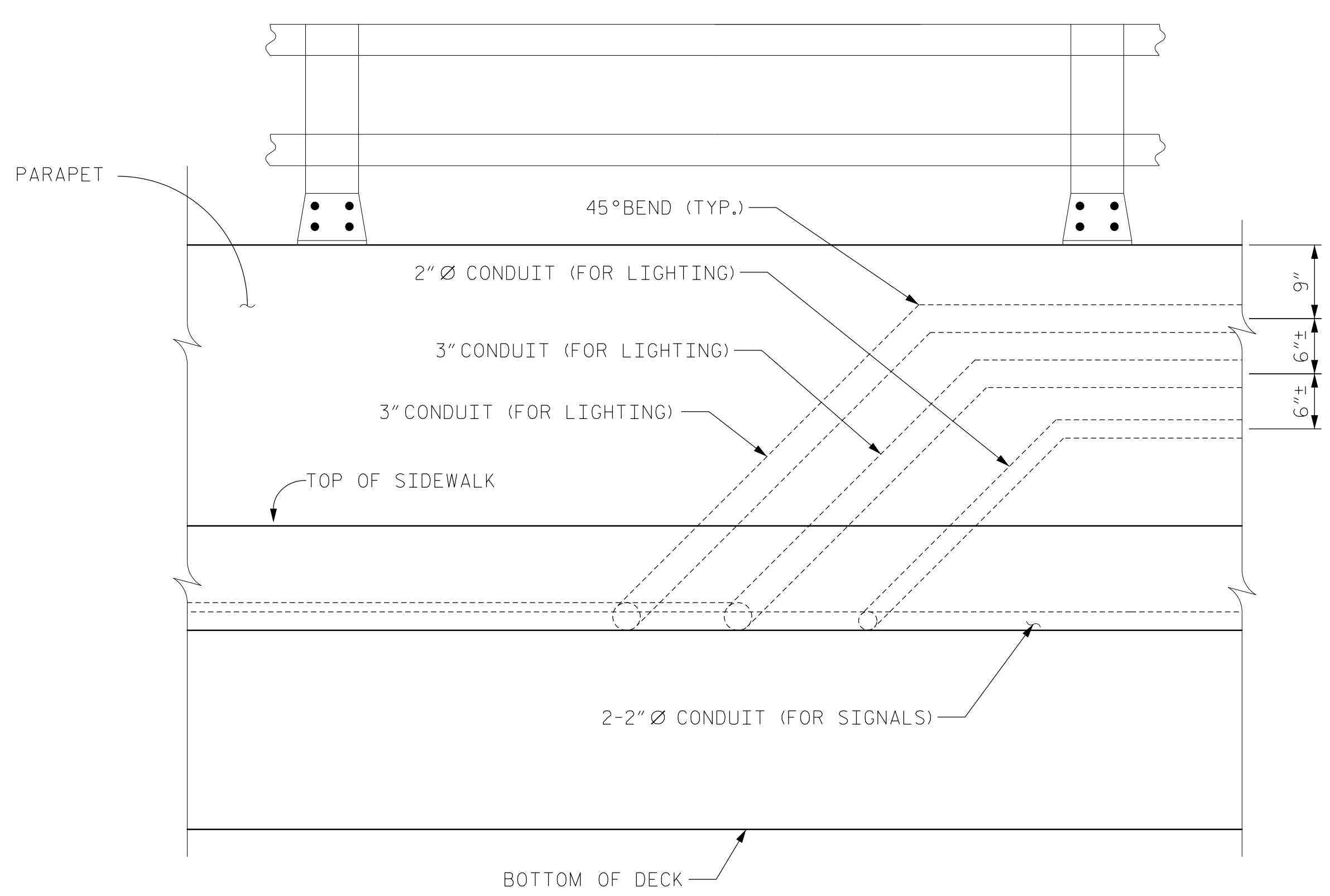
