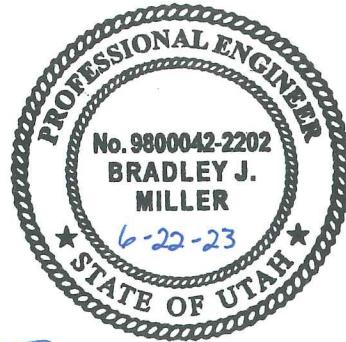


**DOCUMENT 00 90 10
ADDENDUM No. 1**



A handwritten signature in blue ink that reads "Bradley J. Miller".

PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Changes to the Plan Set.
- B. Changes to the Bid Schedule (Document 00 41 10)
- C. Clarifications

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as *WU015 – Monroe Water Line Ph 1*
- B. Date of this Addendum: June 22, 2023

PART 2 CHANGES

2.1 CHANGES TO PRIOR ADDENDA

- A. None

2.2 CHANGES TO BIDDING REQUIREMENTS

- A. Document 00 41 00 (Bid Schedule):
 - 1. Changed qty of *Remove Asphalt Pavement* to 4500 SY
 - 2. Changed the name of bid item 115 to *Manhole – Adjust to Grade* and its quantity to 7 EA.
 - 3. Added a new bid item called *Valve – Adjust to Grade* and has a quantity of 10 EA. All subsequent bid items have been renumbered.
 - 4. APWA Roadbase quantity is changed to 2400 tons.
 - 5. 3" Minus Pit Run quantity is changed to 5200 tons.
 - 6. Asphalt "T" Patch quantity is changed to 2030 tons.
 - 7. 8" Gate Valve quantity is changed to 9 EA.
 - 8. Added a new bid item in Schedule 2 *Connect to Existing Manhole*, 1 EA.

2.3 CHANGES TO AGREEMENT AND OTHER CONTRACT FORMS

- A. None

2.4 CHANGES TO CONDITIONS OF THE CONTRACT

- A. None

2.5 CHANGES TO SPECIFICATIONS

- A. None

2.6 CHANGE TO DRAWINGS

- A. Valves/Manholes that are not to be collared are now not labeled as such (RD1 – RD3)

- B. Added a key note for a Connect to Existing Manhole (Sheet W3).
- C. Added existing water services' size and material information (W1 – W3).

2.7 CLARIFICATIONS

- A. All collars will have a separate bid item and will not be part of other bid items such as new manholes, valves, or even hydrant valves.
- B. The existing manhole that we'll be tying into just South of 800 North is likely a poured in place manhole that will be very thick at the connection point.

END OF SECTION

DOCUMENT 00 41 10
BID SCHEDULE

PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Bid schedules.
- B. Measurement and payment provisions.

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as:

WU015 - Monroe Water Line Ph I

1.3 REFERENCES

- A. APWA 01 29 00: Payment Procedures.
- B. Document 00 50 00: Agreement.

1.4 SCHEDULE TO BE ADDED TO THE AGREEMENT

- A. This document will be added to the Bid and Agreement by reference.

PART 2 BID SCHEDULES

2.1 BASE BID

- A. Bid Schedule No. 1 below describes culinary water utility, and roadway work basic to the Contract.
- B. Bid Schedule No. 2 below describes storm drain utility work basic to the Contract.

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BID SCHEDULE No. 1**Monroe Blvd - 550 N to 800 N, WU015 - Monroe Water Line Ph I**

| ITEM NO. | DESCRIPTION | EST QTY | UNIT | UNIT PRICE | AMOUNT |
|----------|------------------------------------------------------|---------|------|------------|--------|
| 101 | MOBILIZATION | 1 | LS | | |
| 102 | TRAFFIC CONTROL | 1 | LS | | |
| 103 | SWPP PLAN, CLEANING, DUST CONTROL, WATERING | 1 | LS | | |
| 104 | CONSTRUCTION STAKING AND SURVEYING | 1 | LS | | |
| 105 | QUALITY ASSURANCE AND TESTING | 1 | LS | | |
| 106 | UTILITY INVESTIGATION | 20 | HRS | | |
| 107 | REMOVE & REPLACE CURB AND GUTTER | 980 | LF | | |
| 108 | REMOVE & REPLACE CONCRETE FLATWORK 6" THICK | 1700 | SF | | |
| 109 | DETECTABLE WARNING SURFACE (GRAY) | 8 | EA | | |
| 110 | REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK | 450 | SF | | |
| 111 | REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK | 1700 | SF | | |
| 112 | REMOVE ASPHALT PAVEMENT | 4500 | SY | | |
| 113 | REMOVE FIRE HYDRANT | 3 | EA | | |
| 114 | REMOVE WATER VALVE BOX | 4 | EA | | |
| 115 | MANHOLE - ADJUST TO GRADE | 7 | EA | | |
| 116 | VALVE - ADJUST TO GRADE | 10 | EA | | |
| 117 | RECONSTRUCT SURVEY MONUMENT | 2 | EA | | |
| 118 | APWA SPEC ROADBASE (1" MINUS, 8" THICK) Exc Included | 2400 | TONS | | |
| 119 | 3" MINUS PIT RUN (GRANULAR BORROW) Exc Included | 5200 | TONS | | |
| 120 | ASPHALT "T" PATCH (PG 58-28 SP - 1/2) 7" THICK | 2030 | TONS | | |
| 121 | 8" PVC C900 DR-18 PIPE | 1500 | LF | | |
| 122 | 8" GATE VALVE (CLASS 250) | 9 | EA | | |
| 123 | EXISTING WATER MAIN CONNECTION | 7 | EA | | |
| 124 | INSTALL FIRE HYDRANT ASSEMBLY | 4 | EA | | |
| 125 | 1" AWWA C901 WATER LATERAL | 905 | LF | | |
| 126 | 1" WATER METER ASSEMBLY | 17 | EA | | |
| 127 | CAMERA SEWER LATERALS (PRE & POST CONSTRUCTION) | 6 | EA | | |
| 128 | TEMPORARY ASPHALT PATCH | 150 | TONS | | |
| 129 | TREE TRIMMING | 1 | LS | | |
| 130 | TURF SOD LANDSCAPE RESTORATION | 4500 | SF | | |
| 131 | GRAY 2" MINUS LANDSCAPE ROCK | 130 | TONS | | |
| 132 | NX-750 GEOGID | 18567 | SF | | |
| 133 | NON-WOVEN GEOTEXTILE SEPARATION FABRIC | 18000 | SF | | |

