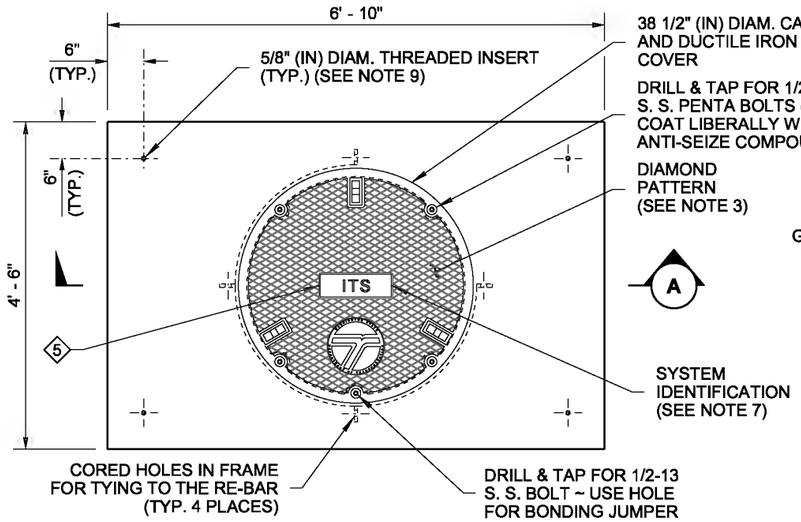
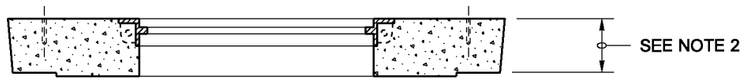


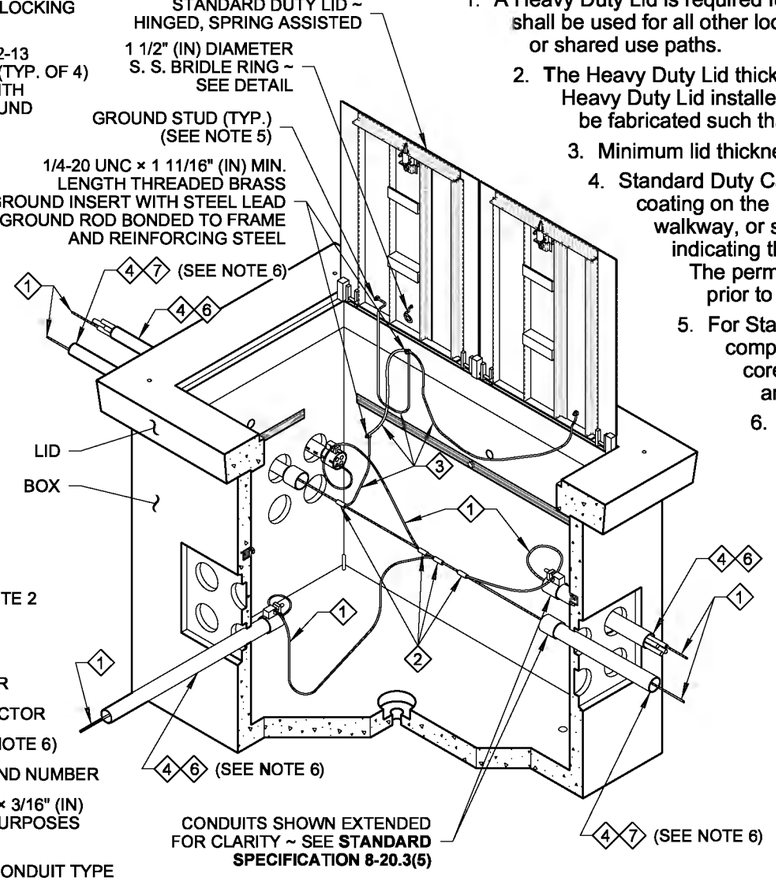
HEAVY DUTY LID

SEE NOTE 1



SECTION (A)

(LID NOT SHOWN)

