



**CITY OF AUSTIN
STANDARD PRODUCTS LIST
for
CONCRETE MANHOLE SECTIONS**

USING DEPARTMENT: Austin Water **PREPARED BY:** Bill Flynn, P.E. **ISSUED:** 10/14/81
REVISED BY: Jeff A. Kyle, P.E. **REVISED:** 01/01/23

DESCRIPTION: Pre-cast reinforced concrete manhole sections consisting of circular vertical risers, conical tops, flat slab tops, and base sections meeting ASTM C478 and complying with the following:

1. Base sections shall consist of a riser section cast monolithically with an integral floor.
2. Joint configuration and dimensions for 48" diameter sections shall be as shown on Sheet 3. Joints having conical surfaces with taper angles other than 2° are not allowed.
3. Pipe-to-manhole connectors shall be listed on SPL WW-146D.
4. Joints between manhole sections shall be sealed with gaskets listed on SPL WW-146C.
5. Pre-cast operations must be certified by the National Precast Concrete Association (NPCA). Off-site concrete sources must be certified by the National Ready Mixed Concrete Association (NRMCA).
6. Specified concrete compressive strength, f_c' , shall be at least 5,000 psi. Concrete shall conform to TxDOT Item 421, Class H. Any of the Mix Design Options 1–8 in Item 421.4.2.6 are allowed.
7. Approval is only for the listed physical locations.
8. Cast in place concrete U-shaped invert channels shall connect the entering and exiting pipes. The invert channels shall be constructed so that the connecting pipes will not protrude beyond the inside surface of the manhole wall.
9. The minimum wall thickness for 48" diameter manholes is 5".

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
01/02/97	RINKER MATERIALS (WACO) (formerly Forterra Pipe & Precast WACO) 11710 Chapel Rd. Lorena, TX 76655	48" diameter	R. Lamb
01/01/06	CAPITAL CONCRETE PRODUCTS 5264 Hwy. 71 East Del Valley, TX 78617	48" diameter	R. Lamb
01/01/12	CAPITAL PRECAST, INC. 6905 S. Old Bastrop Highway San Marcos, TX 78666	48" diameter	R. Lamb
04/01/12	OLDCASTLE INFRASTRUCTURE 1900 Rilling Road San Antonio, TX 78214	48" diameter	R. Lamb
07/01/21	THE TURNER COMPANY 7352 SH 142 Maxwell, TX 72644	48" diameter	J. Kyle
04/01/22	LONE STAR PRECAST 454 Kelly Smith Lane Buda, TX 78610	48" diameter	J. Kyle



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NOTES:

1. Project-specific shop drawings shall be submitted for AW approval for pre-cast circular vertical manhole sections of larger diameter than listed above. The shop drawings shall include:
 - a. the flowline elevation of all connecting pipes
 - b. elevations of transitions from large diameter sections to 48" diameter sections
 - c. top of manhole and surrounding ground elevations
 - d. details of special construction considerations specified in the contract documents.
2. Cast-in-place bases shall be used for circular manholes only when specified in the contract documents.
3. Flat slab tops shall be used only when specified in the contract documents.

LATEST REVISIONS (since 04/01/22):

1. Updated FORTERRA PIPE & PRECAST (WACO) to RINKER MATERIALS (WACO).



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