Total = \$ _____

Schedule 1 Total in Words _____

Signature _____

BID SCHEDULE No. 2**Monroe Blvd - 550 N to 800 N, WU015 - Monroe Water Line Ph I**

| ITEM NO. | DESCRIPTION | EST QTY | UNIT | UNIT PRICE | AMOUNT |
|----------|----------------------------------------------------|---------|------|------------|--------|
| 201 | PRECAST 2'x3' CATCH BASIN w/CURB INLET GRATE/FRAME | 12 | EA | \$ | - |
| 202 | PRECAST 60" DIAMETER STORM DRAIN MANHOLE | 3 | EA | \$ | - |
| 203 | 15" STORM DRAIN RCP CLASS V PIPE | 352 | LF | \$ | - |
| 204 | 36" STORM DRAIN RCP CLASS III PIPE | 32 | LF | \$ | - |
| 205 | 27" STORM DRAIN RCP CLASS III PIPE | 16 | LF | \$ | - |
| 206 | REMOVE STORM DRAIN BOX | 4 | EA | \$ | - |
| 207 | REMOVE STORM DRAIN PIPE | 280 | LF | \$ | - |
| 208 | PLUG AND SEAL EXISTING STORM DRAIN CONNECTION | 3 | EA | \$ | - |
| 209 | CONNECT TO EXISTING MANHOLE | 1 | EA | \$ | - |
| 210 | 3" MINUS PIT RUN (GRANULAR BORROW) Exc Included | 400 | TON | \$ | - |

Total = \$ _____

Schedule 2 Total in Words _____

Grand Total (Schedules 1 & 2) = \$ _____

Grand Total in Words _____

Signature _____

PART 3 MEASUREMENTS AND PAYMENT

3.0 GENERAL

- A. See measurement and payment procedures in APWA Section 01 29 00.
- B. ENGINEER will take all measurements and compute all quantities.
- C. CONTRACTOR will verify measurement and quantities.
- D. CONTRACTOR will provide all equipment, workers, and survey crews to assist ENGINEER in making measurements.
- E. Units of measurement are listed above in the bid schedule(s).

3.1 MOBILIZATION, Bid Item No. 101

- A. Measured by lump sum.
- B. Payment covers cost of mobilization, demobilization, installation of temporary facilities and bringing all necessary construction equipment to the site. Payment will be made on a percentage basis as follows.

| Percent of Original Contract Amount Earned | Percent of Amount Bid for Mobilization to be Paid |
|-----------------------------------------------|------------------------------------------------------|
| 5 | 40 |
| 15 | 20 |
| 40 | 30 |
| 50 | 10 |

3.2 TRAFFIC CONTROL, Bid Item No. 102

- A. Measured by lump sum (LS).
- B. Payment covers traffic control plan (accepted by Ogden City), traffic control technician, flaggers (if necessary), temporary pavement markings, signs, barricades, and all traffic control devices (Refer to Section 01 55 26, Traffic Control) meeting MUTCD and Ogden City Standards. The traffic control plan shall be stamped by a Professional Engineer and submitted to both Emergency service and Ogden City's traffic engineer for approval.
- C. Monroe BLVD is expected to be open to traffic during the project. All traffic on Monroe BLVD must travel on hard surfacing (asphalt).
- D. Payment covers Contractor coordination with UTA for construction constraints on bus service on Monroe BLVD.

3.3 SWPP PLAN, SITE CLEANING, DUST CONTROL, WATERING Bid Item No. 103

- A. Measured by lump sum (LS).
- B. Payment covers the CONTRACTOR in obtaining coverage and following all requirements of the State of Utah DWQ General Permit for Storm Water Discharges from Construction Activities or the “Construction General Permit” (CGP). Permit No. UTRC00000found at: <https://documents.deq.utah.gov/water-quality/stormwater/construction/DWQ-2020-013890.pdf>. The CONTRACTOR will be listed as an Operator and Ogden City will be listed as the Owner. Payment covers the CONTRACTOR to meet all requirements of the CGP. Requirements of this permit include, but are not limited to:
 - a. Preparation and maintenance of a storm water pollution prevention plan (SWPPP). The SWPPP must be submitted to and approved by City prior to beginning construction.
 - b. Submitting a Notice of Intent (NOI) prior to construction.
 - c. Maintaining active permit coverage throughout all phases of construction. It is the responsibility of the CONTRACTOR to ensure that permit coverage does not expire. Once the site meets the conditions for terminating CGP coverage, the CONTRACTOR must pass a final inspection with the City SWPPP inspector prior to submitting the Notice Of Termination (NOT) to DWQ.
 - d. Installing and maintaining all storm water Best Management Practices (BMPs) in accordance with the approved SWPPP that are not listed as separate bid items, which may include; silt fence, construction fencing, inlet protection, inlet clean-out (if necessary).
 - e. Performing necessary Contractor SWPPP inspections in accordance with the SWPPP.
 - f. Maintaining all required documentation (inspection reports, corrective action reports, SWPPPs, etc.). Ogden City may request documents associated with the project for up to three years from the date the site is finalized.
- C. The CGP outlines the required steps for preparing and maintaining the SWPPP, provides guidelines, examples, templates, BMP specifications, etc.
- D. Payment shall cover dust control/watering of the site, daily maintenance of the construction zone, **daily sweeping at a minimum**, maintaining BMP devices, and maintaining general cleanliness of the site and staging areas during the construction process to the satisfaction of the City. Trenches shall be maintained at all times to avoid ruts larger than a 2-inch depth.
- E. Payment shall cover temporary water meter rental fees billed to the Contractor from the City. Contractor will NOT be billed for water usage for the project but must utilize a meter to obtain City water for the project.