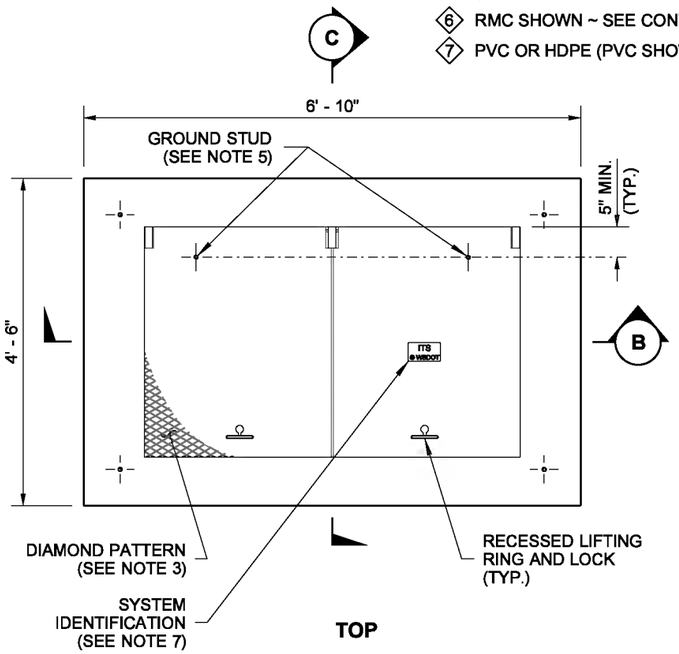


ISOMETRIC CUTAWAY

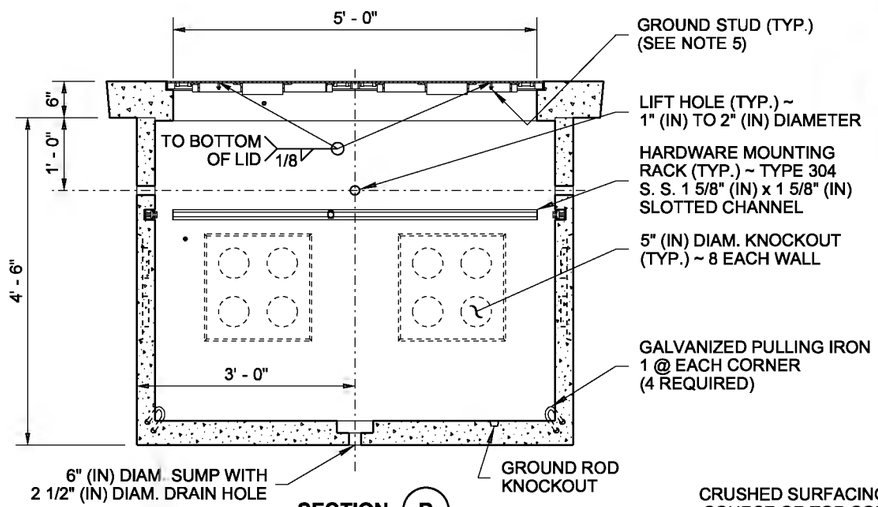
1. EQUIPMENT GROUNDING CONDUCTOR
2. COPPER SOLDERLESS CRIMP CONNECTOR
3. EQUIPMENT BONDING JUMPER (SEE NOTE 6)
4. SEE CONTRACT FOR CONDUIT SIZE AND NUMBER
5. PROVIDE A 5" (IN) WIDE × 3" (IN) HIGH × 3/16" (IN) THICK MIN. FLAT AREA FOR LIFTING PURPOSES (FOR DUCTILE IRON LID ONLY)
6. RMC SHOWN ~ SEE CONTRACT FOR CONDUIT TYPE
7. PVC OR HDPE (PVC SHOWN) ~ SEE CONTRACT FOR CONDUIT TYPE

