

TRAIL PAY QUANTITY NOTES

25. Retaining wall measurement is based on the area of the wall in square yards as measured from the top of the footing to the top of the wall. Retaining wall finish shall be smooth form finish on all exposed sides.
26. Price bid includes all materials, equipment, labor and incidentals to construct slope wall in the location designated on the plans. Includes but is not limited to all reinforcement, dowels, expansion material, thickened edge and incidentals as shown in the construction details. Concrete shall be ODOT class 'A'.
27. 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.
28. Unit Price Bid includes all labor, materials, equipment and incidentals to construct the specified drainage structures: trail flume, 24" standard drop inlet design #1, and the 6" lateral outlet headwall associate with the 6" retaining wall drain. Refer to the construction details, standard 770 and ODOT standard PED-3 for information on the construction of the structures included with this pay item. See summary of structures for station locations.
29. The work shall consist of furnishing and placing colored concrete conforming to the manufacturers specifications, as shown on the plans in close conformity with the lines, grades, and typical sections shown. Unit Price Bid includes the cost of integral concrete, color Coachella Sand, manufactured by L.M. Scofield or approved equal. Includes all materials, labor and incidentals to fully complete construction. Contractor shall construct a minimum of (1) sample slab approx. 16 S.F. for inspection and approval prior to construction of color concrete. Engineer may adjust color rates for optimum color. Integral color shall be added and mixed per the manufacturer's recommendations.
30. Adjust, reset or rebuild existing structures to the final grade shown on the plans. Protect the altered, removed or reset structure or appurtenance during transport and adjustment. Repair or replacement of unprotected items damaged during transport or adjustment will be at the Contractor's expense.
31. If the Contract requires the tops of manholes to be lowered to a new grade, remove the walls and rebuild manholes so the maximum batter of the walls does not exceed 4in/ft. If the Contract requires manholes to be raised 1ft or less to the new grade, construct the walls vertically from the top of the batter section.
32. Reset or remove valve boxes and meter boxes to the grade shown in the plans without damaging. Replace damaged items at no additional cost to the City of Sand Springs. Replaced items shall have an equivalent grade to the original structure.
33. Unit price bid includes but is not limited to: 1) Removal of existing 13LF masonry retaining wall, wall footing and any other materials associated with the wall construction sta. 22+60.21 - sta. 22+72.86. 2) Removal of existing landscape beds at the Sand Springs Lake parking lot. Includes removal of 34SY landscape beds and 147LF of existing sandstone boulders used as bed edging sta. 40+06 - sta. 40+79.82. Contractor shall deliver the removed sandstone boulders to 1050 W. Wekiwa Road (Park Maintenance Building). Boulders shall be stacked on pallets provided by the City of Sand Springs.
34. 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.
35. 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.
37. 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.
38. Price bid shall include the cost of surface preparation and all other provisions for Section 854 Traffic Stripe (Paint) or Section 855 Traffic Stripe (Plastic) in the ODOT Standard Specifications.
39. 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 Sand Springs.
40. Pipe rail shall be 2" round tube, 48" high with black vinyl coated fence fabric and black powder coated steel. Cost shall include the construction and installation of all items as shown on the details including all materials, labor and incidentals to complete the work. Provide shop drawings for this item. Pipe railing shall be located as shown on the plans and details. Refer to detail sheets for additional construction notes for the pipe rail.
41. Refer to construction details for split rail fence. Price bid includes cost of footing and all labor, equipment and incidentals to construct the fence as shown in the plans and details.
42. 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.

TRAIL PAY QUANTITY NOTES

43. Unit Price Bid includes the purchase and placement of (6) Wabash Valley ESTATE benches. Model: ES520P. Description: 6' bench with back. Perforated. Color: BLACK. Wabash Valley Manufacturing, Inc. 505 E. Main Street, P.O. Box 5, Silver Lake, IN 46982 (1-800-253-8619). Benches shall be placed as shown in the plans and details. Placement of benches shall be approved by the Engineer prior to permanently anchoring to concrete. Benches shall be anchored per the manufacturer's recommendations and instructions. Unit price bid includes the installation of (6) 6' long, 6" high standard concrete wheel stops as shown in the plans and details sta. 40+10 - sta. 40+80. Unit price bid includes powerwashing and painting the existing wooden bridge sta. 41+14.48 - sta. 41+92.02. Bridge deck shall be powerwashed to remove old faded/chipping paint and repainted with Sherwin Williams, Sherlastic SW7047 Color Porpoise. Contractor shall verify color with Owner prior to purchase of paint.
44. Total quantity shown includes an additional 45CY of material for contingency purposes for use with modified subgrade. The contingency amount shall be utilized as directed per the modified subgrade paynote in areas where the specified compaction cannot be achieved.
45. Install bored conduit at a minimum depth of 30" below top of ground line. Where conduit passes under a surfaced area, cut an "x" in the surfaced area above the conduit crossing for future relocating purposes. Excessive use of water, such that the pavement might be undermined or the subgrade softened, will not be permitted. If pits are to be left overnight, cover them with substantial planking, and mark them in a manner approved by the Engineer. Includes cost of compacted backfill.
46. Reset or remove junction boxes to the grade shown in the plans without damaging. Replace damaged items at no additional cost to the City of Sand Springs. Replaced items shall have an equivalent grade to the original structure.
47. Unit price shall be full compensation for furnishing all materials, equipment, labor and incidentals to complete the work as specified. Placement of relocated items or materials shall be approved by the engineer prior to completing the work.
48. Water used for the establishment of sod shall be measured with a hydrant meter. Contractor shall provide the City of Sand Springs a deposit for a hydrant meter. Contractor shall be billed after monthly readings by the City.
49. Decorative wall measurement is based on the linear foot as measured from end to end of the wall. Construction and finish shall be completed as described in the details. Includes wall cap and cultered stone veneer - both sides of wall.
50. Contractor will provide U3 bermuda sod or equivalent for placement in all disturbed areas in conjunction with the rest area construction. All other disturbed areas outside the cut/fill catchlines shall be returned to their original condition at Contractor's expense.
51. 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.
52. Unit Price Bid is for the construction of the raised concrete median with mountable curb as detailed on sheet 39 of 62 in the plan set. Includes all materials, equipment, labor and incidentals to complete the median as shown in the plans and details.
53. 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 must 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.

