

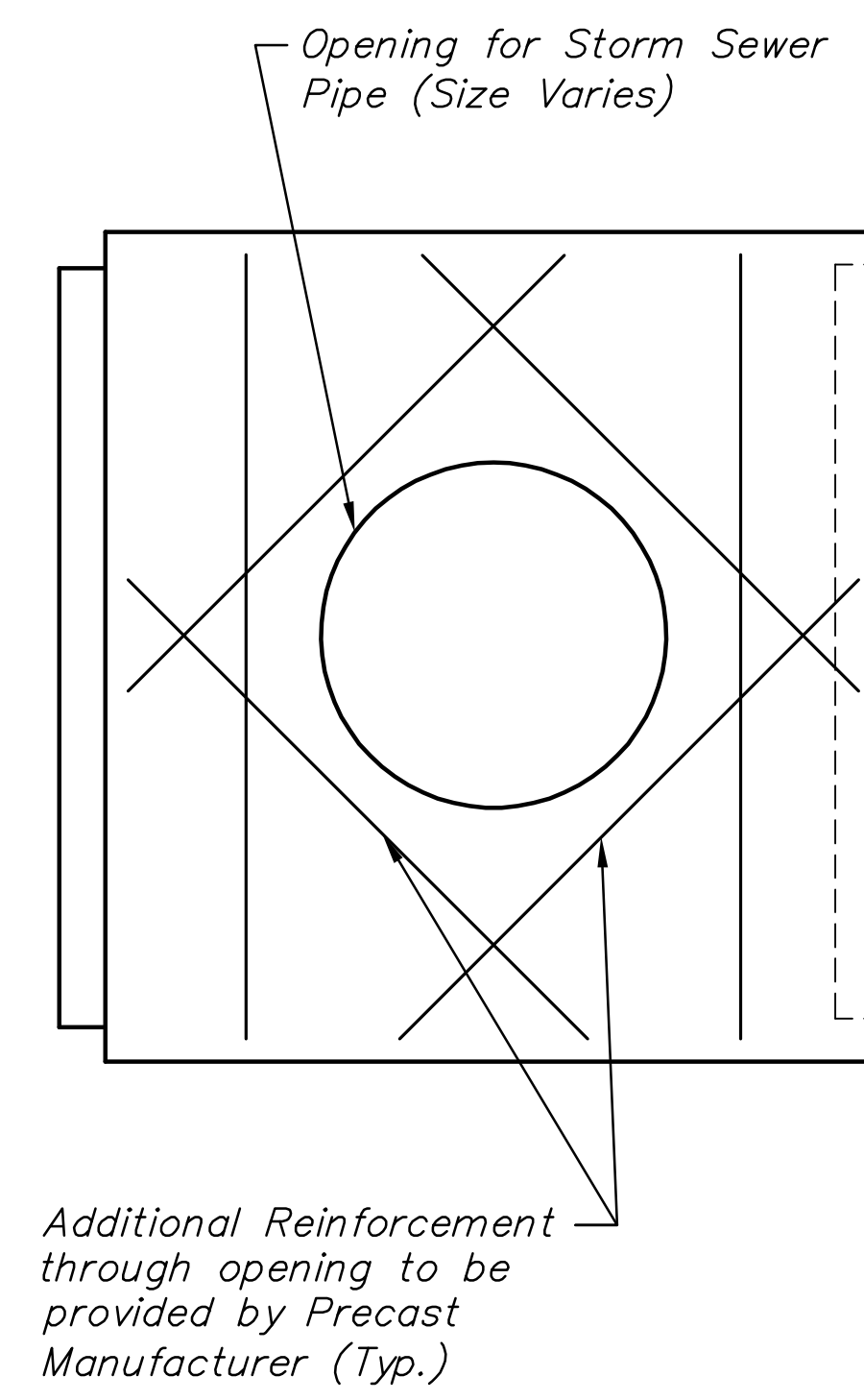
**MT VERNON STREET AND
DRAINAGE IMPROVEMENTS
FROM GREENWAY TO BROADWAY**

**STORM
SEWER
DETAILS**
SHEET TITLE 472-84289
448-90385
468-84514
PROJECT NUMBER

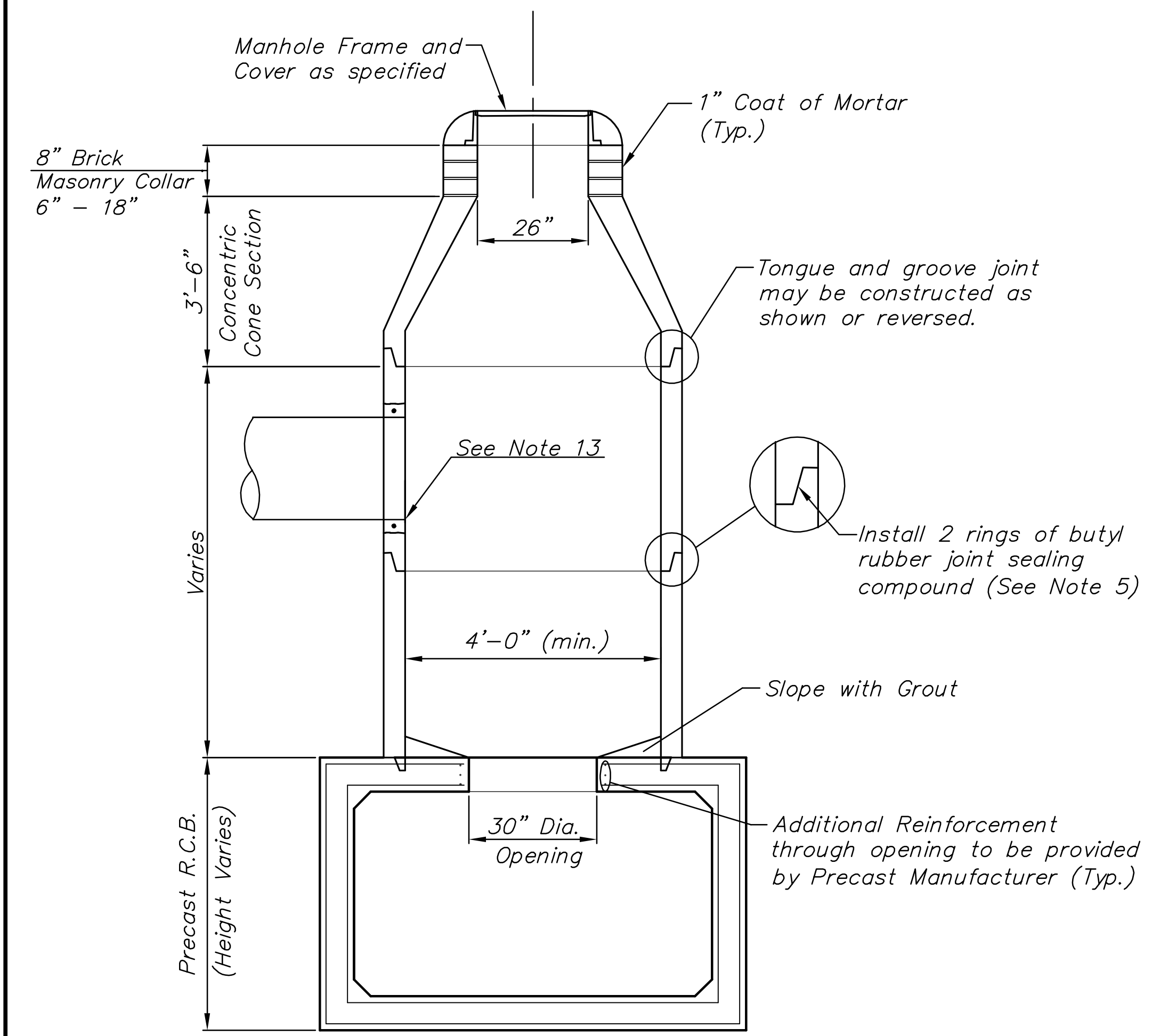
JRA
DESIGN BY
JSB
DRAWN BY
JRA
CHECKED BY

ISSUED
May 27, 2008
REVISED

SHEET NO.
45 of 120

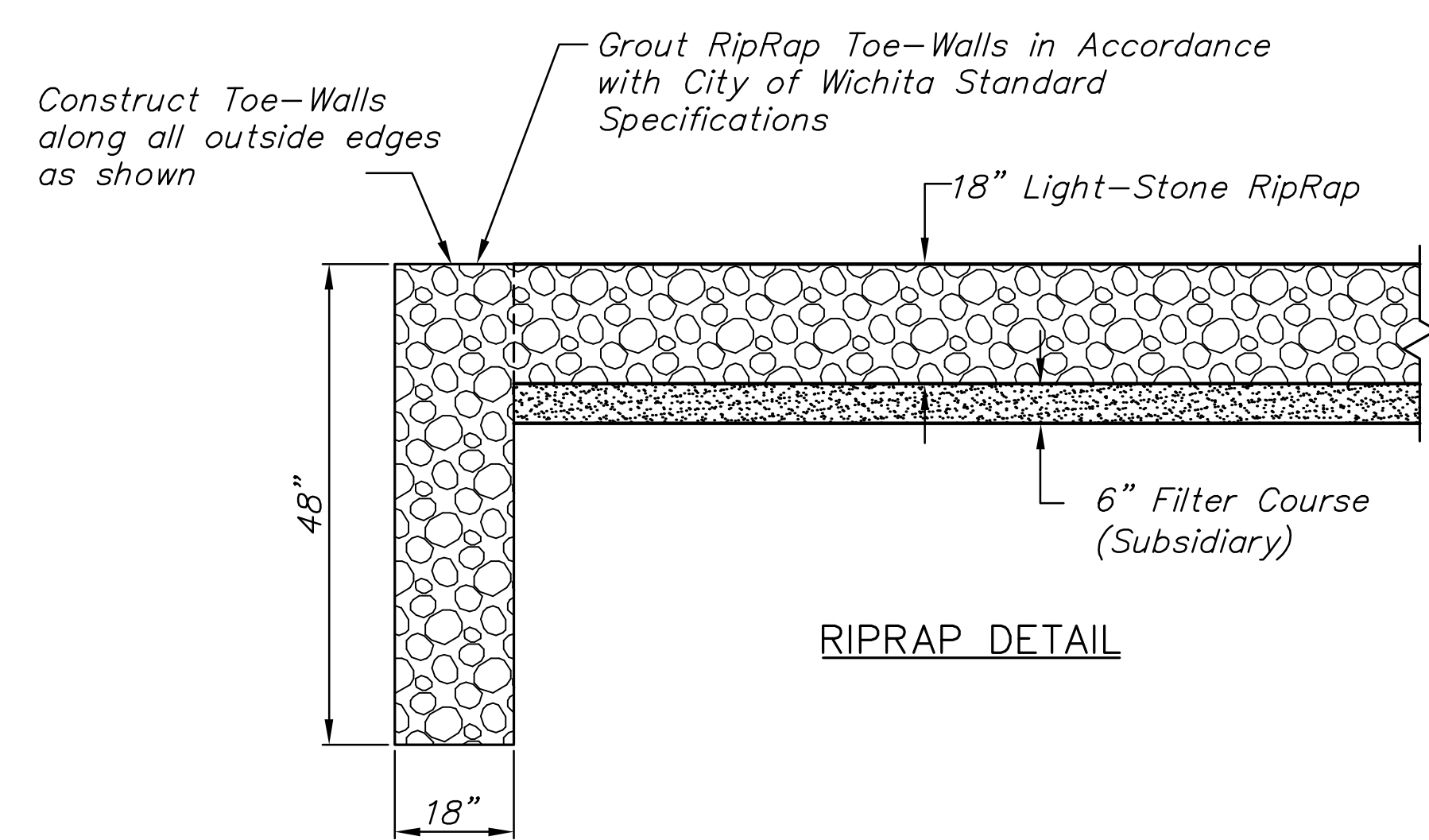


PIPE OPENING IN
PRE-CAST R.C.B. DETAIL

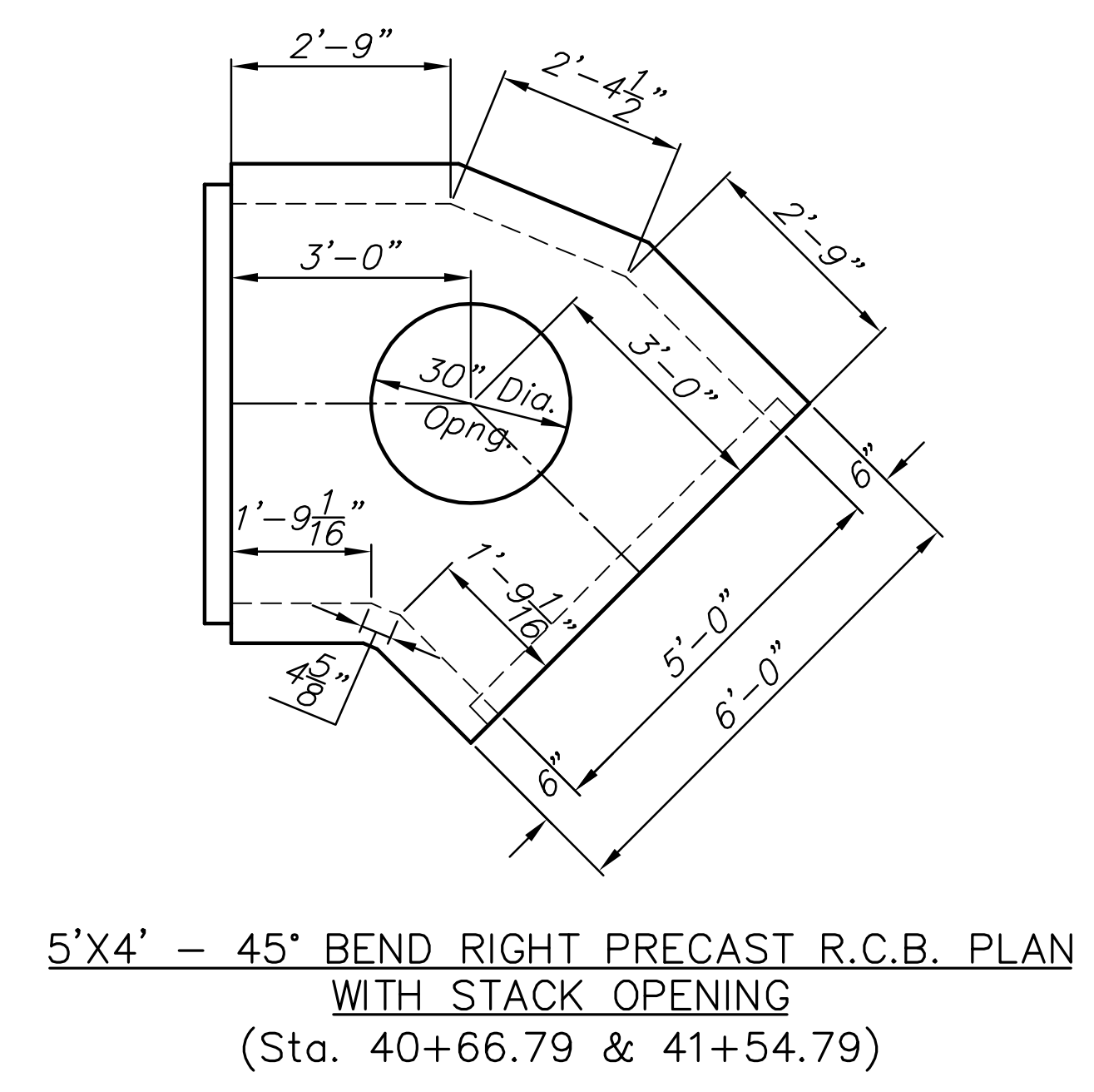


MANHOLE STACK DETAIL

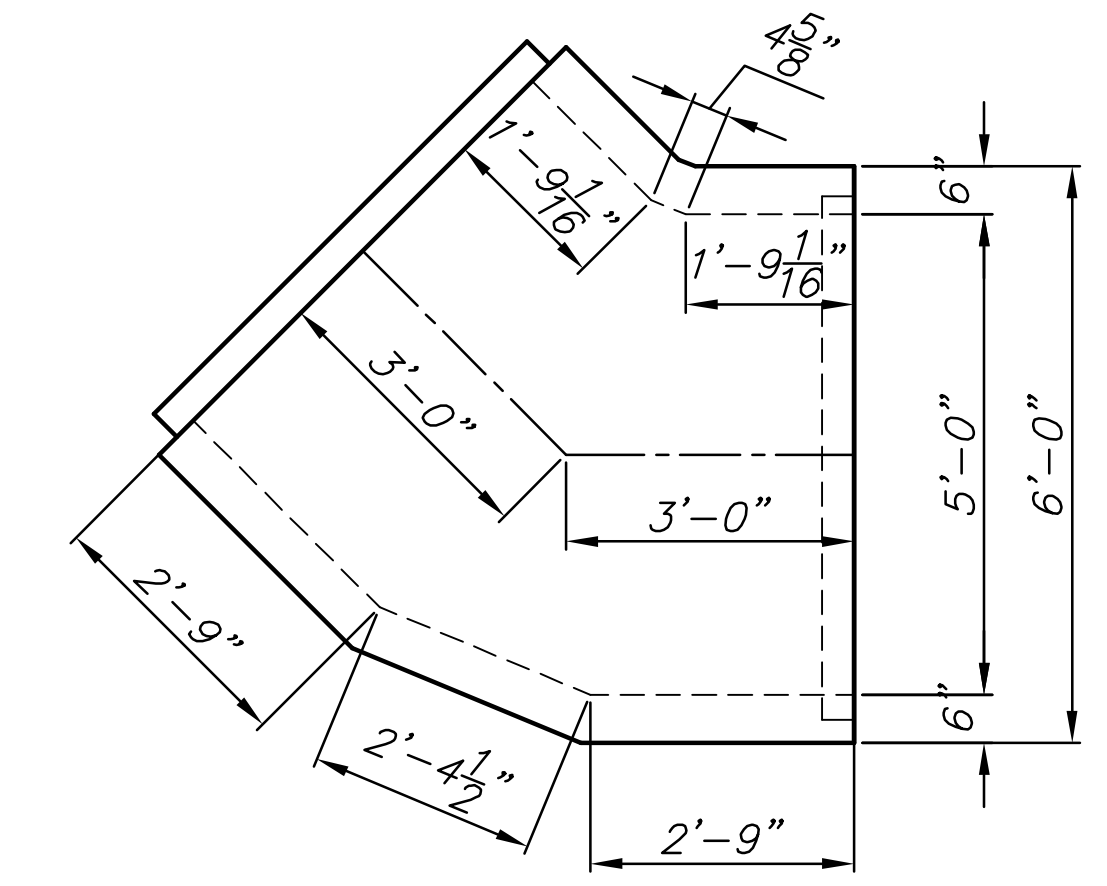
- GENERAL NOTES**
- All precast concrete manhole sections shall conform to the latest revisions of A.S.T.M. C478 as modified by the Specifications.
