



GENERAL NOTE

SPECIFICATIONS: KENTUCKY DEPARTMENT OF HIGHWAYS, 1956 EDITION WITH AMENDMENTS

SCOPE OF WORK: REVISE PRESENT ROADWAY AND NAVIGATION LIGHTING SYSTEMS OF THE SUSPENSION BRIDGE. THE PRESENT ROADWAY LIGHTING SYSTEM CONSIST OF TWO SERIES CICUITS WITH EACH CIRCUIT CONNECTED TO A 10 K W TRANSFORMER. ALTERNATE LIGHTS ON EACH SIDE ON ALTERNATE SERIES SYSTEMS. PLANS ARE PREPARED TO ELIMINATE ONE SERIES SYSTEM AND PUT 26 400 W. MERCURY VAPOR LAMPS ON DOWN STEAM SIDE (SIDEWALK SIDE). ALL OLD LIGHT STANDARDS ON BOTH SIDES TO BE REMOVED AND ALL HOLES IN TOP CHORD UPSTREAM SIDE TO BE COVERED WITH A METAL COVER TO PREVENT WATER ENTERING TOP CHORD. (SEE PLANS FOR DETAIL). USE 20 KW TRANSFORMER FROM C. & O. BRIDGE CINCINNATI.

OIL SHOULD BE TESTED BEFORE NEW INSTALLATION.

ALL WIRE IS ARMORED CABLE, ASSUMED TO BE GOOD. SOME TWO YEARS AGO THE CABLE WAS CHECKED WITH A MEGGER AND FOUND TO BE SATISFACTORY. THIS CABLE TO BE CHECKED AGAIN BY A MEGGER AND IF FOUND TO BE SATISFACTORY TO BE USED. DEFECTIVE WIRE ON SERIES CIRCUIT TO BE REPLACED WITH 5000 VOLT SUPER CORONEL GEOPRENE. PARALLEL CIR-

CUIT TO BE 600 V FLAMENOL. WIRE. WIRE FROM BALLAST TO LIGHTS TO BE #12 FLAMENOL.

THIS STATION TO BE REARRANGED ACCORDING TO SKETCH TO MAKE IT MORE ACCESSIBLE. FLOOR TO BE THOROUGHLY CLEANED.

MATERIAL SPECIFICATIONS: REFERENCE TO MANUFACTURER'S BRAND NAME AND TYPE OF MATERIAL SPECIFIEC HEREIN IS MADE FOR THE PURPOSE OF OBTAINING GOOD STANDARD MATERIAL. ANY OTHER MAKE OR BRAND OF SIMILAR DESIGN AND EQUAL QUALITITY MAY BE USED PROVIDED THAT, IF SUBSTITUTIONS ARE MADE, WRITTEN CONSENT MUST BE HAD FROM THE DEPARTMENT OF HIGHWAYS BEFORE WORK BEGINS. THE CONTRACTOR SHALL FURNISH IN TRIPLICATE, FOR APPROVAL BY THE DEPARTMENT OF HIGHWYAS, DRAWINGS,

CUTS, OR CATOLOG SHOWING ALL MATERIALS TO BE USED.

CROSSOVERS: EXISTING CROSSOVER CIRCUITS AT NAVIGATION LIGHTS TO BE REMOVED. OLD SERIES SYSTEM BEYOND NAVIGATION LIGHTS TO

WIRE:

SUB-STATION:

STRUCTURAL STEEL: ALL STRUCTURAL STEEL TO MEET A.S.T.M. A7-56T SPECIFICATIONS. THE CONTRACTOR TO FURNISH IN TRIPLICATE NOTARIZED

STATEMENTS THAT ALL STEEL MEETS THESE SPECIFICATIONS.

NAVIGATIONS LAMES: TO BE ADELAKE NO. 1331 AND TO HAVE ALUMINUM FRAMES. LENS TO BE 8" FRESNEL. EACH LAME TO BE EQUIPPED WITH A RELAY TO SWITCH CURRENT FROM MAIN LIGHT TO AUXILIARY LIGHT WHEN MAIN LIGHT FAILS. RELAY TO BE OF SUCH A CAPACITY THAT IT WILL CARRY ICO W 120 V LAMP INDEFINITELY WITHOUT BURNING, STICKING OR OVERHEATING THE COIL. GLOBES TO BE A 21

100 WATT WITH A LAMP CENTER OF 3-7/8".

POLE HEIGHT: ALL 400 W MERCURY VAPOR LUMINABRES TO BE MOUNTED OF 28'-0" ± OVER ROADWAY.

