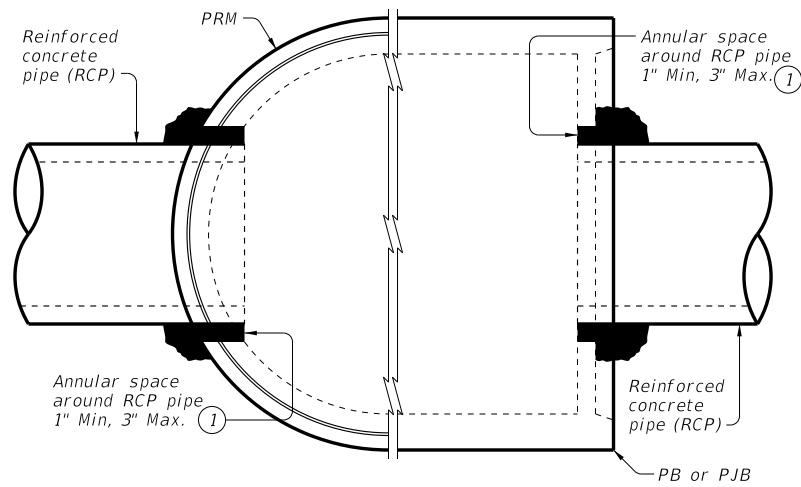
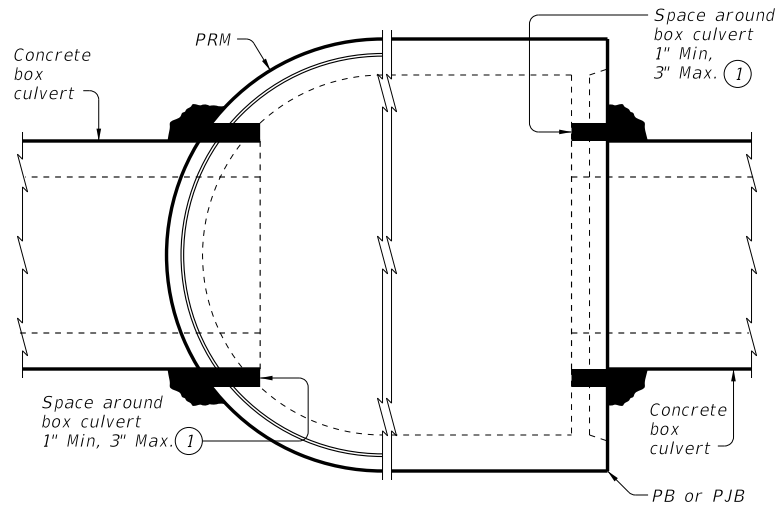


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



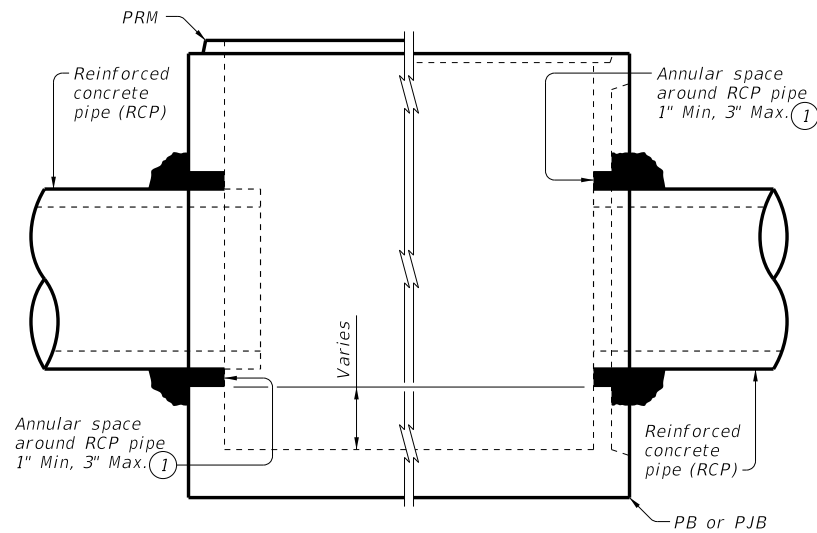
PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE  
 PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

