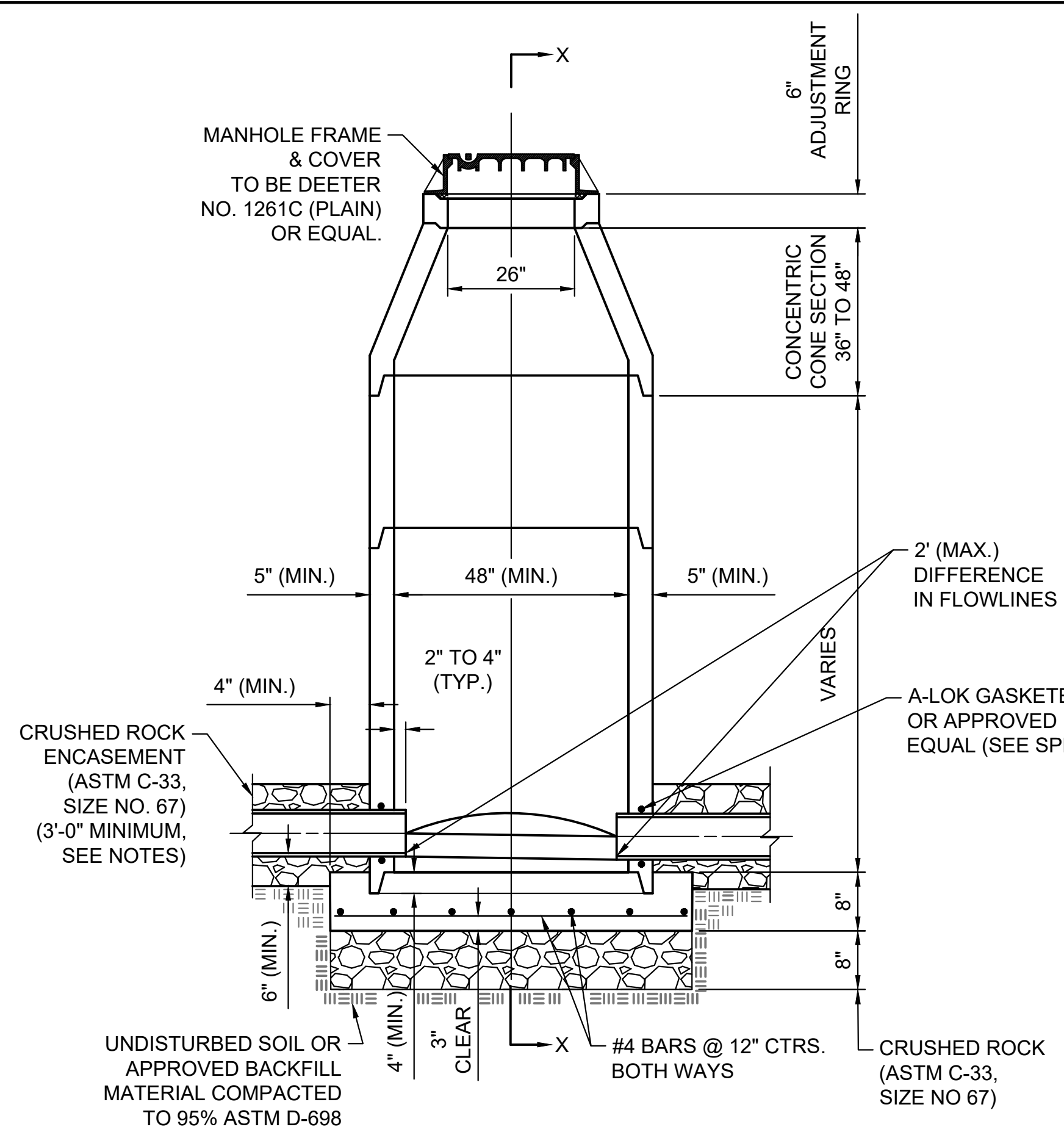
