NOTES

1. Vaults (including Pull Boxes) installed within the traveled way or paved shoulder must use Heavy Duty Lids. Small Cable Vaults (Standard Plan J-90.21) shall not be installed in the traveled way or paved shoulder.

2. Vaults installed in sidewalks, walkways, and 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, and shared-use paths.

3. Small Cable Vaults for WSDOT Projects shall only be installed with the lid frame bearing on the concrete portion of cable vault.

4. Vault shall be installed on 6" (in) crushed surfacing pad in accordance with Standard Specification Section 8-20.3(6).

5. Conduit Capacities (sum total conduit of all conduit diameters):
   - Pull Box and Small Cable Vault = 4" (in)
   - Cable Vault = 60" (in)

6. The bonding jumper shall be #8 AWG min. x 1" (ft) of tinned braid or copper between the lid and the frame, and shall be #8 AWG min. from the frame to the hex coupling nut. See Contract Plans and Standard Plan J-60.06 for bonding jumper requirements.

7. Connect the equipment grounding conductor(s) to the vault wall bonding connection with a #8 AWG (min.) equipment bonding jumper. For RMC conduits, the conduit end bushing shall be bonded between the equipment ground conductor and the vault wall bonding connection.

8. Each cable shall be coiled such that the cable's minimum bending radius limitations are not compromised. For coils in pull boxes, form a figure 8 loop first, then fold it in half (cable should twist slightly, not bend) to form a single loop.

9. Knockouts shall be restored with grout after conduit installation – see Standard Specification section 8-20.3(6). For open bottom vaults, field bend #3 reinforcing bars to allow conduit into vault, then field bend back into place. Restored #3 bars shall be wire tied in two places, and the vault floor and wall completed with commercial concrete.

VAULT INSTALLATION DETAILS
STANDARD PLAN J-90.50-00

Typical Vault Placement
- Vault shall be installed on 6" (in) crushed surfacing pad in accordance with Standard Specification Section 8-20.3(6).
- Vault shall be installed in sidewalks, walkways, and shared-use paths.
- Vault shall be installed with the lid frame bearing on the concrete portion of cable vault.
- Vault shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, and shared-use paths.

TYPICAL GROUNDING AND BONDING ISOMETRIC VIEW

- Vault shall be installed on 6" (in) crushed surfacing pad in accordance with Standard Specification Section 8-20.3(6).
- Vault shall be installed in sidewalks, walkways, and shared-use paths.
- Vault shall be installed with the lid frame bearing on the concrete portion of cable vault.
- Vault shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, and shared-use paths.

VAULT INSTALLATION DETAILS
STANDARD PLAN J-90.50-00

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Vault Installing Details
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- Vault shall be installed in sidewalks, walkways, and shared-use paths.
- Vault shall be installed with the lid frame bearing on the concrete portion of cable vault.
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TYPICAL GROUNDING AND BONDING ISOMETRIC VIEW

- Vault shall be installed on 6" (in) crushed surfacing pad in accordance with Standard Specification Section 8-20.3(6).
- Vault shall be installed in sidewalks, walkways, and shared-use paths.
- Vault shall be installed with the lid frame bearing on the concrete portion of cable vault.
- Vault shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, and shared-use paths.