

AMENDMENT No. A001

TO PROSPECTIVE BIDDERS FOR

THE COUNTY OF EL PASO
TORNILLO DETENTION POND IMPROVEMENTS
BID No. 20-043

ALL AMENDMENTS **MUST** BE ACKNOWLEDGED ON THE “**SOLICITATION OF OFFERS**”. FAILURE TO DO SO MAY BE CAUSE FOR REJECTION OF OFFER.

October 7, 2020



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CLARIFICATIONS

I. **SPECIFICATIONS:**

- A. **DELETE** specification section 00 00 01 Table of Contents and **REPLACE** with the attached revised specification section 00 00 01.
- B. **DELETE** specification section 01 20 00 Price and Payment Procedures and **REPLACE** with the attached revised specification section 01 20 00.
- C. **DELETE** specification section 31 37 00 Riprap and **REPLACE** with the attached revised specification section 31 37 00.
- D. **INCLUDE** new specification section 32 11 23 Aggregate Base Course.

- END OF AMENDMENT -



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SECTION 01 20 00

PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Schedule of Values.
- B. Applications for Payment.
- C. Change procedures.
- D. Defect assessment.
- E. Unit prices.

1.2 SCHEDULE OF VALUES

- A. Contractor shall submit a schedule of values as per the technical specifications. Schedule of values shall be submitted prior to the first Application of Payment.

1.3 APPLICATIONS FOR PAYMENT

- A. Submit five copies of each application on Owner's Standard Form.
- B. Content and Format: Utilize bid proposal for listing items in Application for Payment.
- C. Submit updated monthly construction schedule with each Application for Payment.
- D. Payment Period: Submit at intervals stipulated in the Agreement.
- E. Submit with transmittal letter as specified for Submittals in Section 01 33 00 - Submittal Procedures.

1.4 CHANGE PROCEDURES

- A. Submittals: Submit name of individual authorized to receive change documents and be responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
- B. The Engineer/Owner will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions.
- C. The Engineer/Owner may issue a Notice of Change including a detailed description of proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change and the period of time during which the requested price will be considered valid. Contractor will prepare and submit estimate within 5-days.
- D. Stipulated Sum/Price Change Order: Based on Notice of Change and Contractor's estimated price quotation as approved by Engineer/Owner.



- E. Force Account Change Order: Submit itemized account and supporting data after completion of change, within time limits indicated in Conditions of the Contract. Engineer/Owner will determine change allowable in Contract Sum/Price and Contract Time as provided in Contract Documents.
- F. Maintain detailed records of work done on Force Account basis. Provide full information required for evaluation of proposed changes, and to substantiate costs for changes in the Work.
- G. Document each quotation for change in cost or time with sufficient data to allow evaluation of quotation.
- H. Execution of Change Orders: Engineer/Owner will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
- I. Correlation of Contractor Submittals:
 - 1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
 - 2. Promptly revise progress schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
 - 3. Promptly enter changes in Project Record Documents.

1.5 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Engineer/Owner, it is not practical to remove and replace the Work, the Engineer/Owner will direct appropriate remedy or adjust payment.
- C. The defective Work may remain, but unit sum/price will be adjusted to new sum/price at discretion of Engineer/Owner.
- D. Defective Work will be partially repaired to instructions of Engineer/Owner, and unit sum/price will be adjusted to new sum/price at discretion of Engineer/Owner.
- E. Individual specification sections may modify these options or may identify specific formula or percentage sum/price reduction.
- F. Authority of Engineer/Owner to assess defects and identify payment adjustments is final.
- G. Non-Payment for Rejected Products: Payment will not be made for rejected products 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 transporting vehicle.



4. Products placed beyond lines and levels of required Work.
5. Products remaining on hand after completion of the Work.
6. Loading, hauling, and disposing of rejected products.

1.6 LUMP SUM BID

- A. Payment shall include: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services and incidentals; erection, application or installation of item of the Work; overhead and profit.
- B. Provisions for Earthwork Items: Contractor shall submit certified earthwork volume quantities along with the corresponding monthly pay application. Earthwork quantities shall be certified by a Professional Registered Land Surveyor (RPLS) registered in the State of Texas. Refer to Section 01 30 00 – Administrative Requirements.

1.

1.7 PAYMENT PROCEDURES

1. Implementation of storm water pollution prevention best management practices including: furnishing and installing silt fence, construction entrances/exits and removing and properly disposing of silt fence and construction entrances/exits after completion of work. Performing site clearing and grubbing, demolition, removal and proper disposal of miscellaneous existing items including: concrete sidewalk, curbs, driveways, reinforced concrete, concrete headwalls, and other incidentals to allow for the new construction; items to be removed as per plan. Implementation of drainage improvements including: excavation and proper disposal of unclassified material, embankment, furnishing and installing 6” to 8” angular rock riprap, reinforced concrete flume structures, concrete baffle block dissipator structures, flexible base material (Type A Grade 3), scarified – moisture conditioned and compacted suitable native soils, and concrete spillways. Also furnishing and installing miscellaneous items such as: rockwalls, retaining rockwalls, wrought iron gates, wrought iron fence, pond depth gauge, 6” reinforced concrete driveway, and new warning signs. The project description, as shown above, is only a general overview of the project. Contractor shall refer to the project plans, contract documents, and technical specifications for further detailed information.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION



SECTION 31 37 00

RIPRAP

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Riprap placed loose.
 - 2. Riprap placed in bags.

- B. Related Sections:
 - 1. Section 31 05 16 - Aggregates for Earthwork.
 - 2. Section 31 22 13 - Rough Grading.
 - 3. Section 31 23 16 - Excavation: Excavating for riprap.
 - 4. Section 31 23 17 – Trenching.
 - 5. Section 31 23 23 - Fill.

1.02 UNIT PRICE - MEASUREMENT AND PAYMENT

- A. Riprap:
 - 1. Basis of Measurement: By square yard of riprap area; summing areas of individual layers, of riprap sacks.
 - 2. Basis of Payment: Includes supply and placing riprap mix in sacks, moist cured.

1.03 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.
- B. Product Data: Submit data for riprap bags, binder and geotextile fabric.
- C. Samples: Submit, in air-tight containers, 10 lb. sample of riprap aggregate materials to testing laboratory.
- D. Manufacturer's Certificate: Certify Products meet or exceed specified requirements.

1.04 QUALITY ASSURANCE

- A. Furnish each aggregate material from single source throughout the Work.
- B. Perform Work in accordance with State Municipality of Highways Public Work's standard.
- C. Maintain one copy copies of each document on site.



PART 2 PRODUCTS

2.01 MATERIALS

- A. Riprap: Granite Limestone type; broken stone angular shaped rock; solid and nonfriable; 6-inch minimum size, 8-inch maximum size;
- B. Or placed shotcrete;
- C. Or Riprap: Dumped rubble; solid and nonfriable; 6-inch minimum size, 8-inch maximum size;
- D. Bags: Woven jute Geotextile fabric.
- E. Binder: Portland cement Lime.
- F. Geotextile Fabric: Non-biodegradable, woven non-woven; manufactured by.

2.02 BAGGED RIPRAP

- A. Mix riprap, cement, sand and aggregate dry.
 - 1. Cement: Maximum 10 percent of dry mixed materials by volume.
- B. Fill bags with dry ingredients to 70 percent capacity and close by sewing or stapling to straight seam.

PART 3 EXECUTION

3.01 EXAMINATION

- A. *Section 01 30 00 - Administrative Requirements:* Verification of existing conditions before starting work.
- B. Do not place riprap bags over frozen or spongy subgrade surfaces.

3.02 PLACEMENT

- A. Place geotextile fabric over substrate, lap edges and ends.
- B. Place riprap at culvert pipe ends, at embankment slopes, and as indicated on Drawings.
- C. Place bags into position. Knead, ram, or pack filled bags to conform to contour of adjacent material and other bags previously placed.
- D. Place bags in staggered pattern. Remove foreign matter from bag surfaces.
- E. Installed Thickness: As scheduled in this section. As indicated on Drawings.



F. Place rock evenly and carefully over bagged riprap to minimize voids, do not tear bag fabric, place bags and rock in one consistent operation to preclude disturbance or displacement of substrate.

1.

G. After placement, spray with water to moisten bagged mix. Keep bagged mix moist for 24 hours.

3.03 SCHEDULES

A. Sloped Grade at Retaining Wall: Individual riprap units, 12 inch thickness; placed prior to finish topsoil.

END OF SECTION



1.

SECTION 32 11 23
AGGREGATE BASE COURSE

PART 1 GENERAL

1.1 SCOPE OF WORK

- A. Furnish all tools, qualified labor, materials, equipment, qualified superintendence and all services, transportation, other incidentals, assurances and guarantees, assumptions of risk, and responsibility for the performance of all aggregate base course work as indicated on the Construction Drawings. Complete work as specified herein.

1.2 SECTION INCLUDES

- A. Aggregate base course.
B. Aggregate subbase.
C. Prime coat.

1.3 RELATED SECTIONS

- A. Section 31 22 13 – Rough Grading.
B. Section 31 23 23 – Select Fill.
C. Section 32 12 16 – Asphalt Paving.
D. Section 32 13 13 – Concrete Flatwork.

