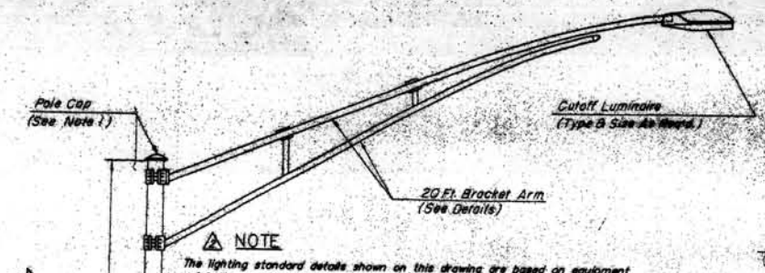
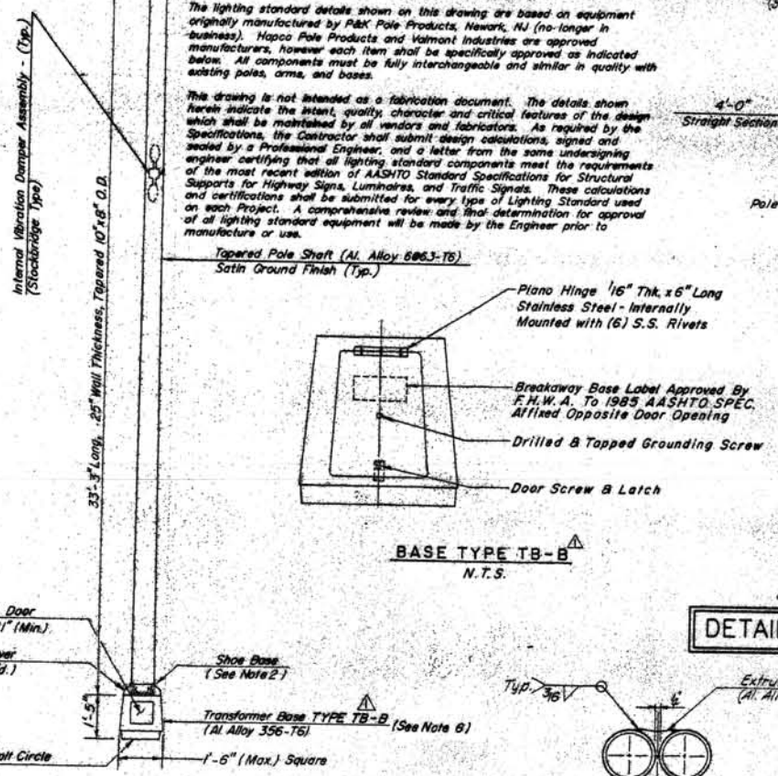



## ⚠ NOTE

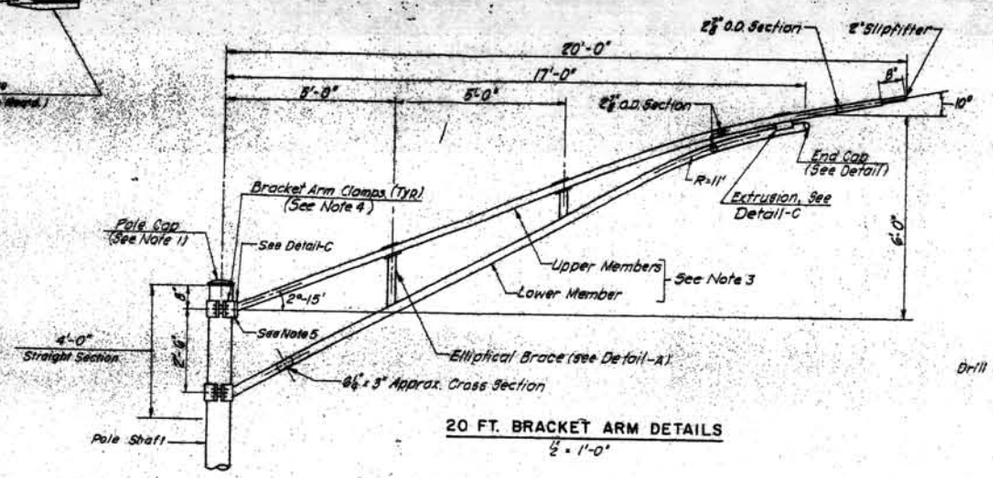
The lighting standard details shown on this drawing are based on equipment originally manufactured by P&K Pole Products, Newark, NJ (no-longer in business). Hapco Pole Products and Valmont Industries are approved manufacturers, however each item shall be specifically approved as indicated below. All components must be fully interchangeable and similar in quality with existing poles, arms, and bases.

This drawing is not intended as a fabrication document. The details shown herein indicate the intent, quality, character and critical features of the design which shall be maintained by all vendors and fabricators. As required by the Specifications, the Contractor shall submit design calculations, signed and sealed by a Professional Engineer, and a letter from the same undersigning engineer certifying that all lighting standard components meet the requirements of the most recent edition of AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. These calculations and certifications shall be submitted for every type of Lighting Standard used on each Project. A comprehensive review and final determination for approval of all lighting standard equipment will be made by the Engineer prior to manufacture or use.

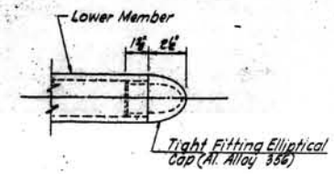



BASE TYPE TB-B ⚠
N.T.S.

