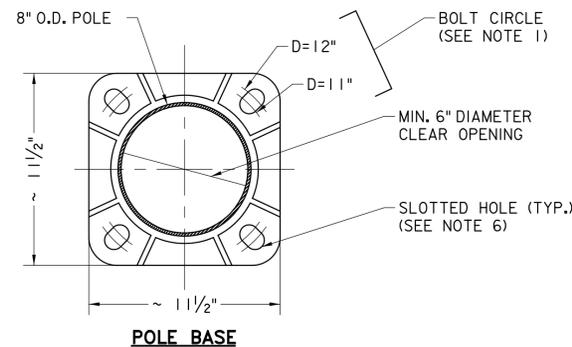
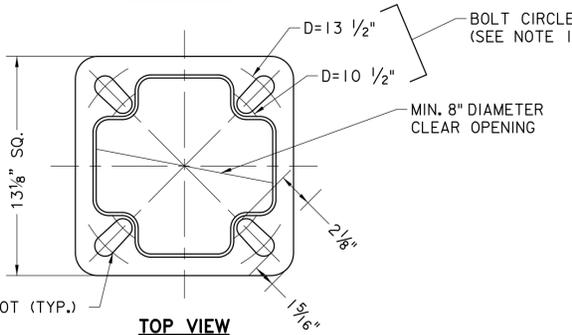


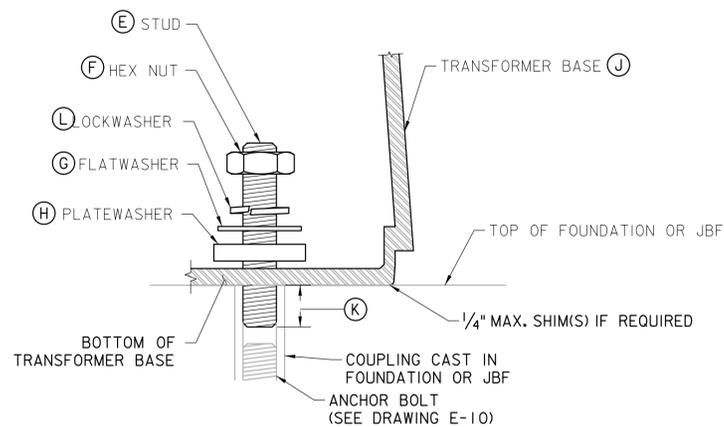
ALUMINUM POLE TO TRANSFORMER BASE
(SEE NOTE 7)



POLE BASE



TOP VIEW



TRANSFORMER BASE TO FOUNDATION
(SEE NOTE 7)

TYPICAL ALUMINUM POLE BOLTING DETAILS

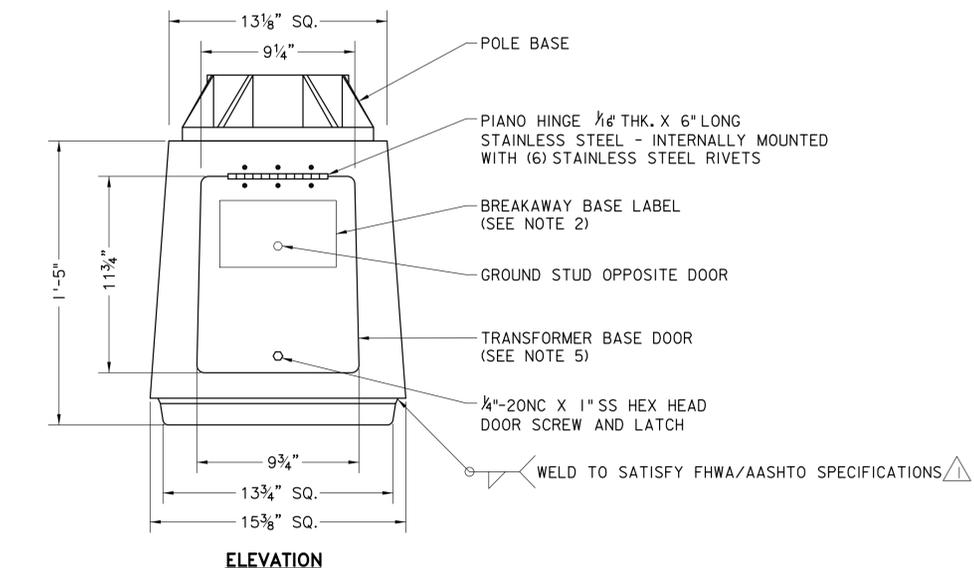
SCALE: 3/8" = 1"
(SEE SCHEDULE 9.1 FOR DIMENSIONS)

ITEM	DIMENSION WHEN USING ALUMINUM POLE WITH 11"-12" BOLT CIRCLE
A	1"-8NC x 3 3/4" LONG
B	1 1/16" I.D. FOR 1" BOLT
C	2 3/4" O.D. x 1/2" THK
D	1"-8NC
E	1"-8NC x 5 1/2" LONG
F	1"-8NC
G	1 1/16" I.D. FOR 1" BOLT
H	2 3/4" O.D. x 1/2" THK
J	TRANSFORMER BASE TB-A
K	1 1/4" EMBEDMENT (MIN)
L	1 1/16" I.D. x 1/4" THK.

