

SECTION 01-20-00

PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Measurement and payment criteria applicable to portions of the Work performed where unit price adjustments are provided.
- B. Defect assessment and non-payment for rejected work.

1.2 AUTHORITY

- A. The Engineer will take all measurements and compute quantities accordingly.
- B. Contractor shall assist Engineer by providing necessary equipment, workers, and survey personnel as required.
- C. Owner or City refers to the City of Alamosa Public Works Department.

1.3 ADJUSTMENT UNIT QUANTITIES SPECIFIED

- A. All estimated quantities stipulated in the Bid Form or other contract Documents are approximate and are to be used only as a basis for estimating the probable cost of the Work and for the purpose of comparing the bids submitted for the Work. The actual amounts of the work done, and materials furnished under unit price items may differ from the estimated quantities.
- B. The basis of payment for work and materials will be the actual amount of work done and materials furnished. Contractor agrees to make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of work actually performed and materials actually furnished and the estimated amounts thereof.
- C. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine final payment. The Contractor must seek written permission from the City before commencing any work which will bring the actual amount of work done over the estimated amount for each bid item.
- D. If the actual Work requires more or fewer quantities than those quantities indicated in the estimated amounts, Contractor will provide the required quantities at the unit prices contracted.

- E. Final payment on the contract will not be authorized until all required submittals are made and approved.

1.4 MEASUREMENT OF QUANTITIES

A. Measurement Devices:

1. Weigh Scales: Inspected, tested and certified by the State of Colorado Department of Agriculture within the past year.
2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
3. Metering Devices: Inspected, tested and certified by the applicable State Department within the past year.

B. Measurement by Weight: Measured by actual scale ticket weight for specific items identified.

C. Measurement by Volume: Measured by actual area and depth of in place material.

D. Measurement by Area: measured by square dimension using mean length and width or radius.

E. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.

F. Stipulated Sum/Price Measurement: Items measured by weight, volume, area or linear means or combination, as appropriate, as a completed item or unit of the Work.

1.5 PAYMENT

A. The Total Contract Cost shall cover all Work required by the Contract Documents. All costs in connection with the proper and successful completion of the Work, including furnishing all materials, equipment, supplies and appurtenances; providing all construction plant, equipment, and tools; and performing all necessary labor and supervision to fully complete the Work, shall be included in the unit prices bid.

B. All Work not specifically set forth as a pay item in the Bid Form shall be considered a subsidiary obligation of the Contractor and all costs in connection therewith shall be included in the prices bid.

C. Payment Includes: Full compensation for all required labor, products, tools, equipment, transportation, services and incidentals; erection, application or

installation of an item of Work; acceptance testing; clean-up and restoration; overhead and profit.

- D. Final payment for Work governed by unit prices will be made based on the actual measurements and quantities accepted by the City multiplied by the unit sum/price for Work which is incorporated in or made necessary by the Work.

1.6 DEFECT ASSESSMENT

- A. Contractor shall replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the City, it is not practical to remove and replace the defective Work, the City will direct one of the following remedies:
 - 1. The defective Work may remain, but the unit sum/price will be adjusted to a new sum/price at the discretion of the City.
 - 2. The defective Work will be partially repaired to the instructions of the City, and the unit sum/price will be adjusted to a new sum/price at the discretion of the City.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage sum/price reduction.
- D. The authority of the City to assess the defect and identify payment adjustment is final.

1.7 NON-PAYMENT FOR REJECTED PRODUCTS

- A. Payment will not be made for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from the transporting vehicle.
 - 4. Products placed beyond the lines and levels of the Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected products.

