDENDUM NO. 2, ITEM NO. 1

Specification Section 00300: Bid Form – Replace Section 00300 with the revised Section 00300 – attached to this addendum.

ADDENDUM NO. 2, ITEM NO. 2

Specification Section 01150: Measurement and Payment – Replace Section 01150 with the revised Section 01150 – attached to this addendum.

ADDENDUM NO. 2, ITEM NO. 3

Specification Section 03300-3: 3.08 Concrete Tests - Remove paragraphs A1 and A2 – Replace with the following:

Page 03300-10: A. Testing Agency: Owner will engage a qualified testing and inspection agency to sample materials, perform tests, and submit test reports during concrete placement. Sampling and testing for quality control may include the following:

1. Sampling Fresh Concrete: Representative samples of fresh concrete shall be obtained according to ASTM C 172, except modified for slump to comply with ASTM C 94.
2. Slump: ASTM C 143; one test at point of placement for each compressive-strength test, but not less than one test for each day's pour of each type of concrete. Additional tests will be required when concrete consistency changes.
3. Air Content: ASTM C 231, pressure method; one test for each compressive-strength test, but not less than one test for each day's pour of each type of air-entrained concrete.

4. Concrete Temperature: ASTM C 1064; one test hourly when air temperature is 40 deg F and below and when 80 deg F and above, and one test for each set of compressive-strength specimens.
 5. Compression Test Specimens: ASTM C 31/C 31M; one set of four standard cylinders for each compressive-strength test, unless otherwise indicated.
 6. Cylinders shall be molded and stored for laboratory-cured test specimens unless field-cured test specimens are required.
 7. Compressive-Strength Tests: ASTM C 39; one set for each day's pour of each concrete class exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. One specimen shall be tested at 3 days, one at 7 days and two specimens at 28 days; one specimen shall be retained in reserve for later testing if required.
 8. When frequency of testing will provide fewer than five compressive-strength tests for a given class of concrete, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
 9. When total quantity of a given class of concrete is less than 50 cu. yd., Engineer may waive compressive-strength testing if adequate evidence of satisfactory strength is provided.
 10. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, current operations shall be evaluated, and corrective procedures shall be provided for protecting and curing in-place concrete.
 11. Strength level of concrete will be considered satisfactory if averages of sets of three consecutive compressive-strength test results equal or exceed specified compressive strength and no individual compressive-strength test result falls below specified compressive strength by more than 500 psi.
- B. Test results shall be reported in writing to Engineer, concrete manufacturer, and Contractor within 24 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing agency, concrete type and class, location of concrete batch in pavement, design compressive strength at 28 days, concrete mix proportions and materials, compressive breaking strength, and type of break for 3, 7 and 28-day tests. A cylinder shall also be taken for 56-day break if deemed necessary.
- C. Additional Tests: Testing agency shall make additional tests of the concrete when test results indicate slump, air entrainment, concrete strengths, or other requirements have not been met, as directed by Engineer. Testing agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed.

POINTS OF CLARIFICATION

1. Backfill and Compaction: Per page 8 of the Geotech report, native material is acceptable for backfill. It shall be compacted to 95% of the material's modified Proctor maximum dry density (AASHTO T-180) for AASHTO A-1, A-2-4, and A-3 soils; and Minimum of 95% of the material's standard Proctor maximum dry density (AASHTO T 99) for AASHTO A-4, A-6 and A-7 soils.
2. Flow fill shall be required as backfill in areas where contractor is unable to obtain proper compaction due to proximity of utilities or other features. If properly compacted, inlets do not need to be flow filled.
3. This project is tax exempt.
4. Construction surveying is to be provided by the OWNER. Surveying will be coordinated by the contractor.
5. Highway 34 is to be open cut. Temporary and permanent patches shall be required during construction. The cost of these patches shall be included with the lineal foot price of the 8" water line. See attached section 01150 for details.
6. Concrete mixes: CDOT P Mix will be utilized in all paved streets. CDOT D Mix shall be utilized in all curb and gutters and sidewalks.
7. The box culverts are 7' wide by 5' high.
8. The current list of potential bidders is attached.
9. Contractors are required to crush concrete materials removed from the project area. This material is going to be used by the City for road base. The materials shall be crushed to ¾" gradation.