OLD MATERIALS TO BE REUSED: WIRE, IF IN GOOD CONDITION AFTER MEGGER TESTED, 5 MVA TRANSFORMER, DIL SWITCH, METER TRANSFORMERS, FUSED

ALL NEW STEEL, BURNT OR ABRAZED PLACES TO BE CLEANED AND GIVEN ONE COAT OF #1 RED LEAD PAINT AND ONE OF ALUMINUM PAINT. POINT .

TEST: AFTER NEW INSTALLATION THERE SHALL BE A MEGGER TEST FOR SHORTS AND GROUNDS.

ALL OLD MATERIAL NOT REUSED, SUCH AS WIRE, OIL SWITCHES, TRANSFORMERS, CUTOUTS, LAMP POSTS, ETC, TO BE REMOVED AND TURNED OLD MATERIAL:

OVER TO THE DEPARTMENT OF HIGHWAYS.

HOLES IN TOP CORD UPSTREAM SIDE TO HAVE 1/4" PLATES WELDED OVER ALL HOLES AT OLD STANDARD LOCATIONS. ALL WELDING TO BE DONE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS FOR WELDING HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY.

DAMAGE TO BRIDGE: CONTRACTOR SHALL NO IMPAIR STRENGTH OF BRIDGE BY DRILLING OR CUTTING WITHOUT WRITTEN CONSENT OF THE ENGINEER EXCEPT AS SHOWN

NAVIGATION LIGHTS: THE CONTRACTOR SHALL KEEP THE FARALLEL LIGHTING SYSTEM IN MORKING CONDITION EVERY NIGHT FROM TIME HE COMMENCES WORK UNTIL

A NEW LIGHT STANDARD TO BE ERECTED AT LIGHT #1 APPROXIMATELY 128 FEET FROM LIGHT #2. A CONCRETE BASE 1'-8" × 1'-8" × 3'-0" LIGHT STANDARD:

TO BE POURED FOR THIS BASE, WITH BOLTS PLACED IN CONCRETE TO ANCHOR POLE AND A 2" DUCT FOR WIRE TO ENTER POLE BASE. WIRE FOR #2 TO #1 TO BE #6 SUPER CORINGL GEOPRENE 5000 V. WIRE TO BE BURIED DIRECTLY IN GROUND. NO. CONDUIT. EXCESS MATERIAL

AND EQUIPMENT IN SUB-STATION TO BE REMOVED AND TURNED OVER TO THE DEPARTMENT OF HIGHWAYS.

LUMF SUM BID: THE LUMB SUM BID FOR THIS ITEM OF WORK SHALL BE FULL COMPENSATION FOR ALL MATERIAL, FABRICATION, ERECTION. WELDING, FITTING.

EQUIPMENT, TOOLS AND ALL LABOR AND INCIDENTALS NOT CALLED FOR, FOR A COMFLETE REVISING ROADWAY AND NAVIGATION LIGHTS AC-

CORDING TO PLANS AND SPECIFICATIONS.

WORKMANSHIP: ALL WORK TO BE DONE IN A WORKMANSHIP LIKE MANNER.

APPROXIMATE BILL OF MATERIAL	
No.	Description
26	Mercury Vapor Luminaires IES Type II
. 26	400 Watt El Globes
26	Ballast, GE. ILH. No. 95A2OJI
- 1	Open Circuit Protective Device G.E. Cat. No. 3PRIRBI
	Magnetic Relay Squre D Class 8502, A6-11, NEMA Type 1
1	Overload Relay Spare"D' Class 9065 Tupe 30-1
300	No 6. 5000 V. Super Coninol Geoprene Wire
6	Aluminum Navigation Lamps, Adams & Westlake Co's Adelake
1	Electric Bridge Lamps No. 1331 With 8' Fresnel Lenses.
12	A-21, 10 W - 115/125 V Filament Globes With 3 1/4 Light Centers Ction
2000	No 12 600 V Flamenol Wire (Ballast to Lights)
1	20 K.W. Series Transformer from C.E O. Bridge at Cincinnati.
5	Type 1 Light Standards
12	" 2 " "
	n 3
2	
2	Can. Pole Base 18x1-8x3-0 With Anchor Bolts
5	Plates P1 (see detail)
12	11 Pž 11 v
7	" P3 " "
16	F4 " "
16	Pipe caps for 2} " Pipe

SHEET 3 OF 3

COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS FRANKFORT COUNTY OF

MASON

MAY SVILLE KY-ABERDEEN OHIO

PROJECT NO. BRIDGE M.P. 81-4015-1

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