

**NOTE:**

SPECIAL DESIGN CONSIDERATION SHOULD BE GIVEN WHEN DEPTH OF COVER EXCEEDS 12'-0" AND/OR THE SIZE AND NUMBER OF PIPES ENTERING THE MANHOLE RESULTS IN UNUSUAL CONDITIONS. MANHOLE SHALL BE 5'-0" DIA. WHEN DEPTH EXCEEDS 12'-0".

**PLAN**

CAST IRON MANHOLE FRAME & COVER U.S. FOUNDRY No.420C OR APPROVED EQ. ORIENT ON  $\phi$  OF STREET WHERE POSSIBLE. (SEE MANHOLE FRAME & COVER DETAIL)

FINISHED GRADE  
MORTAR AS REQUIRED

ADJUST TO GRADE WITH MIN. OF 2 & MAX. OF 5 COURSES OF BRICK MASONRY (NO EXCEPTIONS)

WATERTIGHT "RAINSTOPPER" MANHOLE INSERT AS MFR. BY SOUTHWESTERN PACKING AND SEALS

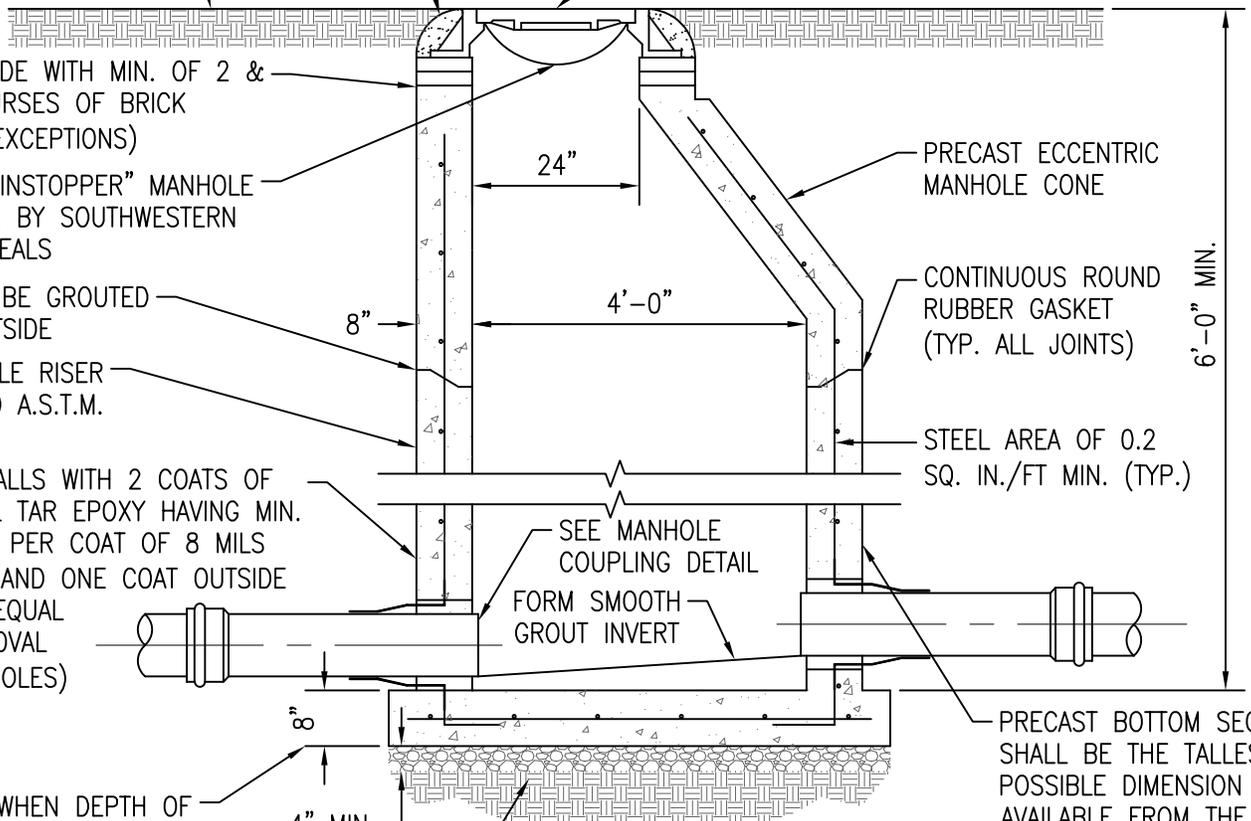
ALL JOINTS TO BE GROUTED INSIDE AND OUTSIDE

48" I.D. MANHOLE RISER CONFORMING TO A.S.T.M. C478-73

PAINT INSIDE WALLS WITH 2 COATS OF TARGUARD COAL TAR EPOXY HAVING MIN. DRY THICKNESS PER COAT OF 8 MILS (11 MILS WET) AND ONE COAT OUTSIDE OR APPROVED EQUAL PER CITY APPROVAL (TYP. ALL MANHOLES)

USE 12" WHEN DEPTH OF COVER IS MORE THAN 12'-0"

3/4" ROCK BEDDING



**SECTION**

PRECAST ECCENTRIC MANHOLE CONE

CONTINUOUS ROUND RUBBER GASKET (TYP. ALL JOINTS)

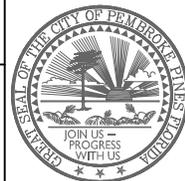
STEEL AREA OF 0.2 SQ. IN./FT MIN. (TYP.)

SEE MANHOLE COUPLING DETAIL  
FORM SMOOTH GROUT INVERT

PRECAST BOTTOM SECTION SHALL BE THE TALLEST POSSIBLE DIMENSION AVAILABLE FROM THE PRECASTER AND THE NUMBER OF SECTIONS SHALL BE MINIMIZED.

CITY OF PEMBROKE PINES  
ENGINEERING/UTILITIES DIVISION

STANDARD SANITARY  
SEWER DETAIL



**S-2**

APPROVED: J.M.

DATE: 11/05/99

REVISED:

02/06/23

ECCENTRIC PRECAST  
MANHOLE - 6 FEET AND  
GREATER