

DESCRIPTION	REVISIONS	DATE
④	Add Railroad Notes	9/15/17

300 TRAFFIC

ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QTY	AS RECORDED
802(B) 8344	3" PVC SCH. 40 PLASTIC CONDUIT BORED	L.F.	60	
802(B) 8346	3" PVC SCH. 40 PLASTIC CONDUIT TRENCHED	L.F.	40	
803(A) 8066	PULL BOX (SIZE II)	EA.	2	
804(A) 2915	STRUCTURAL CONCRETE	C.Y.	6.84	
804(B) 2916	REINFORCING STEEL	L.B.	771.4	
806(A) 8350	32' MH POLE, 30' TS & 10' LMA (G.STL.)	EA.	1	
806(A) 8726	POLE & 25' TS MST. ARM (G.STL.)	EA.	1	
809(A) 8090	ROADWAY LUMINAIRE	(H) EA.	1	
825 8550	TRAFFIC SIGNAL CONTROLLER ASSEMBLY	(A) EA.	1	
829(A) 8200	(PL) PEDESTRIAN/CYCLIST COUNTER	(B) EA.	1	
830 8000	PEDESTRIAN PUSH BUTTON	(C) EA.	2	
831 8100	TRAFFIC SIGNAL HEADS	(D) EA.	4	
831 8295	1WAY2SEC. ADJ. PED. SIG. HD. S-20	(E) EA.	2	
833 3030	BACKPLATE	EA.	4	
834(B) 8220	2/C SHIELDED LOOP DETECTOR LEAD-IN CABLE	(F) L.F.	25	
850(A) 8110	SHEET ALUMINUM SIGNS	S.F.	194	
850(C) 8118	MAST ARM MOUNTED SIGNS (ALUMINUM)	S.F.	64	
851(B) 3216	2" @ 3.65 GALV. STL. PIPE POST	L.F.	295.67	
854(A) 8800	TRAFFIC STRIPE (PAINT) (4" WIDE)	(G)(TC-14)(TS-15) L.F.	1930	
855(A) 8814	TRAFFIC STRIPE (PLASTIC) (8" WIDE)	(G)(TC-14)(TS-21) L.F.	240	
855(A) 8825	TRAFFIC STRIPE (PLASTIC) (24" WIDE)	(G)(TC-14)(TS-23) L.F.	46	
857(F) 8006	PAVEMENT MARKING REMOVAL (TRAFFIC STRIPE)	(TS-32) L.F.	286	
880(J) 8905	CONSTRUCTION TRAFFIC CONTROL	(TC-25, TC-33, TC-84) L.S.	1	
882(A) 8306	PORT. CHANGEABLE MESSAGE SIGN	(99) (TC-52, 84, 85) S.D.	20	

GENERAL TRAFFIC CONTROL NOTES

- Sign placement locations shall be determined by the Engineer.
- The Contractor will relocate permanent traffic control devices to accommodate construction operations. Cost to be included in other items of work. The Contractor will provide sufficient advance notification to the Engineer, in writing, of his scheduling plans to perform work prior to beginning construction operations. If the Contractor fails to give written notification to the Engineer, any damage to the permanent traffic control devices shall be corrected by the Contractor to the satisfaction to the Engineer.
- All temporary traffic control devices shall meet ODOT's, "Quality Standards for Temporary Traffic Control Devices."
- All signs shall have a "like new" appearance (e.g., no faded lettering nor background). The backing material (e.g., plywood or sheet metal) shall not be damaged or aged (e.g., debonding plywood). Likewise, sheeting strips on drums/cones shall be replaced when scuffed or torn signs and channelization devices deemed sub-par by the Engineer shall be replaced by the Contractor.
- The construction signing and barricade contractor should affix their company name and/or logo inconspicuously on each traffic control device.
- Failure to maintain the integrity of the work zones and channelization devices shall be considered cause for penalties as spelled out in "Section 880 Construction Signing and Traffic Control" of the 2009 Standard Specifications.
- Warning lights (Type C) are not required.
- Traffic conditions may necessitate changes in the use and/or quantities of the traffic control devices as shown in the plans or in the standards. Any such changes are subject to approval by the Engineer.
- The regulatory speed limits through the work zone may be adjusted at the discretion of the Engineer with the documented approval of the division engineer in accordance with title 47 of the Oklahoma motor vehicle laws.
- Plastic drums, if used, shall also conform to Special Provision 880-1(a-b)09, rev. 8-16-02.
- A Contractor shall not be permitted to start work until the sheeting on signs and channelization devices conforms to the above-stated specifications.
- After written notification once the construction work is completed, the signing and barricade contractor will have 30 business days to remove all temporary traffic control devices. Failure to comply will result in the city taking ownership of the devices as a result of abandonment.

STRIPING

The application surfaces for pavement markings shall be free of dust, dirt, moisture, or other foreign matter which would interfere with adhesion. Installation of all pavement markings shall be in accordance with the manufacturers recommendations.
All temporary pavement markings shall be removed immediately ahead of the permanent striping operations or re-striping for following construction phases.