END OF ADDENDUM NO. 2

Project Name: Main Street Water Line Project
Owner: City of Wray, Colorado
Engineer: Diamondback Engineering and Surveying, Inc.

Bid Date: Wednesday, July 1, 2020
Bid Time: 11:00 AM
Bid Location: City of Wray, CO
 245 West 4th Street
 Wray, CO 80758
Mandatory Prebid Meeting: Wednesday, June 17, 2020 @ 11:00 AM

Company Name	Contact	Address	Contact/Email Address	Phone Number	Plans Sent	Addendum No 1 Sent
City of Wray	James Depuy	245 W 4th Street	jdepue@cityofwray.org	970-332-4431	6/11/20	6/19/2020 @ 4:23 PM
	Lindsey Fletcher	Wray, CO 80758	lfletcher@cityofwray.org	970-332-4431	6/11/20	6/19/2020 @ 4:23 PM
	Jerry Buchanan		jbuchanan@cityofwray.org	970-332-4412	6/11/20	
	Nick Newton		nnewton@cityofwray.org	970-332-4412	6/11/20	
	Lee Tufton		ltufton@cityofwray.org	970-332-4412	6/11/20	
Diamondback Engineering & Surveying, Inc	Lauren Benton	12640 W Cedar Dr	lauren@diamondbackeng.com	303-229-0741	6/11/20	6/19/2020 @ 4:23 PM
	John Enochs	Suite C	jehoe@diamonbackeng.com	303-909-6762	6/11/20	6/19/2020 @ 4:23 PM
	David Hach	Lakewood, CO 80228	dach@diamonbackeng.com	970-274-6616	6/11/20	6/19/2020 @ 4:23 PM
CDPHE - Grants and Loans Unit	Sean Oliver	4300 Cherry Creek Drive South Denver, CO 80246	sean.oliver@state.co.us	(303) 691-4018	6/11/20	6/19/2020 @ 4:23 PM
BSB Construction		209 East 2 nd Street Curtis, Nebraska 69025	Bsb@curtis-nc.com	308-367-4336	06/11/20	
Paul Reed Construction		2970 10 th Street Gering, NE 69341	Tom@paulreedconstruction.com	308-635-2213	06/11/20	6/19/2020 @ 4:23 PM
Vankirk Brothers Contracting		1200 West Ash Street PO Box 585 Sutton, Nebraska 68979	mel@vkbros.net	402-773-5250	06/11/20	
Connell	Dan Giesler	7785 Highland Meadows Parkway, Suite 100 Fort Collins, Colorado 80528	Dgiesler@connellsresources.com	970-223-3151	06/11/20	
BRB Contractors		3805 NW 25 th Street Topeka, Kansas 66618	kennjason@brbcontractors.com Greg.hoglund@brbcontractors.com	785-232-1245	06/11/20	
BT Construction	Chris Knott	9885 Emporia Street Henderson, CO 80640	Chris.knott@BTCconstruction.com Catherine.kornbas@BTCconstruction.com	303-286-0202	06/11/20	
Hydro Construction	Preston Randall	77 NW Frontage Road Fort Collins, CO 80524	prandall@hydroconstruction.com	970-225-2211	06/11/20	6/19/2020 @ 4:23 PM
Velocity Constructors	Grant Dunkle	1330 South Cherokee Street Denver, CO 80223	Gdunkle@velocityvc.com	303-984-7800	06/11/20	
Midlands Contracting		100875 1 st Avenue Kearney, NE 68847	scott@midlandscontracting.com	308-627-4389	06/11/20	
Midwest Infrastructure		5320 North 148 th Street Lincoln, NE 68527	eric.hardson@midwesti.com	402-786-7410	06/11/20	
ATH Specialties		564 County Road 6470 Grand Lake, CO 80447	athspecialties@live.com	970-778-0329	06/11/20	
Industrial Process Technologies		718 South Montana PO Box 758 Mitchell, SD 57301	darrylg@industrialprocesstechnology.com	605-297-0092	06/11/20	
Walters Morgan		2616 Tuttle Creek Blvd. Manhattan, KS 66502	ngalle@waltersmorgan.com	785-539-7513	06/11/20	
Eriksen Construction		2546 South Hwy 30 Blair, Nebraska 68008	tims@eriksenconst.com	402-426-3119	06/11/20	
Aslan Construction, Inc		120 Bunyan Avenue, Suite 200 Berthoud, CO 80513	jen@aslanconstruction.com	970-344-1040	06/11/20	6/19/2020 @ 4:23 PM
Wagner Construction		757 Mallett Lane, Unit 201 Castle Rock, Co 80108	labbott@wagnerconstructioninc.com	720-486-6444	06/11/20	6/19/2020 @ 4:23 PM
KR Swardfeger Construction		421 E Industrial Rd Pueblo West, CO 81007	RANDY@kswardf.com		06/11/20	
HEI Civil		5460 Montana Vista Way Castle Rock, CO 80108	frontdesk@heicivil.com	303-688-9500	06/11/20	
Belair Construction		7630 Dahlia Street Commerce City, CO 80022	Kai.Josephson@belair-ca.com	303-394-1300	06/11/20	
Concrete Specialties & Utilities Construction	Alan Krier	19549 Chambers Dr. Sterling, CO 80751	Akrier57@gmail.com	970-526-2777	06/11/20	6/19/2020 @ 4:23 PM
Construction Reporter, LLC	Joshua Cutler		cutler@constructionreporter.com	(505) 343-9793	06/11/20	6/19/2020 @ 4:23 PM
Global Underground Corp.	Casey Spinner	641 Winters Drive Colorado Springs, CO 80907	espinner@globalug.com	(719) 471-7414 Office Ext. 116 (719) 471-7494 Fax	06/11/20	
Zak Dirt			znews@zakdirt.com		06/11/20	6/19/2020 @ 4:23 PM
Ritchey's Redi Mix			concrete7005@alamtel.com		06/11/20	6/19/2020 @ 4:23 PM
McCarty Excavation & Construction, Inc.	Michal Valencia		also@durango.net	970-749-6767	06/11/20	6/19/2020 @ 4:23 PM
Fransen Pittman General Contractors	Trevor Khoury	9563 S. Kingston Court, Suite 200 Englewood, CO 80112	Trevor.Khoury@franspittman.com	303 (303) 783-3900 F (303) 783-3939 C (720) 998-4638	06/11/20	NOT BIDDING PER EMAIL TO JAMES ON 6/19/2020
Deltek	Jacqueline Sessa	Seattle	jacqueline.sessa@deltek.com		06/15/20	
Noraa Concrete Construction Corporation	Zoe		Zoe.Sallas@noraaconcrete.com	(303) 637-9233	06/16/20	6/19/2020 @ 4:23 PM
4-D Electric	Chad Deyle		Chad@4DElectric.net	970-630-4880		6/19/2020 @ 4:23 PM

