

REVISION DESCRIPTION	DATE
1 Changed project number on all sheets, from STPG-214D(075)AG, to, STPG-214D(073)AG.	18 Aug 2016

TRAFFIC SIGNAL PAY QUANTITY NOTES

- (12) CONTRACTOR SHALL SUPPLY A TRAFFIC SIGNAL CABINET AND CONTROLLER MANUFACTURED BY NAZTEC, INC. THAT SHALL OPERATE AS SHOWN ON THE SIGNAL PLANS AND DETAIL SHEETS. PROVIDE SERIES 900 ATC CONTRLLER
- (13) LIGHT EMITTING DIODE (LED) LAMPS WITH SPADE TAB CONNECTIONS SHALL BE USED IN LIEU OF INCANDESCENT TRAFFIC SIGNAL LAMPS. THE LED MODULES SHALL MEET THE REQUIREMENTS IN THE INSTITUTE OF TRAFFIC ENGINEERS (I.T.E.) STANDARD ENTITLED "VEHICLE TRAFFIC CONTROL SIGNAL HEADS - LIGHT EMITTING DIODE (LED) CIRCULAR SIGNAL SUPPLEMENT" (VTCSH-LED). LED LENSES SHALL BE DIALIGHT, GELCORE, DURALIGHT OR AN APPROVED EQUAL. WHEN LIT, ALL LED MODULES SHALL APPEAR TO DRIVERS TO BE INCANDESCENT BULB TYPE SIGNALS. THE WARRANTY FROM DEFECTIVE WORKMANSHIP AND MATERIALS SHALL BE FIVE (5) YEARS FROM THE DATE OF THE PROJECT'S FINAL ACCEPTANCE.
- (14) ELECTRONIC COPIES OF THE TRAFFIC SIGNAL CABINET SHEET FOR THE INTERSECTION(S) ON THIS PROJECT SHALL BE PROVIDED. CONTRACTOR SHALL INSTRUCT NAZTEC TO DEVELOP SUCH COPIES AND PROVIDE THEM TO THE CITY OF OKLAHOMA CITY, TRAFFIC MANAGEMENT DIVISION. COST TO BE INCLUDED IN THIS ITEM
- (15) AN INNOVATIVE TECHNOLOGY MODEL #HS-P-SP-120A-30A-RH PROTECTOR TRANSIENT VOLTAGE SURGE SUPPRESSOR OR EQUIVALENT SHALL BE INSTALLED BETWEEN THE AC POWER AND CABINET. THE SUPPRESSOR SHALL BE MOUNTED ON THE SIDE OF THE CABINET IMMEDIATELY ADJACENT TO THE AC TERMINAL BLOCK.
- (16) CONTROLLER MUST BE ABLE TO COMMUNICATE OVER THE EXISTING CITY OF OKLAHOMA CITY VERIZON CELLULAR SYSTEM VIA A SIERRA AIRLINK GX450 MODEM, CISCO 890 SERIES INTEGRATED SERVICE ROUTER, RACKMOUNT KIT FOR ROUTER, SIX (6) FEET OF STRAIGHT-THROUGH YELLOW ETHERNET CABLE, CISCO 890 SERIES IOS UNIVERSAL ANTENNA PLUS AP-GX450 MIMO ANTENNA (WHITE) PURCHASED THROUGH THE CITY OF OKLAHOMA CITY'S EXISTING CONTRACT WITH TURN KEY MOBILE AND INSTALLED BY THE CONTRACTOR ALL DEVICES INSTALLED MUST BE COMPATIBLE WITH EXISTING CITY CELLULAR SYSTEM. THE CITY WILL VERIFY COMMUNICATION EXISTS WITH THE CONTROLLER AT THIS LOCATION PRIOR TO FINAL ACCEPTANCE. COST OF ALL EQUIPMENT AND INSTALLATION NECESSARY TO ESTABLISH COMMUNICATION WITH CITY OF OKLAHOMA CITY CELLULAR SYSTEM SHALL BE INCLUDED IN THE COST OF THIS ITEM. ELECTRONIC COPIES OF THE CONTROLLER CABINET SHEET SHALL BE PROVIDED TO THE CITY OF OKLAHOMA CITY VIA NAZTEC. COST TO BE INCLUDED IN THIS ITEM.

