CITY OF BLOOMINGTON UTILITIES ENGINEERING

NO SCALE
03/12/12
J. DODDS

Drawing File:
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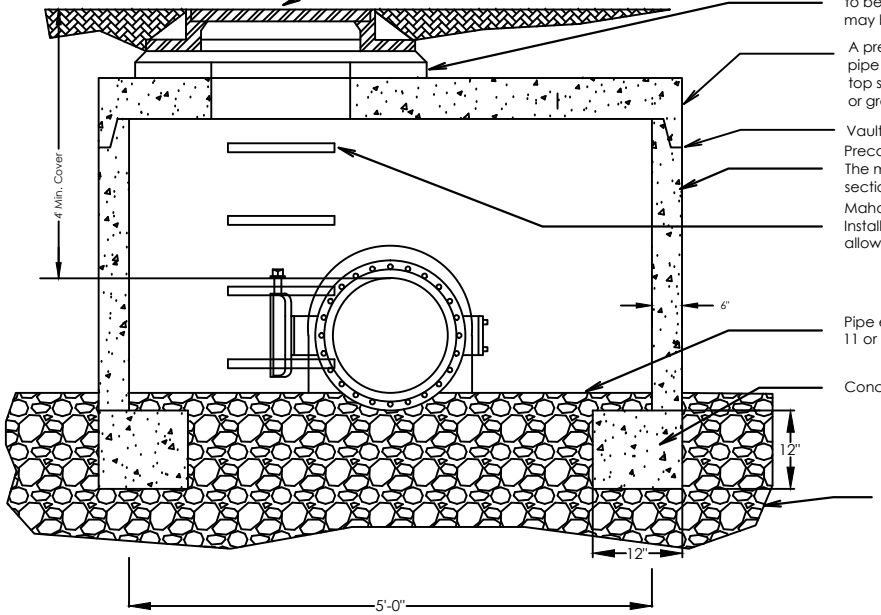
Valve Vault with Butterfly Valve

STANDARD DETAIL NUMBER 27



Manhole Frame and Cover
Frame shall be East Jordan iron works casting No. 1020, 1022, or approved equivalent. Cover shall be East Jordan iron works casting No. 1020A or approved equivalent. The word 'water' shall be cast into each cover. All castings shall be coated. Frame shall be set on Butyl rubber rope.

A minimum 2" of riser ring shall be installed in areas to be sodded or seeded. No more than 12" of rings may be used to adjust the frame and cover to grade.

A precast flat top shall be used when pipe depth is less than 6". An Ecentric top shall be used when pipe depth is 6" or greater.

Vault top shall be set on butyl-rubber sealant

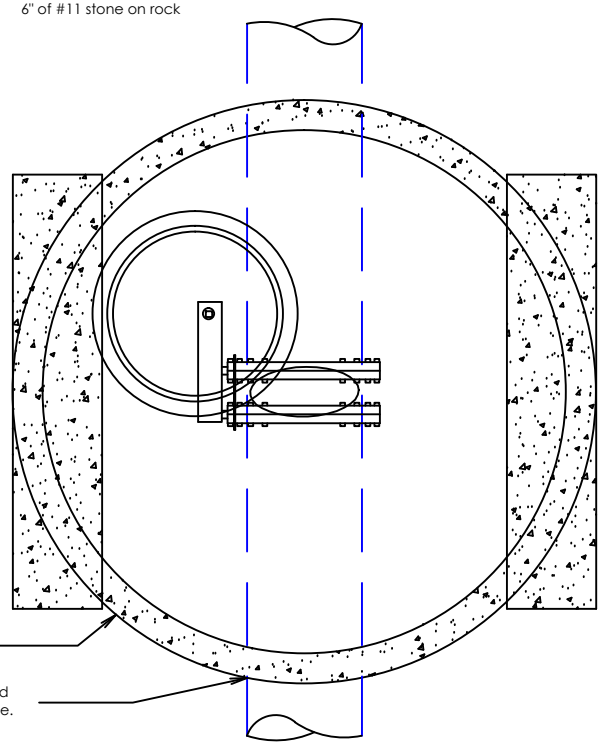
Precast Manhole Barrel Section(s)
The minimum total height of barrel sections is 6'-0"

Mahole steps shall be constructed of fiberglass reinforced polypropylene. Install with nonshrink mortar or epoxy grout 12" or 16"apart and at a location allowing access to the table.

Pipe embedment material shall be crushed stone size number 11 or 12 ASTM D-2321, Class 1.

Concrete footer cast-in-place

Bedding 4" of #11 stone on soil or 6" of #11 stone on rock



Manhole construction shall be 4500 PSI concrete reinforced with 10x10-W10xW10 welded wire fabric.

Plug annular space between the main and the manhole with brick and and mortar to prevent backfill materials from entering into the manhole.