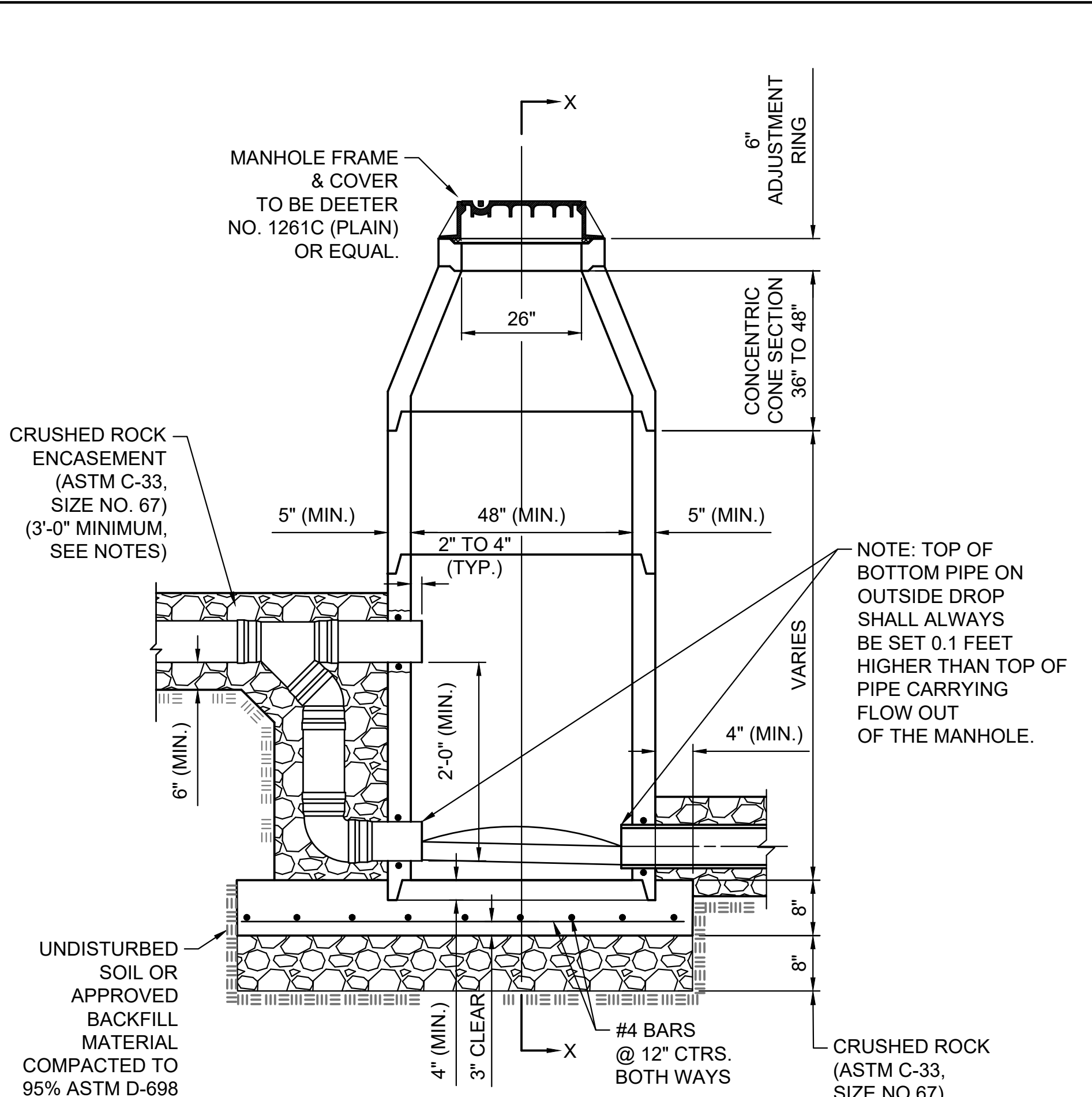


