**ITEM 630 SIGNING, MISC.: SOLAR POWERED L.E.D. PEDESTRIAN CROSSING SIGN SYSTEM**

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A PEDESTRIAN CROSSING WARNING SIGN SYSTEM. EACH SYSTEM SHALL CONSIST OF TWO PEDESTRIAN CROSSING SIGN ASSEMBLIES (ONE ASSEMBLY ON EACH SIDE OF THE ROADWAY) AT EACH CROSSING LOCATION INDICATED IN THE PLANS. THE CROSSING SIGNS SHALL INCLUDE L.E.D.-ENHANCED BORDERS THAT ARE SOLAR POWERED AND PEDESTRIAN ACTIVATED. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED.

EACH CROSSING SIGN SYSTEM SHALL BE A TAPCO BLINKERSIGN PEDESTRIAN CROSSWALK SYSTEM, MODEL 600085 AND SHALLINCLUDE THE FOLLOWING:

1. PEDESTRIAN CROSSING (W11-2) OR COMBINED BICYCLE/PEDESTRIAN (W11-15) SIGNS AS SHOWN IN THE PLANS. EACH W11-2 OR W11-15 SIGN SHALL BE A TAPCO “BLINKERSIGN” WITH L.E.D. MODULES WITHIN THE SIGN BORDER. THE SIGNS SHALL BE MOUNTED BACK-TO-BACK ON EACH SIGN SUPPORT.

2. DIAGONAL DOWNWARD ARROW PLAQUES (W16-7P) AS INDICATED IN THE PLANS. PLAQUES SHALL NOT INCLUDE L.E.D.S. AND SHALL BE MOUNTED BACK-TO-BACK ON EACH SIGN SUPPORT.

3. SELF-CONTAINED, TOP-OF-POLE, COMBINATION SOLAR PANEL AND CABINET ENCLOSURES. EACH ENCLOSURE SHALL INCLUDE A 12V 20W SOLAR PANEL, 44AH BATTERY CAPACITY, AND TAPCO BLINKERBEAM WIRELESS RADIO. THE ENCLOSURES SHALL BE ORIENTED TOWARD THE SOUTH FOR MAXIMUM SOLAR EXPOSURE AND MAXIMUM OUTPUT.

4. POLARA BULLDOG PUSHBUTTONS COMPLIANT WITH THE CITY’S TRAFFIC QPL. AN R10-25 PUSHBUTTON SIGN SHALL ACCOMPANY EACH PUSHBUTTON. PUSHBUTTONS SHALL BE MOUNTED 42" ABOVE THE PEDESTRIAN PATHWAY SURFACE WITH THE PUSHBUTTON SIGN MOUNTED JUST ABOVE THE PUSHBUTTON.

5. ANTI-VANDAL MOUNTING KITS FOR ATTACHING SIGNS BACK-TO-BACK ON THE DESIGNATED SUPPORTS. EACH W11-2 OR W11-15 BLINKERSIGN SHALL BE ATTACHED USING TAPCO PART NUMBER 109673 OR AS RECOMMENDED BY THE MANUFACTURER. STATIC W16-7P ARROW PLAQUES SHALL BE MOUNTED USING TAPCO PART NUMBER 112574 OR AS RECOMMENDED BY THE MANUFACTURER.

SIGN SUPPORT PEDESTALS AND FOUNDATIONS ARE NOT INCLUDED IN THIS ITEM OF WORK AND SHALL BE PAID FOR SEPARATELY.

THE SIGNS AND PUSHBUTTONS SHALL REMAIN COVERED UNTIL THE INSTALLATION HAS BEEN INSPECTED BY THE CITY OF COLUMBUS DIVISION OF TRAFFIC MANAGEMENT FOR INSTALLATION DEFECTS, CONFLICTS, AND SAFETY HAZARDS. UPON APPROVAL BY THE DIVISION OF TRAFFIC MANAGEMENT, THE CONTRACTOR SHALL UNCOVER THE SIGNS AND PUSHBUTTONS AND OPEN THE CROSSWALK FOR USE.

PAYMENT FOR ITEM 630 SIGNING, MISC.: SOLAR POWERED L.E.D. PEDESTRIAN CROSSING SIGN SYSTEM SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH SYSTEM, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED SIGNS, SIGN MOUNTING HARDWARE, PUSHBUTTONS AND WIRING, SOLAR PANELS, BATTERIES, RADIOS AND OTHER ELECTRICAL COMPONENTS, LABOR AND MATERIALS NECESSARY TO CONSTRUCT AND INSTALL ONE FULLY FUNCTIONING SYSTEM PER EACH PEDESTRIAN CROSSING INDICATED IN THE PLANS TESTED AND ACCEPTED. *7/26/22*