3.4 CONSTRUCTION STAKING AND SURVEYING, Bid Item No. 104

- A. Measured by lump sum (LS).
- B. Payment shall be as a portion of the lump sum price bid and shall include all costs to

provide construction surveying and staking for the project including all labor by the Contractor's Surveyor, equipment, materials and supplies necessary to provide survey preparation, control, staking offsets and markers necessary for construction of the storm drain, water main, roadway, curb & gutter elevations, sidewalk elevations, driveways, ped ramps, and appurtenances associated with the project.

3.5 QUALITY CONTROL TESTING, Bid Item No. 105

- A. Measurement will be made by lump sum (LS).
- B. Payment shall be for all costs for the Contractor to supply 3rd party testing for quality control/assurance throughout the duration of the project. Testing is to follow Ogden City Standards and be according to APWA Section 01 45 00.
- C. Payment shall include submittals to the ENGINEER before construction and reports to the ENGINEER during construction. Notify Owner (ENGINEER or Inspector) to coordinate location of tests.
- D. Payment shall include testing on all concrete according to APWA Section 03 30 05. Frequency of testing shall be per day of pouring and not per truck.
- E. Payment shall include testing on all asphalt surfaces according to Ogden Standards and Section 32 12 05 SP. Asphalt shall be considered 500 tons to 1500 tons of asphalt and shall be tested accordingly.

3.6 UTILITY INVESTIGATION, Bid Item No. 106

- A. Measurement will be made by counting the actual number of hours of work completed by the machine and operator to investigate miscellaneous underground features as required by the ENGINEER (HR). No allowance of time will be made for transporting the backhoe to and from the job site when the backhoe is located on the site of the Contract.
- B. Payment covers furnishing and providing labor and equipment for investigation of existing miscellaneous pipelines, wires and cables, and sub-surface features as **required by the ENGINEER**. ENGINEER must approve time before Contractor is to proceed with any paid utility investigation.

3.7 REMOVE & REPLACE CURB & GUTTER TYPE "A", Bid Item No. 107

- A. Measurement will be made by linear foot (LF), measured along the top back of curb (TBC).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, and testing to replace curb and gutter in accordance with Ogden City Standard Drawing RD-4 (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. Payment includes formwork, joints, expansion, and dowelling into the existing curb and gutter.
- D. Payment includes curb & gutter transitions from type "A" to existing.
- E. Payment includes sealing the concrete with a curing compound.

**3.8 REMOVE & REPLACE CONCRETE FLATWORK 6" THICK,
Bid Item No. 108**

- A. Measurement will be made by square foot (SF) of 6" concrete installed. Removal of any existing concrete in its place is incidental to this item. This item is to cover concrete work for pedestrian access ramps and driveway approaches, particularly.
- B. Payment covers the cost of furnishing all necessary materials, equipment, and labor, incidental to the removal and disposal of concrete and base material, placement, compaction, rebar, dowelling, jointing, and testing to install concrete pedestrian access ramps in accordance with Ogden City Standards (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. Payment also includes expansion joints, compaction, and special formwork and finish work on the driveway/pedestrian ramp for flares and curb cuts/curb forming.
- D. Payment for curb/gutter along the pedestrian ramp will not be included in the square footage.
- E. Payment shall include any necessary monolithic curbing (up to 12" high) that would be required in order to meet ADA requirements.
- F. Payment includes sealing the concrete with a curing compound.

3.9 DETECTABLE WARNING SURFACE (GRAY), Bid Item No. 109

- A. Measurement shall be per each ramp location (EA) basis. Measurement to be by each new ped ramp location as identified on the bid schedule and in the plan set.
- B. Payment shall be at the per each price and shall include all costs for labor, materials, tools, and equipment required to furnish and install the detectable warning surface that is gray in color. Also includes all other work necessary to complete this item to specifications, Ogden City Standards, and APWA standard plan #238.

3.10 REMOVE & REPLACE SIDEWALK 6" THICK, Bid Item No. 110

- A. Measured per square foot (SF) of new sidewalk placed. Removal of existing concrete in its place is incidental to this item.
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, concrete and testing to remove and replace sidewalk per Ogden City Standards (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. The location shown on the construction plans is an approximate location, and the exact location and quantity will be determined in the field with approval from the Owner or Owner's representative.
- D. Payment includes sealing the concrete with a curing compound.

