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0640 CONSTRUCTION

Item	No.	Item Description	Unit	Quantity
641	1552	MOBILIZATION	LSUM	1



GENERAL CONSTRUCTION NOTES:

1. 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.
2. 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.
3. Prior to final acceptance, all exposed curb surfaces shall be cleaned of all discoloration such as asphalt stain, tire marks, or other disfigurement.
4. 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.
5. The cost for a Work Zone Permit from the City of Oklahoma City and (DVD) color audio/video recording, pre and post construction, shall be included in other items of work.
6. Property owners shall be notified at least 48 hours prior to street closings or construction operations (i.e. street, sidewalk, driveway, curb & gutter etc.) Prior to commencing any work, the Contractor shall also place an informational door hanger supplied by the city at each property within the project area. The door hanger shall be taped top and bottom to the front door. The cost of this work shall be included in other items of work.
7. No work is allowed on adjacent roadway from 7am to 8am and from 4pm to 6pm. Night work is acceptable in non-residential area.The City of Oklahoma City shall approve all proposed working hours.
- 8 Contractor shall be responsible for the relocation, repair, rebuild and/or replacement of mailboxes damaged during construction. Replacement will be in accordance to the United States Postal Office requirements (see local post office) and should match existing in size, shape, structure, and composition.
9. It shall be the contractor's responsibility to notify the City's representative at 297-3572, twenty four (24) hours prior to milling or excavation activities through intersections which have established survey monuments. The Engineering Division will be responsible for re-establishing all such monuments which are affected. In the event a City representative is not notified by the contractor, he will be held responsible for the restoration of said monuments.
10. Contractor shall only work on one mile of the project at a time. That one mile must be completed (pavement repair, curb & gutter replacement, pavement resurfacing, wheelchair ramps, etc.) before moving on to the next mile.
12. All foundation base material for sidewalks, wheelchair ramps, driveways, retaining walls, etc. shall consist of 2" of Traffic Bound Surface Course (TBSC), Type C. This specification shall replace all others. The TBSC Type C base shall be compacted before any concrete is placed. Include cost in price bid for all other items of work.
13. Private Lawn Irrigation Systems on Public Right of Way
If the Contractor encounters a private lawn irrigation system in the public right of way which obstructs the proposed construction (sidewalks, driveways, ramps etc.), the Contractor shall cut, cap and remove it to the minimum extent possible. The Contractor shall cause the least amount of damage to the lawn irrigation system. At the direction of the Construction Inspector, the Contractor shall provide 1 1/2" PVC conduit(s) under the proposed sidewalk to assist the property owner with reconnecting their lawn irrigation system and shall coordinate its placement with them. The property owner shall be responsible for reconnecting their lawn irrigation system and making it operational upon completion of the work. The Contractor shall mark the locations of said conduit(s) and where the system was cut and capped. All Contractor costs for the above mentioned materials and labor shall be included in the price bid for other items of work.
14. A WORK ZONE PERMIT must be obtained from the City of Oklahoma City Traffic Management Division at least (2) working days prior to the start of work and/or placing or removing any barricades or modifying existing traffic control devises. Call (405) 297-2531 to obtain an application.
The contractor shall notify the following Oklahoma City personnel twenty-four (24) hours in advance of placing or removing any barricades.

Inspector: 297-3571
Traffic Management Division: 297-2531
After hours, call: 297-2255

	Revisions	Date
①	MOVED PAY ITEM No. 106 0200 TO SHEET 6	1-12-2018
②	ADDED LAST SENTENCE	01-22-2018

OUTSIDE AGENCY CONTACT

- ⚠ The contractor shall provide notification to the Central Oklahoma Transportation and Parking Authority (dba EMBARK) before the commencement of construction on the project. The contractor shall coordinate with EMBARK for the removal, transport, and storage location of furniture such as bus shelters, benches, signs, and trash containers located on and around the existing bus stop areas. When bidding include the cost of removal and transport in other items of work.

