

- B. Question: Will A307 Grade A Zinc plated nuts/bolts on buried flanged connections be allowed?
Answer: No Zinc planted nuts/bolts will be allowed on fitting connections. Only use blue bolts on all fittings.
- C. Question: Will the Contractor be required to purchase meter box materials from Ogden City?
Answer: No. Please obtain all meter box materials from the supplier/distributor. The wording in the Standards refers to non-CIP projects funded privately.
- D. Question: What is the Dual check valve that will need to be used on the back side of the meter?
Answer: Use a 1" Ford HHCA34-444-G-NL Dual Check Valve.
- E. Question: In the past, a ball valve has been used on the front side of the meter. What is the required angle valve to be used?
Answer: Use a 1" Ford KV43-444WQ/G Angle Key valve.
- F. Question: Is there any air vacs for the project?
Answer: There are no air vac assemblies for the project.
- G. Question: What does the Roadbase quantity (Item 126) include?
Answer: The Roadbase quantity reflects all the roadbase for the reconstruct between Quincy and Jackson. It also includes the 8" thick roadbase section to be used on the approximate 4' wide T-Patch for main and service laterals between Jackson and Harrison. It includes roadbase that is to be used under concrete items and any roadbase used to repair soft spots.
- H. Question: What does the remove asphalt pavement (Item 117) include?
Answer: Item 117 includes all of the asphalt removed for the project as a plan quantity. It includes the little strip on Quincy, the full width extents between Quincy and Jackson, and T-patch removal on main/service laterals between Jackson and Harrison.

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 - Rushton Water Line Improvements

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 work basic to the Contract.

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BID SCHEDULE No. 1

Rushton Street - Quincy to Harrison BLVD, WU015 - Rushton Water Line Improvements

BID ITEM	DESCRIPTION	BID UNIT	BID QUANTITY	UNIT PRICE	CONTRACT AMOUNT
101	MOBILIZATION	LS	1		
102	TRAFFIC CONTROL	LS	1		
103	SWPP PLAN, SITE CLEANING, DUST CONTROL, WATERING	LS	1		
104	CONSTRUCTION STAKING AND SURVEYING	LS	1		
105	QUALITY CONTROL TESTING	LS	1		
106	UTILITY INVESTIGATION	HRS	20		
107	REMOVE OLD CANAL CROSSING TRENCH	LS	1		
108	REMOVE & REPLACE CURB AND GUTTER TYPE "A"	LF	500		
109	REMOVE & REPLACE CURB AND GUTTER TYPE "F"	LF	1300		
110	REMOVE & REPLACE CONCRETE FLATWORK 6" THICK (6" THICK BASE)	SF	700		
111	DETECTABLE WARNING SURFACE (GRAY)	EA	16		
112	GRIND 2" CURB TO ADA STANDARD	LF	60		
113	REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)	SF	6400		
114	REMOVE & REPLACE CONCRETE SIDEWALK 4" THICK (4" THICK BASE)	SF	1100		
115	REMOVE SIDEWALK	SF	2800		
116	REMOVE & REPLACE CONCRETE WATERWAY (8" THICK BASE)	SF	400		
117	REMOVE ASPHALT PAVEMENT	SY	3200		
118	REMOVE FIRE HYDRANT	EA	1		
119	REMOVE WATER VALVE BOX	EA	6		
120	EXISTING MANHOLE - ADJUST TO GRADE	EA	11		
121	EXISTING VALVE - ADJUST TO GRADE	EA	2		
122	EXISTING SURVEY MONUMENT - ADJUST TO GRADE	EA	5		
123	INSTALL NEW SURVEY MONUMENT (BRASS PROVIDED)	EA	1		
124	ROADWAY EXCAVATION (PLAN QTY)	SY	1870		
125	18" OVEREXCAVATION, GEOFABRIC, & TX-7 GEOGRID	SY	239		
126	APWA SPEC ROADBASE (1" or 1.5" MINUS)	TONS	2450		
127	ASPHALT "T" PATCH (SP 3/8 PG 58-28) 4" THICK	TONS	350		
128	2" MILL & OVERLAY (SP 3/8 PG 58-28)	TONS	615		
129	ASPHALT PAVING (SP 3/8 PG 58-28) 3" THICK	TONS	340		
130	8" PVC C900 DR-18 PIPE	LF	2400		
131	8" GATE VALVE (CLASS 250)	EA	10		
132	EXISTING WATER MAIN CONNECTION	EA	5		
133	CONNECT TO EXISTING TAP & CAP EXISTING LINES	EA	1		
134	SEWER LATERAL (928) & MAIN REPLACEMENT	LS	1		
135	INSTALL NEW FIRE HYDRANT ASSEMBLY	EA	5		
136	1" AWWA C901 WATER LATERAL	LF	1625		
137	1" WATER METER ASSEMBLY	EA	56		
138	LANDSCAPING	LS	1		

Total = \$ _____

Schedule Total in Words _____

Signature _____

PART 3 MEASUREMENTS AND PAYMENT

3.1 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).

