### **ADDENDUM NO. 3**

**DATE:** October 20, 2021

**TO:** All Potential Proposers

**FROM:** Taylor Childress, Procurement Specialist, City of Knoxville

**SUBJECT:** Addendum No. I to ITB- High Mast Replacement

**PROPOSALS TO BE OPENED**: November 5, 2021 11:00 AM (Eastern Time)

This addendum is being published to provide clarification regarding the above referenced ITB. This addendum becomes a part of the contract documents and modifies the original specifications as follows:

### **Items for Clarification:**

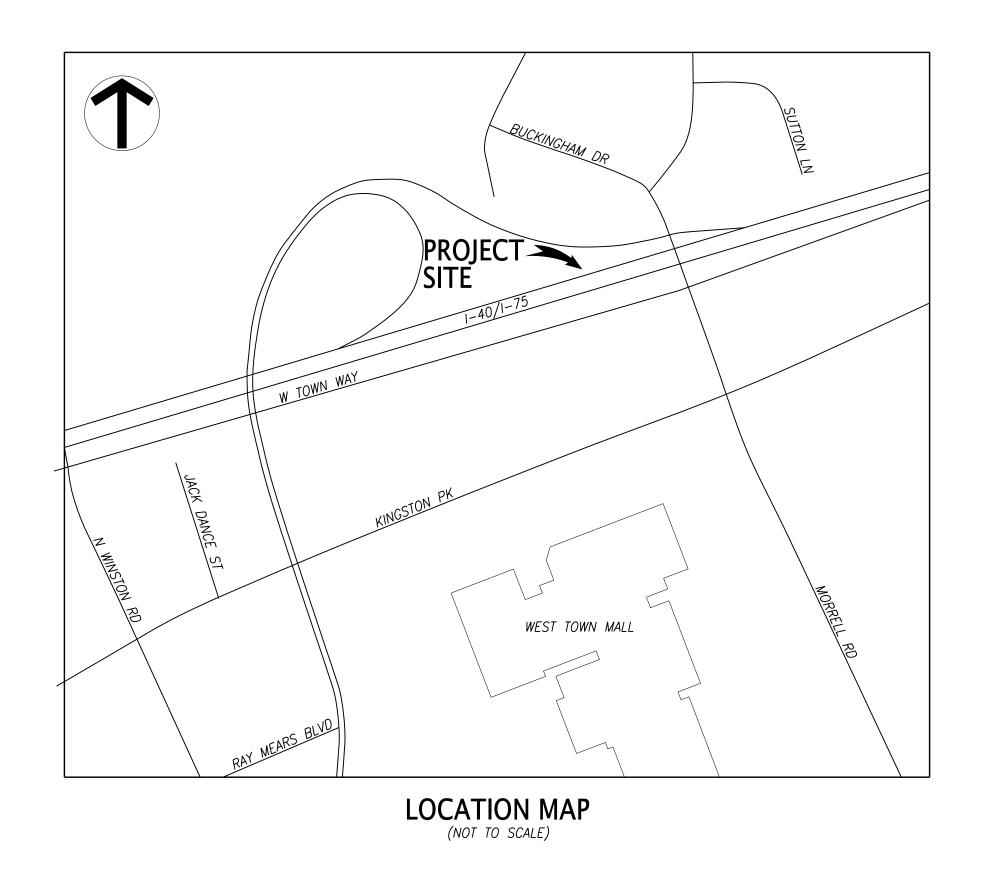
1. Updated catalog numbers from addendum 1. Please see below.

# WEST HILLS HIGH MAST POLE REPLACEMENT KNOX COUNTY, TENNESSEE

## STANDARD DRAWINGS

TENNESSEE DEPT. OF TRANSPORTATION STANDARD ROADWAY DRAWINGS

DWG NO.	REV. DATE	TITLE
STD-8-4	02/2003	SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS
T-L-1	11/17/2020	STANDARD LIGHTING FOUNDATION
T-L-3	04/15/1996	DETAILS STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05/25/2011	STANDARD LIGHTING DETAILS CONDUIT
	03/23/2011	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION



### **DRAWING INDEX**

SHEET NO.	REV. NO.	ISSUE DATE	<u>TITLE</u>
E1	0	10/19/21	COVER SHEET
E2	0	10/19/21	LIGHTING NOTES, LEGEND, ESTIMATED MATERIAL QUANTITIES, LIGHTING PLAN, AND DETAILS



FULGHUM, MACINDOE, & ASSOCIATES, INC. CONTACT: H. ADAM DUNCAN, P.E. 10330 HARDIN VALLEY ROAD, SUITE 201 KNOXVILLE, TENNESSEE 37932

TELEPHONE: 865.690.6419 865.690.6448

10/19/21

Scale

KNOXVILLE, TN 37932

ESTIMATED MATERIAL QUANTITIES						
ITEM NO.	DESCRIPTION		QUANTITY	FOOTNOTE		
714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	LF	10			
714-06.05	CABLE (1/C #6 AWG)	LF	30	1		
714-08.09	LIGHT STANDARDS (140-FT HIGH MAST, 10 RING)	EA	1	2		
714-08.27	FOUNDATION FOR LIGHT STANDARDS — HIGH MAST	EA	1	3		
714-09.64	LED LUMINAIRES — HIGH MAST (400W, TYPE A)	EA	10	4		
714-25.01	ELECTRICAL CONNECTION (SPLICING IN PROPOSED PULLBOX)	LS	1	5		
714-72.10	PULL BOX WITH COVER MEDIUM	EA	1			

