

DEVELOPED FLOW LINE

SET FRAME FLUSH WITH PAVEMENT AND EMBED IN MORTAR.
SECURE FRAME TO CONE THROUGH ALL ADJUSTING RINGS WITH
FOUR 3/4" STAINLESS CINCH ANCHORS.

A Division of Greater Cincinnati Water Works

C I N C I N N A T I

STORM WATER

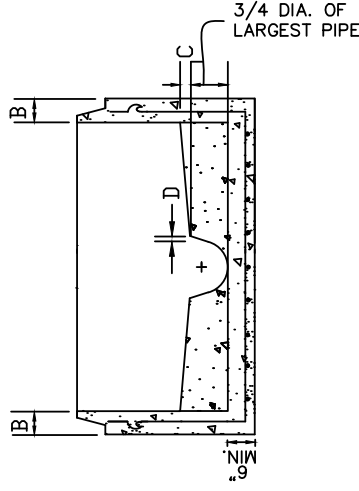
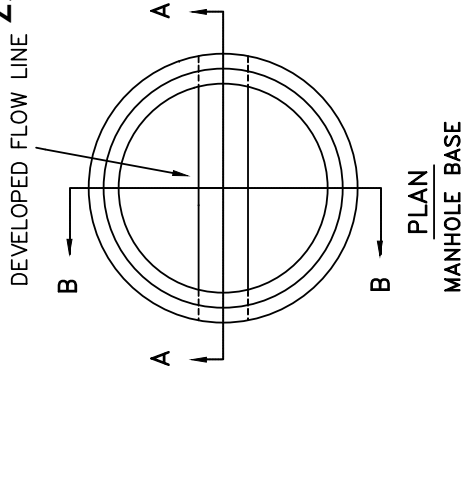
MANAGEMENT UTILITY