3.2 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

1.3 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. Payment covers any temporary trench fill (which will not be used for final trench fill section) for traffic flow and public safety purposes before final pavement section is added.

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

- A. Measured by lump sum (LS).
- B. Payment covers the CONTRACTOR in providing and maintaining a storm water

pollution prevention plan as outlined by the State of Utah DWQ. Permit No. UTR090000 found at: <https://documents.deq.utah.gov/water-quality/stormwater/updes/DWQ-2020-005275.pdf> which outlines the required steps for preparing and maintaining the SWPPP, provides guidelines, examples, templates, BMP specifications, etc. The CONTRACTOR will be listed as an operator along with Ogden City. Payment also covers all erosion control that is not listed as separate bid items, which includes; silt fence, construction fencing, inlet protection, inlet clean-out (if necessary).

- C. Payment shall cover dust control/watering of the site, daily maintenance of the construction zone, **daily sweeping**, 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.
- D. 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.

1.5 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 water line system, curb & gutter elevations, sidewalk elevations, driveways, ped ramps, roadway, and appurtenances associated with the project.

3.6 QUALITY CONTROL TESTING, Bid Item No. 105

- A. Measurement will be made by lump sum.
- B. Payment shall be for all costs for the Contractor to supply 3rd party testing for quality control/assurance. Compaction tests are expected to follow Ogden City Standards and are expected on the water line trench at mid trench and at subgrade level every 200 feet at minimum. Compaction tests are expected with each concrete pour. Additional compaction tests may be required at the discretion of the Engineer.

3.7 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.

3.8 REMOVE OLD CANAL CROSSING TRENCH, Bid Item No. 107

- A. Measurement shall be on a lump sum (LS) basis.
- B. Payment shall cover all labor, tools, materials, and transportation required to sufficiently remove and plug the existing abandoned canal to the extents it is within the new water line trench. Payment covers any additional fill material and labor beyond the required import fill within the water line trench zone.

3.9 REMOVE & REPLACE CURB & GUTTER TYPE “A”, Bid Item No. 108

- 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 **compacted roadbase (8” thick min)**, formwork, joints, expansion, and dowelling into the existing curb and gutter.
- D. Payment includes curb & gutter transitions from type “A” to type “F” or existing.
- E. Payment covers all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.10 REMOVE & REPLACE CURB & GUTTER TYPE “F”, Bid Item No. 109

- 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 2017 APWA Standard Drawing 205 (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. Payment includes **compacted roadbase (8” thick min)**, formwork, joints, expansion, and dowelling into the existing curb and gutter.
- D. Payment covers all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

**3.11 REMOVE & REPLACE CONCRETE FLATWORK 6” THICK,
Bid Item No. 110**

- A. Measurement will be made by square foot (SF) of 6” concrete (6” base) 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 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 ~~base material (6" thick minimum)~~, 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 covers all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.12 DETECTABLE WARNING SURFACE (GRAY), Bid Item No. 111

- A. Measurement shall be per each 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 cost 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.

3.13 GRIND 2" CURB TO ADA STANDARD, Bid Item No. 112

- A. Measurement shall be on a linear foot (LF) basis.
- B. Payment shall be at the bid unit price and shall include all tools, labor, materials, transportation, and cleanup required to grind the existing ped ramp curbs (approximately 2" tall) to grade or 1/2" lip.

3.14 REMOVE & REPLACE SIDEWALK 6" THICK, Bid Item No. 113

- 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, ~~base course (6" thick)~~, 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 covers all costs associated with restoring disturbed landscaping from

installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.15 REMOVE & REPLACE SIDEWALK 4" THICK, Bid Item No. 114

- 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, ~~base course (4" thick)~~, 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.
- E. Payment covers all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.16 REMOVE SIDEWALK, Bid Item No. 115

- A. Measured per square foot (SF) of sidewalk removed and disposed at a proper dump site.
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, and disposal of sidewalk that will not be replaced (South side of Rushton from Quincy to Jackson).
- C. Payment covers all costs associated with restoring disturbed landscaping from this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.17 REMOVE & REPLACE CONCRETE WATERWAY (8" thick base), Bid Item No. 116

- A. Measurement will be made by square foot (SF) of waterway installed with 8" thick compacted roadbase. Removal of any waterway in its place will be considered incidental to this item. Measurement shall not include the area of a 30" curb/gutter projection along the curb return radius.
- B. Payment covers the cost of furnishing all necessary materials, equipment, and labor incidental to the removal and disposal of waterway and ~~(and base)~~, placement, compaction, rebar, dowelling, and testing to install concrete waterway (and base) in accordance with Ogden City Standard Drawing RD-6 (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).