TYPICAL HALF PLAN



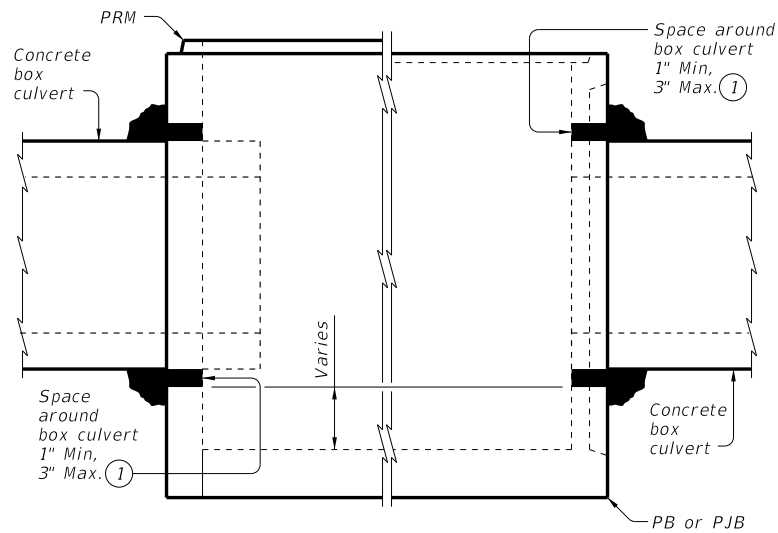
PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE  
 PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

TYPICAL HALF PLAN



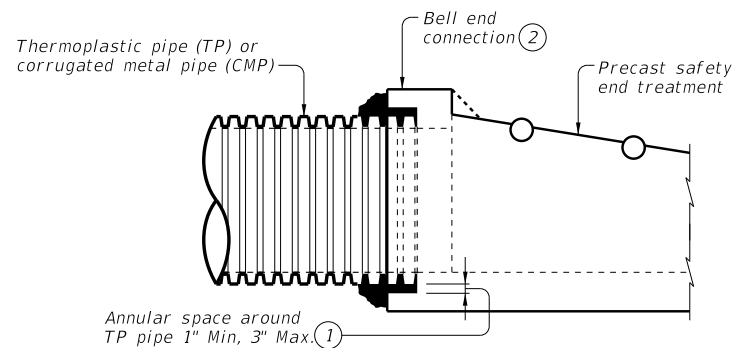
PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE  
 PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

TYPICAL HALF ELEVATION



PRECAST ROUND MANHOLE (PRM) WITH THROUGH-HOLE  
 PRECAST BASE (PB) OR PRECAST JUNCTION BOX (PJB) WITH THIN-WALL KNOCK-OUT

TYPICAL HALF ELEVATION



TYPICAL PARTIAL ELEVATION OF PRECAST SAFETY END TREATMENTS

Showing square PSET for parallel drainage, cross drainage shown similar.

- ① Completely fill the void between the precast structure and the connecting pipe or box with cementitious grouts and mortars in accordance with DMS-4675 "Cementitious Grouts and Mortars for Miscellaneous Application."
- ② For thermoplastic pipe, do not use bell or spigot for grouted connections. Remove the bell or spigot from the pipe by cutting between two exterior corrugations of the pipe before connecting and grouting the thermoplastic pipe to the structure.

**CONSTRUCTION NOTES:**

Do not grout rubber gasket joints without Manufacturer's recommendations.  
 Do not use bricks, masonry blocks, native stone, or similar materials in conjunction with grouted connections when filling void spaces around pipes or box culverts.

**MATERIAL NOTES:**

Provide grouted connections in accordance with DMS-4675, "Cementitious Grouts and Mortars for Miscellaneous Application."

**GENERAL NOTES:**

See applicable standards for notes and details not shown:  
 Precast Base (PB)  
 Precast Junction Box (PJB)  
 Precast Round Manhole (PRM)  
 Precast Safety End Treatments C/D Square (PSET-SC)  
 Precast Safety End Treatments P/D Square (PSET-SP)  
 Provide Concrete Box Culverts in accordance with Item 462, "Concrete Box Culverts and Drains."  
 Provide Reinforced Concrete Pipe (RCP) in accordance with Item 464, "Reinforced Concrete Pipe."  
 Provide Thermoplastic Pipe (TP) in accordance with Item 468, "Thermoplastic Pipe Culverts and Drains".  
 Payment for grouted connections is considered subsidiary to other bid items.



**PIPE AND BOX GROUTED CONNECTIONS FOR PRECAST STRUCTURES**

**PBGC**

FILE: CD-PBGC-24.dgn	DN: TxDOT	CK: TAR	DW: JTR	CK: TAR
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS				
06-2024: Updated notes.	DIST	COUNTY	SHEET NO.	

DATE:  
FILE: