

NOTE: CONTRACTOR SHALL REMOVE MANHOLE STEPS AND GROUT AFTER MANHOLE TESTING IS SUCCESSFULLY COMPLETED AND ACCEPTED BY THE CITY.

REVISION DATE

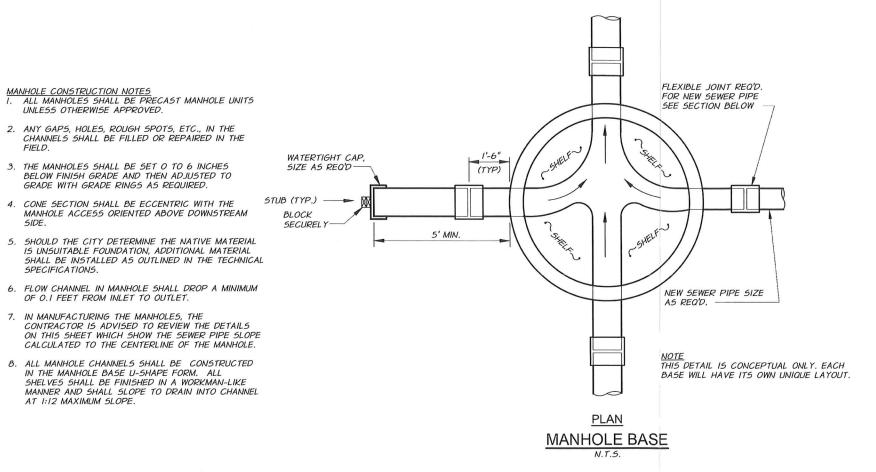
ORIGINAL DEVELOPMENT MARCH 2021



CITY OF BOARDMAN, OREGON STANDARD DRAWING SANITARY SEWER

STANDARD PRECAST MANHOLE

FIGURE



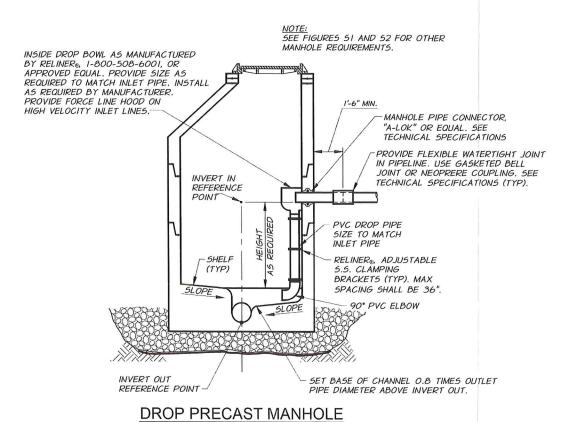
REVISION DATE ORIGINAL DEVELOPMENT MARCH 2021

UNLESS OTHERWISE APPROVED.

SPECIFICATIONS.

CITY OF BOARDMAN, OREGON STANDARD DRAWING SANITARY SEWER
MANHOLE BASE/ **CONSTRUCTION NOTES**

FIGURE



REVISION DATE

ORIGINAL DEVELOPMENT MARCH 2021



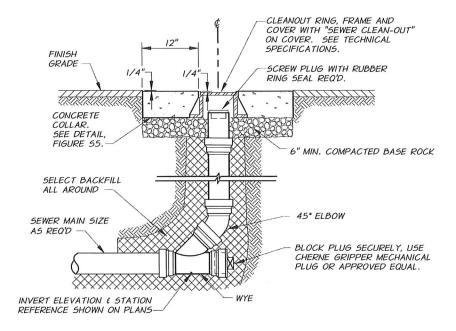
CITY OF BOARDMAN, OREGON STANDARD DRAWING SANITARY SEWER

DROP PRECAST MANHOLE

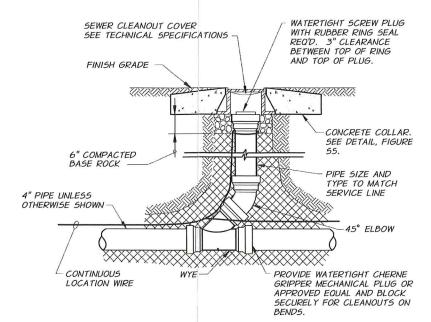
FIGURE

S3

5-010_CityStandardDrawings\Drafting\439-56-010_S03.dwg. FIGURE, 3/19/2021 10:34 AM, gs



GRAVITY SEWER MAIN LINE CLEANOUT



SEWER SERVICE LINE CLEANOUT

REVISION DATE

ORIGINAL DEVELOPMENT MARCH 2021



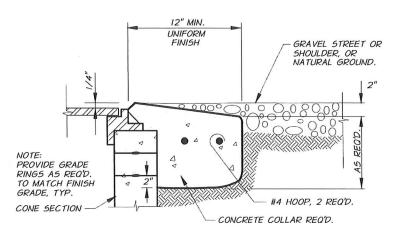
CITY OF BOARDMAN, OREGON STANDARD DRAWING SANITARY SEWER

SEWER CLEANOUTS

FIGURE

MANHOLE AND CLEANOUT CONCRETE COLLAR DETAIL

ASPHALT PAVEMENT N.T.5.