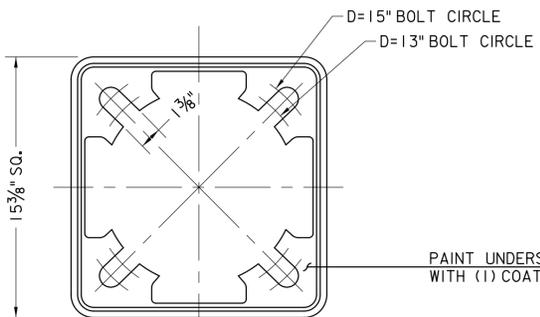
• OR SIZED AS REQUIRED TO ALLOW SUFFICIENT ROOM TO INSTALL BOLT COVERS ON POLE BASE PLATE

SCHEDULE 9.1 - DIMENSIONS FOR ANCHOR BOLT ASSEMBLY

(SEE NOTE 7)



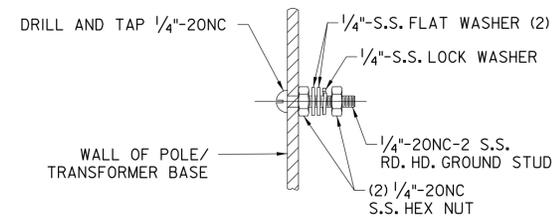
ELEVATION



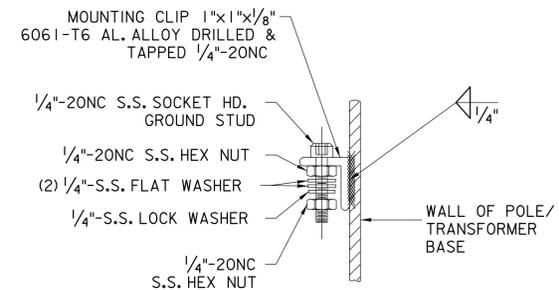
BOTTOM VIEW

TRANSFORMER BASE TB-A (TB1-17)

SCALE: 3/16" = 1'-0"



DETAIL A



ALTERNATE DETAIL B

GROUND STUD DETAIL (OPPOSITE HANDHOLE/ TRANSFORMER BASE)

NOT TO SCALE

NOTES

- BOLTS CONNECTING POLE BASE TO TRANSFORMER BASE TB-A SHALL BE INSTALLED ON A 12" BOLT CIRCLE.
- ALL TRANSFORMER BASES SHALL BE CERTIFIED BY FHWA AS AN APPROVED BREAKAWAY ROADSIDE HARDWARE DEVICE TO THE MOST CURRENT AASHTO STANDARDS. A LABEL INDICATING THIS CERTIFICATION SHALL BE AFFIXED TO THE TRANSFORMER BASE OPPOSITE THE DOOR OPENING.
- TRANSFORMER BASES SHALL BE CONSTRUCTED OF CAST ALUMINUM ALLOY 356-T6.
- EQUIPMENT GROUND CONDUCTOR FOR TRANSFORMER BASE:

CONTRACTOR SHALL PROVIDE A GROUNDING STUD IN EVERY TRANSFORMER BASE ON THE WALL OPPOSITE THE DOOR. GROUNDING STUD SHALL BE INSTALLED AS SHOWN IN DETAIL A OR DETAIL B. GROUNDING IN ALL TRANSFORMER BASES ON EACH PROJECT SHALL BE INSTALLED PER THE SAME METHOD.

EQUIPMENT GROUND CONDUCTOR FOR POLES MOUNTED WITHOUT TRANSFORMER BASE:

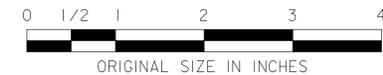
DETAIL A AND B SHALL ALSO BE USED FOR INSTALLATION OF POLE GROUNDING STUD IN POLE BASE MOUNTED POLES, WHERE NO TRANSFORMER BASE IS PROVIDED. GROUNDING SHALL BE INSTALLED OPPOSITE HANDHOLES ON THESE POLES.

- TRANSFORMER BASE DOOR SHALL BE MANUFACTURED OF ALUMINUM ALLOY 356-T6. MINIMUM THICKNESS SHALL BE 3/16".
- SLOTTED HOLES IN POLE BASE SHALL BE SIZED TO ACCEPT 1" DIAMETER ANCHOR BOLTS FOR TRANSFORMER BASE TYPE TB-A.

- ALL STAINLESS STEEL (S.S.) HARDWARE SHALL BE TYPE 304 IN ACCORDANCE WITH ASTM A193 GRADE B8. ALL OTHER HARDWARE SHALL BE STEEL AND MEET THE FOLLOWING STANDARDS WHERE APPLICABLE:

- GALVANIZING, HOT DIPPED PER ASTM A153
- HEX NUTS PER ASTM A563 GRADE DH
- WASHERS PER ASTM F436

- SEE STANDARD DRAWING E-10 FOR ANCHOR BOLT AND BOLT COUPLING DETAILS AND DIMENSIONS.



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GARDEN STATE PARKWAY**

STANDARD DRAWINGS

**TRANSFORMER BASE AND
POLE GROUNDING DETAILS**

REV.	DESCRIPTION	DATE
2	UPDATED BOLT LENGTH AND NOTE	07/25
1	REVISED TRANSFORMER BASE WELD	01/24
0	REISSUED DRAWING	09/21

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NEW JERSEY TURNPIKE AUTHORITY
WOODBIDGE, NEW JERSEY

STANDARD DRAWING

E-09