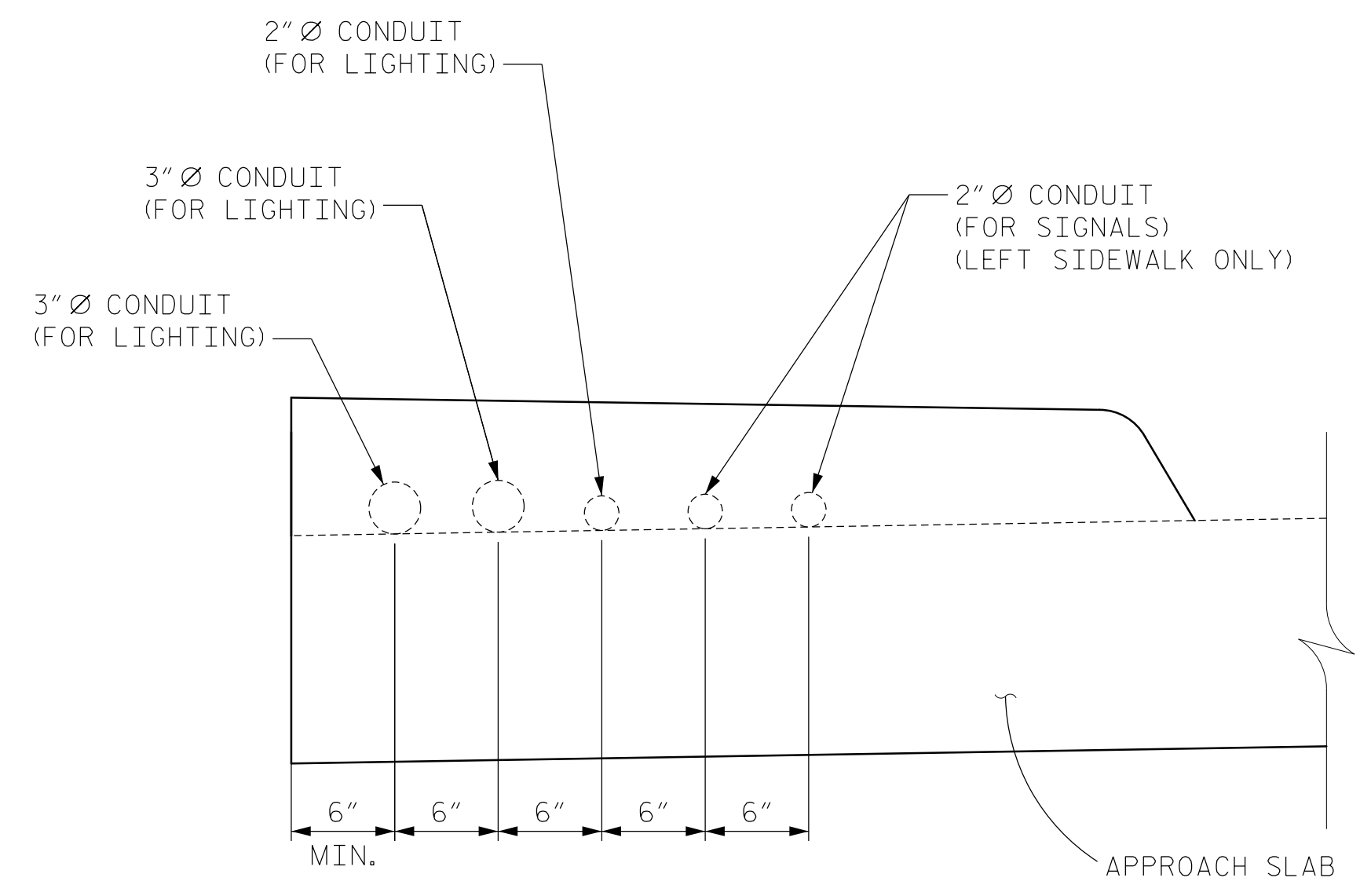


