

TRAIL PAY QUANTITY NOTES

- Contractor shall not waste excess cut material without the approval of the Engineer. Contractor shall take care not to impede any of the drainage structures along the rail ballast with excess cut material. All culvert locations shall be marked and left undisturbed. Do not backfill into drainage flowlines.
- All concrete, tactile warning devices, curb returns and items associated with trail ramp construction as shown in the details shall not be paid for separately but included in the cost for 610(A) - 6" Concrete Sidewalk.
- Includes but is not limited to the removal of the existing steel gate and all associated materials sta. 615+57.96. Damage to remaining fence posts or utilities as a result of removal work shall be repaired at the contractor's expense. Remove steel gate leaving end posts in place and undamaged. Removal of existing steel gate shall be considered incidental to the cost of earthwork and will not be paid for as a separate item.
- Unit price includes the cost of full-depth saw-cutting. Removal of aggregate base associated with the existing paving shall be considered incidental and included in the unit price bid.
- Resulting holes and low areas shall be filled with material approved by the engineer. Finished grades shall allow for positive drainage away from removal area. Includes all incidentals.
- Contractor shall utilize limestone screenings in lieu of salvaged topsoil to backfill the shoulders of the trail along the rail ballast sta. 530+00 - sta. 616+34.86. The cost of the limestone screenings shoulder shall not be paid for separately but shall be included in the unit price bid for aggregate base type 'a'. Refer to summary of surfaces for quantity.
- Refer to the details for concrete split rail fence. Unit price bid includes cost of footings, hardware and all incidentals to construct the fence as shown in the plans and details. Unit price bid includes the cost to fully construct the concrete split rail fence columns at each end of the fence as shown in the details. The (4) columns will not be paid for separately but included in the cost for 624 - (PL) Ornamental Fence.
- Brush Hogging shall consist of cutting all underbrush vegetation to a maximum height of 6", 25' each side of the trail edge. Shall be performed using a boom mounted brush hog to minimize disturbance to the existing ground. Includes the removal of vegetation as directed by engineer. Any disturbed area outside the limits of construction will be revegetated at the expense of the contractor.
- The contractor will be responsible for all horizontal and vertical construction staking. Contractor shall preserve survey stakes and bench marks and reset if damaged lost or removed.
- Price bid shall include all materials, equipment, labor & incidentals required to complete the work as shown in the plans and details. Associated items listed on drawings and not included as a separate pay quantity shall be considered incidental and the cost shall be included in the price bid for this item. Refer to Lighting Plan sheet and the plan and profile sheets for enhancement lighting locations along the trail north of Hwy 20. The City of Skiatook will provide the power to the trail lighting cabinet location. Contractor shall be responsible for providing 30LF of conduit and pull wire to the pull box where the City will provide electrical service. Placement of pull box will be determined by Brad White, Public Works Director, City of Skiatook.
- Location of footing to be 3' from edge of trail to center of footing unless otherwise noted in the lighting summary. Engineer shall approve all light locations prior to drilling. Includes the cost of concrete, rebar, anchor bolts, nuts, washers, conduit and copper ground wire and any incidentals as shown on the plans and details. Refer to ODOT traffic standard drawing GMF1-1 for footing details (GMF24x60).
- Includes construction of new concrete footings or other concrete appurtenances for relocated items as needed. Before reinstalling removed traffic items, inspect, repair damage, clean and install a new luminaire of the original size and type if resetting light poles. Includes energizing and testing equipment after resetting in accordance with Section 801 of the ODOT 2009 Standard Specifications - Performance and Operational Tests for Highway Lighting and Traffic. Provide acceptable test results to the engineer for approval.
- Price bid shall include inline fuse and holder (with insulator boots), one per phase conductor located in pole handhole and all other items as shown in the details, required by code, and as necessary for complete and proper operation of the electrical systems. Install equipment per code and manufacturer's written instruction. Refer to Lighting Sheet (1) for electrical control panel layout and supplemental details. All electrical work must be performed by a licensed electrician. Includes the cost and incidentals to fully complete all electrical wiring.
- Includes the cost of all electrical wiring, connectors, fuses, splices, taps, and all incidentals to complete the electrical system as provided on plans and details.
- All wiring and electric control panel work shall be performed by a licensed electrician.
- Symbols and sign locations are diagrammatic only and locations shall be adjusted for existing field conditions as necessary. Sign and symbol locations shall be marked and approved in the field prior to permanent installation.
- Unit Price Bid shall be full compensation for furnishing all materials, equipment, labor & incidentals required to complete the work as shown in the plans and details.
- Traffic stripe (multi-polymer): provide and place white or yellow stripes, arrows, words or symbols with reflective glass beads applied by the drop-on method. Provide materials in accordance with ODOT Standard Specifications Subsection 711.05, "Glass beads for Traffic Paint, Thermoplastic and Multi-Polymer." Equipment must be capable of producing a clean-cut line, uniformly dimensioned. Equipment must include an automatic bead dispenser that continuously mixes and agitates the pavement marking material. Equipment must uniformly and instantly place the reflective beads on the markings. Unit price bid shall include the cost of surface preparation prior to application of striping.