3.18 REMOVE ASPHALT PAVEMENT, Bid Item No. 117

- 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)

3.19 REMOVE FIRE HYDRANT, Bid Item No. 118

- 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, and capping of existing 6” stem at the main in an acceptable manner to Ogden City (hydrant barrel and pipe must be removed beyond the “pumpkin”). 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 material in the void left. Backfill material to be structural imported fill.
- C. Payment covers all costs associated with restoring disturbed landscaping from this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.20 REMOVE WATER VALVE BOX, Bid Item No. 119

- 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)

3.21 EXISTING MANHOLE – ADJUST TO GRADE, Bid Item No. 120

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade or each 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. 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.)

3.22 EXISTING VALVE – ADJUST TO GRADE, Bid Item No. 121

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade or each collar installed. Valves are expected to be lowered for paving, then raised to grade with collar after paving. Valve cans must maintain plumbness.
- B. Payment covers all tools, labor, materials, and equipment to lower and raise existing valves to be flush with new grade as shown on Drawings. Payment covers all costs associated with raising/lowering the existing structure; including valve can risers, 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. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.)

3.23 EXISTING SURVEY MONUMENT – ADJUST TO GRADE, Bid Item No. 122

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade or each collar installed. Monuments 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 monuments to be flush with new grade as shown on Drawings. Payment covers all costs associated with raising/lowering the existing structure; including new monument lid, 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. Coordinate work with the City Surveyor Steve Porter.
- D. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.)

3.24 INSTALL NEW SURVEY MONUMENT (Brass Provided), Bid Item No. 123

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade or each collar installed.
- B. Payment covers all tools, labor, materials, and equipment to install new survey monument assembly including concrete, forming, rebar, and covers (Ogden City Engineering to provide brass). Payment covers all costs associated with installing and raising/lowering the existing structure; including new monument lid, 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. Coordinate work with the City Surveyor Steve Porter.
- D. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.)

3.25 ROADWAY EXCAVATION (PLAN QUANTITY), Bid Item No. 124

- A. Measurement will be on a square yard (SY) basis and will be a plan set quantity as

approved by the ENGINEER. This pay item applies to required roadway excavation outside of utility trenches and/or T-patches (from Quincy to Jackson).

- B. Payment shall be for all excavation within the new roadway extents and shall include all labor, tools, equipment, and transportation required to excavate, remove, and haul away existing materials at required depth, re-grade the roadway, provide proof roll test, and prepare the roadway for roadbase and asphalt.
- C. Excavation done for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work.

3.26 18" OVEREXCAVATION, GEOFABRIC, & TX-7 GEOGRID, Bid Item No. 125

- A. Measurement will be on a square yard (SY) basis and will be measured by the amount of TX-7 geogrid installed.
- B. Payment shall be for 18" of additional excavation (and removal) below the subgrade level, installation of geotextile fabric (per project details), and installation of the Tensar TX-7 geogrid (installation of the 18" thick roadbase will be paid for as part of the roadbase bid item).

3.27 APWA SPEC ROADBASE (1" or 1.5" MINUS), Bid Item No. 126

- 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. No payment will be made for aggregate base course purchased and installed as a temporary construction measure.
- D. No payment for this item will be made for aggregate base used as trench backfill (below the bottom of UTBC level). Do NOT use roadbase as trench backfill.
- E. Aggregate base course shall be untreated. No recycled roadbase (or any recycled material) will be accepted for roadbase on the project.

3.28 ASPHALT "T" PATCH (SP 3/8 PG 58-28) 4" THICK Bid Item No. 127

- A. Measurement will be made by tons (TONS) of HMA placed per project plans and specifications.
- 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 33 05 25,

Pavement Restoration, **32 12 05 SP BITUMINOUS CONCRETE**)

- C. Payment also covers street striping & symbols returned to existing conditions on patched asphalt.
- D. Payment also covers the costs of final sawcutting, “scratching” out the trench and general prep work prior to paving. Anticipated final trench width for milling or sawcut is 4 feet wide.