TRAFFIC SIGNING PAY QUANTITY NOTES

- 99 Pat item to be used at discretion of Engineer
- A. The controller to be furnished on this project shall be vehicle actuated solid state digital controller with volume density features. The contractor shall furnish the controller and mounting frames as follows:
Type, 8 Phase with an All Red conflict and user flash
The controller shall be furnished with 16 load switch receptacle bays. All corresponding receptacle wiring in the cabinet and field wiring shall be installed for the controller as required except for additional detector connecting cables when the controller is expanded.
The controller shall be capable of performing as shown on phase and sequence diagrams.
Pedestrian isolation shall be provided in the controller cabinet.
All N.E.M.A. functions shall terminate in the controller cabinet.
Controller shall be equipped with continuous power unit. This unit shall provide 400 Watts of continuous power for a minimum of 8 hours.
The controller to be used on this project shall be an Econolite ASC/3 in order to be compatible with the the standard controller currently in use by the city.
- B. Contractor shall provide Eco-Counter Urban Post MULTI Pedestrian/Bikes with PYRO sensor (2 ZELT loops). Counter to be set at 15 minute data recording intervals.
- C. Contractor shall provide polara 2-wire navigator accessible pedestrian signal push button or approved equal. R10-3E pedestrian push button signs shall be used.
- D. All necessary Traffic Signal Electrical Cable incidental to this item and to comply with 834(A) of the ODOT spec book. Signal heads shall be in a HAWK configuration (2 red, 1 yellow).
- E. LED international heads displaying incandescent looking fully-illuminated symbols (walking person and upraised hand) shall be required on this project. These pedestrian heads shall also be countdown type heads.
- F. Pay item is to run from the pedestrian push buttons to the terminal strip at the base of the poles.
- G. Paint stripe intended for concrete surfaces (primarily trail). Plastic intended for asphalt surfaces
- H. Roadway Luminaire shall be LED fixture with clear lamp of 28,000 lumens, illumination engineering society distribution as follows: Vertical = Medium; Lateral = Type 3; Control = Semi; ODOT Fixture Style = A1. See Std. HLD1-1-(Latest Revision).
- TS-15 Quantity shown includes 0 L.F. Traffic Stripe (Paint) (White) and 1,930 L.F. Traffic Stripe (Paint) (Yellow) and will be measured by the linear foot of four inch (4") wide traffic stripe.
- TS-21 Quantity shown includes 240 L.F. Traffic Stripe (Plastic) (White) and 0 L.F. Traffic Stripe (Plastic) (Yellow) and will be measured by the linear foot of eight inch (8") wide traffic stripe.
- TS-23 Quantity shown includes 46 L.F. Traffic Stripe (Plastic) (White) and 0 L.F. Traffic Stripe (Plastic) (Yellow) 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 hours after old striping is removed.

TRAFFIC CONTROL NOTES

Contractor can substitute traffic control plan subject to approval by Midwest City's City Engineer.

- 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.
- 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 of 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 required for completion of the project.
- TC-33 All construction work zone signs shall have fluorescent sheeting. The fluorescent sheeting shall meet the requirements of ASTM D4956 (latest revision)
- TC-84 90 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.

SOUTH KANSAS & OKLAHOMA RAILROAD NOTES:

NOTIFICATION OF WORK:

The Contractor is required to give the S K & O Railroad at least 10 working days advance notice, in writing, before any work is started on the site. To avoid hazards, the S K & O Railroad may have a representative present, if deemed necessary, for the purpose of inspection and the issuance of any appropriate instructions for railroad operations during the multi-use, rail-with-trail enhancement work on the Oklahoma Subdivision in Midwest City, Oklahoma County as it relates to the S K & O Railroad property that intersects the project.

The contractor shall notify:

Anthony Cox, Senior Chief Engineer, SK&O Railroad
315 West 3rd Street, Pittsburg, Kansas 66762
Phone: (620)231-2230

INSURANCE:

Insurance shall be provided as specified in Section 107 of the Standard Specifications (See Proposal for Special Provisions).
The Contractor shall also furnish satisfactory evidence to the State of Oklahoma that he has provided insurance of the kinds and amounts as specified in the Special Provisions for RAILROAD INSURANCE.

PRE-WORK MEETING

Prior to working on the S K & O Railroad right-of-way or in the vicinity of their tracks, you **MUST** contact the local roadmaster, or other appropriate official for the S K & O Railroad, to coordinate your work. It is **vital** that you have contact with the S K & O Railroad Roadmaster, or other appropriate SK&O official, prior to entering the railroad's property.

COORDINATION WITH RAILROAD

The contractor shall conduct construction operations in a manner which will not delay or interfere with train operations.
Special permission must be obtained from the S K & O Railroad before moving any equipment or other object which could make the track impassable if it fell within the area shown on the construction clearance diagram.

Railroad protective services, and protective devices will be required, but not limited to, events when:

- The contractor work activities are within 25 (twenty-five) feet of the track, measured from the track centerline.
- Activities are over or under the track.
- Cranes or similar equipment will not be positioned where they could foul the track if they tipped over or experienced some other catastrophic event.
- In the opinion of the S K & O Railroad Representative:
 - 1) It is necessary to safeguard the S K & O Railroad property, employees, trains, engines, and facilities.
 - 2) When any excavation is performed below the bottom of the elevations and track or other S K & O Railroad facilities may be subject to movement or settlement.
 - 3) When work in any way interferes with safe operation of trains and timetable speeds.
 - 4) When any hazard is presented to railroad track, signals, communications, electrical, or other facilities either due to person, material, equipment, or blasting in the area.

RAIL TRAFFIC

The SK&O Railroad Company has 0 train per day at 0 MPH on the Oklahoma Subdivision.

TUBE #	CITY INSPECTOR	REVISIONS	 <p>MIDWEST CITY COMMUNITY DEVELOPMENT ENGINEERING DIVISION</p>	PROJECT	ENHANCEMENT MIDWEST CITY RAIL W TRAIL (PHASE I)	State Job No. 31435(04)	SHT. NAME	<p>SUMMARY OF QUANTITIES TRAFFIC</p>	SHT. NO.	3
	COMPLETION DATE:	PROJ. NO.								
	CONTRACTOR									
	DWG. NAME									