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REVISIONS DESCRIPTION	
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SIGNAL PAY QUANTITIES & NOTES
 WO#7 - TRAFFIC SIGNAL PLANS
 MAIN STREET AND STEVE OWENS BOULEVARD
 CITY OF MIAMI, OKLAHOMA
 MIAMI, OKLAHOMA
 2017

drawn by: JRC
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TRAFFIC SIGNAL PAY QUANTITIES CATEGORY 0300
 STEVE OWENS BOULEVARD AND MAIN STREET - MIAMI, OKLAHOMA

ITEM	DESCRIPTION	NOTES	UNIT	TOTAL
802(A) 8302	1" GALVANIZED STEEL ELECTRICAL CONDUIT EXPOSED	(7)	LF	30
802(B) 8342	2" PVC SCH. 40 PLASTIC CONDUIT TRENCHED	(TP-1)	LF	50
802(B) 8346	3" PVC SCH. 40 PLASTIC CONDUIT TRENCHED	(TP-1)	LF	10
802(B) 8348	4" PVC SCH. 40 PLASTIC CONDUIT BORED	(TP-1)	LF	261
803(A) 8065	PULL BOX (SIZE I)	(2)	EA	3
803(A) 8066	PULL BOX (SIZE II)	(2)	EA	1
804(A) 2915	STRUCTURAL CONCRETE	(TP-1)	CY	21.1
804(B) 2916	REINFORCING STEEL	(TP-1)	LB	3,086.9
805(A) 8726	(PL) REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	(TR-24) (3)	LSUM	1
806(A) 8350	32' MH POLE 30' T.S. & 10' LMA (G.STL)	(4)	EA	1
806(A) 8312	32' MH POLE 40' T.S. & 10' LMA (G.STL.)	(4)	EA	2
806(A) 8314	32' MH POLE 50' T.S. & 10' LMA (G.STL.)	(4)	EA	1
806(B) 8896	12' MTG HT TS PED POLE (G. STL)	(4) (7)	EA	1
809(A) 8090	ROADWAY LUMINAIRE	(5)(7)	EA	4
810(A) 3118	SERVICE POLE	(SP-1)	EA	1
811 8044	1/C N.10 ELECTRICAL CONDUCTOR	(TP-1)	LF	828
811 8050	3/C NO.4 ELECTRICAL CONDUCTOR (AERIAL)	(TP-1)	LF	108
825 8550	TRAFFIC SIGNAL CONTROLLER ASSEMBLY	(6)	EA	1
828 8132	(PL) DETECTION SYSTEM (VIDEO)	(6)(7)	LSUM	1
830 8000	PEDESTRIAN PUSH BUTTON	(7)	EA	8
831 8231	1WAY 3 SEC. ADJ. SIG. HD. S-6	(7,9)	EA	8
831 8280	1WAY 4 SEC. ADJ. SIG. HD. S-13	(7,9)	EA	4
831 8286	1WAY 5 SEC. ADJ. SIG. HD. S-19	(7,9)	EA	1
831 8295	1WAY 2 SEC. ADJ. PED. SIG. HD. S-20	(7,9)	EA	8
833 3030	BACKPLATE		EA	13
834(A) 8207	5/C TRAFFIC SIGNAL ELECTRICAL CABLE	(TP-1)	LF	1,184
834(A) 8208	7/C TRAFFIC SIGNAL ELECTRICAL CABLE	(TP-1)	LF	273
834(A) 8213	21/C TRAFFIC SIGNAL ELECTRICAL CABLE	(TP-1)	LF	484
850(C) 8118	MAST ARM MOUNTED SIGNS (ALUMINUM)		SF	106