3.11 REMOVE & REPLACE SIDEWALK 4" THICK, Bid Item No. 111

- A. Measured per square foot (SF) of new sidewalk placed. Removal of existing concrete in its place is incidental to this item.
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, concrete and testing to remove and replace sidewalk per Ogden City Standards (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. The location shown on the construction plans is an approximate location, and the exact location and quantity will be determined in the field with approval from the Owner or Owner's representative.
- D. Payment includes sealing the concrete with a curing compound.

3.12 REMOVE ASPHALT PAVEMENT, Bid Item No. 112

- A. Measured by square yard (SY) of asphalt pavement removed.
- B. Remove Asphalt Pavement shall be limited to the locations indicated on the Drawings (plan quantity) or as directed by the Engineer. No direct payment shall be made for removal at locations not on the Drawings unless written direction is provided by the Engineer. The unit price named shall include all costs associated with; saw cutting; demolition, removal, and disposal of waste material; and all other work or materials required to complete the work. (Refer to Section 02 41 14, Pavement Removal)

3.13 REMOVE FIRE HYDRANT, Bid Item No. 113

- A. Measured by each (EA) fire hydrant assembly removed.
- B. Payment includes removal and disposal of hydrant system including but not limited to hydrant pipe, valve, shoe, and capping of existing 6" supply line in an acceptable manner to Ogden City (hydrant barrel and pipe must be removed beyond the "shoe"). Removal includes the removal of the existing water pipe(s), the existing fire hydrant barrel, and the valve box to the hydrant. SALVAGE existing hydrant at the request of the Ogden City Water Department. Payment also includes cost of excavation, removal, hauling, properly disposing of material, and any required backfilling and backfill work in the void left. Backfill material to be structural imported fill.

3.14 REMOVE EXISTING VALVE BOX, Bid Item No. 114

- A. Measured per each valve box removed (EA).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, demolition, backfill, patchwork, compaction, disposal, to remove existing water valve boxes as specified by the ENGINEER. (Refer to Section 02 41 13, Selective Site Demolition).

3.15 MANHOLE – ADJUST TO GRADE, Bid Item No. 115

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade with collar installed. Manholes are expected to be lowered for paving, then raised to grade with collar after paving.
- B. Payment covers all tools, labor, materials, and equipment to lower and raise existing structures to be flush with new grade as shown on Drawings. Payment covers all costs associated with raising/lowering the existing structure; including grade rings, removal and disposal of existing materials, concrete collars, concrete seal, labor, and all other appurtenant work not otherwise stipulated to be paid for separately.
- C. Payment covers the required coordination with the Sewer Department for ordering manhole lids for existing sanitary sewer manholes. New manhole covers will NOT be paid for with this item.
- D. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.)
- E. All collars are to be holesaw cut or an approved subcontractor shall be used to install collars. A payment reduction of \$300 per collar could be made for all collars not holesaw cut but self-performed.

3.16 VALVE – ADJUST TO GRADE, Bid Item No. 116

- A. Measurement will be made by per each installed valve (EA)/adjusted to finish grade with collar installed. Valves are expected to be lowered for paving, then raised to grade with collar after paving.
- B. Payment covers all tools, labor, materials, and equipment to lower and raise existing structures to be flush with new grade as shown on Drawings. Payment covers all costs associated with raising/lowering the existing structure; removal and disposal of existing materials, concrete collars, concrete seal, labor, and all other appurtenant work not otherwise stipulated to be paid for separately.
- C. Valve cans shall be clear of any concrete debris or silting inside and must be centered, and cleaned around the nut of the valve to be accepted.
- D. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.)
- E. All collars are to be holesaw cut or an approved subcontractor shall be used to install collars. A payment reduction of \$300 per collar could be made for all collars not holesaw cut but self-performed.

3.17 RECONSTRUCT EXISTING SURVEY MONUMENT, Bid Item No. 117

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade or each collar installed.
- B. Payment covers all costs to reconstruct or install a new monument including the concrete cylinder cast off site.
- C. Payment covers the required coordination with the City Surveyor to get the location of

the monument verified and to obtain the brass monument as necessary. The City will provide the brass.

- D. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.)
- E. All collars are to be holesaw cut or an approved subcontractor shall be used to install collars. A payment reduction of \$300 per collar shall be made for all collars not holesaw cut and self-performed.

3.17 APWA SPEC ROADBASE (1.5" or 1" MINUS), Bid Item No. 118

- A. Measurement will be made by tons (TONS) of untreated base course placed and compacted.
- B. Payment covers the cost of furnishing all necessary materials, aggregate base course, labor, hauling, placement, and compaction to produce an acceptably deep aggregate base course layer per Ogden City Standard Drawings RD-3 and project plan specified thickness. Payment covers the cost of installing the full thickness of aggregate base course layer and preparation for pavement installation. (Refer to Section 33 05 25, Pavement Restoration).
- C. Payment covers the cost of all excavation, removal/disposal of existing, and all grading/compaction to finish grade before concrete pour and/or before asphalt paving.
- D. No payment will be made for aggregate base course purchased and installed as a temporary construction measure.
- E. No payment for this item will be made for aggregate base used as trench backfill (below the bottom of UTBC level).
- F. Aggregate base course shall be untreated. No recycled roadbase (or any recycled material) will be accepted for roadbase on the project.

3.18 3" MINUS PIT RUN (CBR-30 MIN) Exc Included, Bid Item Nos. 119 & 210

- A. Measurement will be made by tons (TONS) of 3" Minus structural fill placed and compacted.
- B. Payment covers the cost of furnishing all necessary materials, granular borrow, labor, hauling, placement, and compaction to produce an acceptably deep structural fill layer per Ogden City Standard Drawings RD-3 and project plan specified thickness. Payment covers the cost of installing the full thickness of granular borrow layer and preparation for roadbase installation.
- C. Payment covers the cost of all excavation, removal/disposal of existing, and all grading/compaction to grade before roadbase placement.