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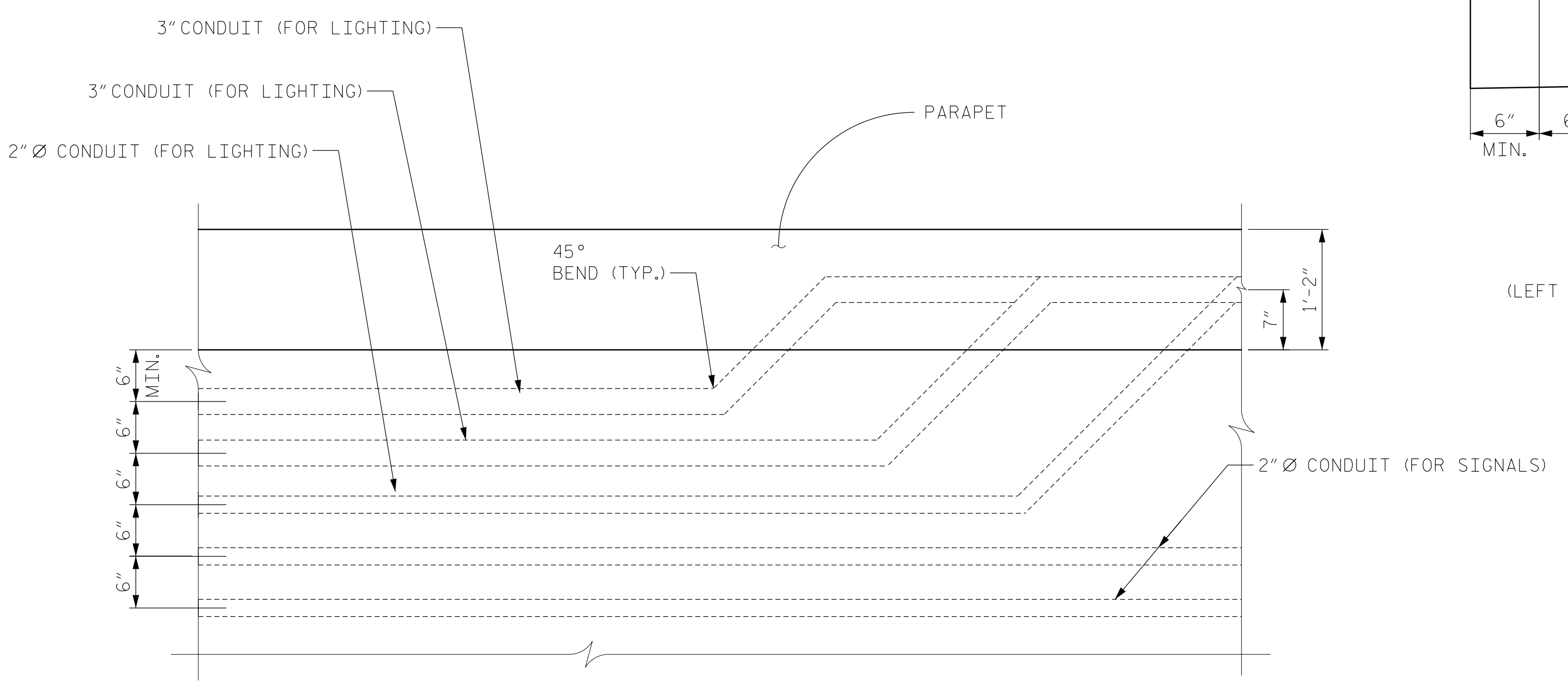
CONDUIT TRANSITION DETAIL (PROFILE)