 - Non-shrink grout shall be non-metallic type.
 - All inside surfaces of the concrete manhole which would be exposed to sewer gas shall be coated with 2 coats Tremec Series 66 hi-build epoxaline, dry thickness of 8 mils (min.) or approved equal.
 - Exterior manhole walls shall be coated with 1 coat Mobilama 633 bituminous coating.
 - Joint sealing compound shall be Kent Seal No. 2 or approved equal.
 - Lifting holes shall be filled with non-shrink grout and the interior surface coated as specified.
 - Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard.
 - Manholes constructed where inflowing pipe sizes are smaller than 24" shall have an inside diameter of 4.0'. Manholes constructed where pipe sizes are 24" to 30" shall have an inside diameter of 5.0' and pipe sizes 36" and larger shall have an inside diameter of 6.0' or will require a reinforced concrete manhole. Completed manhole shall be without leaks and water tight.
 - Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the Standard Specifications and as shown in the standard detail drawing.
 - The bid item "Manhole Stack" shall include all material, painting, cast iron, excavation, backfilling, equipment, tools, and all other incidentals necessary to complete the work.
 - A brick masonry collar shall be installed between the cast iron frame and the concentric cone. The collar will have 8" walls and a vertical height of 6" minimum and 18" maximum. A 1" coat of mortar will be plastered on the outside of the collar. The use of precast concrete spacers for manhole top adjustment shall be allowed.
 - Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. Cost of cradle within manhole excavation shall be included in the unit price bid for the manhole.
 - Sewer pipe joined to the manhole wall shall be grouted into the opening using an approved non shrink grout for the full manhole wall thickness. The exterior of the completed connection shall be sealed with an approved bituminous coating such that the connection will be water tight. The sewer pipe shall be supported with concrete encasement a minimum of 3 feet from the manhole wall.



RIPRAP DETAIL



5'X4' - 45° BEND RIGHT PRECAST R.C.B. PLAN
WITH STACK OPENING
(Sta. 40+66.79 & 41+54.79)



5'X4' - 45° BEND LEFT PRECAST R.C.B. PLAN
(Sta. 40+84.79 & Sta. 41+20.79)

PLOT: 05/27/08 04:41 PM

J:\CIVIL\05620\DWG\DETAILS\05620D02.DWG