NOTES

1. A Heavy Duty Lid is required for all Cable Vaults placed in the traveled way or paved shoulder. A Standard Duty Lid shall be used for all other locations, including vaults placed in sidewalks (does not include driveways), walkways, or shared use paths.
2. The Heavy Duty Lid thickness shall be 9" (in) for all new installations. Where an existing Cable Vault is to have a new Heavy Duty Lid installed, the lid thickness shall either be 6" (in), where no overlay is called for in the Contract, or it shall be fabricated such that the lid is flush with the top of the new overlay.
3. Minimum lid thickness shown. The diamond pattern shall be a minimum of 3/32" (in) thick.
4. Standard Duty Cable Vaults installed in sidewalks, walkways, or shared-use paths shall have a slip-resistant coating on the lid and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use paths. The non-slip lid shall be identified with permanent marking on the underside indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" (in) line thickness formed with a weld bead and shall be placed prior to hot-dip galvanizing.
5. For Standard Duty Lids, attach a 1/4-20 UNC × 1" (in) S. S. ground stud, coated with anti-sieze compound. For Heavy Duty Lids, install a 1/2-13 UNC × 1 1/4" (in) S. S. bolt in a 5/8" (in) diameter cored hole in the ductile iron lid gusset as a ground stud. All ground studs shall include (3) S. S. nuts and (2) S. S. flat washers.
6. See Contract Plan Sheets and **Standard Plan J-60.05** for Bonding Jumper requirements. Bonding jumper between lid and frame shall be #8 AWG (min.) x 4' (ft) tinned braided copper.
7. The system identification letters shall be 1/8" (in) line thickness formed by casting or with a mild steel weld bead. See COVER MARKING DETAIL, **Standard Specification 9-29.2(4)**. Ductile iron lid lettering shall be recessed.
8. Cement concrete shall be Class 4000.
9. Plastic plugs shall be put into the lid inserts after fabrication and the lid installation.
10. Capacity - conduit diameter = 60" (in).
11. Excavate material, place 6" (in) crushed surfacing pad per **Standard Specification 8-20.3(6)**.
12. This drawing depicts a typical Cable Vault assembly. Reinforcing not shown. Each manufacturer's Cable Vault assembly will vary. Refer to the approved manufacturer's shop drawings for all dimensions and the actual arrangement.
13. The lid is an assembly consisting of the metal lid(s) and frame, reinforcing steel, brass ground insert, and concrete.
14. Field bend #3 reinforcing bar to allow conduit into the Cable Vault. Field bend reinforcing bar back into place, wire tie in (2) places and cast in commercial concrete (commercial concrete only allowed for bottom/wall completion).



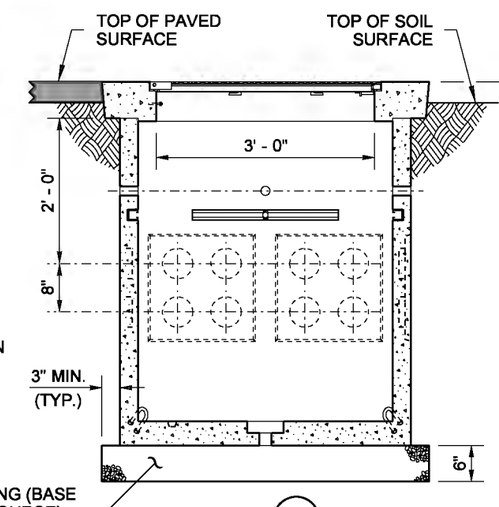
TOP



SECTION (B)

CABLE VAULT

(SHOWN WITH STANDARD DUTY LID)



VIEW (C)

THEODORE JOSEPH BAILEY STATE OF WASHINGTON 39820 REGISTERED PROFESSIONAL ENGINEER

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Bailey, Ted
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CABLE VAULT