1.8 SCHEDULE UNIT PRICES

The unit prices shall encompass all work required to complete the Work in accordance with the drawings and specifications and the limits on quantities of certain items of work, as follows:

BID ITEM DESCRIPTION

1. **MOBILIZATION AND BONDING:** This bid item shall include all costs for bonds including performance bond and payment bond; insurance, establishing temporary facilities, as required, moving construction equipment and materials to and from the site, and all appurtenances related to the work not otherwise specifically called out. The pay item is one (1) lump sum, with 50% to be withheld until completion and acceptance of the work.
2. **UNCLASSIFIED EXCAVATION AND HAUL:** This bid item shall include all costs associated with the excavation, haul, placement, compaction and final shaping of the subgrade earthwork as shown on the plans. This bid item includes all equipment, labor supervision, final grading, shaping necessary to complete the sub grade earthwork in accordance with the plans and specifications. The calculated in place volume is 5315 cy of excavation however this is a lump sum pay item and the contractor shall make his own determination of the excavation quantities. By submitting a bid, the prospective contractor accepts the lump sum pay item for all subgrade earthwork shown on the plans and as required for final grading and shaping to match structures and the lines and grades shown on the plans. This work includes all excavation to subgrade of existing retention ponds on each side of Craft Drive and includes haul across Craft Drive to fill the parking and play ground area on the west side of Craft Drive. This also includes haul and stockpile to a site near the intersection of West 6th Street and Adcock Drive on the CRHDC Phase 6 subdivision of any excess material that is not used in the development of the park subgrade. The pay item is Lump Sum.
3. **MIRIFI 1100N NON-WOVEN GEOTEXTILE FABRIC (INSTALLED):** The unit cost bid per square yard of installed Mirifi 1100N Non-Woven Geotextile Fabric includes but is not limited to the purchase and freight of all materials, the installation in accordance with manufactures instructions at all locations shown on the plans and details. This Geotextile Fabric is to completely wrap the potato rock installation and is to be placed under the gravel road base for the parking lot on the west side of Craft Drive. The unit cost pay item is one Square Yard of finished in place fabric surface and does not include overlap as may be required by the manufacturer's instructions.
 - 3 A. **MIRIFI 1100N NON-WOVEN GEOTEXTILE FABRIC (Deliver to the City Only):** The unit cost bid per square yard of delivered Mirifi 1100N Non-Woven Geotextile Fabric includes but is not limited to the purchase and freight of all materials. The unit cost pay item is one Square Yard of delivered fabric surface and all coordination with the City for delivery location and for unloading as directed by the City.
4. **POTATO ROCK:** The unit cost bid for potato rock includes purchase and freight of all materials, equipment, haul, placement, labor, supervision and all incidentals required to supply and install the potato rock in accordance with the

plans and specifications. The potato rock shall be cleaned over a screen and shall be 8” minus material as approved by the Engineer. Prior to hauling any of the potato rock on site, the contractor shall provide two 5-gallon buckets of the proposed material to the Engineer for verification that the installed potato rock will have a minimum of 40% voids. The unit cost pay item is one Cubic Yard as measured in place.

5. **TENSAR TX 160 GEO-GRID:** The unit cost bid per square yard of installed Tensar TX 160 Geo-Grid includes but is not limited to purchase and freight of all materials, the installation of the Geo Grid in accordance with manufacturer’s instructions at all locations shown on the plans and details. The unit cost pay item is one Square Yard of finished in place geo-grid surface and does not include overlap as may be required by the manufacturer’s instructions.
6. **BASE COURSE (INSTALLED):** The unit cost bid for Base Course (Installed) includes but is not limited to the purchase and freight of all materials, equipment, haul, placement, compaction, water, labor, supervision and all incidentals required to supply and install the base course in accordance with the plans and specifications. The material shall meet CDOT Class 5 or Class 6 Aggregate Base Course specifications. The unit cost pay item is one Ton.
 - 6 A. **BASE COURSE (STOCKPILE ONLY):** The unit cost bid for Base Course (Stockpile Only) includes but is not limited to the purchase and freight of all materials, equipment, haul, and stockpile of base course at a location near the parking lot along the west side of Craft Drive , labor, supervision and all incidentals required to supply and stockpile the base course in accordance with the plans and specifications. The material shall meet CDOT Class 5 or Class 6 Aggregate Base Course specifications. The unit cost pay item is one Ton of delivered and stockpiled base course.
7. **TOP SOIL (Stockpile Only):** The unit cost bid for Top Soil includes purchase and freight of all materials, equipment, haul, placement, labor, supervision and all incidentals required to supply and stockpile the top soil at various locations on site as directed by the City. The Top Soil shall be suitable for planting lawn grass, flowers, other landscaping plants. Prior to hauling any topsoil to the site, the contractor shall provide a sample of the proposed material to the City for approval. The Contractor shall only deliver City approved material to the site. The unit cost pay item is one Cubic Yard of delivered and stockpiled topsoil.
8. **CRUSHER FINES:** The unit cost bid for Crusher Fines includes purchase and freight of all materials, equipment, haul, placement, compaction, labor, supervision and all incidentals required to supply and install the crusher fines in accordance with the plans and specifications. The unit cost pay item is one Cubic Yard.

