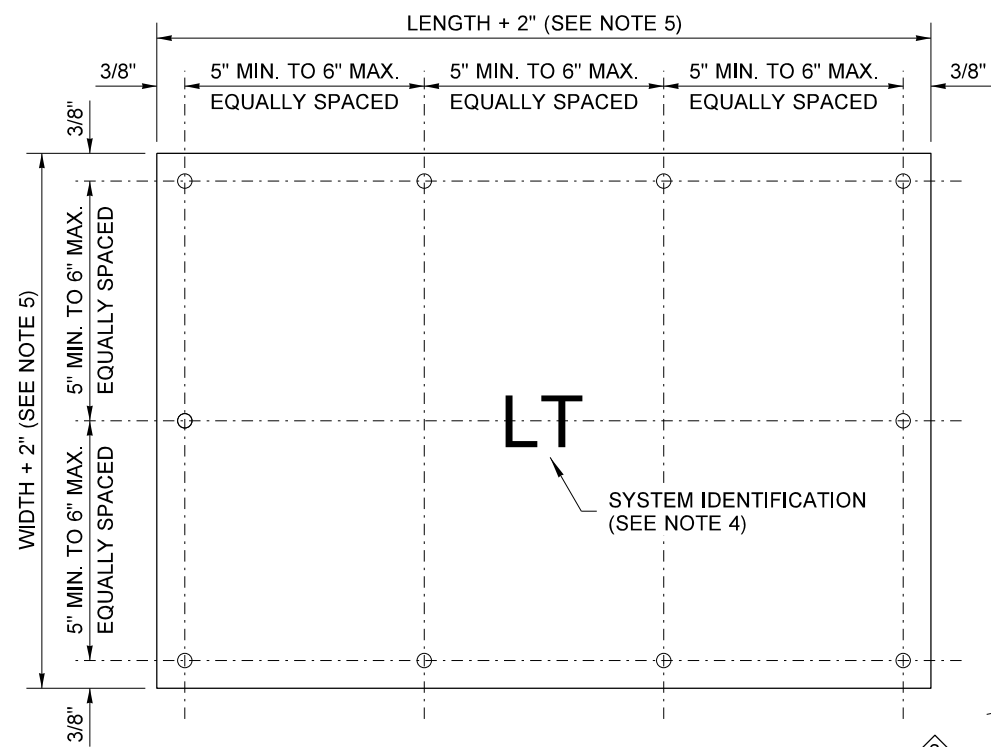
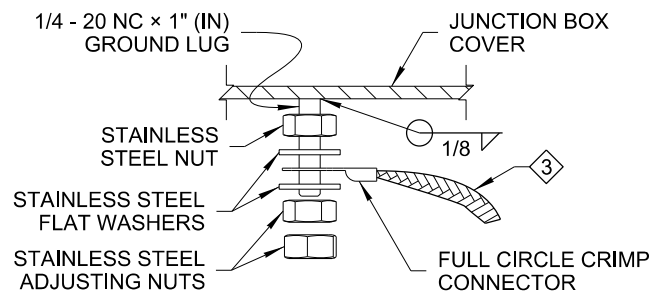


