

TRAFFIC CONTROL

GENERAL NOTES

LAKE COUNTY LAK-90/271-188/0.00	OHIO FHWA REGION 5 FEDERAL PROJECT	111 185
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REMOVAL OF EXISTING ITEMS

ALL 630 REMOVAL ITEMS NOT SPECIFICALLY INCLUDING STORAGE OR RE-ERECTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

REMOVAL OF SIGN SERVICE

INCIDENTAL TO THE REMOVAL, RELOCATION OR MODIFICATION OF A SIGN SUPPORT IN ACCORDANCE WITH SPECIFICATION 630.12, SIGN SERVICE TO THE SUPPORT SHALL BE REMOVED. SIGN SERVICE CABLES SHALL BE DISCONNECTED AT THE SERVICE PULLBOX AND REMOVED. CONNECTION OF THE REMAINING CABLES SHALL CONFORM TO 625.11 TO INSURE CIRCUIT CONTINUITY.

SIGN LOCATIONS

SIGN LOCATIONS OF EXISTING AND PROPOSED SIGNS ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR PRIOR TO ERECTION OF ALL SIGN SUPPORTS (POSTS, BEAMS, AND OVERHEADS) SHALL STAKE THE PROPOSED LOCATION, INCLUDING OFFSET. OVERHEAD SUPPORT LOCATIONS SHALL ALSO INCLUDE FOUNDATION ELEVATIONS. THE ENGINEER SHALL APPROVE ALL SUPPORT LOCATIONS AND MAY ADJUST THE LOCATION TO CORRECT SLOPE AND SUBSURFACE DIFFICULTIES, SIGN SIGHT DISTANCE OBSTRUCTIONS, IMPROVE SAFETY AND ELIMINATE OVERHEAD OBSTACLES.

PAYMENT FOR STAKING SHALL BE INCIDENTAL TO THE VARIOUS SIGN SUPPORT ITEMS.

FLATSHEET SIGN INSTALLATIONS

ALL FREEWAY FLATSHEET SIGN INSTALLATIONS NOT BEHIND GUARDRAIL SHALL BE OFFSET 30 FEET FROM THE EDGE OF PAVEMENT. SEE SHEET 114A FOR DETAILS.

USE STANDARD DRAWING TC-42.20 FOR FLATSHEET SIGNS INSTALLED BEHIND GUARDRAIL, ON CROSS ROADS, ON RAMP AND BETWEEN RAMP AND MAINLINE.

TYPICAL GUIDE SIGN PLACEMENT

ALL GROUND MOUNTED BEAM SUPPORT SIGNS SHALL HAVE A 6 FT. OFFSET BEHIND GUARDRAIL IN LIEU OF THE 4 FT. OFFSET SHOWN IN STANDARD CONSTRUCTION DRAWING TC-42.10. SEE ELEVATION VIEWS FOR DETAILS, SHEETS 155-157 .

SIGNING FOR "OPTION LANES"

THE CONTRACTOR SHALL REFER TO THE DETAIL SHOWN ON SHEET 114A OF THE PLANS. TYPE "B" ARROWS SHALL BE USED FOR SIGNING THE OPTION LANE AND SHALL BE ORIENTATED AS SHOWN ON THE DETAIL. PRIOR TO THE ERECTION OF THE SIGN, THE ENGINEER SHALL VERIFY THAT THE ARROW TYPE AND ORIENTATION CONFORMS WITH THIS DETAIL.

REPLACEMENT OF EXISTING PULL BOXES

THE CONTRACTOR SHALL TAKE EXTREME CARE SO AS NOT TO DAMAGE EXISTING ELECTRICAL CABLES WHILE REPLACING EXISTING PULL BOXES WITH NEW PULL BOXES. THE CONTRACTOR SHALL REPLACE ALL CABLE WHICH IS DAMAGED DUE TO THE NEGLIGENCE OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

EXISTING LIGHTING CIRCUITS

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LIGHTING CIRCUIT LOCATIONS AND VOLTAGES PRIOR TO PROVIDING SIGN SERVICE TO ALL NEW SIGNS. FOR EXISTING CIRCUIT DETAILS REFER TO THE FOLLOWING APPLICABLE PLANS LISTED BELOW:

COUNTY, ROUTE, & SECTION	PROJECT NO.
CUY-271-9.92	670-83
LAK-90/271-188/0.00	637-79

COPIES OF THESE PLANS ARE AVAILABLE FOR REFERENCE AT DISTRICT 12 OF THE OHIO DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS

REFERENCES TO SUPPLEMENTAL SPECIFICATIONS 857,858,957,958,AND 961 ON TRAFFIC CONTROL STANDARD CONSTRUCTION DRAWINGS IN THESE PLANS SHALL BE CONSIDERED TO READ AS RESPECTIVE REFERENCES TO ITEMS 630, 631, 730, 731, AND 733.

LOOP DETECTORS

ESTIMATED QUANTITIES OF ITEM 632-LOOP DETECTOR PAVEMENT CUTTING AND LOOP DETECTOR WIRE, TYPE E ARE PROVIDED AS A CONTINGENCY WHEN WIRE IS CUT, BROKEN OR DESTROYED DUE TO PAVEMENT REPAIR, OR BUTT JOINT OPERATIONS.

NEW LOOP DETECTORS SHALL BE PLACED AT THE SAME LOCATIONS AND SAME SIZE AS THE EXISTING. THE LOOP DETECTOR WIRE SHALL BE PLACED TO THE PULL BOX OR POLE, WHICHEVER IS APPLICABLE, UNDER ITEM 632 AND TC-82.10.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM	DESCRIPTION	QUANTITY	UNIT
632	LOOP DETECTOR PAVEMENT CUTTING	110	L.F.
632	LOOP DETECTOR WIRE, TYPE E	250	L.F.