3.19 ASPHALT "T" PATCH (HMA SP ½ PG 58-28) 7" THICK, Bid Item No. 120

- A. Measurement will be made by tons (TONS) of HMA placed per project plans and specifications. Asphalt shall be Class II per Section 32 12 15 SP.
- B. Payment covers the cost of furnishing all necessary materials, asphalt, tack coat

equipment, labor, hauling, placement, and compaction to produce an acceptably deep excavation asphalt “T” patch per Ogden City Standard Drawing RD-3. Payment covers the cost of installing the full thickness of hot-mixed, hot laid asphalt concrete pavement (with no more than 15% recycled asphalt content). (Refer to Section 32 12 15 SP, Bituminous Concrete)

C. Payment also covers the costs of final sawcutting, “scratching” out the trench and general prep work prior to paving.

3.20 8" PVC C900 DR-18 PIPE, Bid Item No. 121

- A. Measurement shall be made per linear foot (LF) of 8 INCH PVC C-900 DR18 water line installed as measured from connection point to connection point along the centerline of the pipeline.
- B. Payment shall be made at the linear foot price bid and shall include all material, labor, tools, and equipment to coordinate construction, install water line including shoring or stabilization, de-watering, and dust control following all water line trench standards per plan W-18.
 1. Payment covers the cost of incidental work such as potholing, fittings, corporation stops, couplings, joint lubricants, gaskets, jackhammer work; underground line marking tape; landscape replacement if damaged by CONTRACTOR'S operations; restoration of all utilities damaged as a result of operations; site dewatering; water main repair or replacement if damaged by CONTRACTOR; and similar work to complete the installation of the water line.
 2. Furnishing and installing DI bends, crosses, tees, and fittings identified on the construction drawings except those specifically listed in other bid items; plugging of existing pipes as required on the plans, etc.,
 3. Polywrap all Ductile fittings & valves with 8 Mil Polyethylene sheet and Tape Wrap.
 4. All costs for concrete thrust blocks, including fabric wrapping to protect bolts and followers from the concrete. Install the concrete thrust blocking with the minimum bearing surface indicated in the project plans.
 5. Provide and install all MEGA-LUG followers, pipe joint restraints as labeled in the plans, or approved equal on all fittings, tees, and bends, all costs for the labor and equipment to saw cut the pipe for connections as required.
 6. All C-900 DR18 PVC pipe shall have 12 ga. insulated tracing wire installed with the pipe. Tracing wires shall terminate in Snakepit tracer box style (CD14BT or approved equal) according to Ogden City Standard W-1B. Marking tape shall also be installed with the pipe per Ogden City Standards.
 7. Cost to clean the interior of the line by sweeping and/or spraying to remove any accumulated debris, sand or foreign materials prior to the installation of the pipe in the trench. Payment includes the cost to pressure test the line, perform bacteria tests on the line, disinfect the line and flush the line (Bacteriological sample costs will NOT be billed to the Contractor). Payment includes all costs associated with dust control including evenings and weekends between 7:00 am and 9:00 pm, or as required by the City Engineer.
- C. Payment shall include all trenching costs associated with this item including all

import pipe bedding (material and placement), backfilling, and compaction. Payment includes all excavation and removal of material for installation of the pipe. Sand bedding shall be placed a minimum of 6 inches below the bottom of pipe and 12 inches above the top of pipe with 12 inches on each side of pipe bedded and haunched according to PVC pipe manufacturers' recommendations and Ogden City Standards. Material placed as backfill above the pipe bedding material shall be APWA 3" Minus Granular Fill Borrow (separate bid item) or better.

3.21 8" GATE VALVE CLASS 250, Bid Item No. 122

- A. Measurement will be made by actual count per each EA gate valve installed
- B. Payment covers the cost of excavation, foundation preparation, restraint devices, cast iron slip-type valve boxes per Ogden City Standards and project plan details. Payment covers traffic lids, valve, concrete collar sealed, backfill, backfill material, and other miscellaneous devices, materials, or equipment required for a complete installation. Ogden City's Water Department Approved Materials List should be consulted for acceptable valve types. (Refer to Section 33 12 16, Water Valves).
- C. Valves shall be greased and wrapped. Documentation of wrapped valve is required prior to backfill.
- D. ~~Payment shall include raising the valve box to final grade and providing the 12 inch thick, 12 inch wide, concrete collar around the cover(s) meeting city standards. Concrete for collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.).~~**

3.22 EXISTING WATER MAIN CONNECTION, Bid Item No. 123

- A. Measurement shall be made per each (EA) connection made to the existing water main. No additional payment will be made for additional connections due to contractor phasing of construction requiring connections from new main to new main.
- B. Payment shall be made at the unit price bid and shall include all labor, materials, tools, and equipment to furnish and install the fittings necessary to complete the connection between the existing pipe and the new pipe. Payment includes all costs to locate and excavate the existing water main and connect the new C-900 DR18 to the existing main as shown on the plans. Payment includes removal of up to 30 feet of the existing pipe, if required, to make the connection with the existing pipes including looping the new C-900 DR18 pipe to match the elevation of the existing waterline, prepare the ends of the pipe and to remove and legally dispose of the removed pipe and fittings.
- C. Contractor is responsible to pothole and verify the pipe depth, material and size of existing waterlines prior to ordering parts and fittings. Payment includes all costs to furnish and install sleeve connections with MEGA-LUG followers or approved equal on the mechanical joint ends and all costs for required concrete thrust blocks.
- D. Payment includes all costs to coordinate with the Ogden City Water Department for all water shutdowns necessary for installation of the complete connection. Payment includes 48-hour advance written notifications to all residents affected by any water service interruption. Payment includes costs for excavation, backfill and compaction,

compaction testing, blue staking, potholing, legal waste disposal, all landscaping related and sod restoration not covered under other items, and plugging and blocking the end of the mains to be abandoned, and all associated work items required to complete this bid item. Total length of pipe for connection shall not exceed 20 feet.