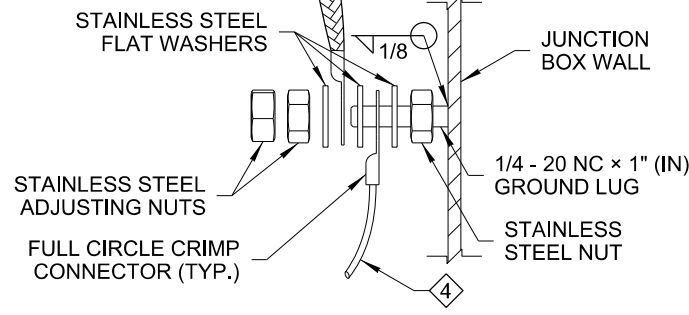
DRAWN BY: LISA CYFORD



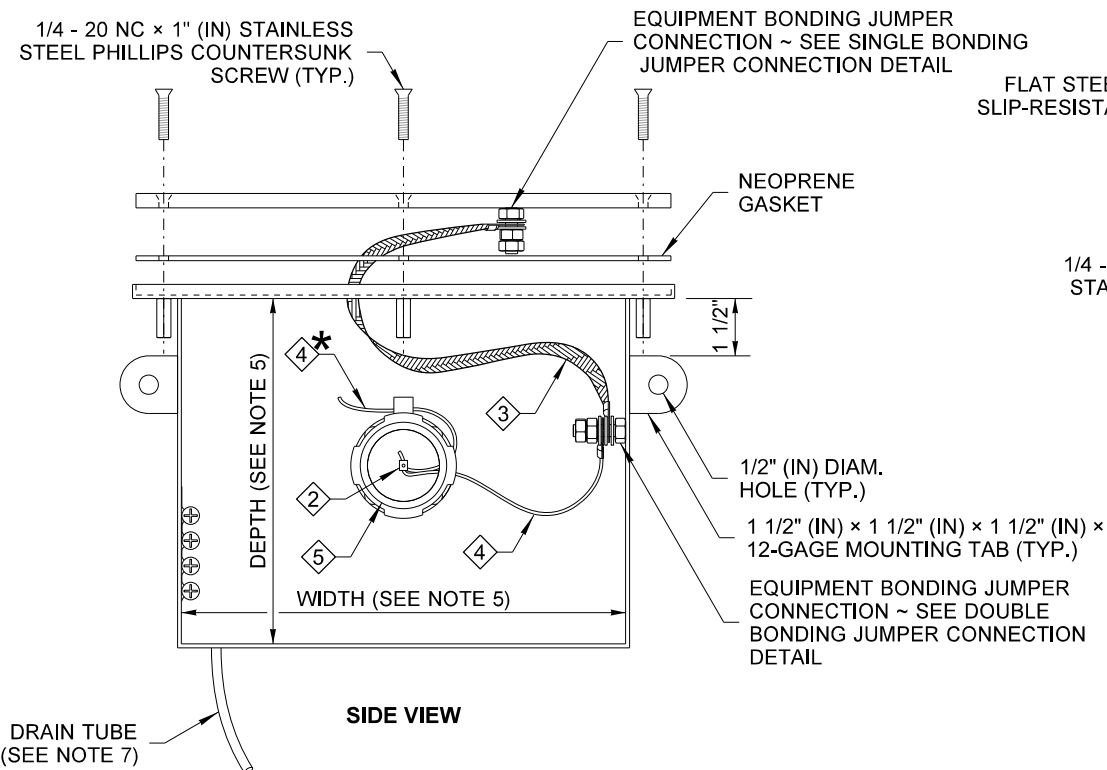
PLAN VIEW  
JUNCTION BOX COVER



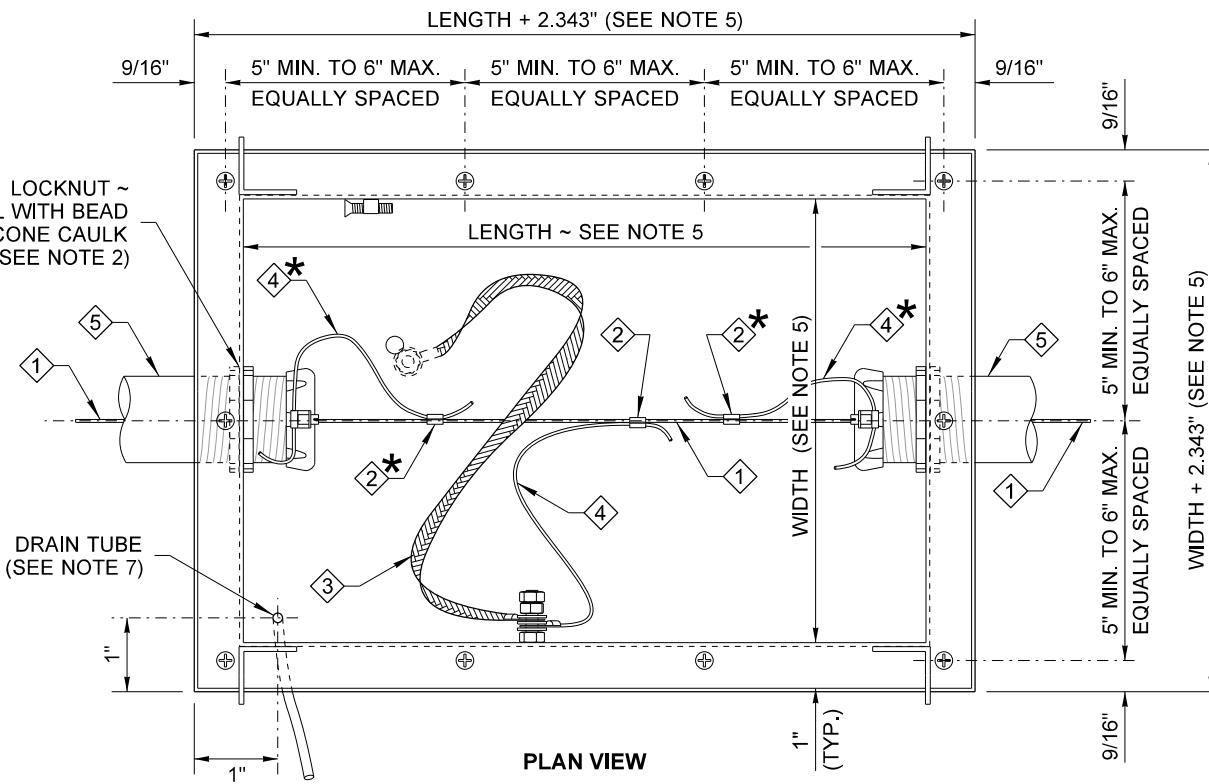
SINGLE BONDING JUMPER CONNECTION DETAIL



DOUBLE BONDING JUMPER CONNECTION DETAIL



SIDE VIEW

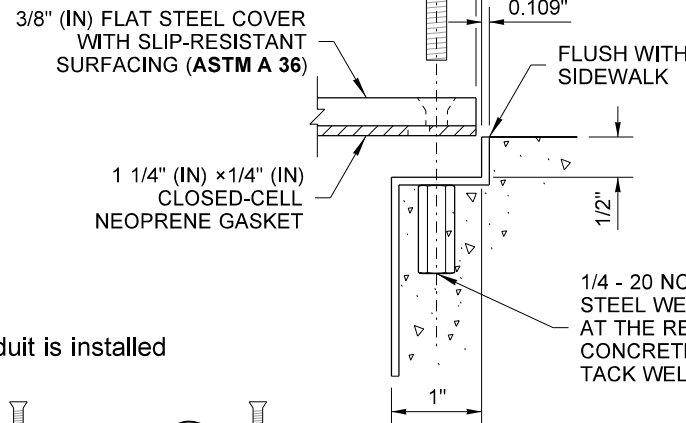


PLAN VIEW

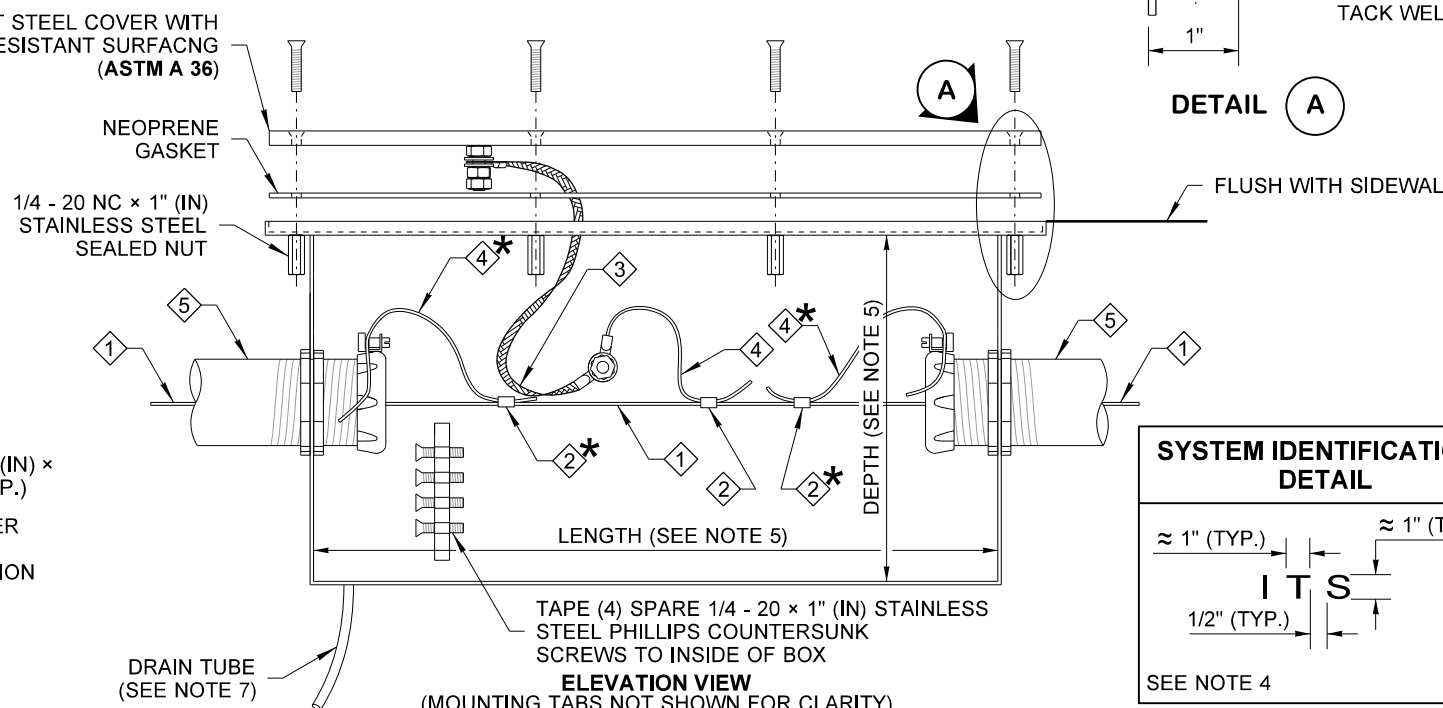
1/4 - 20 NC x 1\"/>

- ① Equipment Grounding Conductor
- ② Copper Solderless Crimp Connector
- ③ Equipment Bonding Jumper (See Note 3)
- ④ Equipment Bonding Jumper
- ⑤ See Contract for conduit size and number

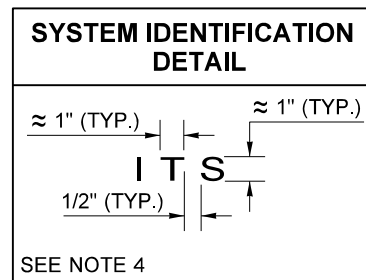
\* = Omit when non-RMC conduit is installed



DETAIL A



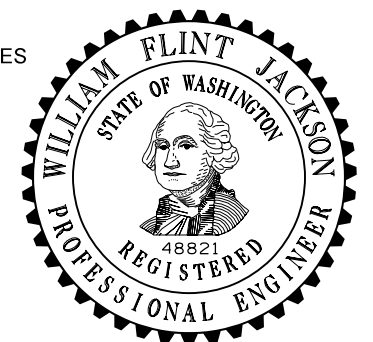
ELEVATION VIEW  
(MOUNTING TABS NOT SHOWN FOR CLARITY)



SEE NOTE 4

NOTES

