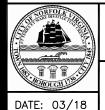


## MANHOLE 30" CASTING AND COVER **INSERT** PRECAST MANHOLE CASTING -PRECAST SHALL BE CONCRETE **IMBEDDED** RISER IN CEMENT **MORTAR BUTYL JOINT SEALANT** ASTM C443/C990 D. 48" OR 60" DIA. REINFORCEMENT **4**8, TO MEET $\circ$ 5" OR 6" **ASTM A1064** SEE NOTE 8 FOR FLEXIBLE BOOT SHAPE BENCH TO CONNECTION SEE DEPTH DIRECT FLOW TOWARD ASTM C923 (TYP) EFFLUENT INVERT. CUT PIPE -BASE SLAB AND o, FLUSH WITH BENCH SHALL BE ONE MAXQ R **BENCH** CONTINUOUS POUR MANHOLE SET ON 7 CONSTRUCTION BLOCKS TO **PROVIDE** CLEARANCE FOR BASE SLAB POUR

**PROFILE** 

## NOTE:

- ALL MANHOLE WALLS SHALL RECEIVE INSIDE APPLICATION OF SIKAGARD HIGH-BUILD OR APPROVED EQUAL APPLIED IN 3-4 COATS OF 4-7 MILS.
- JOINTS, LIFT HOLES & CHIPS TO BE POINTED WITH NONSHRINK GROUT AND COATED WITH SIKAGARD HIGH—BUILD OR APPROVED EQUAL ON INSIDE WALL, AND PAINTED WITH BITUMINOUS COATING ON OUTSIDE WALL.
- MANHOLE SHALL MEET ALL REQUIREMENTS OF ASTM C478.
- 4. CONCRETE SHALL BE 4000 PSI COMPRESSIVE STRENGTH MINIMUM.
- 5. BASES SHALL BE EXTENDED MONOLITHIC TYPE.
- 6. THE DIFFERENCE BETWEEN THE INFLUENT PIPE INVERT AND THE MANHOLE EFFLUENT INVERT SHALL BE NO GREATER THAN 1.99 FEET. IF EQUAL TO OR GREATER THAN 2 FEET AN OUTSIDE DROP CONNECTION IS REQUIRED.
- PREVENT FLOTATION WITHOUT THE
  BENEFIT OF SKIN FRICTION WHEN THE
  GROUND WATER LEVEL IS AT THE
  FINISHED GROUND SURFACE. THE
  FLOTATION FORCES SHALL BE RESISTED
  BY THE DEAD LOAD OF THE STRUCTURE
  AND THE SOIL DIRECTLY ABOVE THE
  STRUCTURE. THE WEIGHT OF THE
  EQUIPMENT AND PIPING WITHIN THE
  STRUCTURE AND THE SOIL FRICTIONAL
  FORCES SHALL NOT BE CONSIDERED AS
  BEING EFFECTIVE IN RESISTING
  FLOATATION FORCES.
- MINIMUM WALL THICKNESS FOR A 48-INCH DIA. MANHOLE IS 5 INCHES 60-INCH DIA. MANHOLE IS 6 INCHES
- MAX PRECAST SECTION HEIGHT FOR A 48-INCH DIA. MANHOLE IS 4 FEET 60-INCH DIA. MANHOLE IS 5 FEET



CITY OF NORFOLK — DEPARTMENT OF UTILITIES STANDARD DETAILS

VDOT NO. 57 STONE

MIN 6"

SCALE: NOT TO SCALE

STRADDLE PRECAST SEWER MANHOLE

DRAWING NO. CS 04