9. **CDOT CLASS B FILTER MATERIAL:** The unit cost bid for CDOT Class B Filter Material includes purchase and freight of all materials, equipment, haul, placement, compaction, water, labor, supervision and all incidentals required to supply and install filter material around the perforated pipes in accordance with the plans, details and specifications. The unit cost pay item is one Ton.
10. **TRAIL EDGING (10' STICKS):** The unit cost bid per each Trail Edging (10' stick) includes but is not limited to purchase and freight of all materials, trenching, installation, labor, supervision and all incidental items required to complete the installation of trail edging in accordance with the plans and specifications. The unit cost pay item is Each.
11. **5' WIDE x 4" THICK CONCRETE WALK:** The unit cost bid per lineal foot of installed 4" thick concrete walk includes but is not limited to all materials, bedding, installation, labor, supervision and all incidental items required to complete the sidewalk installation in accordance with the plans and specifications. The unit cost pay item is one Lineal Foot.
12. **ADA Access Ramp Type 2B:** The unit cost bid per each ADA Access Ramp, Type 2B includes but is not limited to purchase and freight of all materials, installation, labor, supervision and all incidental items required to complete the installation of the Access Ramp in accordance with the plans, details, and specifications. The unit cost pay item Each.
13. **6" DIAMETER SEWER SERVICE:** The unit cost bid per lineal foot of installed 6 inch diameter SDR 35 sewer pipe includes but is not limited to the purchase and freight of all materials, excavation for pipe, trenching, installation, bedding with select and approved onsite material excavated from the trench, backfill, compaction, connection to structures, labor, supervision and all incidental items required to complete the installation of the sewer service in accordance with the plans, details and specifications. The unit cost pay item is one Lineal Foot.
14. **2" DIAMETER SCH 80 PVC WATER SERVICE:** The unit cost bid per lineal foot of installed SCH 80 PVC pipe includes but is not limited to purchase and freight of all materials, trenching, installation ,excavation for pipe, bedding with select and approved onsite material excavated from the trench, backfill, compaction, connection to structures, miscellaneous pipe fittings, labor, supervision and all incidental items required to complete the potable water service installation in accordance with the plans, details and specifications. The pipe material shall be SCH 80 pipe approved for NFS 61 application suitable for potable water. The unit cost pay item is one Lineal Foot.

15. **12" DIAMETER PERFORATED ADS N-12 STORM DRAIN PIPE:** The unit cost bid per lineal foot of installed perforated storm drain pipe includes but is not limited to the purchase and freight of all materials, excavation for pipe, trenching, installation, backfill, compaction, connection to structures, labor, supervision and all incidental items required to complete the pipe installation in accordance with the plans, details, and specifications. The unit cost pay item is one Lineal Foot.
16. **DEWATERING:** The unit cost bid per day of dewatering includes but is not limited to the design of the dewatering system, installation of all dewatering points, pumps, materials, labor, equipment, supervision necessary to design, install, operate, monitor, maintain and remove a temporary dewatering system as necessary to lower and control water levels below subgrades of pipe, subgrade earthwork, and structure excavations.
- The Contractor shall execute the work in this project in a manner which minimizes the required dewatering. The Contractor shall bring a tentative schedule for pipe installation with anticipated dewatering requirements to the pre-construction conference. All dewatering must be approved by the City prior to implementation. The unit cost pay item is one 24-hour Day.
17. **STORM DRAIN MANHOLE (MH#2- MH#5):** The unit cost bid per each installed storm drain manhole includes but is not limited to purchase and freight of all materials, subgrade preparation, excavation, backfill, manhole base, barrel sections, ring and cover, manhole top, compaction, labor, grouting and all other incidental items required to install each manhole in accordance with the plans, details and specifications. The unit cost pay item is one Each.
18. **STORM DRAIN MANHOLE (#1-SPECIAL) :** The lump sum cost for storm drain manhole #1 special, includes but is not limited to purchase and freight of all materials, subgrade preparation, excavation, backfill, manhole base, barrel sections, ring and cover, manhole top, compaction, labor, grouting, weir, concrete wall, orifice plate, slide gate, and all other incidental items required to install the manhole in accordance with the plans, details and specifications. The pay item is Lump Sum.
19. **STORM DRAIN INLET:** The unit cost bid per each installed storm drain inlet includes but is not limited to purchase and freight of all materials, subgrade preparation, excavation, backfill, compaction, labor, pipe fittings, grate, pipe fittings, grouting, 3' minimum of 6" curb with 18" pan on each side of inlet and adjacent to concrete walk, and all other incidental items required to install each inlet in accordance with the plans, details, and specifications. The unit cost pay item one Each.
20. **SEDIMENT CONTROL STRUCTURE:** The unit cost bid per each installed sediment control structure includes but is not limited to purchase and freight of all