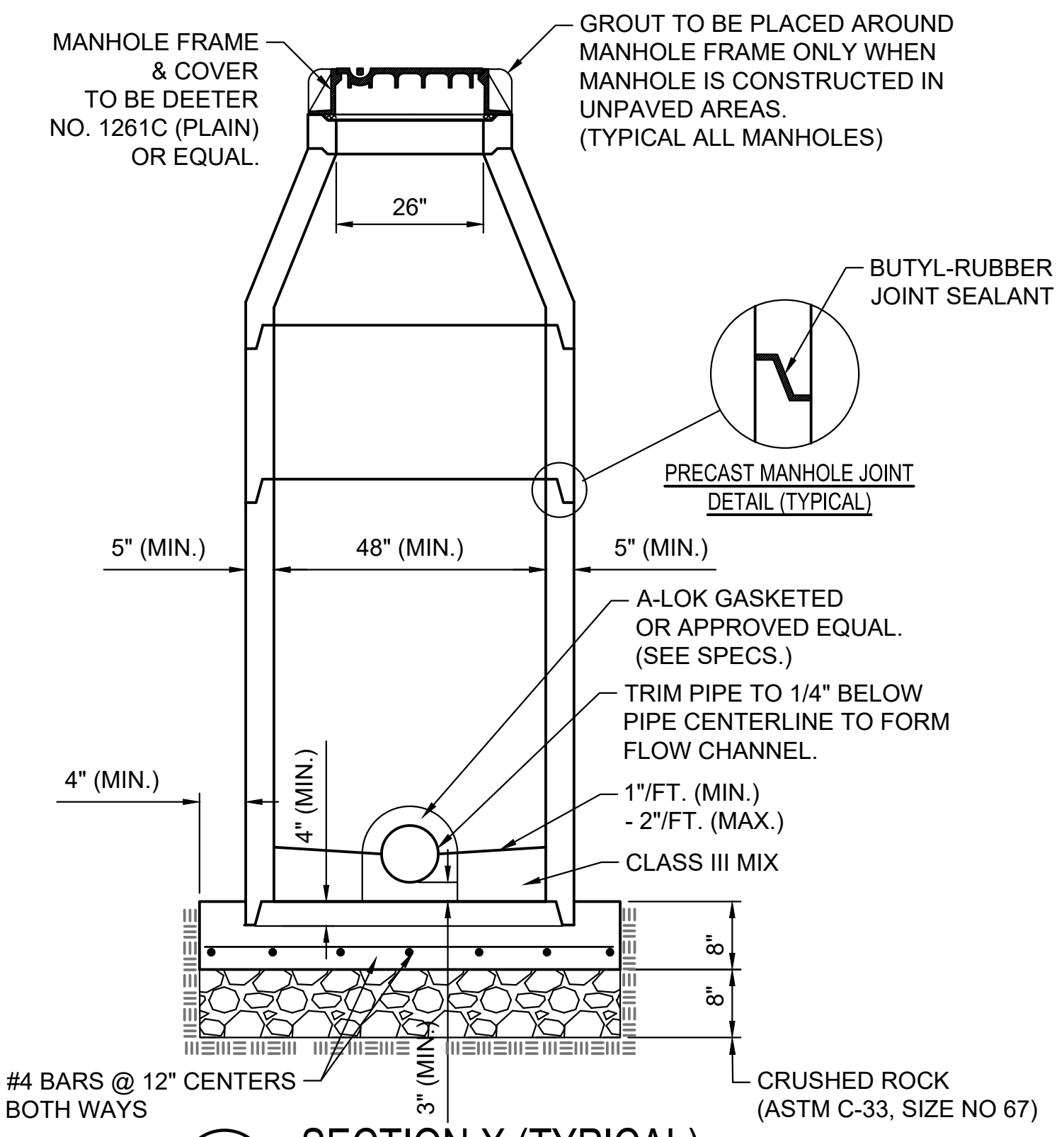
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 PLOTTED 12/14/2023 9:42:03 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2021\210602\01\11\UNIDRAWINGS\AIR VALVE REPLACEMENTS\210602-001-CU505.DWG



