

Manhole Frame and Cover
 Heavy Duty: Neenah R-1642A or Equal
 Watertight: Neenah R-1916-F or Equal

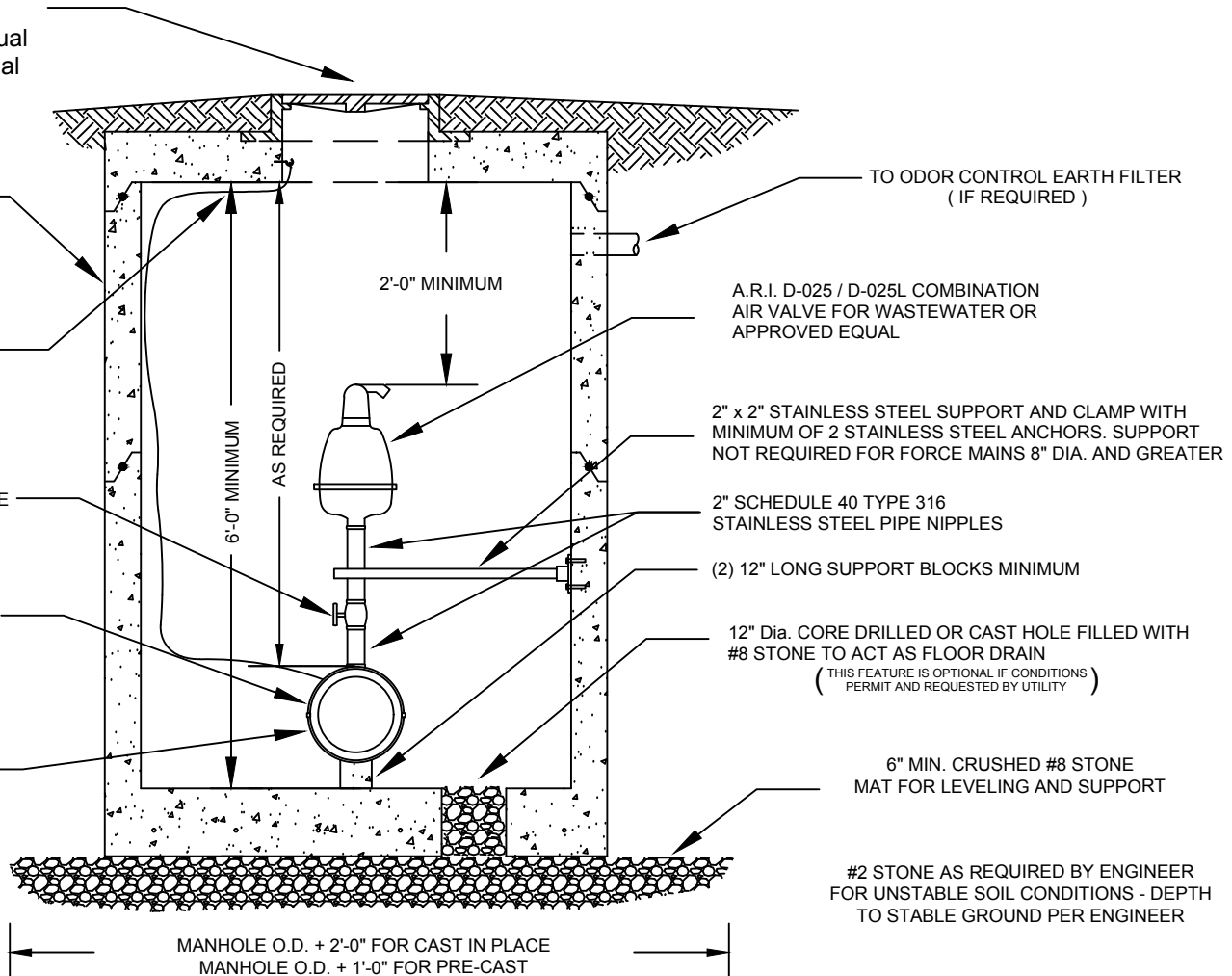
MANHOLE CONSTRUCTION AND SEALING
 DETAILS SHALL BE THE SAME AS DETAILS
 FOR TYPE I & II MANHOLES AS SHOWN ON
 DWG CS7

10 TRACER WIRE BROUGHT IN AND
 ATTACHED TO MANHOLE WITH STAINLESS
 STEEL HOOK ACCESSIBLE FROM CASTING

TYPE 316 STAINLESS STEEL BALL VALVE

FORCE MAIN TO BE CONSTRUCTED OF
 DUCTILE IRON PIPE WITHIN STRUCTURE

"C" X 2" TEE WHERE "C" IS THE SIZE OF
 THE FORCE MAIN. USE FLANGED TEE
 WHEN FORCE MAIN IS 4" OR LARGER



TO ODOR CONTROL EARTH FILTER
 (IF REQUIRED)

A.R.I. D-025 / D-025L COMBINATION
 AIR VALVE FOR WASTEWATER OR
 APPROVED EQUAL

2" x 2" STAINLESS STEEL SUPPORT AND CLAMP WITH
 MINIMUM OF 2 STAINLESS STEEL ANCHORS. SUPPORT
 NOT REQUIRED FOR FORCE MAINS 8" DIA. AND GREATER

2" SCHEDULE 40 TYPE 316
 STAINLESS STEEL PIPE NIPPLES

(2) 12" LONG SUPPORT BLOCKS MINIMUM

12" Dia. CORE DRILLED OR CAST HOLE FILLED WITH
 #8 STONE TO ACT AS FLOOR DRAIN
 (THIS FEATURE IS OPTIONAL IF CONDITIONS)
 PERMIT AND REQUESTED BY UTILITY)

6" MIN. CRUSHED #8 STONE
 MAT FOR LEVELING AND SUPPORT

#2 STONE AS REQUIRED BY ENGINEER
 FOR UNSTABLE SOIL CONDITIONS - DEPTH
 TO STABLE GROUND PER ENGINEER

NOTES:

1. FORCE MAIN TO BE LOCATED SUCH THAT AIR/VACUUM DOES NOT INTERFERE WITH ACCESS OPENING.
2. TOP OF CASTING SHALL EXTEND 0.20 FEET (MIN.) ABOVE FINISHED GRADE.
3. MANHOLE SECTIONS SHALL CONFORM TO ASTM C478 UTILIZING 4,000 PSI CONCRETE. JOINTS SHALL CONFORM TO ASTM C443. 4'-0" DIA. MANHOLE FOR 6" FORCE MAIN AND SMALLER OR 5'-0" DIA. MANHOLE FOR 8" FORCE MAIN AND LARGER.

City of Carmel Utilities Standard Details		Title: AIR / VACUUM RELEASE MANHOLE DETAIL	
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