2. NOTED MOUNTING HEIGHT ARE MEASURED ABOVE CENTERLINE OF THE PAVEMENT SECTION PERPENDICULAR TO THE STATION OF

3. UNIT INCLUDES BORING, EXCAVATION, MATERIALS, LABOR, EQUIPMENT, AND OTHER ITEMS NECESSARY FOR A COMPLETE AND

5. CONNECTIONS SHALL BE MADE WITH SPLIT—BOLT CONNECTORS WRAPPED IN SELF—VULCANIZING RUBBER TAPE APPLIED IN

INSTALLED LIGHT STANDARD. ACTUAL POLE HEIGHTS WILL VARY FROM THIS MOUNTING HEIGHT AND MUST BE VERIFIED PRIOR TO

HALF-LAP LAYERS TO GIVE A SMOOTH COVERING OF NOT LESS THAN 2 TIMES THE THICKNESS OF THE WIRE INSULATION. OVER

1. CONDUCTORS SHALL BE STRANDED COPPER WITH THWN-2, 1000V INSULATION OR APPROVED EQUAL.

**FOOTNOTES** 

FUNCTIONING INSTALLATION.

4. REFERENCE LUMINAIRE SCHEDULE FOR SPECIFIC REQUIREMENTS.

THIS, APPLY TWO LAYERS OF HALF-LAPPED 7-MIL VINYL PLASTIC TAPE.

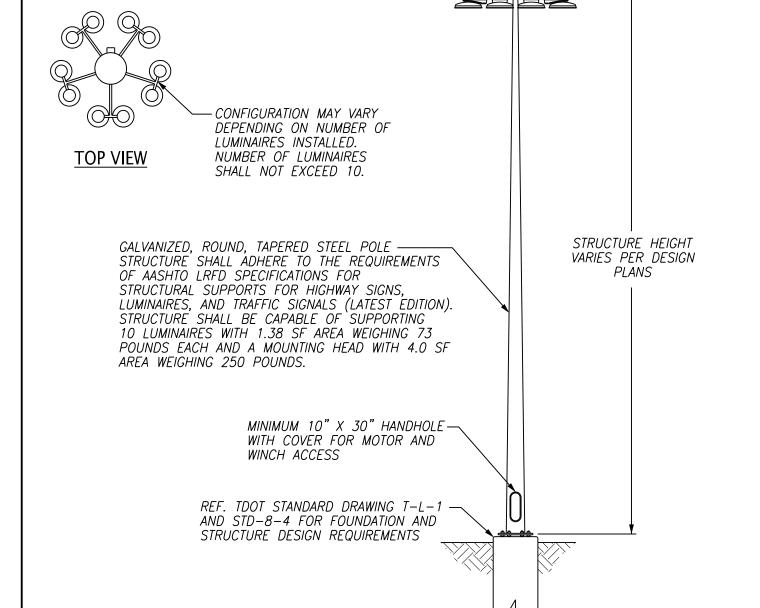
LUMINAIRE SCHEDULE								
TYPE	LUMINAIRE MANUFACTURER	CATALOG NUMBER	LAMP TYPE	LAMP DESCRIPTION	NOMINAL POWER (WATTS)			
Α	HOLOPHANE	HMLED3-PK2-30K-HVOLT-DGRA-AW-P7	LED	HIGH MAST	319			