- E. Payment includes all connection pieces to be properly swabbed and disinfected with chlorine.
- F. Payment shall be made at the unit price bid and shall include all costs to remove the existing pipe, saw-cut, remove, and legally dispose of pipe waste materials; plugging of existing pipes as required on the plans; provide trench excavation with legal disposal of excavated waste materials, shoring or stabilization, and de-watering; excavate existing excess material to provide for the finish street structure.

3.23 INSTALL FIRE HYDRANT ASSEMBLY, Bid Item No. 124

- A. Measurement will be made by actual count per each (EA) installed.
- B. Payment covers the cost of excavation, soil preparation, potholing, installing the new fire hydrant with surface coatings and fittings, 6-inch ductile iron supply main piping and any required bends/loops around existing utilities, connection of the new fire hydrant to new water main with ductile iron pipe with exterior of pipe tape wrapped; gate valves with cast iron slip-type valve boxes, traffic lids, concrete collar (w/seal); miscellaneous tees, sleeves, bends, gaskets, bolts, nuts; approved joint restraining devices; greasing and wrapping all exposed fittings, bolts and nuts; pipeline dewatering; concrete thrust restraints; concrete box repair, painting and other miscellaneous devices; snake pit boxes with tracer wire, collars; and all other materials/labor necessary to install new fire hydrant assembly according to Ogden City Standard Drawings W-1A, W-1B, & W-2.
- C. Payment shall include raising the valve box to final grade ~~and providing the 12-inch thick, 12-inch wide, concrete collar around the cover(s) meeting city standards. Concrete for collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.).~~
- D. Payment includes painting the fire hydrant barrel safety yellow and the caps/bonnet the color determined from a flow test performed by the water department after paving is completed (Refer to Section 33 12 19 SP Hydrants for more details).

3.24 1" AWWA C901 SERVICE LATERAL, Bid Item No. 125

- A. Measurement will be made by linear foot (LF) of service line installed.
- B. Payment covers the cost of excavation, soil preparation, potholing, import pipe bedding (material and placement), backfilling, and, disturbed concrete repair and disposal, the new water lateral CTS Poly piping (AWWA C901), tracer wire, connection of the new water lateral to new water main, connection of the new water lateral to the servicing meter, connection of the new meter to the property side service connection, furnishing and installing any necessary adaptors/reducers, existing removal or abandonment and disposal of the existing water pipe(s), disinfection and commissioning pipeline; and other work incidental to the installation of the water lateral. It is preferred that

boring/pulling of the water lateral occur before open trench excavation is used. However, all excavation, bedding material (i.e. sand), placement, backfilling placement (material under separate bid item), compaction (in 8" max lifts), will be paid for under this bid item. (Refer to Section 33 12 33, Water Meter).

3.25 1" WATER METER ASSEMBLY, Bid Item No. 126

- A. Measurement will be made by actual count per each installed (EA).
- B. Payment covers the cost of excavation, potholing, and new meter setter materials (sand fill compacted) and devices; acquisition and installation of new Raven meter box, ring & cover, removal and disposal of existing meter assembly and meter box, extension of the service lateral from the new meter to the old meter location, connection of the new water lateral to the servicing meter in-line with the existing service connections, removal or abandonment of the existing water lateral tubing, disinfection and commissioning of the lateral; and other miscellaneous devices, materials, or equipment required for a complete installation; all in accordance with Ogden City Standard Drawing W-3. Note, all existing meters are 5/8" or 3/4". Payment includes the necessary adaptors to connect the new 1" line to the existing meter and piping/materials necessary to connect to the house side of the meter assembly. Ogden City's Water Department Approved Materials List should be consulted for acceptable equipment types. (Refer to Section 33 12 33, Water Meter), acceptable dual check valve – Ford HHCA34-444-G-NL 1" Dual Check Valve. Acceptable angle valve – Ford KV43-444WQ/G – Angle Valve 1" COMP NL. Meter Box – Raven Plastic Tapered 16x24x36 (White interior). Ring & Cover – A32-LB-TP – Ford Ring & Cover w/2" Hole.
- C. Payment covers the labor and tools necessary to install water meter "buttons" on the face of curb (adhesive and buttons will be provided by the Water Department).
- D. Payment covers furnishing and installing the necessary service saddle. Service saddles shall be nylon coated with double stainless steel straps
- E. Payment covers furnishing and installing the appropriate corp stop. Corp stops shall be either Mueller or Ford ball valve type with T-cap head adaptors.

3.26 CAMERA SEWER LATERALS (PRE & POST CONSTRUCTION), Bid Item No. 127

- A. Measurement will be made by each address video recorded twice (EA).
- B. Payment covers all labor, materials, equipment, transportation, and other items associated with the video inspection and locating of the existing and/or new sewer lines and laterals that cross the proposed water main (on Monroe) prior to construction of the water line components and again prior to paving to verify that no settlement or damage has occurred as a result of construction.
- C. Video submittals will be provided to Ogden City prior to construction of the water line and again prior to construction of the asphalt pavement.
- D. Video footage along the main is considered incidental to camera footage in the laterals. There are six anticipated sewer laterals to record.