materials, subgrade preparation, excavation, compaction, labor, grouting, concrete pan and curb, and all other incidental items required to install each sediment control structure in accordance with the plans, details and specifications. Include the cost of installing 10 lf of 15" ADS N-12 pipe for Sediment Controls Structure No. 2 The unit cost pay item is one Each.

21. **BASKETBALL COURT (5" X 90' X 56')**: The basketball court includes but is not limited to purchase and freight of all materials, subgrade preparation, excavation, labor, forming, WWM reinforcement, thickened edge with reinforcement, brush finish on concrete, supervision, coordination with the City for installation of sleeve for goals, (goals will be installed by city forces), and all other incidental items required to install the basketball court in accordance with the plans, details and specifications. The pay item is Lump Sum.
22. **PUBLIC RESTROOM BUILDING**: The Public Restroom Building includes all building construction, foundation, facilities, sinks, piping, plumbing, lighting, electrical within the building to and including the dis-connect, windows, finishes, vents, trusses, ceiling insulation doors, CMU walls, concrete slab, and all incidentals required to provide a complete public restroom facility. The City will be responsible for providing the electrical service to the building. The pay item is Lump Sum.
23. **BOULDERS AND LARGE LANDSCAPE ROCK**: The contractor shall furnish 2-foot to 4-foot diameter angular boulders similar in appearance, color, type and approximate size, to the site. Coordinate with the City for stockpile location at the site. The boulders shall show no visible evidence of drilling, scrapes, large flakes, or cracks. The contractor shall provide a sample of the proposed boulders to the site for approval by the City prior to furnishing all the boulders and landscape rock for this bid item. The final placement of the boulders shall be completed by City forces. The unit cost pay item is one Ton.
24. **C900 PVC PIPE**: The unit cost bid per lineal foot of installed C900 PVC pipe includes but is not limited to the purchase and freight of all materials, excavation for pipe, trenching, installation, backfill, compaction, connection to structures, labor, supervision and all incidental items required to complete the pipe installation in accordance with the plans, details, and specifications. The unit cost pay item is one Lineal Foot.
25. **CRAFT AVE. STORM DRAIN CROSSING**: The lump sum cost bid for the Craft Ave. Storm Drain Crossing includes but is not limited to the purchase and freight of all materials, excavation, trenching, SDR 35 PVC Sewer Pipe, pipe installation, backfill, compaction, asphalt patch, labor, supervision, and all incidental items required install the storm drain pipe and repair the roadway

surface to match the existing asphalt roadway in accordance with the plans, details and specifications. The pay item is Lump Sum.

26. **LOWERING EXISTING WATER MAIN:** The unit cost bid for each required water main lowering includes but is not limited to the purchase and freight of all materials, fittings, excavation, trenching, backfill, compaction, restraints, labor, supervision and all incidental items required to lower the existing water main below the storm drain pipe. The unit cost pay item is Each.