## INSTRUMENT NORTH SCALE: 1" = 10'

### LIGHTING NOTES:

- 1. PLANIMETRIC AND PROPERTY DATA WAS PROVIDED BY KGIS ON AUGUST 11, 2021. INFORMATION HAS BEEN SUPPLEMENTED VIA FIELD OBSERVATION AND HANDHELD GPS AS REQUIRED.
- 2. MAXIMUM VOLTAGE DROP SHALL BE LIMITED TO 5%.
- 3. WORK SHALL CONFORM TO NATIONAL, STATE, & LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN APPLICABLE CODES, CONTACT THE AUTHORITY HAVING JURISDICTION FOR CLARIFICATION.
- 4. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS & FEES RELATIVE TO THE INSTALLATION OF HIS OR HER WORK.
- 5. LIGHTING INSTALLATIONS MUST BE INSPECTED BY THE CITY OF KNOXVILLE PRIOR TO SERVICE CONNECTIONS. CONTACT THE CITY OF KNOXVILLE TRAFFIC ENGINEERING STREETLIGHT SYSTEMS MANAGER (865-215-6046) AT LEASE THREE WORKING DAYS PRIÒR TO CONSTRUĆTION.
- 6. CONTRACTOR SHALL FURNISH AND INSTALL SPECIFIED EQUIPMENT OR APPROVED EQUAL. ADDITIONAL EQUIPMENT SUCH AS JUNCTION BOXES, HANGERS, OR FITTINGS MAY BE REQUIRED FOR A COMPLETE AND WORKING ELECTRICAL SYSTEM, WHETHER OR NOT SUCH EQUIPMENT IS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED.
- 7. EXACT LOCATION OF EQUIPMENT AND ACCESSORIES SHALL BE ADJUSTED TO SUIT FIELD CONDITIONS. INSTALLATION MUST COMPLY WITH CLEARANCES SPECIFIED BY NEC, MANUFACTURERS SPECIFICATIONS, AND APPLICABLE CODES.
- 8. LOCATE POLES, JUNCTION BOXES, ETC. OUTSIDE OF PAVED AREAS UNLESS OTHERWISE NOTED.
- 9. ALL SECONDARY ELECTRICAL EQUIPMENT AND CONNECTIONS SHALL BE UNDERWRITER'S LABORATORY (UL) LISTED AND LABELED FOR THEIR INTENDED USE.
- 10. ELECTRICAL CONDUCTORS SHALL BE TYPE THWN-2 OR APPROVED EQUAL EXCEPT WHERE OTHERWISE NOTED.
- 11. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC EXCEPT WHERE OTHERWISE NOTED. EXPOSED CONDUIT SUCH AS RISERS SHALL BE SCH 80 PVC OR RGS THAT EXTENDS A MINIMUM OF 18 INCHES BELOW GRADE.
- 12. UNDERGROUND CONDUIT SHALL HAVE 30" MINIMUM COVER AND 12" MINIMUM CLEARANCE TO OTHER UTILITIES EXCEPT WHERE OTHERWISE NOTED.
- 13. CONDUCTORS SHALL BE PROPERLY TERMINATED AND NEATLY
- 14. SUBSURFACE UTILITIES SUCH AS GAS, WATER, SEWER, STORM, ELECTRIC, AND COMMUNICATIONS LINES ARE NOT SHOWN ON THE PLANS BUT DO EXIST IN THE PROJECT AREA. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY POTHOLING AND BY CONTACTING THE UTILITY COMPANIES INVOLVED.
- 15. UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, AT 1-800-351-1111.
- 16. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. FURNISH ANY SPECIAL EQUIPMENT TO WORK OVER AND AROUND THE UTILITIES AT THE CONTRACTOR'S EXPENSE.
- 17. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS TO NOTIFY THEM OF WORK IN THE AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY. NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
- 18. TRENCH DESIGN AND SAFETY FOR UNDERGROUND CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- 19. ADEQUATE DRAINAGE, EROSION, AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S FAILURE TO MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 20. THE CONTRACTOR SHALL FURNISH & INSTALL GRASS SEED, STRAW, SOD, CONCRETE, ASPHALT, MULCH, LANDSCAPE MATERIALS, ETC. AS REQUIRED TO RESTORE THE GROUND TO ITS ORIGINAL OR BETTER CONDITION.

## 2002



TYPICAL HIGH-MAST STRUCTURE E2 / NTS

(1) POLE FOUNDATION (REF. TDOT STANDARD DRAWING T-L-1 FOR HIGH MAST POLE FOUNDATION REQUIREMENTS) (1) 140-FT STEEL POLE (10) LUMINAIRE TYPE "A" (REF. TDOT STANDARD DRAWING T-L-4 FOR CONDUIT INSTALLATION)

> INTERCEPT EXISTING LIGHTING -CONDUIT AND CONDUCTOR WITH (1) TYPE B PULLBOX (REF. TDOT STANDARD DRAWING

RETIRE EXISTING FOUNDATION AND CONDUIT IN PLACE

(1) #6CU GND

CONNECT TO EXISTING CONDUCTORS

INSIDE PROPOSED PULLBOX

(EXIT 380, WEST HILLS)

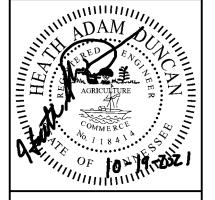
PROPOSED HIGH MAST LIGHTING STANDARD EXISTING FOUNDATION TO BE RETIRED

STREET LIGHTING CONDUIT TO BE RETIRED ---- (SL) ----EXISTING STREET LIGHTING CONDUIT

DETAIL REF. (DETAIL NO./SHEET NO.)

MACINDOE & ASSOCIATES, INC.

> 10330 HARDIN VALLEY ROAD SUITE 201 KNOXVILLE, TN 37932 OFFICE: 865.690.6419 FAX: 865.690.6448 www.fulghummacindoe.com



HILLS HIGH MAST
E REPLACEMENT
E 40 WESTBOUND EXIT 38
ILLE, TENNESSEE 37912 WEST H
POLE
TERSTATE 4
KNOXVILL

CON TELEI AIL:

LIGHTING NOTES, LEGEND ESTIMATED MATERIAL QUANTITIES, LIGHTING PLAN, AND DETAILS

Sheet Project 301.013.03 Date 10/19/21

Scale

1"=10'

LEGEND:

PROPOSED PULLBOX PROPOSED STREET LIGHTING CONDUIT

(1/E3)

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### End of Addendum. 3