The point of contact for notification/coordination:
EMBARK C/O The City of Oklahoma City
420 W. Main St., Suite 700
Oklahoma City, OK 73102
Phone: (405) 297-2581

The City of
Oklahoma City
Public Works Department
Engineering Division

DESIGNED BY:

FEDERAL AID PROJECT NO.
TAP-255D(325)AG

DRAWN BY:

JOB PIECE NO.
31432(04)

DATE:

TVN
DECEMBER 2016

MS-0065, Sidewalk Project

GENERAL CONSTRUCTION NOTES

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0100 ROADWAY

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Item	No.	Item Description	Unit	Quantity
202(B)	0105	MUCK EXCAVATION (1) (3) (9)	CY	14
221(F)	0100	TEMPORARY SILT DIKE (1) (2)	LF	200
230(A)	2806	SOLID SLAB SODDING (1) (4)	SY	222
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE E (1) (3)	TONS	21
609(A)	0300	CONCRETE CURB (6" BARRIER-INTEGRAL) (5) (10)	LF	111
609(B)	1513	1'-8" COMBINED CURB & GUTTER (6" BARRIER) (5)	LF	7
609(B)	1526	2'-8" COMBINED CURB & GUTTER (8" BARRIER) (5)	LF	14
610(A)	0602	4" CONCRETE SIDEWALK (5)	SY	302
610(A)	0605	6" CONCRETE SIDEWALK (6)	SY	170
610(A)	0606	8" CONCRETE SIDEWALK (5)	SY	66
610(I)	4610	TACTILE WARNING DEVICE-NEW (7)	SF	110
△ 612(A)	0641	MANHOLES ADJUST TO GRADE (8)	EA	1
△ 612(E)	0647	VALVE BOXES ADJUST TO GRADE (8)	EA	1
△ 612(F)	0648	METER BOXES ADJUST TO GRADE (8)	EA	1
619(B)	4792	REMOVAL OF SIDEWALK (9)	SY	114

	Revisions	Date
△1	MOVED THIS PAY ITEM No. FROM SHEET 5	1-12-2018
△2	CORRECTED PAY ITEM No.	1-12-2018
△3	CORRECTED PAY ITEM No.	1-12-2018
△4	CORRECTED PAY ITEM No.	1-12-2018
△5	DELETED PAY ITEM 106 0200, "MATERIAL TAKEN INTO WAREHOUSE STOCK"	1-19-2018

Manufacturer	Part Numbers		
	Cast-In-Place	Cast-In-Replaceable	Surface Applied
Armor-Tile Tactile Systems	ADA-C-2460	ATH-R-2460	ADA-S-2460
Answer Industries	N/A	24C-1R	24S-1R
Access Product Inc.	N/A	ACC-R-2X5	ACC-S-2X5
ADA Solutions, Inc	2460IDPAV2	2460REP	2460IDRET2

- 8) The contractor shall locate all existing manholes, meters, and valve boxes that will be within the work area before construction begins. The location shall be measured and noted in the field such that an exact location can be determined after construction is completed. All manholes, meters, and valve boxes shall have a concrete collar placed per the manhole and valve box adjustment detail.
- 9) To become property of the contractor and disposed of in a manner approved by the Engineer. Material shall not be placed in a regulatory floodplain.
- 10) This pay item shall be used for retaining barriers needed for elevation changes less than 12 inches.

ROADWAY PAY QUANTITY NOTES

- 1) Estimated quantities to be used in a manner as directed by the Engineer.
- 2) To be used as directed by the Engineer at sidewalk and wheelchair ramp construction sites to prevent sediment from leaving the site.
- 3) Muck excavation to be replaced with Traffic Bound Surface Course (TBSC) Type E, which shall be compacted to 98% Standard Proctor Density (SPD). If needed, the depth of the muck excavation shall be no greater the 6 in. below the bottom of the TSBC layer as shown in the sidewalk details.
- 4) Cost of watering (estimated at 40 gallons per SY) and 10-20-10 fertilizer (estimated at 200 pounds per 1,000 SY) to be included in price bid for this item.
- 5) Class A Concrete shall be used. Subgrade shall be compacted to 95% SPD. Locations are shown on plan sheets. Cost of excavation, subgrade preparation, curb and gutter removal, sawing pavement, 2" TBSC Type C backfill, and all other work needed to complete this item to be included in price bid for this item.
- 6) This pay item is for bus stop pads as shown and detailed in the plan sheets. Class A Concrete shall be used. Subgrade shall be compacted to 95% SPD. Locations are shown on plan sheets. Cost of excavation, subgrade preparation, curb and gutter removal, sawing pavement, 4" TBSC Type E backfill, and all other work needed to complete this item to be included in price bid for this item.
- 7) The following are the approved manufacturers of Cast-In-Place Replaceable Tactile Markers/Truncated Domes:

DESIGNED BY:

DRAWN BY:

DATE:

TVN

DECEMBER 2016


FEDERAL AID PROJECT NO.
TAP-255D(325)AG

JOB PIECE NO.
31432(04)

MS-0065, Sidewalk Project
ROADWAY PAY ITEMS
AND QUANTITY NOTES

JP# 31432(04)
Sheet 6

The City of
Oklahoma City
Public Works Department
Engineering Division



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0300 TRAFFIC

Item	No.	Item Description	Unit	Quantity
857 (E)	8887	(PL) CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TAB) TYPE 2-1 (TC- 21, 61, 70, 73 and 75)	EA	936
880 (A)	8806	ARROW DISPLAY (TYPE B) (TC-84)	SD	60
880 (B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 SF (TC-26, 28, 33,84)	SD	600
880 (B)	8821	CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF (TC-26, 33,84)	SD	240
880 (B)	8824	CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF (TC-26, 30, 33,84)	SD	450
880 (C)	8842	CONSTRUCTION BARRICADES (TYPE III) (TC-26,84)	SD	240
880 (C)	8848	WING BARRICADES (TC-26, 84)	SD	120
880 (E)	8860	WARNING LIGHTS (TYPE A) (TC-26,84)	SD	960
880 (F)	8878	DRUMS (TC-26,84)(2)	SD	570
880 (G)	8890	CHANNELIZER CONES (TC-26,84)	SD	390
882 (A)	8306	PORT. CHANGEABLE MESSAGE SIGN (TC-52, 70, 85)	SD	60

0301 TRAFFIC SIGNING AND STRIPING

Item	No.	Item Description	Unit	Quantity
805 (D)	8756	(PL) REMOVE & RESET EXISTING SIGNS	EA	2
855 (A)	8825	TRAFFIC STRIPE (PLASTIC) (24" WIDE) (TS-13,14, 23,1,3)	LF	104

TRAFFIC CONSTRUCTION PAY QUANTITY NOTES:

1. This pay item shall be used for continental crosswalks (see Standard PM1-1) and stop bars.
2. Warning Lights Type C are not required.
3. All traffic markings shall consist of multi-component liquid material.

TRAFFIC CONSTRUCTION NOTES:

Traffic control shall be in accordance with Chapter VI of the current Manual on Uniform Traffic Control Devices for Streets and Highways, and all applicable Oklahoma Department of Transportation Standards. Contractor shall be responsible for temporary pavement markings and removal as necessary. Refer to latest revisions of TCS1-1 and TCS10-1. Contractor shall use tab type temporary pavement markers in lieu of tape on the completed surface. The Contractor will erect signs to indicate no centerline and edge line markings in advance of the project for each direction of traffic. The Contractor will erect "MOTORCYCLES USE CAUTION" signs any time milled surfaces or uneven lanes are open to traffic.

All traffic control signage shall remain in place until the roadway has been permanently striped.

All pavement markings shall be placed as directed by the City of Oklahoma City Transportation Division. Dashed lane lines (15' in length) will be spaced with 25' gaps.

Any damage to a finished or existing surface resulting from the Contractors negligence in the removal of construction zone pavement markers or channelizing devices and the bituminous adhesive used in their installation, shall be repaired at the contractor's expense and to the satisfaction of the Engineer.

The permanent traffic striping must be applied within forty-eight (48) hours after the resurfacing has been completed. If, for some reason, this cannot be accomplished, a temporary four (4") inch wide by twelve (12") inch long stripe shall be applied at forty (40') foot intervals, yellow for centerlines and white for lane lines. This application is to be for arterial and collector type streets and to be placed at centerlines and lane lines only.

TRAFFIC CONSTRUCTION PAY QUANTITY NOTES:

A part, or all, of this item is intended for replacement of removed existing conflicting striping. (TC-14) See Standard Drawing PM1-1, PM2-1, PM3-1, PM4-1, PM5-1, PM6-1, PM7-1, PM8-1 (latest revision)

A part, or all, of the quantity shown is to be used as final pavement marking.