3.27 TEMPORARY ASPHALT PATCH (HMA,ONE LIFT), Bid Item No. 128

- A. Measurement will be made by tons (TONS) of HMA placed as a temporary measure.
- B. Payment covers the cost of furnishing all necessary materials, labor, and ground prep to temporarily pave the surface for traffic to traverse.
- C. Work may be self performed or subcontracted out.

3.28 TREE TRIMMING, Bid Item No. 129

- A. Measurement will be made by lump sum (LS) .
- B. Payment covers the cost of furnishing all necessary materials, labor, equipment and transportation required to sufficiently trim all tree limbs that will conflict either detoured traffic or construction equipment during the duration of the project.
- C. Payment covers cost to clean up and dispose (to a dump site) any tree limbs cut/removed.
- D. Work must be subcontracted out to a licensed/certified arborist.

3.29 TURF SOD LANDSCAPE RESTORATION, Bid Item 130

- A. Measurement will be made by square feet (SF) of sod placed as a landscape restoration measure.
- B. Payment covers all preparation required to install sod along areas impacted from construction including excavation, sod cutting (a sod cutting tool is required on all edges), grading, and 2" minimum topsoil.
- C. Payment includes all necessary labor, tools, materials to install sod in all grassy areas impacted from construction (utilities and concrete work).
- D. Restoration of all damaged sprinklers will be considered incidental to this item.
- E. Contractor is expected to keep the new sod watered for at minimum 1 week to help the sod "take" root.

3.30 GRAY 2" MINUS LANDSCAPE ROCK, Bid Item 131

- A. Measurement will be made by tons (TONS) of 2"-3" crushed landscaping rock placed along the parkstrip as shown in the plans to an acceptable depth (4-6" deep). Color should be a gray shade landscaping rock.
- B. Payment covers the cost of furnishing all necessary materials (rock), weed barrier fabric, excavation, removal of existing landscaping, hauling, transportation, and equipment to install said item.

3.31 NX-750 GEOGRID, Bid Item 132

- A. Measurement will be made by square feet (SF) of NX-750 Laid. Primary use shall be in the intersections of both 550 N and 675 N.
- B. Payment covers the cost of furnishing all necessary materials, tools, transportation, and labor required to install the geogrid per the project plans/details.

3.32 NON-WOVEN GEOTEXTILE SEPARATION FABRIC, Bid Item 133

- A. Measurement will be made by square feet (SF) of fabric Laid. Primary use shall be in the intersections of both 550 N and 675 N.
- C. Payment covers the cost of furnishing all necessary materials, tools, transportation, and labor required to install the geotextile fabric per the project plans/details.

3.18 PRECAST 2'x3' CATCH BASIN w/CURB INLET GRATE/FRAME, Bid Item No. 201

- A. Measurement shall be made on a per each (EA) basis. Measurement to be by actual field count of each type, and size of installed structure identified on the bid schedule and in the plan set.
- B. Payment shall be made per each price and shall include all labor, materials, and equipment for furnishing and installing each type of storm drain catch as a precast basin and box. Payment also includes excavation; concrete; supplying and installing all precast structures, risers, grates, and covers; additional cast-in-place concrete; grout; concrete collars for pipe connections; core drilling; connections to existing and/or new pipes; backfill material (sewer rock), and all other items needed to complete the work including cleaning and placing structures in service.

3.19 PRECAST 60" DIAMETER STORM DRAIN MANHOLE w/OGDEN CITY FRAME/COVER, Bid Item No. 202

- A. Measurement shall be made on a per each (EA) basis. Measurement to be by actual field count of each type, and size of installed structure identified on the bid schedule and in the plan set.
- B. Payment shall be made per each price and shall include all labor, materials, and equipment for furnishing and installing each type of storm drain manhole at required full depth with sump. Payment also includes excavation; concrete; supplying and installing all precast structures, risers, manhole lids and covers to Ogden City Standard details, additional cast-in-place concrete; grout; concrete collars for pipe connections; core drilling; connections to existing and/or new pipes; backfill material (sewer rock), installing material and compaction; and all other items needed to complete the work including cleaning and placing structures in service.
- C. Payment shall include furnishing and installing a new Ogden City stamped frame and cover per Ogden City Standard Details.

3.33 15" RCP CLASS IV STORM DRAIN PIPE, Bid Item No. 203

- A. Measurement shall be made per linear foot (LF) measured in the field to the nearest foot, for the type, size and class as indicated. Unless indicated otherwise, measurement to be along the pipe from the inside face to the inside face of manholes, catch basins, or other structures, or to the end of the pipe where no structure exists, with no deduction for fittings.

- B. Payment shall be made at the linear foot price bid and shall include all costs for furnishing and installing the pipe, including couplings; gaskets; adapters; plugs; capping or plugging of the existing storm drain pipe(s) to be abandoned; trench boxes or shoring as needed; connection of the existing storm drain to the new storm drain; reconnection of existing storm drain laterals to the new storm drain manholes; connecting new storm drain to existing structures; pipe cutting; field collars; cleaning new pipe prior to acceptance by owner, commissioning pipelines. Payment also includes measures to protect the new pipeline from being damaged or filled with sediment from a runoff event during construction.
- C. Payment shall be at the linear foot unit price bid and shall include all costs to furnish and stockpile the import bedding and pipe haunching material (Sewer Rock ASTM Size No. 4); excavate the trench; excavation for bells; place, shape, compact and prepare the material around the pipe, provide compaction and gradation tests, provide certified scale tickets for the material delivered, dewatering, and traffic control. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Pipe bedding shall be placed a minimum of six inches below the pipe and up to the bottom of pipe. The pipe haunching material shall be placed above the bedding material to the pipe spring line. The import granular backfill borrow shall be placed directly above the import pipe haunching material to the bottom of the untreated base course layer. There will be no payment for over excavation unless approved in written form by the engineer prior to the excavation.
- D. Payment shall cover post construction flushing and video inspection footage accepted by the Engineer.