SECTION 00300

BID FORM

00300 Bid Form

1.01 BID FORM

The bid form bound with this Project Manual must be used in submitting a bid. Substitute forms are not acceptable. (See Instructions to Bidders for requirements concerning proper completion and submittal of the Bid Form.)

SECTION 00300

BID FORM

City of Wray

June 2020

245 W 4th Street
P.O. Box 35
Wray, CO 80758

Re: Main Street Water Line Project

All Bidders:

The undersigned hereby states he has carefully examined the project manual, drawings, and other contract documents; has fully investigated the location, character, and extent of the work to be done as described under the Invitation to Bid for the referenced project. The undersigned hereby further states he is familiar with the type of work involved.

The bidder agrees to hold this bid open for ninety days from the bid opening date and to accept the provisions of the Instructions to Bidders regarding disposition of bid security. The bidder will enter into and execute a contract within 10 working days from the date of Notice of Award, if awarded on the basis of this bid and will furnish acceptable performance and payment bonds, certificates of insurance, construction schedules, and other necessary contract documents.

The undersigned declares that he has exercised his own judgment regarding the interpretation has, in arriving at his conclusions, utilized data from the Engineer, Owner, and his own sources, which he believes pertinent to arriving at the amounts for the work to be completed under these contract documents.

The undersigned is aware that the contract completion time is of the essence to the Owner and that the Owner demands the work be substantially completed within 60 calendar days after the Notice to Proceed is issued as set forth in the agreement and that liquidated damages shall be paid to the Owner at the rate of **\$1,000.00 per day** for each calendar day of delay thereafter that the work remains substantially uncompleted.