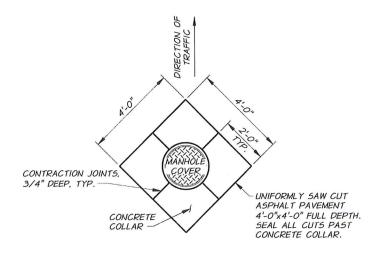


MANHOLE AND CLEANOUT CONCRETE COLLAR DETAIL

GRAVEL STREETS OR NATURAL GROUND N.T.S.

- REQUIREMENTS FOR CONCRETE COLLARS

 I. CONCRETE: 3/4", 7 SACK, 4000 PSI @ 28 DAYS, 2" TO 4" SLUMP, 4-7% AIR.
- 2. COLLAR TO BE FORMED AND BE UNIFORMLY ROUND.
- 3. SMOOTH BROOMED FINISH REQUIRED.
- 4. APPLY CONCRETE CURING COMPOUND.
- 5. PROTECT FROM TRAFFIC FOR 4 DAYS MINIMUM.



MANHOLE CONCRETE COLLAR DETAIL

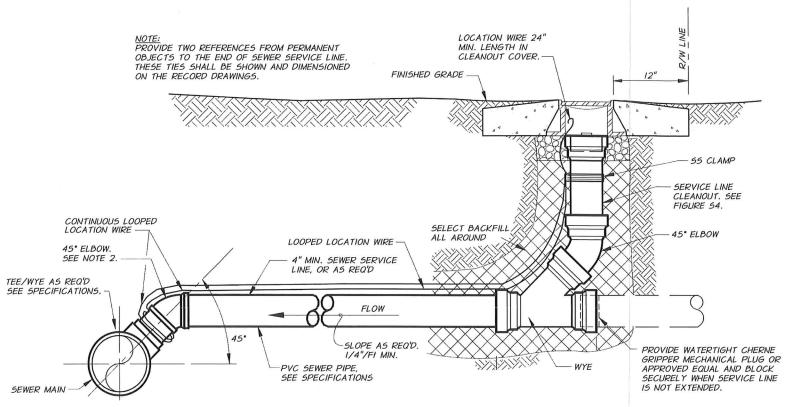
N.T.5.

REVISION DATE ORIGINAL DEVELOPMENT MARCH 2021



CITY OF **BOARDMAN, OREGON** STANDARD DRAWING **SANITARY SEWER** MANHOLE AND CLEANOUT **CONCRETE COLLAR DETAILS**

FIGURE



NOTES
1. SERVICE LINE IS NOT NECESSARILY AT 90° TO SEWER MAIN. PROVIDE FITTINGS AS REQUIRED TO INSTALL SERVICE.

 DEPTH OF SEWER MAIN MAY NOT ACCOMMODATE TEE/WYE 45* ANGLE ORIENTATION. CONTRACTOR SHALL HAVE ALTERNATE ALIGNMENT APPROVED BY CITY.

$\underset{\textit{N.T.S.}}{\underline{\mathsf{SEWER}}} \, \underset{\textit{N.T.S.}}{\underline{\mathsf{SERVICE}}} \, \, \underline{\mathsf{LINE}}$

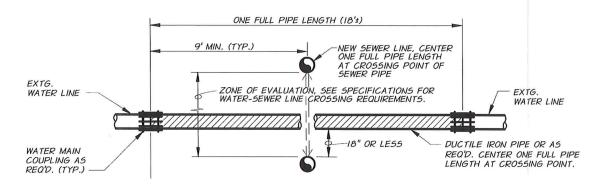
REVISION DATE

ORIGINAL DEVELOPMENT MARCH 2021

CITY OF
BOARDMAN, OREGON
STANDARD DRAWING
SANITARY SEWER

SEWER SERVICE LINE

FIGURE



NOTE
ALL BACK FILL IN AREA OF WATER-SEWER CROSSING TO A DEPTH 12" ABOVE
THE TOP OF THE HIGHEST PIPE SHALL BE 3/4"-O BASE ROCK COMPACTED TO
95% OF ASTM D-698 LABORATORY DENSITY

WATER-SEWER CROSSING (NEW SEWER LINE CONSTRUCTION)

REVISION	DATE	Y
ORIGINAL DEVELOPMENT	MARCH 2021	
		\exists
		$\overline{}$



CITY OF BOARDMAN, OREGON STANDARD DRAWING SANITARY SEWER

WATER-SEWER CROSSING

FIGURE

S7

ityStandardDrawings\Drafting\439-56-010_S07.dwg, FIGURE, 3/19/2021 10:13 AM, gsaurbier