TRAFFIC SIGNAL GENERAL CONSTRUCTION NOTES

- (C-150) SYMBOLS AND LEGENDS ARE DIAGRAMMATIC ONLY AND LOCATIONS SHALL BE ADJUSTED FOR EXISTING FIELD RELOCATIONS WILL BE MADE WITHOUT FIRST CONSULTING WITH THE CHIEF TRAFFIC ENGINEER.
- (C-151) 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.
- (C-152) ALL BROKEN CONCRETE, WASTE MATERIAL AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
- (C-155) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:
 THE "OKIE" NOTIFICATION CENTER (405)-840-9955 OR 1-800-522-6343.
 THE LOCAL COUNTY CLERK'S OFFICE.
 DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- (TP-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY. SEE THE 2009 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- (TP-10) THE CONTROLLERS TO BE FURNISHED ON THIS PROJECT SHALL BE 16 PHASE VEHICLE ACTUATED SOLID STATE DIGITAL TRAFFIC SIGNAL CONTROLLERS. A MINIMUM OF 16 LOAD SWITCH RECEPTACLES SHALL BE FURNISHED AND WIRED TO THE MOUNTING FRAMES. THE CONTROLLER SHALL BE CAPABLE OF PERFORMING AS SHOWN ON THE PHASE AND SEQUENCE DIAGRAM.
- (TR-24) ALL TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CITY. THE CONTRACTOR SHALL NEATLY STACK SUCH REMOVED MATERIAL AT A LOCATION ON THE JOB SITE AS DIRECTED BY THE ENGINEER AND THEN DELIVER THEM TO A LOCATION, AS DIRECTED BY THE ENGINEER. THE PRICE BID SHALL INCLUDE THE REMOVAL OF ALL FOOTINGS BELOW GROUND LEVEL OR AS DIRECTED BY ENGINEER. FOOTINGS TO BECOME THE PROPERTY OF THE CONTRACTOR.
- (4) THE HAND HOLES AT THE BASE OF THE POLES SHALL BE PLACED AT 45 OR 225 DEGREE ANGLES FROM THE MAST ARMS IN ORDER TO AVOID CONFLICTS WITH THE PEDESTRIAN PUSH BUTTONS AND SIGNS BEING INSTALL ON THE PROJECT, AS SHOWN ON THE PLANS. ALL POLES AND EQUIPMENT SHALL BE POWDER COATED BLACK IN COLOR.
- (5) THE LUMINAIRES TO BE INSTALL ON THE LUMINAIRE MAST ARMS SHALL BE PRICE BID FOR THIS ITEM SHALL INCLUDE ALL HARDWARE AND EQUIPMENT IN ORDER TO INSTALL THE FIXTURES ON THE SIGNAL POLE LUMINAIRE MAST ARMS. ALL LUMINAIRES SHALL BE BLACK LED, 240W HPS EQUIPMENT.
- (6) THIS PROJECT INVOLVES THE INSTALLATION OF A VIDEO VEHICLE DETECTION SYSTEM, THEREFORE, THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
 A. GRIDSMART GS-3-CAM FISHEYE CAMERA STOPLINE DETECTION CAMERA AND GS-3-TCA TRADITIONAL ADVANCED CAMERA OR APPROVED EQUAL VEHICLE DETECTION SYSTEM UNIT INCLUDING A LAPTOP COMPUTER. ALL NECESSARY CABLES, HARNESSES, MATERIALS, FITTINGS AND MISCELLANEOUS COMPONENTS NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AT ONE (1) INTERSECTION. MINIMUM SPECIFICATIONS FOR THE COMPUTER SYSTEM - PENTIUM 1v, 850 MHZ PROCESSOR, 524 MB RAM, 200 GB HARD DRIVE, USB PORTS, AND A 48X CDR-RW.
 ANY "APPROVED EQUAL": SHALL BE APPROVED BY BOTH TRAFFIC ENGINEERING DIVISION OF ODOT AND THE CITY. SUCH A SYSTEM SHALL BE CONSIDERED EXPERIMENTAL UNTIL A 12 MONTH TEST PERIODS HAS PROVEN THAT THE SYSTEM CAN OPERATE SUCCESSFULLY WITH NO PROBLEMS. AT THE END OF THE 12 MONTH TEST PERIOD BOTH THE TRAFFIC ENGINEERING DIVISION OF ODOT AND THE CITY WILL NEED TO SIGN OFF THAT THE SYSTEM HAS OPERATED SUCCESSFULLY AND IS THEREBY APPROVED.
 B. CAMERAS WITH ZOOM LENS CAPABILITY
 C. VIDEO POWER COAX CABLE SHALL BE AS PER THE MANUFACTURER SPECIFICATIONS.
 D. ONE DAY FOR TRAINING FOR CITY PERSONNEL IN THE USE AND MAINTENANCE FOR THE SYSTEM SHALL BE PROVIDED BY A MANUFACTURERS REPRESENTATIVE. DOCUMENTATION OF THE TRAINING PROVIDED SHALL BE PROVIDED FOR THE ENGINEER.
 E. TRAFFIC SIGNAL CABINET SHALL HAVE 16 POSITION LOAD SWITCH, 8 VEHICLE PHASE, 4 PEDESTRIAN PHASE, AND 4 OVERLAP PHASE CAPABILITY.
- (7) THIS SIGNAL EQUIPMENT SHALL BE BLACK IN COLOR.
- (8) RED, YELLOW AND GREEN LED TRAFFIC SIGNAL HEADS SHALL BE FURNISHED AND INSTALLED ON THIS PROJECT. THIS LED TRAFFIC MODULES, LENSES, AND ALL ASSOCIATED MATERIAL. AND EQUIPMENT SHALL CONFORM TO I.T.E VEHICLE TRAFFIC CONTROL SIGNAL HEAD (VTC SH) STANDARDS IN EFFECT AT THE TIME THAT THE ORDER IS PLACED. LED HEADS SHALL BE CAPABLE OF OPERATING WITHOUT A REFLECTOR.
- (9) COUNTDOWN LED INTERNATIONAL HEADS DISPLAYING FULLY- ILLUMINATED SYMBOLS (WALKING PERSON AND UPRaised HAND) SHALL BE REQUIRED ON THIS PROJECT.
- (10) PAY ITEM IS TO RUN FROM THE PEDESTRIAN PUSH BUTTONS TO THE TERMINAL STRIP AT THE BASE OF THE POLES.
- (11) ELECTRICAL TRENCHES CROSSING DRIVEWAYS SHALL BE BACKFILLED WITH LIMESTONE SCREENING OR CRUSHED STONES.