BID SCHEDULE

The undersigned (in compliance with the Invitation to Bid) hereby proposes to do all work called for in said Project Manual and as shown on said drawings and detail drawings, and to furnish all labor, materials, tools, construction equipment, operation equipment, and all appurtenances necessary for completion of said work at the unit prices shown on the following Bid Schedule. It is understood the description of work and the quantities of work and materials, as included herein, is brief and is intended only to indicate the general nature of the work which is more particularly described in Section 001150, Measurement and Payment. The actual final quantities will be field measured and agreed to for final payment.

Main Street Water Line Project
Bid Form #1 – Main St from Highway 34 to 7th Street

Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Total Price
Part A: Miscellaneous					
1	Mobilization	LS	1		
2	Dust Control	LS	1		
3	Traffic Control	LS	1		
4	Signage – R&R Posts and Signs Supplied by City	EA	15		
5	Striping	LS	1		
6	Cast-in-Place Structural Concrete	CY	22		
Part B: Water Line and Appurtenances					
7	6" Water Line	LF	0		
8	6" Gate Valves	EA	0		
9	8" Water Line	LF	1624		
10	8" Gate Valves	EA	9		
11	Fire Hydrant	EA	4		
12	Water Services	LF	1280		
13	Curb/corp Stop	EA	25		
14	Rock Excavation	CY	271		
Part C: Sidewalks					
15	Concrete Sidewalk	SY	2165		
16	Curb Ramp	EA	26		
Part D: Roadway					
17	Asphalt Removal	SY	2669		
18	Concrete Removal	SY	5862		
19	Sidewalk Removal	SY	2165		
20	Curb and Gutter Removal	LF	2054		

21	Concrete Paving	SY	8531		
22	Road Base (2")	TON	665		
23	Concrete Curb & Gutter	LF	2473		
24	4' Concrete Pan	LF	340		
Part E: Storm Sewer					
25	Mill Race Bridge Removal	LS	0		
26	Republican River Bridge Removal	LS	0		
27	7'X5' Box Culvert (2@150LF Each)	LF	0		
28	Storm Sewer - Inlet, Type R	EA	8		
29	18" Corrugated PE	LF	2171		
30	36" Reinforced Concrete Pipe	LF	0		
31	18" Tie Into Existing MH	EA	2		
32	Gas Relocation	EA	4		
33	Water Relocation	EA	4		
Part F: Earthwork					
34	Earthwork – Cut (10% Swell)	CY	200		
35	Earthwork – Fill (10% Swell)	CY	1000		
Part G: Electrical					
36	Install 150 kVA Sign Phase Transformer (provided by City)	EA	1		
37	Master Control Panel (MCP-1)	EA	1		
38	Concrete Light Bases and Junction Boxes	EA	17		
39	Streetlights (poles with outlets, light installation)	EA	17		
40	Pull Box HB1/HB4	EA	2		
41	Electrical Conduit (2.5")	LF	200		

42	Electrical Conduit (2.0")	LF	300		
43	Electrical Conduit (1.5")	LF	550		
44	Electrical Conduit (1.25")	LF	1520		
45	Electrical Conduit (1")	LF	95		
46	Electrical Conduit (0.75")	LF	820		
47	Wire & Misc	LS	1		
TOTAL:					

Main Street Water Line Project
Bid Form #2 – Main St from 3rd St (Highway 34) to Railway St

Item No.	Description	Unit	Estimated Quantity	Unit Price	Extended Total Price
Part A: Miscellaneous (
1	Mobilization	LS	NA	ADDRESSED IN BID FORM 1	
2	Dust Control	LS	NA	ADDRESSED IN BID FORM 1	
3	Traffic Control	LS	NA	ADDRESSED IN BID FORM 1	
4	Signage – R&R Posts and Signs Supplied by City	EA	4		
5	Striping	LS	NA	ADDRESSED IN BID FORM 1	
6	Cast-in-Place Structural Concrete	CY	NA	ADDRESSED IN BID FORM 1	
Part A: Water Line and Appurtenances					
7	6" Water Line	LF	479		
8	6" Gate Valves	EA	4		
9	8" Water Line	LF	821		
10	8" Gate Valves	EA	6		
11	Fire Hydrant	EA	1		
12	Water Services	LF	720		
13	Curb/corp Stop	EA	12		
14	Rock Excavation	CY	137		
Part B: Sidewalks					
15	Concrete Sidewalk	SY	1433		
16	Curb Ramp	EA	10		
Part C: Roadway					
17	Asphalt Removal	SY	4109		
18	Concrete Removal	SY	0		
19	Sidewalk Removal	SY	1433		
20	Curb and Gutter Removal	LF	1293		