TRANSITION TO OCCUR AT END OF PARAPET ON BRIDGE OR MOMENT SLABS



AT BEGIN APPROACH SLAB

(LEFT SIDE SHOWN; RIGHT SIDE SIMILAR EXCEPT OMIT 2\"/>



CONDUIT TRANSITION DETAIL (PLAN)

TRANSITION TO OCCUR AT END OF PARAPET ON BRIDGE OR MOMENT SLABS

NOTES:

1. CONDUITS IN LEFT RAIL & SIDEWALK SHOWN. CONDUITS IN RIGHT SIDEWALK & RAIL SHALL BE THE 2"Ø & 2-3"Ø CONDUITS FOR LIGHTING. NO 2"Ø CONDUITS FOR SIGNALS SHALL BE IN RIGHT SIDEWALK.
2. JUNCTION BOXES SHALL BE FORMED IN THE CONCRETE BRIDGE PARAPET AT EACH LIGHT POLE LOCATION. THE CENTERLINE OF THE JUNCTION BOX SHALL BE IN LINE WITH THE CENTERLINE OF THE LIGHT POLE.
3. EXTEND CONDUITS 1'-0" BEYOND APPROACH SLABS AT EACH END OF BRIDGE. SEE ROADWAY PLANS FOR CONDUIT OFF OF THE BRIDGE.
4. THE CONTRACTOR SHALL CLEARLY MARK THE CONDUIT FOR OVERHEAD LIGHTS.
5. OUTER COVER PLATE SHALL BE STAINLESS STEEL DIAMOND PATTERN TREADPLATE WITH A NON-MIRRORED FINISH IN ORDER TO REDUCE BRIGHT REFLECTIONS. INNER COVER PLATE SHALL BE PLAIN STAINLESS STEEL. 3/4"Ø PIPES SHALL BE STAINLESS STEEL AND FILLET WELDED TO THE INNER COVER PLATE. WELD SIZE SHALL BE DETERMINED BY FABRICATOR. WELDS SHALL BE GROUND SMOOTH.
6. SHARP EDGES ON THE COVER PLATES SHALL BE SMOOTHED.
7. WATERTIGHT EXPANSION COUPLERS FOR THE CONDUITS SHALL BE PROVIDED AT ALL EXPANSION JOINTS. FOR JOINT MOVEMENTS, SEE SHEET TITLED "EVAZOTE JOINT DETAILS AND APPROACH SLAB DETAILS".
8. 1/4"Ø X 4 1/2" LONG HEX BOLTS AND WASHERS FOR MOUNTING THE COVER PLATE SHALL BE STAINLESS STEEL.
9. 1/4"Ø EYE BOLTS SHALL BE EMBEDDED IN THE CONCRETE A MINIMUM OF 3". EYE BOLT AND NUTS SHALL BE STAINLESS STEEL.
10. LOCKS FOR THE CONDUIT BOX COVER PLATE WILL BE PROVIDED BY DUKE ENERGY.
11. CONTRACTOR SHALL COORDINATE WITH DUKE ENERGY TO GROUND BOTH COVER PLATES. THE GROUND WIRE SHALL BE LONG ENOUGH SO THAT THE COVER PLATES MAY BE LAID ON THE SIDEWALK WHILE PERFORMING MAINTENANCE INSIDE THE BOX. GROUND WIRE SHALL BE #6 COPPER WIRE.
12. ALL COST FOR FURNISHING AND INSTALLING THE CONDUITS, JUNCTION BOXES AND COMPONENTS SHALL BE INCLUDED IN THE UNIT PRICE BID OF "1'-2" X 2'-6" CONCRETE PARAPET".
13. CONTRACTOR SHALL "DRY FIT" THE CONNECTIONS PRIOR TO CASTING TO ENSURE PROPER ALIGNMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING CORRECT ALIGNMENT DURING CASTING. ALL COSTS ASSOCIATED WITH FIT-UP SHALL BE CONSIDERED INCIDENTAL. SHOULD ALIGNMENT NOT BE SUFFICIENT AFTER THE BARRIER PARAPET CONCRETE HAS CURED, CONTRACTOR SHALL PROPOSE A SOLUTION TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.
14. THE CONTRACTOR SHALL COORDINATE WITH DUKE ENERGY TO PROVIDE CONDUIT TIE-IN FROM BRIDGE LIGHTING CONDUIT TO STREET LIGHTING CONDUIT.

PROJECT NO. U-5008
MECKLENBURG COUNTY
 STATION: 20+45.05 -L- P.O.T. =
14+54.24 -Y4- P.O.T.
 SHEET 1 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

CONDUIT & JUNCTION BOX DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-41
1			3			SHEETS 78
2			4			

KCI
 ASSOCIATES OF NC, P.A.
 9741 SOUTHERN PINE BLVD
 SUITE J
 CHARLOTTE, NC 28273
 704-499-9452
 NC LICENSE No. C-0764

PROFESSIONAL ENGINEER
 SEAL
 032954
 JARED C. MEDLIN
 2/19/2015

2/18/2015 Y:\D:\owings\2011 DWGS\NB11-11 Sugar Creek Rd - NCDOT\Structures\RFC\SH41-U-5008_SD_CONL.dgn

DJD
 DRAWN BY : M.S.WILSON DATE : OCT. 2014
 CHECKED BY : J.C.MEDLIN DATE : OCT. 2014