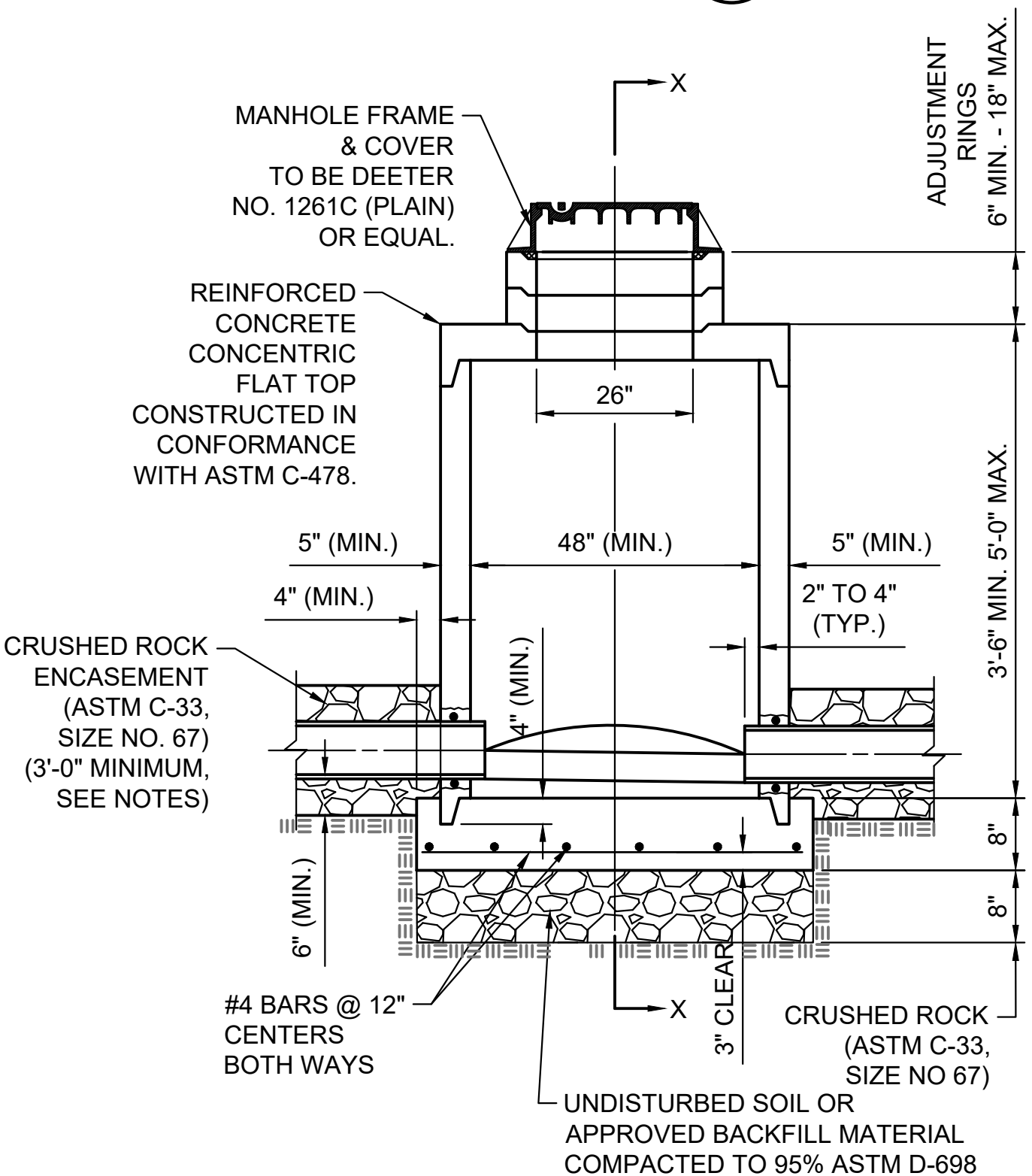
PRECAST STANDARD MANHOLE
 NOT TO SCALE



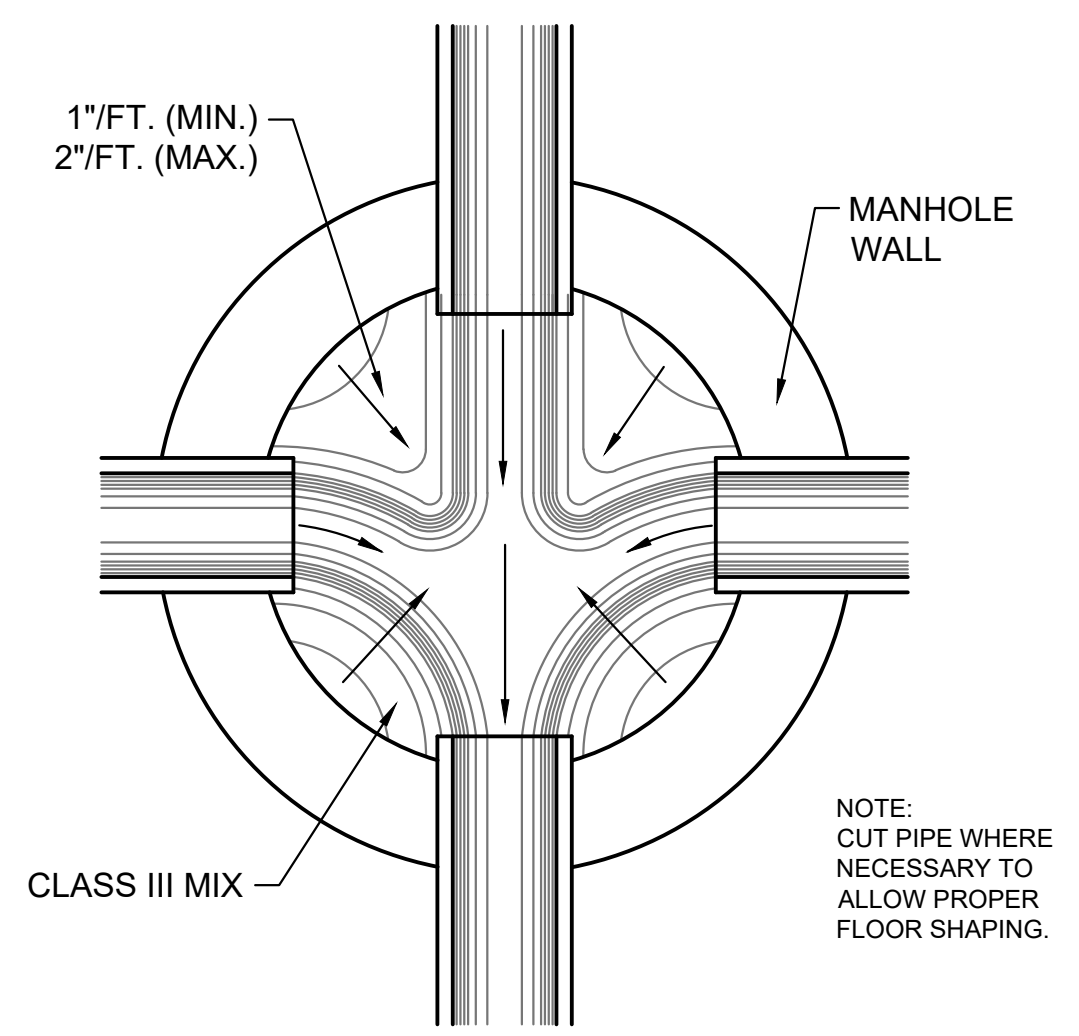
PRECAST OUTSIDE DROP MANHOLE
 NOT TO SCALE



SECTION X (TYPICAL)
 NOT TO SCALE



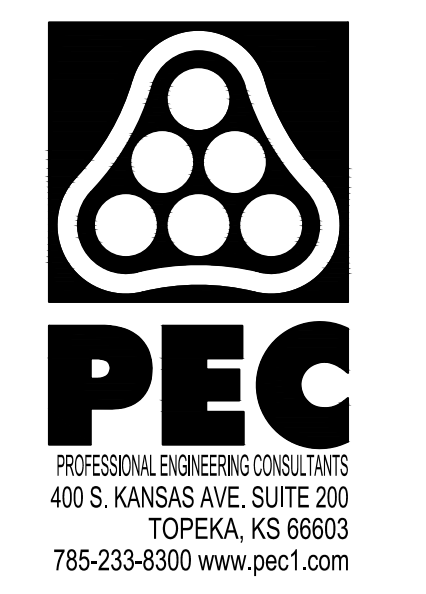
PRECAST SHALLOW MANHOLE
 NOT TO SCALE



TYPICAL MANHOLE FLOOR SHAPING
 NOT TO SCALE

PRECAST MANHOLE NOTES

- MANHOLE SUBGRADE SHALL HAVE A MINIMUM OF 1,500 PSF SOIL BEARING CAPACITY. IF MANHOLE SUBGRADE IS UNSTABLE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- DOG HOUSE MANHOLES MAY BE USED WHERE CONNECTING TO EXISTING SEWERS. APPROVED FLEXIBLE WATERSTOP GASKETS WHICH MEET OR EXCEED THE TEST REQUIREMENTS OF ASTM C-923 SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE WALL WHEN PLASTIC PIPE IS USED. SEWER PIPE EXTENDING FROM MANHOLES SHALL BE SUPPORTED WITH CRUSHED ROCK ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL, WHEN A-LOK GASKETS ARE NOT PROVIDED FOR THE PIPE PENETRATION TO THE MANHOLE.