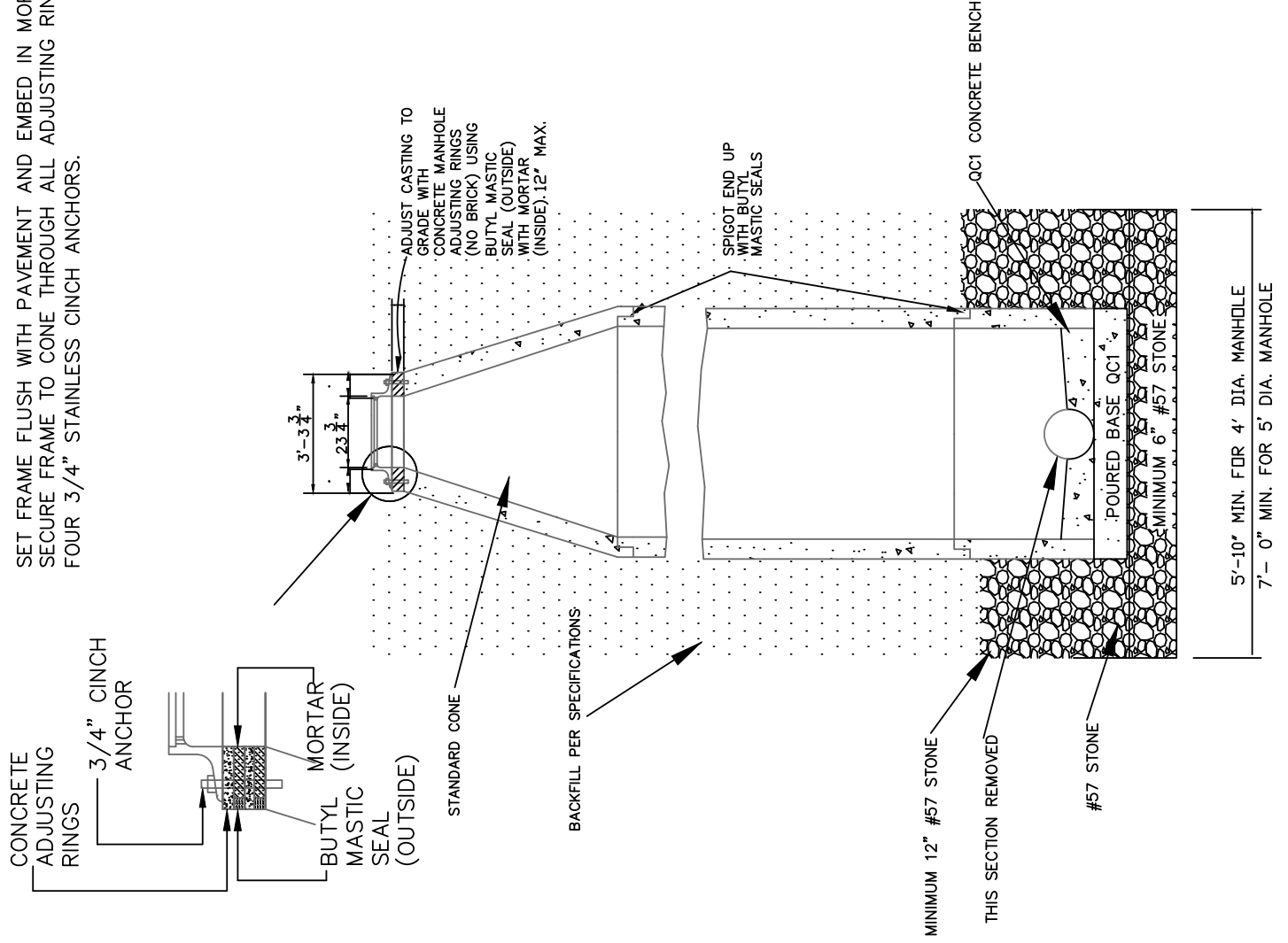
Dog House Manhole - 120355

Approved *Eve Bayler*

City Stormwater Management Engineer



PIPE DIAMETER	DIMENSION			
	A	B	C	D
8" THRU 24"	48"	5"	2"-3"	UP TO 1 1/2"
27" - 36"	60"	6"	2"-3"	UP TO 1 1/2"



General SMU Notes

1. Inlet chambers shall be precast or made from concrete block in accordance with latest ODOT CMS and City Supplement specifications.
2. All structures must meet standard inside dimensions.
3. Block chambers shall be made from solid slab blocks.
4. Mortar joints shall be a minimum of 3/8".
5. Block walls shall be skim coated with a minimum 1/8" mortar.
6. Casting shall be set in a bed of mortar.
7. Block floors are not permitted.
8. Precast box shall be set on a bed of 6" compacted #57 stones with the floor poured to match flow lines.
9. Concrete floors shall be a minimum of 6" thick.
10. Precast walls shall be a minimum 6" thick.
11. All risers shall be sealed with 2 rows of Con-seal. One interior and one exterior.
12. Pipes shall not enter within 8" of an inside corner.
13. Outlet pipe shall be flush with wall or protrude no more than 1".
14. For incoming conduits with diameter of 8" and smaller see Acc. # 120340.
15. For standard casting, see Acc. # 49017.
16. For standard reinforcing steel notes see Acc. # 49010.
17. Inlet connections in a cone section are not permitted.
18. No more than 2 inlet connections spaced 2' +/- apart horizontally in a 3' or 4' manhole section.
19. Hubs inside of any structure are not permitted.
20. All reinforcing bars shall clear interior face of wall by 2".
21. For installation of risers, a 1" tolerance in either direction is permitted.
22. Protrusions for inlet pipes shall be a minimum of 1" and a maximum of 2".

23. All pipes shall be set in a bed of mortar, dry fitting is not permitted.
24. Pipe edges shall be smooth. No jagged edges are permitted.
25. Shop drawings for precast structures must be approved prior to work commencing.
26. No knockouts are permitted.
27. No steps are permitted.
28. All penetrations shall be manufactured or cored and shall not exceed 4" greater than the conduit's outside diameter.
29. Shims are not permitted.

Dog House Manhole

1. 5" DIAMETER MANHOLE SHALL BE CONSTRUCTED OF 60" PRECAST CONCRETE MANHOLE SECTIONS.
2. A 5' TO 4' REDUCER MAY BE USED ABOVE THE BASE SECTION.
3. 3" ECCENTRIC CONE MAY BE USED ONLY WHERE PERMISSION IS GRANTED BY SMU.
4. PRECAST CONCRETE BARRELS AND CONES SHALL MEET THE REQUIREMENTS OF ODOT SPECIFICATIONS.
5. JOINTS ON MANHOLE SECTIONS SHALL BE MADE WITH A RUBBER GASKET MEETING THE REQUIREMENT OF ASTM C-443, EXCEPT THAT ONLY "O" RING AND PROFILE GASKETS ARE ACCEPTABLE.
6. LIFT HOLES IN MANHOLES TO BE SEALED WITH HYDRAULIC CEMENT.
7. MANHOLE FRAME AND COVER CASTINGS SHALL BE IN ACCORDANCE WITH STD. ACC. NO. 120282.
8. STEPS MUST BE REMOVED AND THE HOLES PROPERLY GROUTED.
9. A FLOW LINE MUST BE ESTABLISHED IN THE FLOOR OF THE MANHOLE.
10. OPENINGS FOR INFLUENT AND EFFLUENT CONDUIT SHALL BE PROVIDED TO MEET THE PROJECT REQUIREMENTS.
11. MANHOLE BASES SHALL BE INSTALLED ON A 6" MINIMUM GRAVEL BASE (#57 STONE).
12. NO SLAB TOP MANHOLE LIDS ALLOWED IN THE RIGHT OF WAY.