TRAIL PAY QUANTITY NOTES

- Refer to the general notes and material specifications in ODOT detail PBD1-1.
- Remove the existing pavement markings without damaging the pavement surface or the pavement material texture. Painting over or blotting out the existing pavement markings will not be allowed. If blast cleaning within 10 feet of a lane carrying traffic, remove the residue immediately and concurrently with the blast cleaning operation. Any damage to existing pavement as a result of removal activities shall be repaired as directed by the Engineer at no cost to the City of Claremore.
- Includes the installation of a Holophane Utility Washington Postlite LED 2 (WAUE2) fixture on a 16' aluminum pole for trail lighting. Cost includes providing and installing the fixture and installation of the pole, wiring and assuring the light is completely functional according to code. Includes all materials, labor and incidentals to fully complete the installation. The City of Skiatook will provide the COLORADO aluminum poles for installation; the unit price bid for enhancement lighting shall reflect the installation cost only for the pole.
Poles: (5) Holophane Unique Solutions Colorado Series, 12" dia. Base 16' cast fluted aluminum, 5" dia. Post; model # CO17F512CABKH or pre-approved equal. Color shall be black. Poles shall be provided by Owner.
Fixtures: (5) Holophane Utility Washington Postlite LED 2 (WAUE2) W/ N.E.M.A. PHOTOCELL or pre-approved equal, TYPE III DISTRIBUTION Catalog# WAUE2 P30 30K AS BK 3 4 BK. Contact Sales Representative for Acuity Brands Lighting, Inc. / Holophane Sales Channel - Cory Cornett (918) 970-2527 (office) or (918) 200-3242 (mobile).
- Includes coordination with the City of Skiatook for power to the cabinet/control panel location. Includes all necessary conduit, conductor, all materials, parts and incidentals to provide complete electrical service as shown in the lighting plans and details. Cost for electric control panel include conduit, all materials to install the meter, NEMA 3R Hoffman B-Line stainless steel enclosure, steel tube supports, power panel 240V circuitry, astronomical timer switch, photo cell, 120V receptacle, system override switch, wiring and all other items indicated in the plans. Verify voltages with City Engineer before ordering electrical components. Final location of control panel shall be determined by Brad White, City of Skiatook Public Works Director.
- All excavation and removed materials not used in the project embankment or as backfill around structures shall become the property of the Contractor for disposal. Disposal of excess materials shall be considered incidental to the price bid for excavation.
- Topsoil to be reserved for placement/replacement of approximately 2" on completed foreslopes, ditches and backslopes not considered rail road ballast. Refer to the cut and fill catchlines on the plan and profile sheets for extent of the sodded area.
- Total quantity shown includes an additional 400CY of aggregate base material for contingency purposes along the rail ballast portion of the trail. The contingency amount shall be utilized as directed by the Engineer for ballast replacement in areas where the specified compaction cannot be achieved.
- Contractor shall contact Sales Representative for Acuity Brands Lighting, Inc. / Holophane Sales Channel - Cory Cornett (918) 970-2527 (office) or (918) 200-3242 (mobile) for the anchor bolts, bolt template and for the ordering process for the luminaires associated with the trail enhancement lighting. Lighting conductor is not calculated up the poles. Contractor shall order the necessary length of leads with the luminaire in order to fully complete the wiring.
- Limestone screenings shall be gray in color and shall have the following gradation: 100% passing 3/8" sieve, 89% passing NO. 4 sieve, 59% passing NO. 10 sieve, 35% passing NO. 40 sieve, 16.8% passing NO. 200 sieve. Limestone screenings shall be graded smooth and sloped away from the trail surface at 2% max. Compact screenings to 98% SPD.
- The contractor shall be responsible for meeting all Environmental Protection Agency (EPA) and Oklahoma Department of Environmental Quality (ODEQ) requirements for storm water management for this project. All cost to be included in the unit price bid for this item. The Consultant shall include a Storm Water Pollution Prevention Plan with the plan set and erosion control measures have been included on the demo sheets of the plan set.
- Unit Price Bid is for the patching of asphalt pavement within the crosswalk areas shown on the plans. The pavement within the crosswalk must be ADA compliant without holes, broken or uneven surfaces. All holes and uneven surfaces shall be patched within the crosswalk area as directed by the engineer. Includes all equipment, materials, labor and incidentals to complete the patch work in the areas designated by the engineer. Includes sawcutting and tack coat as required.