STANDARD PLAN J-90.20-02

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

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STATE DESIGN ENGINEER

Washington State Department of Transportation

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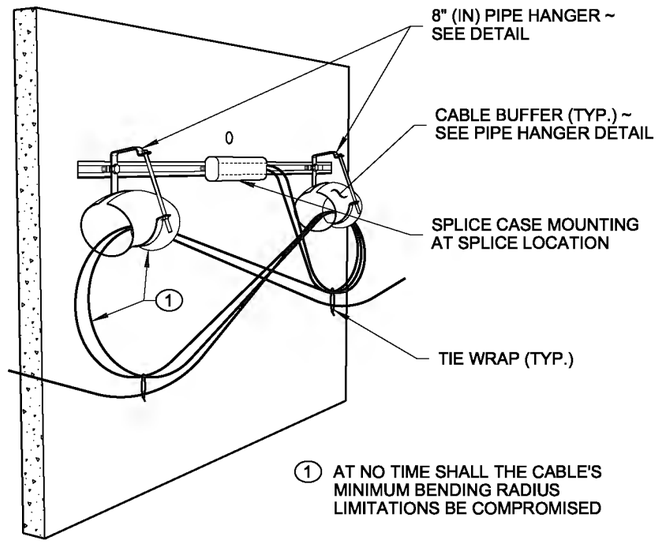
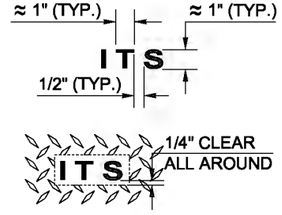
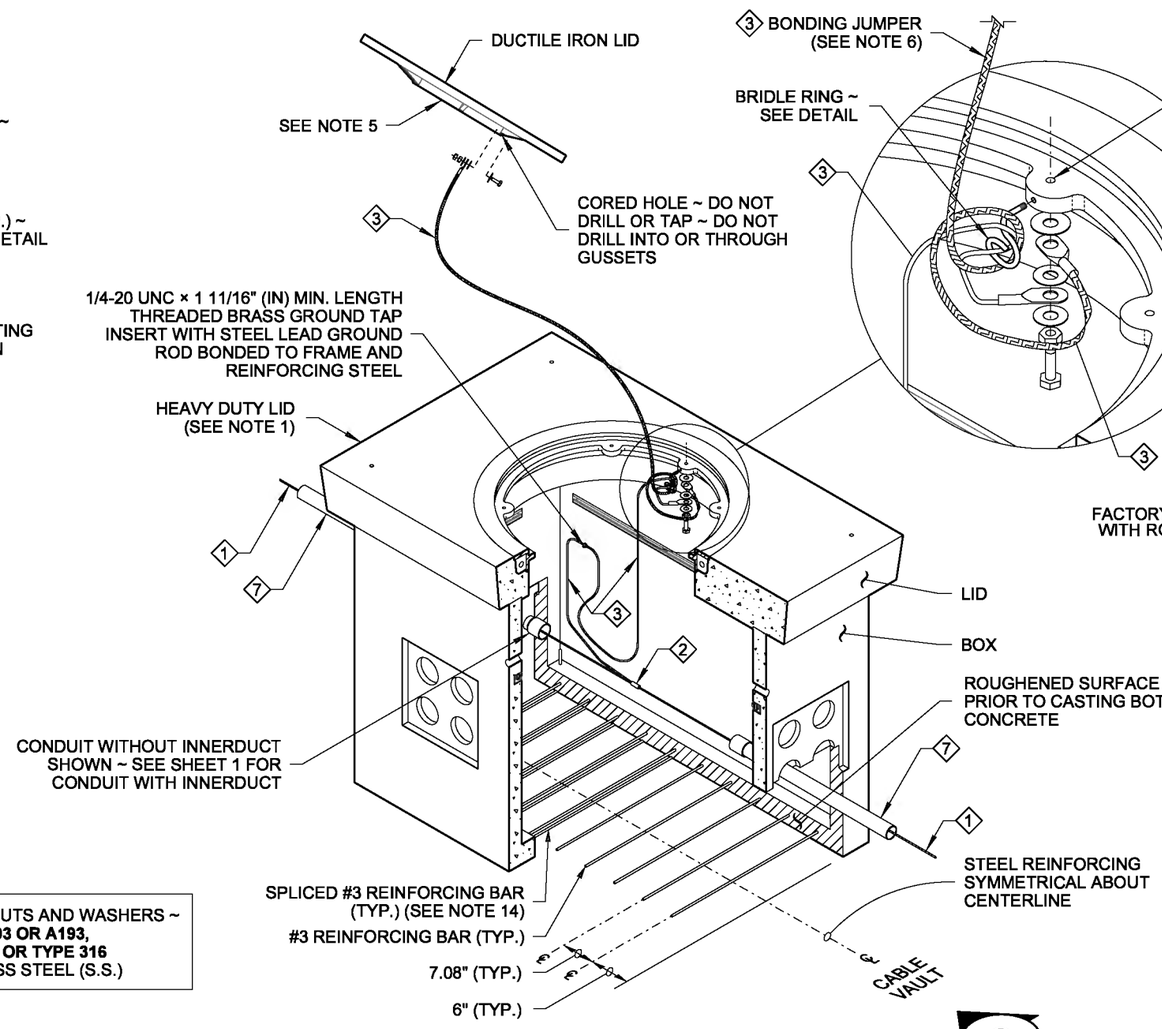
DRAWN BY: LISA CYFORD