3.29 2” MILL & OVERLAY (SP 3/8 PG 58-28) Bid Item No. 128

- A. Measurement will be made by tons (TONS) of asphalt placed as part of the 2” overlay.
- B. Payment covers the cost of furnishing all necessary materials, asphalt, tack coat equipment, labor, hauling, placement, and compaction to produce a 2” rotomill and overlay. 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 33 05 25, Pavement Restoration, **32 12 05 SP BITUMINOUS CONCRETE**). Incidental sweeping (street sweeper machine required) is expected to produce a sufficient bond for tack coat application and 2” overlay. Tack coat is required on all milled surfaces.

3.30 ASPHALT PAVING (SP 3/8 PG 58-28) 3” THICK, Bid Item No. 129

- A. Measurement will be made by tons (TONS) of HMA placed per project plans and specifications (for roadway work on Rushton between Quincy and Jackson).
- B. Payment covers the cost of furnishing all necessary materials, asphalt, tack coat equipment, labor, hauling, placement, and compaction to produce an acceptably deep HMA section per Ogden City Standards. 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 33 05 25, Pavement Restoration, **32 12 05 SP BITUMINOUS CONCRETE**)

3.31 8” PVC C-900 DR18 PIPE, Bid Item No. 130

- 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 (CD14B Tor 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, backfill, 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 or better.

3.32 8" GATE VALVE (CLASS 250), Bid Item No. 131

- 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.).

3.33 EXISTING WATER MAIN CONNECTION, Bid Item No. 132

- 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.

3.34 CONNECT TO EXISTING TAP & CAP EXISTING LINE, Bid Item No. 133

- A. Measurement shall be made per each (EA) connection made to the tapped 12” main on Quincy.
- B. Payment shall be made at the unit price bid and shall include all labor, materials, tools, and equipment to provide the work to schedule the required shutdown and work for the water department to tap the existing 12” main with an 8” connection.
- C. Payment shall include all Labor to perform work and materials including 4” cap & MJ plug on existing tee (per plans), 12x8 tapping saddle, and 8” sleeve/coupler. Payment includes all excavation and backfilling/compaction (including import backfill

materials).

- D. Payment shall include scheduling the shutdown with the Water Department and providing 48 hour written notifications to each impacted resident.
- E. Payment for the tapping valve/collar shall be paid for as part of bid item 131 – 8” Gate Valve.

3.35 SEWER LATERAL (928) & MAIN REPLACEMENT, Bid Item No. 134

- A. Measurement shall be made on a lump sum (LS) basis for all the sewer work as called out in the plans for 928 Rushton.
- B. Payment shall be made at the unit price bid and shall include all labor, materials, tools, and equipment to remove the existing sanitary sewer main and replace (at least 1 full length green 8” SDR 35 sanitary sewer stick) with fernco connections to existing main; cap and abandon existing sewer lateral; furnish and installing new sewer lateral (SDR 35 green) with wyes, bends, fittings, etc...; and connection to existing sewer lateral service as shown in the plans. Incidental to this work is all excavation, import bedding/backfill according to Ogden City Standards with import sewer rock and backfill properly compacted.
- C. Payment shall also include all labor, materials, tools, and equipment required to install sewer lateral cleanout with Christy box behind sidewalk per Ogden City Standards.
- D. Payment covers all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.36 INSTALL NEW FIRE HYDRANT ASSEMBLY, Bid Item No. 135

- 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; 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).

- E. Payment covers all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.37 1" AWWA C901 SERVICE LATERAL, Bid Item No. 136

- 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 and backfill, disturbed concrete repair and disposal, the new water lateral CTS Poly piping, 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, service tapping and tap saddles, corp. stops, 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, backfill material, placement, compaction (in 8" max lifts), and landscape restoration required to install the service line will be paid for under this bid item. (Refer to Section 33 12 33, Water Meter).
- C. Service Saddles shall be nylon coated with double stainless steel straps
- D. Corp stops shall be either Mueller or Ford with T-cap adaptors.

3.38 1" WATER METER ASSEMBLY, Bid Item No. 137

- 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; restoration of all landscaping; 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" with one 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. New meters can be purchased from Ogden City Water Department if necessary. 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 **HHCA**34-444-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 all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.39 LANDSCAPING, Bid Item No. 138

- A. Measurement will be made on a lump sum (LS).
- B. Payment covers all tools, labor, materials, equipment, and transportation required to restore any additional landscaping (not covered by other bid items) from construction activities including fill slope material, damaged sprinklers, general site grading, top soil, mulch, rock, and/or turf sod for replacing grass.

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