EROSION CONTROL PAY QUANTITY NOTES

- R-9 Watering estimated at 40 gallons per square yard of sodding and/or sprigging.
- R-13 Estimated at 200 pounds of 10-20-10 fertilizer per 1000 sq. yds. of sodding and/or sprigging.

TRAFFIC PLANNING AND SAFETY PAY QUANTITY NOTES

- TS-24 Quantity shown includes 0 L.F. traffic stripe (multi-polymer) (white) and 2,348 L.F. traffic stripe (multi-polymer)(yellow) and will be measured by the linear foot of four inch (4") wide traffic stripe.
- TS-28 Quantity shown includes 125 L.F. traffic stripe (multi-polymer)(white) and will be measured by the linear foot of twenty-four inch (24") wide traffic stripe.
- TS-32 The amount shown is an approximation and the actual amount of removal, if necessary, shall be determined by the engineer. Price bid for pavement marking removal (traffic stripe) shall include cost of removal of arrows, words, and symbols. The pavement marking to be removed shall be considered thermoplastic and bid accordingly. During removal of existing striping and replacement with new striping, permanent striping shall be replaced within 48
- TS-33 Included in this pay item is all hardware associated with properly anchoring and mounting the highway sign in accordance with O.D.O.T plans and standard drawings SSA1-1 and SSP1-1-(latest revision).
- TC-25 All construction traffic control will be implemented according to construction plans and installed in a manner approved by the engineer, in accordance with chapter VI of the manual n uniform traffic control devices, (current edition), and compliant with applicable O.D.O.T. Standard drawings. Price bid for this item shall be payment in full for the installation, maintenance and subsequent removal of all necessary construction traffic control devices and pavement markings require for completion of the project. All signs and barricades, which are shown with type 'A' lights in the standard drawings shall have the corresponding light attached during non-daylight hours.
- TP-1 Payment for this item will be based on plan quantity. See the 2009 specifications for highway construction.
- TR-1 Pay item includes 3 wheelchair ramps. Curb removal, sawing pavement and all other miscellaneous work needed to complete the ramp installation shall be included in the bid price.
- TL-3 Underground utility marking tape shall be used as specified on Standard CCD-1 (latest revision). The cost of the underground marking tape shall be paid for in this item of work.
- TL-7 The contractor shall install a pull line in all conduit for future installation of electrical conductors. Material shall be polyester tape or rope, galvanized steel wire, or any other approved material that has a minimum breaking strength of 1250 lbs. The contractor shall be responsible for securing the pull line at each end to prevent debris from plugging the conduit. Installation, capping and securing procedures shall be approved by the Engineer and City of Skiatook electrical inspector. The cost of all material, labor and incidentals necessary to complete this work shall be included in this item of work.

ENVIRONMENTAL MITIGATION NOTES

The contractor shall be familiar with the American Burying Beetle (ABB) to insure compliance with the Endangered Species Act. The American burying beetle is a large carrion burying beetle that occurs within the project area. No artificial lighting shall be used during construction. Carcasses and all food trash shall be removed from the permanent and temporary ROW throughout project activities. Following construction, 5 inches of topsoil shall be placed on top of all areas of ground disturbance, prior to re-vegetation.

The contractor shall be familiar with the northern long-eared bat to insure compliance with the Endangered Species Act. The northern long-eared bat is a threatened species that occurs within the project's action area. In order to minimize adverse impacts to the species, the removal of trees and shrubs shall be restricted to areas within the actual limits of construction (toe of slope/top of cut). The Resident Engineer shall install bright-colored flagging/fencing to indicate trees that are not to be removed and ensure limits of tree removal are visibly and clearly defined for the contractor.

