TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BH-I-40-4(86)	43

ITS SCOPE OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACING THE EXISTING TDOT ITS SMART WAY FIBER OPTIC INFRASTRUCTURE TRUNK CABLE THROUGHOUT THE PROJECT LIMITS. THIS WORK WILL BE CONDUCTED IN TWO PHASES. THE FIRST PHASE INCLUDES REMOVING OR PULLING BACK, TO A SAFE LOCATION, THE EXISTING FIBER OPTIC TRUNK CABLE. ONCE COMPLETED THE CONTRACTOR WILL REMOVE EXISTING PULL BOXES, CONDUIT BANKS, STRUCTURAL CONDUIT, 2 VIDEO DETECTION POLES WITH FOUNDATIONS AND A CCTV POLE AS SHOWN IN PLANS. FOR PHASE 2 THE CONTRACTOR WILL INSTALL FIBER OPTIC CONDUIT BANKS, STRUCTURE CONDUIT, PULL BOXES, AND REINSTALL THE CCTV WITH NEW HD CCTV AND NEW LOWERING DEVICE. THE VDS POLES WILL BE REPLACED WITH A RDS AND RDS POLE AS SHOWN IN THESE PLANS. ONCE THE CONDUIT IS IN PLACE THE CONTRACTOR WILL RE-INSTALL THE EXISTING FIBER OPTIC TRUNK CABLE THROUGH THE CONDUIT AND SPLICE THE FIBER OPTIC CABLE. THIS INCLUDES THE INSTALLATION AND SPLICING OF ANY FIBER DROP CABLES REQUIRED TO RECONNECT THE EQUIPMENT BACK TO THE FIBER TRUNK CABLE.

THE CONTRACTOR IS RESPONSIBLE FOR RECONNECTING AND INTEGRATING THE EXISTING ITS EQUIPMENT BACK TO THE TDOT SMARTWAY SYSTEM, TESTING THE FIBER OPTIC CABLE AND EQUIPMENT TO SPECIFICATIONS AND DEMONSTRATING THAT THE SYSTEM IS IN GOOD WORKING ORDER BEFORE RECEIVING FINAL ACCEPTANCE FROM TDOT.

CONTRACTOR SHALL COORDINATE WITH THE REG 3 TMC TO DISCONNECT THIS PORTION OF THE SYSTEM CONTRACTOR SHALL DISCONNECT THE FIBER TRUCK LINE AT THE LOCATION SHOW IN PLANS AND PULL BACK THE EXISTING FIBER TO A SAFE LOCATION FOR STORAGE DURING CONSTRUCTION.

CONDUIT/CABLE LABEL DESCRIPTION

EXAMPLE LABEL: (SEE BELOW FOR DESCRIPTION OF EACH LINE)

{LINE 1} CONDUIT BANK TYPE 4 (290 LF)
{LINE 2} 1-2" CONDUIT W/BANK (290 LF)
{LINE 3} FO CABLE, 60F (490 LF)
{LINE 4} RDS COMM CABLE (340 LF)
{LINE 5} 3-#8 AWG POWER (365 LF)

LINE 1-INDICATES A TYPE 4 COMMUNICATIONS CONDUIT BANK. THIS WILL INCLUDE FOUR 1-1/4" HDPE CONDUITS AND THE LENGTH OF EACH CONDUIT IN THAT SEGMENT IS 290 LINEAR FEET.

LINE 2-INDICATES THAT ONE 2" CONDUIT WILL BE INSTALLED ALONG WITH THE COMMUNICATIONS CONDUIT BANK IN THE SAME TRENCH. TOTAL LENGTH OF CONDUIT IN THAT SEGMENT IS 290 LINEAR FEET.

LINE 3-INDICATES THAT FIBER OPTIC CABLE WITH 72 FIBERS WILL BE INSTALLED IN ONE OF THE CONDUITS. THE TOTAL LENGTH OF CABLE IN THAT SEGMENT INCLUDING THE COILS INSIDE THE PULL BOXES IS 490 LINEAR FEET.

LINE 4-INDICATES THAT RDS COMMUNICATIONS CABLE WILL BE INSTALLED IN ONE OF THE CONDUITS. THE TOTAL LENGTH OF CABLE IN THAT SEGMENT INCLUDING THE COILS INSIDE THE PULL BOXES IS 340 LINEAR FEET.

LINE 5-INDICATES THAT THREE #8 AWG POWER CABLES WILL BE INSTALLED INSIDE THE 2" CONDUIT. TOTAL LENGTH OF EACH CABLE IN THAT SEGMENT INCLUDING COILS INSIDE THE PULL BOXES IS 365 LINEAR FEET.

A NEW CONDUIT LABEL IS LISTED BETWEEN PULL BOXES.

LENGTHS ARE APPROXIMATE ONLY. PAYMENT WILL BE BASED ON ACTUAL LENGTHS INSTALLED.

PLANS LEGEND

TYPE C PULL BOX
TYPE D PULL BOX
TYPE E PULL BOX
LABEL FOR PULL BOX TYPE(S)
TYPE A CABINET
TYPE B CABINET
POWER CONDUIT — P (UG) —
FIBER CONDUIT — F (UG) —
CONDUIT W/ ONLY COPPER COMM CABLE USED — C (UG) —
CLOSED CIRCUIT TELEVISION CAMERA (ARROW REPRESENTS DIRECTION OF ARM AWAY FROM POLE)
DYNAMIC MESSAGE SIGN

RADAR DETECTOR SYSTEM
ELECTRICAL DEMARCATION POINT
EXISTING TYPE A CABINET
EXISTING TYPE B CABINET
EXISTING TYPE C CABINET
EXISTING POWER CONDUIT — — P (UG) — —
EXISTING COMMUNICATION CONDUIT — — F (UG) — —

** NOTE
ALL DEVICES ARE SHOWN FOR GRAPHICAL REPRESENTATION ONLY AND ARE NOT TO SCALE. THE CENTER OF THE POLE OR DEVICE IS INDICATED ON THE PLANS BY THE STATION LOCATION.

EXISTING RADAR DETECTION
EXISTING CLOSED CIRCUIT TELEVISION CAMERA (ARROW REPRESENTS DIRECTION OF ARM AWAY FROM POLE)
EXISTING DYNAMIC MESSAGE SIGN
EXISTING COMMUNICATIONS PULL BOX
EXISTING ELECTRICAL PULL BOX

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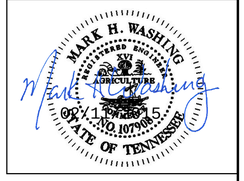

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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