TRAFFIC SIGNAL PAY QUANTITY NOTES

- (1) THE NEW TRAFFIC SIGNAL POWER SUPPLY INCLUDING FOOTING, CONDUIT, CONSOLE, BREAKERS, OVERRIDE, SWITCHES, GROUNDING, AND PULLBOX SHALL BE INSPECTED AND APPROVED BY A LICENSED CITY ENGINEER. TRAFFIC SIGNAL POWER SUPPLY. PRICE BID FOR THIS PAY ITEM SHALL INCLUDE THE COST OF THIS INSPECTION.
 FOR ADDITIONAL INFORMATION CONCERNING THE POWER SUPPLY CONTACT THE FOLLOWING PRIOR TO THE INSTALLATION:
 PERSON'S NAME.....TYLER CLINE
 WITH THE CITY OF.....MIAMI
 TELEPHONE NO.....918-542-6685
- (2) SYMBOLS AND LEGENDS ARE DIAGRAMMATIC ONLY AND LOCATIONS SHALL BE ADJUSTED FOR EXISTING FIELD CONDITION RELOCATIONS WILL BE MADE WITHOUT FIRST CONSULTING WITH THE CHIEF TRAFFIC ENGINEER.
- (3) PAY ITEM IS FOR THE REMOVAL OF ALL TRAFFIC SIGNAL EQUIPMENT AT THE INTERSECTION. ALL EXISTING SIDEWALKS AND RAMPS AFFECTED SHALL BE REPAIRED OR REPLACED TO NEAREST SAW CUT.

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