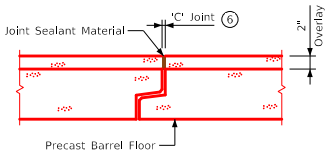
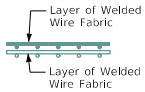
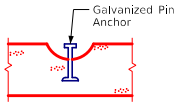


Section A-A

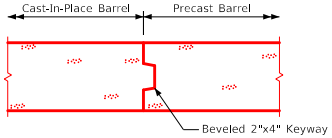


Fabric Layer Detail

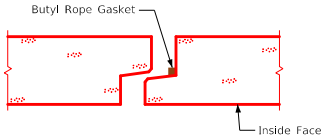
Note:
When more than one layer of welded wire fabric is used to obtain the required reinforcement areas, the wires of the welded wire fabric shall be placed as shown.



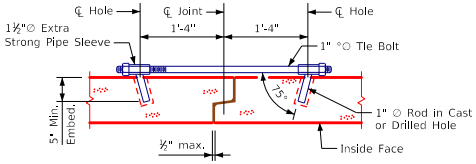
Lifting Pin Detail



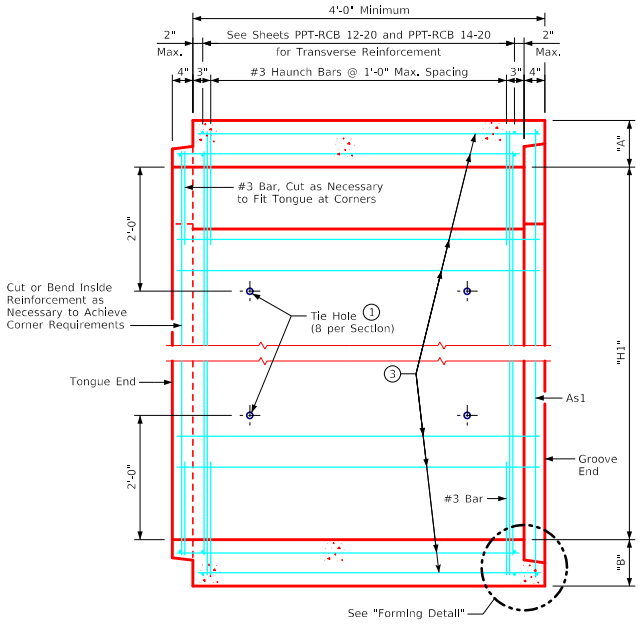
Joint Detail at Cast-In-Place Barrel Connection



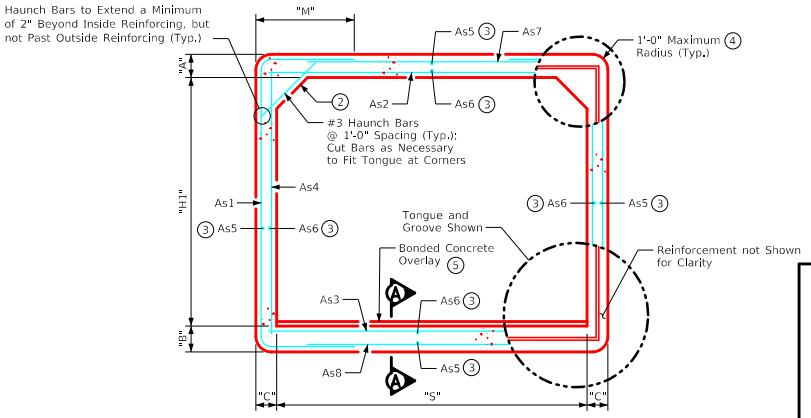
Typical Joint Detail



Galvanized Tie Bolt Detail
(Concealed Hole Design)



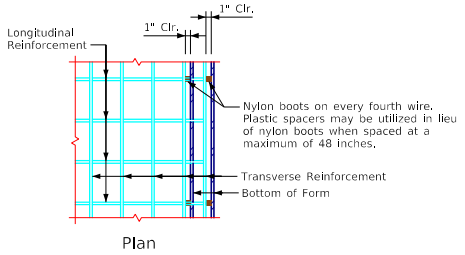
Longitudinal Barrel Section
(Reinforcement Bar Option Shown)



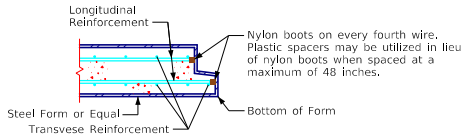
Transverse Barrel Section
(Reinforcement Bar Option Shown)

Notes:

1. Culvert ties are to be 1"∅ rods. See "Tie Bolt Connection Detail" this sheet.
2. Top corner haunch size shall be 12" vertical, 12" horizontal on all box sizes.
3. Longitudinal reinforcement denoted as As5 & As6 must be placed in slab, floor, and walls and must be 0.06 in²/ft min.
4. Optional squared corners with ¾" to 2" chamfer.
5. Material and construction of bonded PCC overlay shall meet the requirements of Article 2310 of the Standard Specifications. Seal coat bond breaker shall not be used.
6. 'C' joints shall be located at all precast barrel floor joints. Saw cuts for 'C' joints shall be full depth of the concrete overlay and extend as close as practical to the precast barrel wall without damaging the wall. See Standard Road Plan PV-101 for 'C' joint details.

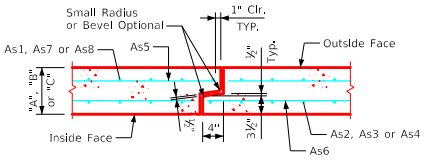


Plan



Section

Forming Detail



Tongue and Groove Joint Detail

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LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

IOWADOT Highway Division

Precast Standard Design - Walkways and Trails

Precast Reinforced Concrete Pedestrian Tunnel

August, 2020

Typical Tunnel Details

PPT G3-20