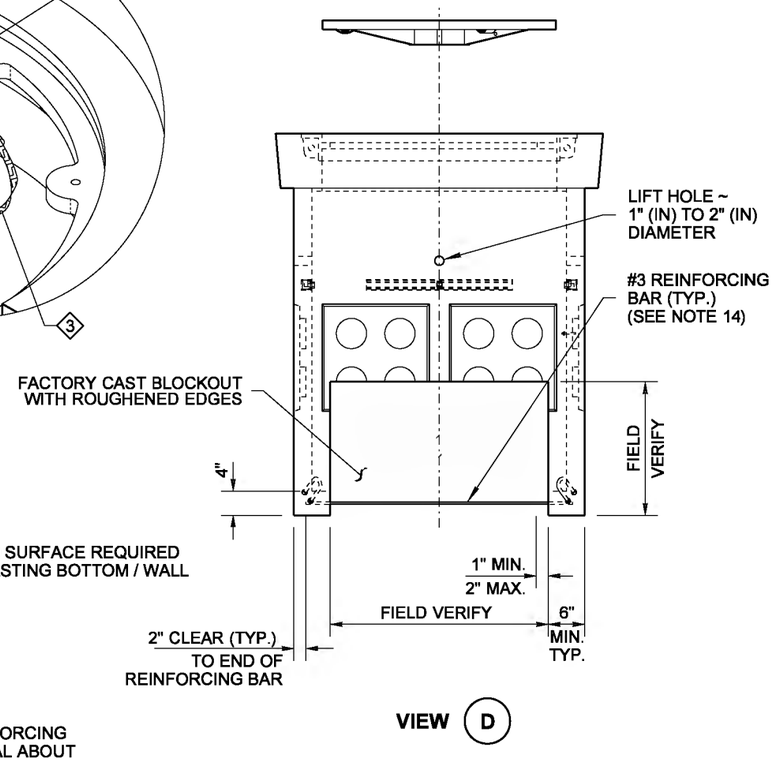
INTERNAL OBLIQUE VIEW

COVER MARKING DETAIL





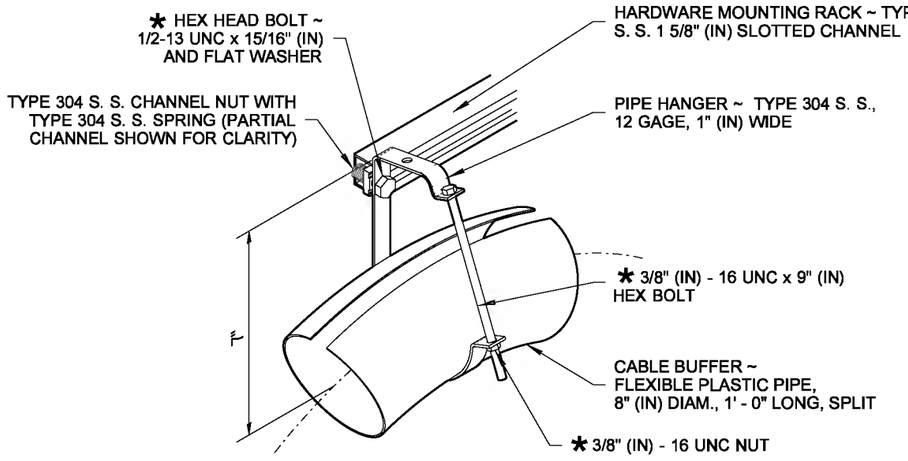
ISOMETRIC CUTAWAY



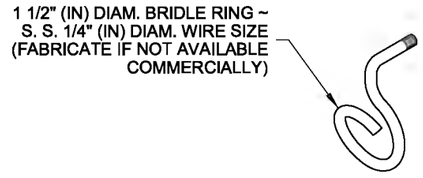
VIEW (D)

OPEN BOTTOM CABLE VAULT
(SHOWN WITH HEAVY DUTY LID)
SEE **CABLE VAULT**, SHEET 1, FOR DIMENSIONS NOT SHOWN

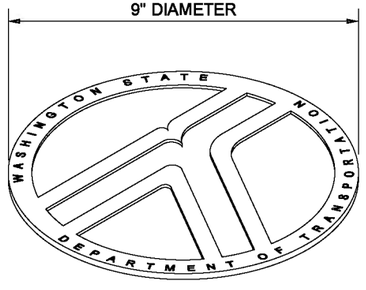
* BOLTS, NUTS AND WASHERS ~ **ASTM F593 OR A193, TYPE 304 OR TYPE 316** STAINLESS STEEL (S.S.)



PIPE HANGER DETAIL
FABRICATE IF NOT AVAILABLE COMMERCIALLY



BRIDLE RING DETAIL



LOGO DETAIL

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CABLE VAULT

STANDARD PLAN J-90.20-02

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