1. Junction Box shall be constructed of 12-gage, Type 304 stainless steel with welded seam construction. Mounting Tabs shall be constructed of 12-gage, Type 304 stainless steel. Cover shall be constructed of **ASTM A 36** steel with slip-resistant surfacing.
2. Fittings shall be UL listed and CSA-certified concrete tight on the outside of the Junction Box connection. Use an insulated, grounding end bushing on the inside for Rigid Metal Conduit.
3. Equipment Bonding Jumper shall be # 8 AWG (min.) x 3 feet minimum of tinned, braided copper.
4. The System Identification letters shall be 1/8" (in) line thickness formed by a mild steel weld bead. See **Standard Specification, Section 9-29.2(4)**.
5. Junction Box shall be dimensioned as shown in the Contract. If the conduit sizes shown in the Contract are changed, the box dimensions shall be revised in accordance with **NEC 314.28** using the 8 times multiplier for length and width dimension.
  - Maximum Height = Sidewalk Depth
  - Maximum Interior Length = 29" (in)
  - Maximum Interior Width = 18" (in)
6. See **Standard Plan J-40.36** for additional requirements.
7. Field drill 1/2" (in) diameter hole for Drain Tube from the inside to the outside of Junction Box. One place, on the lowest side only. Seal with bead of silicone. See **Standard Specification, Section 9-29.2(3)**. For drain tube routing, see **Standard Plan J-50.16**.
8. Conduit capacity is 12" (in) ~ 4" (in) per side.
9. Conduits shall enter through the sides as shown. Conduits shall not enter through the bottom of Junction Box.
10. Liberally coat the threads of the cover fasteners with anti-seize compound during construction and before final closure.



**NEMA 4X JUNCTION BOX  
IN SIDEWALK LOCATED  
ON STRUCTURE  
STANDARD PLAN J-40.40-02**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER  
Washington State Department of Transportation