21	Concrete Paving	SY	4109		
22	Road Base (6")	TON	960		
23	Concrete Curb & Gutter	LF	1310		
24	4' Concrete Pan	LF	0		
Part D: Storm Sewer					
25	Mill Race Bridge Removal	LS	1		
26	Republican River Bridge Removal	LS	1		
27	7'X5' Box Culvert (2@150LF Each)	LF	300		
28	Storm Sewer - Inlet, Type R	EA	2		
29	18" Corrugated PE	LF	0		
30	36" Reinforced Concrete Pipe	LF	80		
31	18" Tie Into Existing MH	EA	0		
32	Gas Relocation	EA	0		
33	Water Relocation	EA	0		
Part E: Earthwork					
34	Earthwork – Cut (10% Swell)	CY	0		
35	Earthwork – Fill (10% Swell)	CY	0		
Part F: Electrical					
36	Install 150 kVA Single Phase Transformer (provided by City)	EA	0		
37	Master Control Panel (MCP-1)	EA	0		
38	Concrete Light Bases and Junction Boxes	EA	14		
39	Streetlights (poles with outlets, light installation)	EA	14		
40	Pull Box HB2 & HB3	EA	1		
41	Electrical Conduit (2.5")	LF	450		
42	Electrical Conduit (2.0")	LF	250		

43	Electrical Conduit (1.5")	LF	400		
44	Electrical Conduit (1.25")	LF	1100		
45	Electrical Conduit (1")	LF	400		
46	Electrical Conduit (0.75")	LF	450		
47	Wire & Misc	LS	1		
TOTAL:					

SUBCONTRACTORS

The owner strongly encourages the use of local subcontractors and labor where possible. If subcontractors are to be used, bidder identifies the following subcontractors that will be utilized on this project:

Concrete/Formwork _____

Electrical/Conduit _____

Storm Sewer _____

Earthwork _____

Water Main _____

Plumbing _____

Others over \$50,000 _____

Total Price Written: _____ Dollars

In submitting this bid, it is understood that the right to reject any and all bids has been reserved by the Owner.

Dated this _____ Day of _____, 2020

Name of Bidder: _____

Address:

Telephone:

Authorized Agent: _____

Title: _____

END OF SECTION

SECTION 01150
MEASUREMENT AND PAYMENT

1.1 GENERAL

The method of measurement and basis of payment described are for work itemized in the Bid Form and in the sections of the specifications. Items may include work within a single section or in more than one section.

1.2 MEASUREMENT

- A. Unless otherwise specified, all longitudinal measurements will be made horizontally, and computations will be neat dimensions as shown on drawings and details.
- B. Quantities will be rounded off to the nearest whole number.

1.3 PAYMENT

- A. Lump sum prices, as quoted in the Bid Form, shall be full compensation for labor, materials, equipment, rentals, overhead, profit, and loss, damage, or expense of whatever nature arising from the nature of the work or the prosecution thereof.
- B. Work or materials that are essential to the work, but for which there are no pay items, will not be measured and paid for separately, but shall be included in other items of work.

1.4 BID ITEMS

- 1. Mobilization – LUMP SUM. Includes moving equipment, materials and supplies onsite, cost of permits, licenses, insurance and bonding. This mobilization includes mobilization for both bid forms.
- 2. Dust Control: LUMP SUM. Includes all costs associated with purchasing, hauling, and applying water to minimize dust emissions from the site.
- 3. Traffic Control: LUMP SUM. Includes all costs associated with signage and flagging as required to provide safe and clear direction to the public in the area of construction.
- 4. Signage: PER EACH. Includes all costs associated with removing and replacing affected signs with signs provided by the City.