ITEM 631 - REMOVAL OF DISCONNECT SWITCH ENCLOSURE AND DISPOSAL

INCIDENTAL TO THE REMOVAL OF DISCONNECT SWITCH ENCLOSURE, THE DISCONNECT SWITCH SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

ITEM 603 - UNDERDRAIN FOR PULL BOXES

REFERENCE IS MADE TO STANDARD DRAWING HL-30.11 FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHEREVER POSSIBLE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE TO DRAIN BOTH EXISTING AND PROPOSED PULL BOXES.

ITEM 603 - 4" CONDUIT, TYPE E 100 LIN. FT.

EXIT NUMBER PANELS (GEP SERIES) ON SIGNS

EXIT NUMBER PANELS (GEP SERIES) ON OVERHEAD OR GROUND MOUNTED SIGNS SHALL BE PLACED TO THE TOP RIGHT OR LEFT OF THE MAJOR SIGN AS SHOWN ON THE ELEVATION VIEWS. LOCATION OF THE EXIT NUMBER PANEL IS BASED ON THE LOCATION OF THE EXIT RAMP IN RELATION TO THE THRU TRAFFIC MOVEMENT (RIGHT SIDE FOR RIGHT-HAND EXITS, LEFT SIDE FOR LEFT-HAND EXITS, ORIENTATED WITH THE DIRECTION OF TRAFFIC). ALL SIGNS WHICH HAVE EXIT NUMBER PANELS SHALL BE OFFSET AS STATED ABOVE.

ITEM 620 - DELINEATOR, MISC: SURFACE MOUNTED BASE

THIS ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO INSTALL FLEXIBLE DELINEATORS AS DESCRIBED BELOW AND DETAILED ON SHEET 114A OF THE PLANS.

1. POSTS SHALL BE OF A FLEXIBLE MATERIAL WITH A CIRCULAR CROSS-SECTION (TUBULAR) WITH A MINIMUM OUTSIDE DIAMETER OF 3 INCHES. POSTS SHALL BE CAPABLE OF BEING INSTALLED ON A SURFACE MOUNT BASE. POST HEIGHT SHALL BE 36 INCHES.

2. REFLECTORS SHALL BE TWO 3-INCH WIDE REFLECTORIZED BANDS SEPARATED BY A MAXIMUM OF 6 INCHES, WITH THE TOP BAND A MAXIMUM OF 2 INCHES FROM THE TOP OF THE POST. REFLECTOR COLOR SHALL BE SILVER-WHITE, TYPE G FLEXIBLE/REBOUNDABLE, HIGH INTENSITY SHEETING AS PER 730.19 OF THE ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE REFLECTOR SHALL BE MOUNTED WITH AN AGGRESSIVE, HIGH TACK TYPE ADHESIVE WHICH HAS ADEQUATE STRENGTH TO PREVENT LOSS OF THE REFLECTOR DURING THE LIFE OF THE POST.

3. BASE SPECIFICATIONS FOR SURFACE MOUNT DELINEATOR POSTS SHALL BE OF A DURABLE TYPE AS RECOMMENDED BY THE MANUFACTURER. PIN CONNECTIONS SHALL BE USED TO CONNECT THE DELINEATOR POST TO THE BASE.

4. ADHESIVE FOR DELINEATOR BASES SHALL BE BUTYL PADS, EPOXY OR BITUMINOUS ADHESIVE APPROVED BY THE MANUFACTURER FOR INSTALLATION ON ASPHALT SURFACES. THE SURFACE OF THE PAVEMENT SHALL BE FREE OF DIRT, DUST OR DEBRIS PRIOR TO APPLYING THE ADHESIVE.

ALL WORK AS MENTIONED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID EACH FOR ITEM 620 - DELINEATOR, MISC: SURFACE MOUNTED BASE.

SEE SHEET 123 FOR ESTIMATED QUANTITIES.

ITEM 631 - BALLAST, BY TYPE, INTEGRAL

BALLAST FOR MERCURY VAPOR LUMINAIRES SHALL BE MOUNTED WITHIN THE LUMINAIRE HOUSING (INTEGRAL) OR MOUNTED IN A WEATHERPROOF HOUSING ATTACHED TO OR BESIDE THE LUMINAIRE (CONTIGUOUS). BALLAST HOUSINGS SHALL BE OF CORROSION RESISTANT MATERIALS.

INTEGRAL BALLASTS SHALL BE USED TO LIGHT ALL NON-STRUCTURALLY MOUNTED OVERHEAD SIGNS AS SHOWN IN THE PLANS.

ITEM 631 - ENCLOSURE PADLOCKS

DISCONNECT SWITCH ENCLOSURES FURNISHED IN ACCORDANCE WITH SPECIFICATION 631.08 SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS, AND KEYING IN ACCORDANCE WITH THE FOREGOING SPECIFICATION.

ITEM 631 - REMOVAL OF LUMINAIRE AND DISPOSAL

INCIDENTAL TO THE REMOVAL OF THE LUMINAIRE, THE WIRING, BALLAST, AND THE MOUNTING BRACKET ASSEMBLY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

FORMER CONSTRUCTION PLANS

FOR EXISTING SIGNING DETAILS REFER TO APPLICABLE PLANS LISTED BELOW:

COUNTY, ROUTE & SECTION	PROJECT NO.
LAK-90-00.00	
LAK-90-3.14	
LAK-90-4.98	

COPIES OF THESE PLANS ARE AVAILABLE FOR REFERENCE THROUGH DISTRICT 12 OF THE OHIO DEPARTMENT OF TRANSPORTATION.