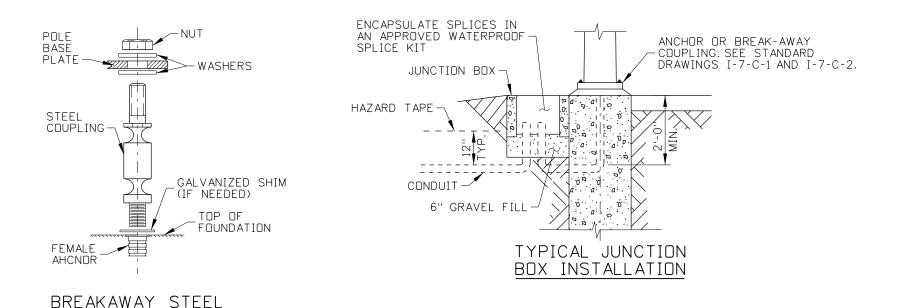


TYPICAL JUNCTION BOX INSTALLATION DETAIL

COUPLER DETAIL

BREAKAWAY STEEL COUPLER
INLINE TYPE CONNECTOR INSTALLATION
WITH JUNCTION BOX
(SEE NOTE NOS. 12, 13, & 14)



RIGID STEEL CONDUIT
BEND TABLE

CONDUIT MINIMUM FIELD
BEND RADIUS

1" 6"

11/4" 8"

11/2" 10"

2" 12"

21/2" 15"

3" 18"

31/2" 21"

4" 24"



FUSED "INLINE" WIRE CONNECTOR DETAIL

SEE NOTE NO. 14

NOTES

- 1. ENGINEER WILL VERIFY THE LOCATION OF THE ROAD CLOSURE GATES AND MOUNTING HEIGHT OF THE GATE ARM PIVOT.
- 2. SEE STANDARD DRAWINGS I-7-C-1 AND I-7-C-2 FOR THE POLE FOUNDATION.
- 3. HEIGHT OF GATE ARM GUIDES MAY BE VARIED AS REQUIRED FOR WARNING LIGHT CLEARANCE.
- 4. USE 7 GAUGE ROUND STEEL LUMINAIRE POLES WITH A UNIFORM TAPER.
- 5. GALVANIZE STEEL LUMINAIRE POLES, MAST ARMS, DROP GATE PIVOTS, SUPPORTS, GUIDES, AND HARDWARE.
- 6. PAINT EXPOSED BOLT THREADS WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A780, AFTER ASSEMBLY OF ROAD CLOSURE GATE.
- 7. USE BOLTS CONFORMING TO ASTM A307, GRADE A, UNLESS DESIGNATED AS HS (HIGH STRENGTH), THEN USE BOLTS CONFORMING TO ASTM A325.
- 8. USE FIBERGLASS AND ALUMINUM GATE ARM AND CAST ADAPTER.
- 9. USE WORM GEAR WINCH AND CABLE.
- 10. WHEN THE GATE IS FULLY RAISED, ENSURE THAT THE NUT AND WASHER ARE PLACED SNUGLY AGAINST THE DUTSIDE OF THE REAR CHANNEL AND PADLOCK IN PLACE. SUPPLY ONE HEAVY, WEATHERPROOF PADLOCK WITH 2 KEYS FOR EACH GATE ARM PIVOT. FOR PAIRED PIVOTS (DIVIDED HIGHWAY), ENSURE PADLOCKS ARE KEYED ALIKE.
- 11. IF THE GATE IS INSTALLED ON A ONE-WAY HIGHWAY OR RAMP, THE RETROREFLECTORIZATION MAY BE OMITTED ON THE SIDE OF THE GATE FACING AWAY FROM APPROACHING TRAFFIC.
- 12. BEND CONDUIT SO THAT THE CONDUIT INSIDE DIAMETER IS NOT REDUCED. MINIMUM RADII FOR THE INNER EDGE OF FIELD BENDS ARE SHOWN IN THE RIGID STEEL CONDUIT BEND TABLE. USE RIGID STEEL CONDUIT FOR ELBOWS, RISERS, AND BENDS GREATER THAN 45°.
- 13. PROVIDE 36" OF SLACK IN CONDUCTORS AT HAND HOLE FOR MAINTENANCE. AFTER FUSE INSTALLATION, PULL SLACK FROM LOAD SIDE CONDUCTORS TO THE POINT WHERE THE FUSE HOLDERS MEET THE CONDUIT BUSHING. FASTEN GROUND WIRE TO GROUNDING DEVICE NEAR THE HAND HOLE.
- 14. NON-FUSED WIRE CONNECTORS REQUIRED ON NEUTRAL OF 120 & 480 VOLT TO GROUND CIRCUITS. NON-FUSIBLE LINK REQUIRED ON GROUNDING CONDUCTORS OF BREAKAWAY INSTALLATIONS. FUSED WIRE CONNECTORS REQUIRED ON 120, 240, & 480 VOLT PHASE TO PHASE AND PHASE TO GROUND CIRCUITS.

15. DRAWINGS NOT TO SCALE.

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