5. Striping: LUMP SUM. Includes surface preparation, layout, and applying striping per the plans.
6. Cast-in-Place Structural Concrete: PER CUBIC YARD. Complete in place. Includes excavation, subgrade preparation, formwork, reinforcing steel, finishing and curing to the dimensions and layout as shown on the plans.
7. 6" Water Line – PER LINEAL FOOT. Includes installation of pipe, removal of asphalt, excavation, bedding, of installation tracer wire, backfill, compaction, disinfection, pressure testing, replacement of asphalt and cleanup.
8. 6" Gate Valves - PER EACH. Includes installation of valves, excavation, bedding, installation of tracer wire, pressure testing, backfill, compaction and cleanup.
9. 8" Water Line – PER LINEAL FOOT. Includes installation of pipe, excavation, bedding, of installation tracer wire, backfill, compaction, disinfection, pressure testing, and cleanup. Also includes installation of temporary and permanent asphalt patches during and after construction.
10. 8" Gate Valves - PER EACH. Includes installation of valves, excavation, bedding, installation of tracer wire, pressure testing, backfill, compaction and cleanup.
11. Fire Hydrant - PER EACH. Includes excavation, bedding, installation, forming and placement of thrust block, backfill, compaction and cleanup. Measured complete and in-place.
12. Water Services: PER LINEAL FEET. Includes installation of corporation stop, service line piping, curb stop, bedding, backfill and compaction. Water services are to be installed from the new water main to the curb stop located in the sidewalk. Water service lines from the curb stop into the building are the responsibility of the building owners. Contractor has the option of working with the owners to replace their water services into the building.
13. Curb/Corp stop: PER EACH. Includes the number of service connections to be replaced to the curb stop.
14. Rock Excavation: PER CUBIC YARD. Includes rock that is not rip-able, or practically removeable and requiring drilling and blasting. Measured on-site by Owner's Representative. Includes the costs of drilling, blasting or splitting, hauling and disposal.

15. Concrete Sidewalk: PER LINEAL FOOT. Includes installation of 8' sidewalks complete in-place. Includes subgrade compaction, shaping and final grading, forming and placing concrete, finishing and cleanup.
16. Curb Ramp: PER EACH. Includes installation of concrete curb ramps complete in-place. Includes subgrade compaction, shaping and final grading, forming and placing concrete, installation of 2'X4' cast iron, wet set, tactile truncated dome tiles conforming to the requirements of ADA, finishing and cleanup.
17. Asphalt Removal: PER SQUARE YARD. Includes saw cutting sensitive areas along existing asphalt including side streets and Highway 34, milling or excavating, hauling and disposal and cleanup of the site.
18. Concrete Removal: PER SQUARE YARD. Includes excavating, hauling and disposal and cleanup of the site. Special care shall be utilized in sensitive areas especially along existing asphalt including side streets and Highway 34 to leave the existing asphalt with a straight edge. Removed material shall be crushed and stockpiled in the area provided by the City. Material shall be crushed to ¾" (-) for future use as road base.
19. Sidewalk Removal: PER LINEAL FOOT. Includes saw cutting along buildings, excavating, hauling and disposal and cleanup of the site. Special care shall be utilized in sensitive areas especially along buildings, existing asphalt including side streets and Highway 34 to leave the existing concrete and asphalt with a straight edge.
20. Curb and Gutter Removal: PER LINEAL FOOT. Includes excavating, hauling and disposal and cleanup of the site. Special care shall be utilized in sensitive areas especially along existing asphalt including side streets and Highway 34 to leave the existing concrete and asphalt with a straight edge.
21. Concrete Paving: PER SQUARE YARD. Includes subgrade preparation including compaction and shaping, concrete forming, placement, vibration, installation of joints and finishing.
22. Road Base: PER TON. Includes supplying, hauling, and placing road base. Compaction and shaping of road base are included in the paving unit costs.
23. Concrete Curb and Gutter: PER LINEAL FOOT. Includes subgrade preparation including compaction and shaping, concrete forming, placement, vibration, installation of joints and finishing.