- THE MANHOLE FRAME SHALL BE SEATED ON AN APPROVED BUTYL-RUBBER SEALANT TO PROVIDE A WATER-TIGHT SEAL BETWEEN THE MANHOLE ADJUSTMENT RING AND THE MANHOLE FRAME.
- GASKETED PIPE PLUGS AND CAPS SHALL BE PROVIDED BY THE PIPE SUPPLIER.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE FOR MANHOLE BASES SHALL BE CLASS I AS DESCRIBED IN THE SPECIFICATIONS.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE. CAST IN PLACE BASES SHALL BE 8" THICK (MIN.) WITH #4 BARS @ 12" CENTERS.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
- INSIDE DIAMETER OF FIVE-FOOT DIAMETER PRECAST MANHOLES SHALL REMAIN CONSTANT TO THE LOCATION OF THE REDUCING FLAT TOP WHICH CONNECTS THE FOUR-FOOT DIAMETER CONE SECTION TO THE FIVE FOOT DIAMETER MANHOLE BARREL.
- ALL INTERIOR CONCRETE SURFACES ABOVE THE BENCH OF PRECAST MANHOLES SHALL BE COATED PER THE STANDARD SPECIFICATIONS.
- EXTERIOR MANHOLE WALLS SHALL BE COATED PER THE STANDARD SPECIFICATIONS.
- MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. MANHOLES WITH PRECAST BASES SHALL HAVE A-LOK OR APPROVED EQUAL GASKETS CAST INTO THE MANHOLE WALL FOR ALL PIPE PENETRATIONS. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL. CRUSHED ROCK SHALL MEET THE REQUIREMENTS FOR GRANULAR BEDDING MATERIAL.
- MANHOLE SECTIONS SHALL BE SUPPLIED WITH RECESSED LIFTING EYES. LIFTING EYE RECESSES SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.



**SANITARY SEWER IMPROVEMENTS
 COWSKIN FORCE MAIN
 AND LIFT STATION 60
 IMPROVEMENTS**
 PAUL GUNZELMAN, P.E. - INTERIM CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-2022-040654

Issue:	
JOB NO.	35-210602-001-042
DATE	DECEMBER 2023
PM	TBK
DESIGNED BY	KJW
DRAWN BY	CSL
CHECKED BY	RWG

PRECAST SANITARY SEWER MANHOLE

CU505