	Revisions	Date
1	MOVED 805 (D) 8756 AND 855 (A) 8825 FROM 0300 - TRAFFIC	1-19-2018

(TC-16) Paint shall conform to section 711 "Traffic Stripe", of the O.D.O.T Standard Specifications for Highway Construction (Current Edition). If construction traffic stripe paint is installed in accordance with the manufacturer's specifications and fails during the first six months of service, replacement will be made at theContractor's expense and shall be accomplished in a timely manner upon notification by the Engineer of such failure.

(TC-22) Amount shown in an approximation and the actual amount of removal, if necessary, shall be determined by the engineer. Price bid for pavement marking removal shall include the cost of removing stripe, arrows, words and symbols, as shown in the plans. These items may consist of plastic, paint or non-removable marking tape.

(TC-26) 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 on 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 required for the 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 the non-daylight hours.

(TC-28) Included in this item are all S.C.S. (Special Construction Signing) signs which are between 0.00 S.F. and 6.25 S.F. Also included in this item shall be the cost of installation, maintenance and removal of these signs.

(TC-30) Included in this item are all S.C.S. (Special Construction Signing) signs which are between 16.00 S.F. and 32.99 S.F. Also included in this item shall be the cost of installation, maintenance and removal of these signs.

(TC-33) All construction work zone signs shall have fluorescent sheeting. The fluorescent sheeting shall meet the requirements of ASTM D4956 (Latest Revision). The Maufacturer shall furnish a Type "D" certification in accordance with O.D.O.T Standard Specifications (Current Edition) subsection 106.04. The certification shall include test results on material submitted for approval.

(TC-52) Any used changeable message sign to be placed on this project shall be subject to inspection and approval, by the Oklahoma Department of Transportation, to assure that they are in good working condition, prior to placement on the project.

(TC-61) Any damage to a finished or existing surface resulting from the contractors negligence in the removal of construction zone pavement markers or channelizing devices and the bituminous adhesive used in their installation, shall be repaired at the contractor's expense and to the satisfaction of the engineer.

(TC-70) This item is an estimated quantity to be used as deemed necessary by The Engineer.

(TC-75) Temporary Pavement Markings shall be in place the same day that existing pavement markings are removed from any roadway open to traffic. Also, all temporary pavement markings shall be removed prior to the installation of final striping.

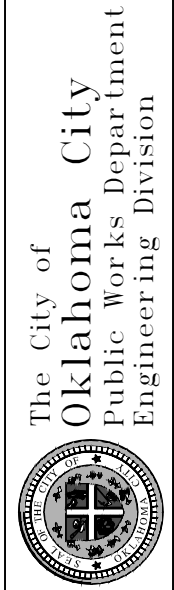
(TC-84) 30 construction calendar days were used to compute the sign day pay items. The amount of calendar days used to compute the sign day pay items is an estimated quantity only based on the current O.D.O.T Standards and suggested construction sequence for this project. These estimated sign day quantities may change as the project's construction traffic control is modified during construction.

(TC-85) These signs must be on The Oklahoma Department of Transportation list of approved changeable message signs. For a list of the approved signs go to The Oklahoma Department of Transportation website at: <http://www.okladot.state.ok.us/traffic/qpl/index.php>

(TS-23) Quantity shown includes 104 L.F. Traffic Stripe (Plastic) (White) and will be measured by the linear foot of twenty four (24") wide Traffic Stripe.

TRAFFIC OPERATIONS GENERAL CONSTRUCTION NOTES :

Existing roadway shall remain open during construction. The contractor shall be responsible for proper barricades, lights, and signing within the limits of construction. All construction signing will be done according to standards set forth in the Manual on Uniform Traffic Control Devices, (Current Edition), and as shown on TCS standard drawings. All temporary traffic control devices shall meet ODOT's, "Quality Standards for Temporary Traffic Control Devices."



FEDERAL AID PROJECT NO. TAP-255D(325)AG	JOB PIECE NO. 31432(04)
DESIGNED BY:	DRAWN BY: TVN
	DATE: DECEMBER 2016

MS-0065, Sidewalk Project
TRAFFIC PAY ITEMS
AND PAY QUANTITY NOTES

JP# 31432(04)
Sheet 7