THIS ITEM SHALL INCLUDE A "MMU TO TS2 CONTROLLER DATA CABLE", NAZTEC PART NUMBER 10225 - 2103.
- (17) CONTROLLER CABINET SHALL INCLUDE AN EXTENSION BASE WITH AN HEIGHT OF 15 INCHES AND BASE DIMENSIONS AND FINISH TO MATCH THE CABINET INSTALLED.
- (18) CONTRACTOR SHALL COVER NEW SIGNAL HEADS WITH TRAFFIC SIGN AND SIGNAL COVER CONCEPTS MODEL 3VLC COVERS OR APPROVED EQUAL WHEN SIGNAL HEADS HAVE BEEN INSTALLED ON MAST ARMS. SIGNAL HEADS ARE TO REMAIN COVERED UNTIL TRAFFIC SIGNALS HAVE BEEN TURNED ON. REMOVED COVERS TO BECOME THE PROPERTY OF THE CITY OF OKLAHOMA CITY. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- (19) CONCRETE PULL BOXES SHALL HAVE A POLYMER CONCRETE COVER, FRAME AND BODY AND A MINIMUM LOAD RATING OF 20,000 LBS. POLYMER CONCRETE PULL BOXES SHALL BE ARMORCAST, QUAZITE OR AN APPROVED EQUAL. FIBERGLASS AND/OR PLASTIC PULL BOXES OR COMPOSITES OF SAME WILL NOT BE ACCEPTED.

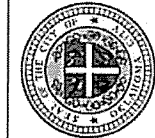
- (20) SIGNAL POLE HANDHOLE COVERS SHALL BE ONE PIECE FORMED FROM ABS PLASTIC, PEARL GRAY IN COLOR AND SHALL BE SUITABLE FOR EXPOSURE TO SUNLIGHT AND ALL WEATHER CONDITIONS. HANDHOLE COVERS SHALL LATCH WITH TWO SCREW LATCHES AND SHALL FIT TIGHTLY TO THE ENCLOSURE RING TO CREATE A RAINPROOF SEAL. LATCH SCREWS SHALL BE ¼-20 STAINLESS STEEL FLAT SOCKET HEAD SCREWS WITH TAMPER-RESISTANT FEATURES.
- (21) THE PRIORITY CONTROL SYSTEM SHALL INTERFACE WITH THE TRAFFIC CONTROLLER TO GIVE EMERGENCY VEHICLES APPROACHING THE INTERSECTION A GREEN SIGNAL INDICATION WITH ALL OTHER INDICATIONS BEING RED. THE SYSTEM SHALL BE CAPABLE OF TWO PRIORITY LEVELS AND LOG THE LAST 1000 EVENTS WITH TIME DATE STAMP. EMITTER SHALL BE SELECTABLE TO TRANSMIT UP TO 1000 VEHICLE CODES. ALL EQUIPMENT IN THE SYSTEM SHALL MEET NEMA ENVIRONMENTAL STANDARDS. THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE ASSISTANCE TO THE CONTRACTOR OR AGENCY INSTALLING THE EQUIPMENT AS TO THE BEST LOCATION FOR THE DETECTOR PLACEMENT AT EACH INTERSECTION INVOLVED WITH THE PROJECT. ALL EQUIPMENT MUST BE PLAINLY MARKED AS TO THE MANUFACTURER OF THE EQUIPMENT AND PROVIDE CLEAR IDENTIFICATION AS TO THE MANUFACTURER'S MODEL AND SERIAL NUMBER OF EACH UNIT.

NEMA CERTIFICATION AND TEST REPORTS SHALL BE PROVIDED UPON REQUEST BY THE ENGINEER.

THE PRIORITY CONTROL SYSTEM PROVIDED ON THIS PROJECT SHALL BE COMPLETELY COMPATIBLE WITH THE ITS SYSTEM BEING USED BY THE CITY OF OKLAHOMA CITY.
- (22) CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND 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.

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. (NOTE FOR CONSULTANT OR DESIGNER: THIS NOTE SHALL BE USED WHEN TRAFFIC CONTROL IS A LUMP SUM PAY ITEM.)
- (23) SEE SERVICE POLE SCHEDULE; FOR ADDITIONAL INFORMATION CONCERNING THE SERVICE POLE, CONTACT THE FOLLOWING PRIOR TO INSTALLATION:
PERSON'S NAME STUART CHAI
WITH THE COMPANY/CITY OF..... OKLAHOMA CITY TRAFFIC MANAGEMENT DIVISION
COMPANY'S/CITY'S TELEPHONE NO. (405) 297-2531
- (24) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY. SEE THE 2009 SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

The City of
Oklahoma City
Public Works Department
Traffic Management Division



PROJECT NO.
STPG-214 B(075)AG

JOB PIECE NO.
31566(04)

DESIGNED BY: xx

DRAWN BY: tvn

APPROVED BY: xxxx

DATE: MMDDYY

PAY QUANTITIES AND NOTES
S PORTLAND AVE & SW 119th ST