3.34 36" RCP CLASS III STORM DRAIN PIPE, Bid Item No. 204

- A. Measurement shall be made per linear foot (LF) measured in the field to the nearest foot, for the type, size and class as indicated. Unless indicated otherwise, measurement to be along the pipe from the inside face to the inside face of manholes, catch basins, or other structures, or to the end of the pipe where no structure exists, with no deduction for fittings.
- B. Payment shall be made at the linear foot price bid and shall include all costs for furnishing and installing the pipe, including couplings; gaskets; adapters; plugs; capping or plugging of the existing storm drain pipe(s) to be abandoned; trench boxes or shoring as needed; connection of the existing storm drain to the new storm drain; reconnection of existing storm drain laterals to the new storm drain manholes; connecting new storm drain to existing structures; pipe cutting; field collars; cleaning new pipe prior to acceptance by owner, commissioning pipelines. Payment also includes measures to protect the new pipeline from being damaged or filled with sediment from a runoff event during construction.
- C. Payment shall be at the linear foot unit price bid and shall include all costs to furnish and stockpile the import bedding and pipe haunching material (Sewer Rock ASTM Size No. 4); excavate the trench; excavation for bells; place, shape, compact and prepare the material around the pipe, provide compaction and gradation tests, provide certified scale tickets for the material delivered, dewatering, and traffic control. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Pipe bedding shall be placed

a minimum of six inches below the pipe and up to the bottom of pipe. The pipe haunching material shall be placed above the bedding material to the pipe spring line. The import granular backfill borrow shall be placed directly above the import pipe haunching material to the bottom of the untreated base course layer. There will be no payment for over excavation unless approved in written form by the engineer prior to the excavation.

D. Payment shall cover post construction flushing and video inspection footage accepted by the Engineer.

3.35 27" RCP CLASS III STORM DRAIN PIPE, Bid Item No. 205

A. Measurement shall be made per linear foot (LF) measured in the field to the nearest foot, for the type, size and class as indicated. Unless indicated otherwise, measurement to be along the pipe from the inside face to the inside face of manholes, catch basins, or other structures, or to the end of the pipe where no structure exists, with no deduction for fittings.

B. Payment shall be made at the linear foot price bid and shall include all costs for furnishing and installing the pipe, including couplings; gaskets; adapters; plugs; capping or plugging of the existing storm drain pipe(s) to be abandoned; trench boxes or shoring as needed; connection of the existing storm drain to the new storm drain; reconnection of existing storm drain laterals to the new storm drain manholes; connecting new storm drain to existing structures; pipe cutting; field collars; cleaning new pipe prior to acceptance by owner, commissioning pipelines. Payment also includes measures to protect the new pipeline from being damaged or filled with sediment from a runoff event during construction.

C. Payment shall be at the linear foot unit price bid and shall include all costs to furnish and stockpile the import bedding and pipe haunching material (Sewer Rock ASTM Size No. 4); excavate the trench; excavation for bells; place, shape, compact and prepare the material around the pipe, provide compaction and gradation tests, provide certified scale tickets for the material delivered, dewatering, and traffic control. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Pipe bedding shall be placed a minimum of six inches below the pipe and up to the bottom of pipe. The pipe haunching material shall be placed above the bedding material to the pipe spring line. The import granular backfill borrow shall be placed directly above the import pipe haunching material to the bottom of the untreated base course layer. There will be no payment for over excavation unless approved in written form by the engineer prior to the excavation.

D. Payment shall cover post construction flushing and video inspection footage accepted by the Engineer.

3.18 REMOVE STORM DRAIN BOX, Bid Item No. 206

A. Measurement will be made by actual count per each (EA) storm drain box removed and disposed of properly. Lids/covers should be salvaged to Ogden City Operations.

B. Payment covers all tools, labor, materials required for removing the storm drain box as indicated in the plans.

3.15 REMOVE STORM DRAIN PIPE, Bid Item No. 207

- A. Measurement shall be made per linear foot (LF) basis, measured in the field, to the nearest foot. Unless indicated otherwise, measurement to be along the pipe from the inside face to inside face of manholes or other structures, or to the end of the pipe where no structure exists.
- B. Payment shall be made at the linear foot price and shall include all costs for labor, tools, materials, and equipment involved in excavating, removing, and disposing of the existing storm drain pipe as shown on the drawings.

3.16 PLUG AND SEAL EXISTING STORM DRAIN CONNECTION, Bid Item No. 208

- A. Measurement shall be made per Each (EA) basis.
- B. Payment shall be made per each connection that is plugged, sealed and disconnected from service to abandon or remove the existing pipe.

3.17 CONNECT TO EXISTING MANHOLE, Bid Item No. 209

- A. Measurement shall be made per Each (EA) basis.
- B. Payment shall be made for the connection to the existing manhole on Monroe BLVD. Payment includes all tools, labor, materials, equipment, and transportation required to core through the manhole to install the 15" RCP storm drain as shown in the plans.
- C. Contractor is advised to verify the inside of the manhole and that the existing manhole may be cast in place and very thick.

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