

**20 FT BRACKET ARM DETAIL**  
Scale: 1" = 1'-0"

**PLAN VIEW-20 FT BRACKET ARM**  
Scale: 1/2" = 1'-0"

**DETAIL - D**  
N.T.S.

**POLE TOP CAP DETAIL**  
N.T.S.

**BASE WELDING DETAIL**

**SECTION A-A**  
N.T.S.

**SECTION B-B**  
N.T.S.

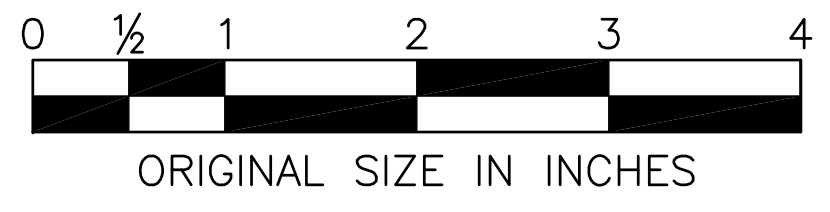
**DETAIL - C**  
N.T.S.

**NOTES**

1. Cast pole cap (Al. Alloy 356) attached with #10-24NC2-1/2" hex head stainless steel screws with cap point.
2. Shoe base (Al. Alloy 356-T6) with 13"-15" Ø bolt circle, shall be provided with cast Al. Alloy bolt covers and stainless steel 1 1/4" Ø hex head connection bolts, nuts, lock washers and flat washers. (4 required)
3. Upper members of the bracket arm shall be manufactured from 2 1/2" schedule 40 Al. Alloy 6061-T6 pipe, equipped with 2" slipfitters at the ends. The lower members shall be 5" O.D. Al. Alloy 6063-T6 tube with minimum of .188" wall thickness, ellipsed as noted, and tapered to 2 7/8" O.D. section at the end.
4. Bracket arm clamp assemblies shall be of extruded or formed Al. Alloy 6061-T6, of an approved design, attached with stainless steel bolts, nuts, lock washers and flat washers. (6 required for each clamp)
5. Pole shaft shall be provided with 1 1/2" Ø hole and 1/4" Ø rubber grommet for wiring.
6. The lighting standard assembly shall be certified to meet current AASHTO breakaway criteria for structural supports utilizing an approved transformer base.
7. All components submitted for use on NJTA projects must be fully interchangeable and similar in quality, in all respects with arms and bases shown herein. A comprehensive review and final determination for approval of all lighting standard equipment will be made by the Authority's Engineering Department prior to manufacture or use.
8. All stainless steel hardware shall be Type 304.

If you use this Standard Drawing:	
You also need	-
You may need	-

BY	EMG	05/2009
MADE	EMG	05/2009
TRACED	MDC	05/2009
CHECKED	EMG	05/2009
SUPERVISED	ALB	05/2009



APP.	NO.	DATE	REVISION
	0	05/2009	ORIGINAL DRAWING

**ELECTRICAL RETROFIT**  
NEW JERSEY TURNPIKE AUTHORITY  
**NEW JERSEY TURNPIKE**  
LIGHTING STANDARD TYPE 15 DETAILS

**HNTB** 145 RT. 46 WEST, SUITE 400, WAYNE, NJ 07470 - CO# 24G2800070  
**ANTHONY L. BARTELLO**  
N.J.P.E. License No. GE 45842

**STANDARD DRAWING**  
**ER-05**