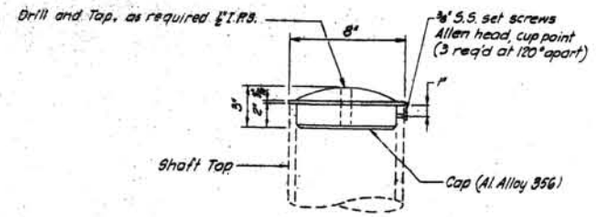
TYPE-15 LIGHTING STANDARD
No Scale



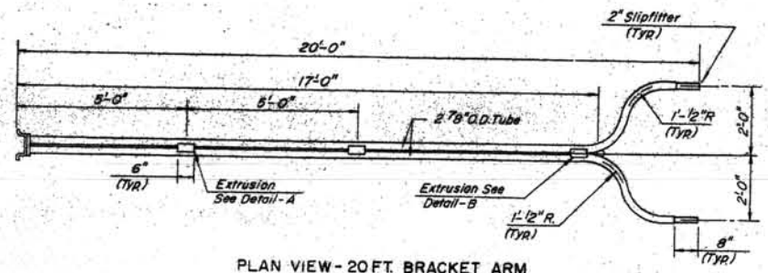

20 FT. BRACKET ARM DETAILS
1/2" = 1'-0"




END CAP DETAIL
1/4" = 0'-1"

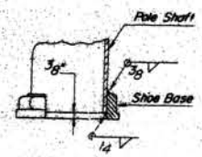



POLE TOP SLIPFITTER CAP DETAIL
(FOR EMERGENCY LIGHTING LUMINAIRES)
No Scale

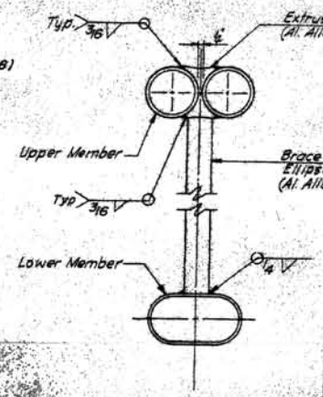



PLAN VIEW - 20 FT. BRACKET ARM
1/2" = 1'-0"

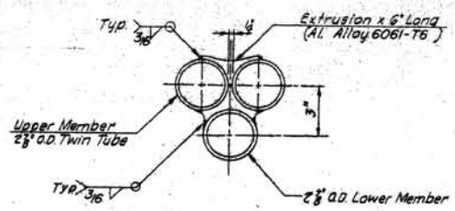
## ⚠ DETAILS THIS SHEET FOR USE ON TURNPIKE ONLY (SEE NOTE 7)



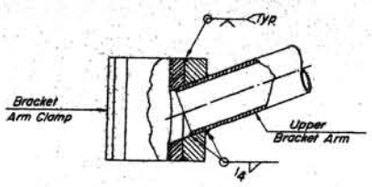

BASE WELDING DETAIL
No Scale




DETAIL-A
3" = 1'-0"




DETAIL-B
3" = 1'-0"




DETAIL-C
No Scale

## ⚠ LIGHTING STANDARD SCHEDULE

| LIGHTING STANDARDS | | | | | | | MAX. LUMINAIRE SIZES | |
|---|---|---|---|---|---|---|---|---|
| TYPES | MTG. * | BRACKET ARM | | POLE SHAFT | | | WEIGHT | EFF. PROJ. AREA |
| | | NO. | LENGTH | LENGTH | TAPER | WALL THK. | | |
| TYPE 15 | TB-B | 1 | 20' | 33'-3" | 10"x 8" | .250" | 50# | 1.2 Sq. Ft. |

* Transformer Base (TYPE AS NOTED) or Mounting Brackets (MB)

0 1/2 1 2 3 4
ORIGINAL SIZE IN INCHES

## NOTES

1. POLE CAP (AL. ALLOY 356 OR 43) ATTACHED WITH 3/8" STAINLESS STEEL SET SCREWS. FOR LIGHTING STANDARDS WITH EMERGENCY LUMINAIRES, POLE TOP SLIPFITTER CAP SHALL BE USED. (SEE DETAIL). ⚠
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 MEMBER 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 1-1/4"Ø RUBBER GROMMET FOR WIRING.
6. TRANSFORMER BASE SHALL BE CERTIFIED TO MEET 1985 AASHTO BREAKAWAY CRITERIA AND SHALL BEAR SUCH LABEL.
7. ⚠ Details shown to replace existing installations only. For details of lighting standards for use on the Garden State Parkway and new installations on the Turnpike, contact the Authority's Engineering Department.

| APP. | NO. | DATE | REVISION |
|---|---|---|---|
| | ⚠ | 3-87 | REVISED FABR. NOTES, ADDED TURNPIKE ONLY REQ. |
| | ⚠ | 2-98 | DELETED NOTE 7, ADDED NOTE, TABLE AND |
| | | | MINOR REVISIONS |
| | | 12/96 | REISSUED |

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE

40 FT. LIGHTING STANDARDS - II

HOWARD NEEDLES TAMMEN & BERGENDOFF
330 Passaic Ave., Fairfield, New Jersey
JOHN M. ORMAN
N.J.P.E. License No. GE 39691

STANDARD DRAWING
E-3