24. 4' Concrete Pan: PER LINEAL FOOT. Includes subgrade preparation including compaction and shaping, concrete forming, placement, vibration, installation of joints and finishing.
25. Mill Race Bridge Removal: LUMP SUM. Includes demolishing, removing, and hauling all bridge materials to a proper disposal or recycling facility. Also includes import of native fill material to fill the void below the existing bridge around the 36" culvert.
26. Republican River Bridge Removal: LUMP SUM. Includes demolishing, removing, and hauling all bridge materials to a proper disposal or recycling facility. Also includes placement of flow fill between the box culvert and the existing retaining wall.
27. 7'X5' Box Culvert (2@150LF Each: PER LINEAL FOOT. Complete in place to line and grade as shown on plans. Includes diversion of river, dewatering, excavation, shoring, removal of existing concrete and other materials that are deemed to be in the way, preparation of subgrade, install box culverts, backfill, compaction, and reseeded. Includes the costs of all materials and shipping, delivery and handling. Also includes installing approximately 40 cubic yards of lean concrete (Flow Fill) between the box culverts and the existing retaining walls.
28. Storm Sewer Inlet, Type R: PER EACH. Includes excavation, subgrade preparation, installation to grade and location as specified on the plans.
29. 18" Corrugated PE Pipe: PER LINEAL FOOT. Includes excavation, bedding, supplying and installing pipe, backfill, compaction and cleanup.
30. 36" Reinforced Concrete Pipe: PER LINEAL FOOT. Includes excavation, bedding, supplying and installing pipe, backfill, compaction and cleanup.
31. 18 Tie Into Existing Manhole: PER EACH. Includes preparation, excavation, and installation of new 18" corrugated drainage pipe into existing manhole/inlet.
32. Gas Relocation: PER EACH. Includes coordination with utility company, safety, locating, excavation, and all costs associated with the gas line relocation.
33. Water Relocation: PER EACH. Includes coordination with City of Wray Water Department, safety, locating, excavation, and all costs associated with the water line relocation.
34. Earthwork – Cut: PER CUBIC YARD. Includes total volume of materials cut within the project site. Measured from original ground surface including topsoil to typical

- finished sub-grade cross section or contours shown on the drawings. Includes filling, shaping, haul, ditching, blending, flattening, removing overburden, scaling rippable rock, replacement of topsoil, revegetation and compacting.
35. Earthwork – Fill: PER CUBIC YARD. Total volume of materials filled in the project site. Measured from original ground surface including topsoil removal to typical finished sub-grade cross section or contours shown on the drawings. Includes clearing, disposal, haul, ditching, blending, flattening, removing overburden, proof rolling, replacement of topsoil, revegetation and compacting.
 36. Install 150 kVA Single Phase Transformer: PER EACH. Includes the wiring, installation, and any ground work/excavation for a City-provided 15kVA transformer per the electrical plans.
 37. Master Control Panel (MCP-1): PER EACH. Includes the procurement and installation of the master control panel per the electrical plans.
 38. Concrete Light Bases and Junction Boxes: PER EACH. Includes procurement, excavating, preparation of subgrade, placing light bases and junction boxes plumb and to grade.
 39. Streetlights (poles with outlets, light installation): PER EACH. Includes the procurement, mounting, wiring, and installation of the streetlights to the concrete bases.
 40. Pull Box: PER EACH. Includes the procurement and installation of pull boxes HB1-HB3 per the electrical plans.
 41. 2.5” Electrical Conduit: PER LINEAL FOOT. Includes excavation, bedding, supplying, and installing conduit, backfill, compaction and cleanup.
 42. 2.0” Electrical Conduit: PER LINEAL FOOT. Includes excavation, bedding, supplying, and installing conduit, backfill, compaction and cleanup.
 43. 1.5” Electrical Conduit: PER LINEAL FOOT. Includes excavation, bedding, supplying, and installing conduit, backfill, compaction and cleanup.
 44. 1.25” Electrical Conduit: PER LINEAL FOOT. Includes excavation, bedding, supplying, and installing conduit, backfill, compaction and cleanup.
 45. 1.0” Electrical Conduit: PER LINEAL FOOT. Includes excavation, bedding, supplying, and installing conduit, backfill, compaction and cleanup.

46. 0.75" Electrical Conduit: PER LINEAL FOOT. Includes excavation, bedding, supplying, and installing conduit, backfill, compaction and cleanup.
47. Wire & Misc.: LUMP SUM. Includes supplying wire, connectors, and fittings necessary for electrical installation per the plans.

END OF SECTION