In order to avoid and minimize adverse impacts to listed bat species, if any permanent lighting is installed or replaced, downward-facing full cut-off lens lights shall be installed and directed away from wooded areas and streams.

The following Airport/Airfield is located within 4 miles of this project. This action may require notifying the Federal Aviation Administration (FAA) of proposed construction via FAA Form 7460-1 prior to construction. **Skiatook Municipal Airport**

GENERAL CONSTRUCTION NOTES

All construction shall be in accordance with the City of Skiatook Construction Standards and the Standard Specifications for Highway Construction, Oklahoma Dept. of Transportation (edition of 2009) insofar as same may apply, and special provisions for this project.

All features of this project including, but not limited to, trail curb ramps, and crosswalk markings shall comply with The Americans with Disabilities Act, accessibility guidelines, and the interim final rules for public right-of-way, published in The Federal Register, September 15, 2010. Where spatial limitations or existing features within the limits of the project prevent full compliance with this act, the contractor shall immediately notify the Engineer upon discovery of such features. The contractor shall not proceed with any aspect of the work, which is not in full compliance with the ADA without prior written approval from the Engineer. Any work, which is not performed within the guidelines of the ADA, for which the contractor does not have written approval, shall be corrected at the contractor's expense.

Areas disturbed by construction traffic outside the limits of construction shall be returned to their previous condition at contractor's expense, as directed by Engineer. All areas disturbed between the cut & fill catchlines and the right of way line shall be revegetated by sodding or seeding as listed under erosion and sediment controls and stabilization practices in the SWP3. Cost shall be considered incidental and included in other items. Includes haul roads and construction entrances.

In order to alleviate dust conditions during grading operations and before pavement work is completed, the contractor shall sprinkle grading at intervals approved by the Engineer. Cost of sprinkling to be included in price bid for other items of work.

Placement of signs, symbols, words and arrows shall conform to standards set forth in the Manual on Uniform Traffic Control Devices.

Ramp slopes shall not exceed 12:1.

The contractor shall be responsible for locating all underground utilities prior to construction. Contractor shall be responsible for repair of all damaged utilities.

The contractor shall be responsible for meeting all Environmental Protection Agency (EPA) and Oklahoma Department of Environmental Quality (ODEQ) requirements for storm water management for this project. All cost to be included in other items of work. The Consultant shall include a Storm Water Pollution Prevention Plan and erosion control plan within the plan set.

The cross slope for the trail shall not exceed 50:1 (2%). The longitudinal slope for the trail shall not exceed 20:1 (5%) unless otherwise shown in plans.

The trail shall be set back a minimum of 2' from all items/obstacles adjacent to the trail unless otherwise noted on the plans.

No fly ash allowed in concrete mix.

Unit Price Bid shall be full compensation for furnishing all materials, equipment, labor & incidentals required to complete the work as shown in the plans and details. Items listed on drawings and not included as a separate pay quantity shall be considered incidental and the cost shall be included in the price bid for other items.

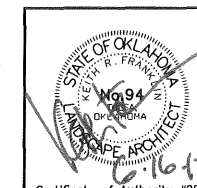
Contractor shall coordinate with the City of Skiatook for proper staging location and stabilized entrance locations for access through the project site. The cost for stabilized construction entrances shall be considered incidental and included in the cost of other items.

The Contractor shall not waste any excess excavation until all planned embankments and backfills are completed. Excess unclassified excavation material determined by the Engineer to be suitable for backfill shall be utilized for unclassified borrow. Cost of second handling shall be included in other items of work. Any remaining excess excavation shall become the property of the Contractor and be disposed of in a manner approved by the Engineer.

This project shall be constructed without closing the existing road to local and through traffic. See standard specifications for maintenance of local and through traffic.

In accordance with the Oklahoma Underground Facilities Damage Prevention Act the Contractor shall notify the Oklahoma One-Call System, Inc. 48 hours prior to beginning excavation. Oklahoma One-Call System, Inc. "Call Okie" 1-800-522-6543 or 811

Contractor shall not utilize or request payment for any item listed as "contingency only" in the pay notes without written approval. The Contractor shall utilize an RFI form to communicate or request the use of a contingency item and must receive a written approval prior to commencing work.



Osage Prairie Trail Extension
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Design	JM	8/16
Drawn	JM/BB	8/16
Checked	JM/KF	6/17
Approved		
Squad	LPCI	

PAY QUANTITY AND GENERAL NOTES