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 carion burying beetle that occurs within the action 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, topsoil shall be placed on top of all areas of ground disturbance, prior to re-vegetation.

The following Airport/Airfield 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: **William R Pogue Municipal Airport**

EROSION CONTROL PAY QUANTITY NOTES

- R-7 For solid slab sodding, price bid to include cost of 10-20-10 fertilizer, estimated at 200 pounds per 1000 sq. yds.
- R-9 Watering estimated at 40 gallons per square yard of sodding and/or sprigging.

TRAFFIC PLANNING AND SAFETY PAY QUANTITY NOTES

- TS-24 Quantity shown includes 470 L.F. traffic stripe (multi-polymer)(white) and 1158 L.F. traffic stripe (multi-polymer)(yellow) and will be measured by the linear foot of four inch (4") wide traffic stripe.
- TS-26 Quantity shown includes 160 L.F. traffic stripe (multi-polymer)(white) and 0 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 274 L.F. traffic stripe (multi-polymer)(white) and will be measured by the linear foot of twenty-four inch (24") wide traffic stripe.
- TS-15 Quantity shown includes 0 L.F. traffic stripe (paint) (white) and 1,628 L.F. traffic stripe (paint)(yellow) and will be measured by the linear foot of four inch (4") 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 SSA-1-1 and SSP-1-1 (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 11 wheelchair ramps. Curb removal, sawing pavement and all other miscellaneous work needed to complete the ramp installation shall be included in the bid price.

TRAFFIC SIGNING AND ROADWAY PAY QUANTITY NOTES

- C-52 This project shall be constructed without closing the existing road to local and through traffic. See ODOT standards and detail drawings for maintenance of local and through traffic.
- C-54 This project shall be constructed without closing traffic on cross streets. A minimum of one lane in each direction shall be maintained at all times. See ODOT standards and detail drawings for maintenance of local and through traffic.
- C-60 The stations and locations of the sign placement, as shown on the plan sheets, are approximate. Exact stations and locations shall be determined by the contractor so that the sign is installed in accordance with department standards and the MUTCD in order to provide optimum visibility to the oncoming/approaching motorist. If a proposed location conflicts with other signs, utilities or other roadway features, the engineer shall be notified.
- C-61 Post lengths shown on the sign summary are approximate. Exact length shall be determined by field survey by the contractor.
- C-69 For new or existing ground mounted signs, maximum stub post projection above footing/ground line shall be 1-3/4" +/- 1/4". Maximum footing projection above ground line shall be no more than 2". Should additional soil be required, the engineer will designate an area to obtain additional soil. All associated costs shall be included in other items of work.
- F-13 Measurement will be based on the theoretical cross section shown on the typical section, multiplied by the actual length.
- R-49 To become the property of and disposed of by the contractor in a manner approved by the Engineer.
- R-50 Materials removed shall not be measured for payment under section 202.06 Unclassified Excavation.

GENERAL CONSTRUCTION NOTES

All construction shall be in accordance with the City of Sand Springs 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 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.

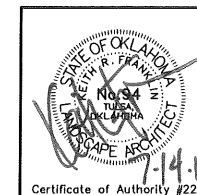
Unit Price Bid shall be full compensation for furnishing all materials, equipment, labor & incidentals required to complete the work as shown in the plans and details. Items listed on drawings and not included as a separate pay quantity shall be considered incidental and the cost shall be included in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

Contractor shall coordinate with the City of Sand Springs 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 used to reduce any unclassified borrow needed. 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



City of Sand Springs - Park Road Trail
 PREPARED BY: LANDPLAN CONSULTANTS
 1100 Villa 25th Street, Tulsa, OK 74107 918 558 4664

Design	JM	8/16
Drawn	JM/BB	9/16
Checked	KF/JM	6/17
Approved		
Squad	LPCI	

PAY QUANTITY AND GENERAL NOTES