1.4 REFERENCES

- A. American Association of State Highway and Transportation Officials (AASHTO):
1. AASHTO M288 - Standard Specification for Geotextile Specification for Highway Applications.
2. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 10-lb Rammer and an 18-in. Drop.
3. AASHTO T210 – Standard Method of Test for Aggregate Durability Index.
B. American Society of Testing Materials International (ASTM):
1. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³).
2. ASTM D1556 - Standard Test Method for Density of Soil in Place by the Sand-Cone Method.
3. ASTM D1557 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³).
4. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.



5. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
6. ASTM D2940 - Standard Specification for Graded Aggregate Material for Bases or Subbases for Highways or Airports.
7. ASTM D3017 - Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).
8. ASTM C88 – Test of Soundness of Aggregate Using Sodium Sulfate or Magnesium Sulfate.
9. ASTM C131 – Standard Test Methods for Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

1.5 SUBMITTALS

- A. Refer to *Section 01 33 00 – Submittal Procedures*.
- B. Product Data: Submit aggregate gradation, prime coat data as specified and herbicide data (if required).
- C. Materials Source: Submit name of aggregate materials suppliers.
- D. Manufacturer’s Certificate: Certify products meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

- A. Furnish each aggregate material from single source throughout the Work.
- B. Perform Work in accordance with City of El Paso Standards.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. In-place cement treated subgrade material conforming to ASTM D-1557.
- B. Prime coat shall be a MC-30, AE-P, EAP&T, or PCE conforming to TxDOT Standard Specifications 2014, Item 310 – Prime Coat or Item 314 – Emulsified Asphalt Treatment as well as Item 300 – Asphalts, Oils or Emulsions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify compacted subgrade is dry and ready to support paving and imposed loads.



1. Remove soft subgrade and replace with compacted select fill as specified in *Section 31 23 23 – Select Fill*.

- B. Verify subgrade has been inspected, gradients and elevations are correct.

3.2 PREPARATION

- A. Correct irregularities in subgrade gradient and elevation by scarifying, reshaping, and re-compacting.
- B. Do not place select fill on soft, muddy, or frozen surfaces.

3.3 AGGREGATE PLACEMENT

- A. Flexible base course shall be placed in lifts with a maximum thickness of 8-inches and compacted to a minimum 100 percent of the maximum dry density at a moisture content range 2 percentage points below and 2 percentage points above the optimum moisture content as determined by ASTM D-1557.
- B. Subbase material shall be placed in loose layers not exceeding 8 inches in thickness and compacted to a minimum of 95 percent of its maximum dry density at a moisture content as determined by ASTM D1557. Recycled Asphalt Pavement (RAP) obtained from existing pavement areas may also be used as subbase material.
- C. Level and contour surfaces to elevations, profiles, and gradients indicated.
- D. Add small quantities of fine aggregate to coarse aggregate when required to assist compaction.
- E. Maintain optimum moisture content of fill materials to attain specified compaction density.
- F. Use mechanical tamping equipment in areas inaccessible to compaction equipment.

3.4 PRIME COAT PLACEMENT

- A. Apply prime coat in accordance with manufacturer's instructions and in accordance to City of El Paso Standards.
- B. Prime coat application rates are typically between 0.1 to 0.3 gal/sy and are generally dependent upon the absorption rate of the granular base and other environmental conditions at the time of placement.
- C. Apply primer to contact surfaces of curbs, gutters, and site structures.
- D. Use clean sand to blot excess prime coat.



3.5 TOLERANCE

- A. Maximum Variation from Flat Surface: 1/4 inch measured with 10-foot straight edge.
- B. Maximum Variation from Thickness: 1/4 inch.
- C. Maximum Variation from Elevation: 1/2 inch.

3.6 FIELD QUALITY CONTROL

- A. Compaction testing will be performed in accordance with ASTM D1557.
- B. When tests indicate Work does not meet specified requirements, remove Work, replace and retest.
- C. Frequency of Tests: One test for every 1000 square yards of each layer of compacted aggregate.

Table 3.6.1 – Quality Control for Aggregate Base Courses

Test Type	Applicable Standard
At least one (1) Laboratory Compaction Characteristics of Soil using Modified Effort (Proctor) for each type of material encountered or import material used.	ASTM D 1557 and/or ASTM D 698
At least one (1) Soil Classification (Sieve Analysis and Atterberg Limits Test) for each type of material encountered or import material used. NOTE: Additional soil classification shall be requested by the general contractor during the earthwork operations to further evaluate that the fill materials are maintained within the specified requirements for the applicable fill soil material.	ASTM D 6938 And/or ASTM D 4318
A minimum of one (1) density test for every 2,500 square feet of each aggregate compacted layer.	ASTM D 1556 and/or ASTM D 6938

END OF SECTION