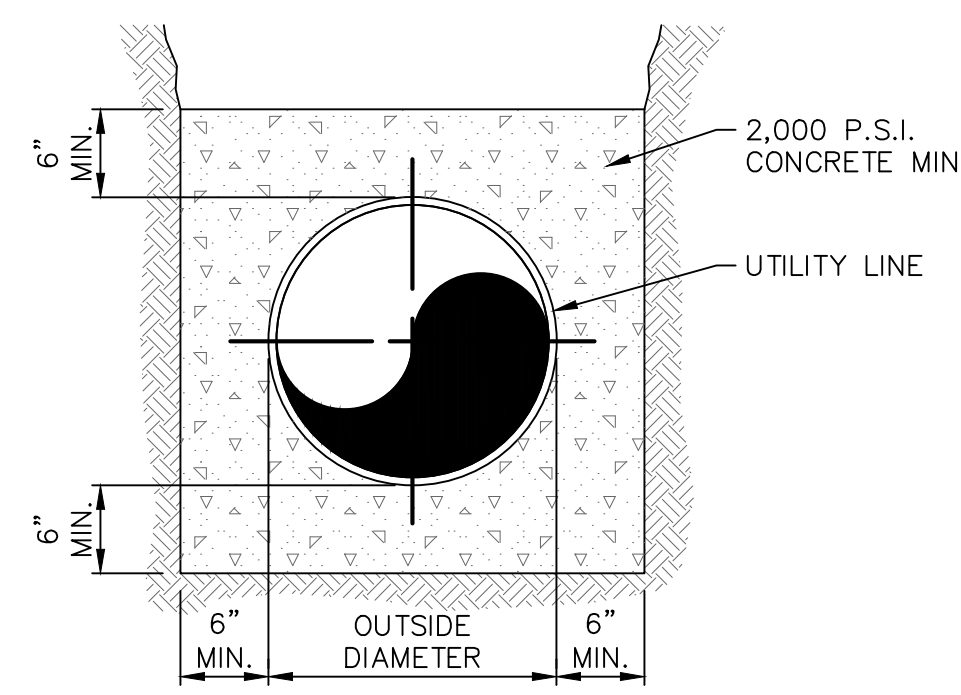
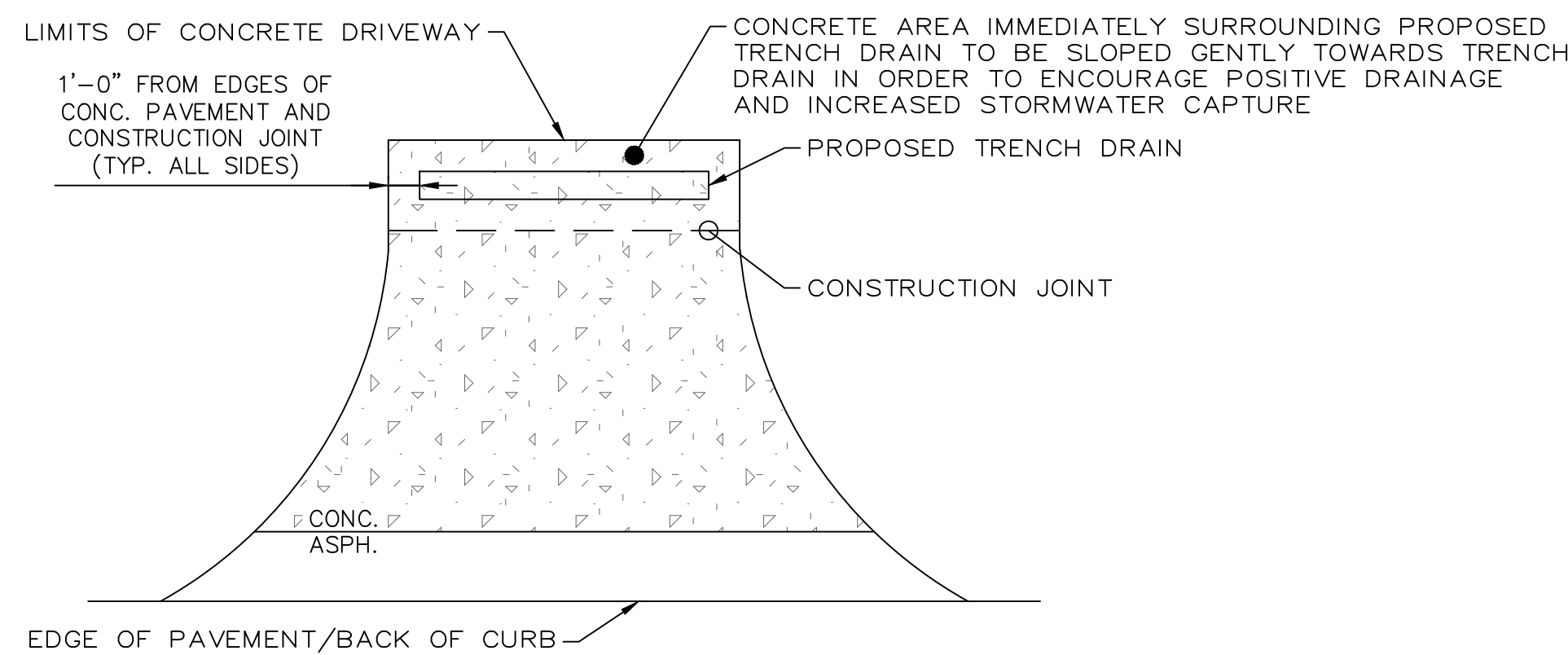


- NOTES:**
- BED AND BACKFILL NEW DRAIN PIPE AND CONNECTION AND RESTORE SURFACE PER TRENCH BACKFILL DETAIL.
 - CONNECTION WORK TO BE CONTAINED WITHIN EX PUBLIC R/W.
 - OWNER/ENGINEER WILL INSPECT DRAIN PIPE ENCOUNTERED AND EXPOSED BY THE CONTRACTOR. CONTRACTOR WILL CONNECT DRAIN LINES APPROVED TO BE CONNECTED BY OWNER/ENGINEER.
- DRAIN PIPE CONNECTION DETAIL**
NOT TO SCALE

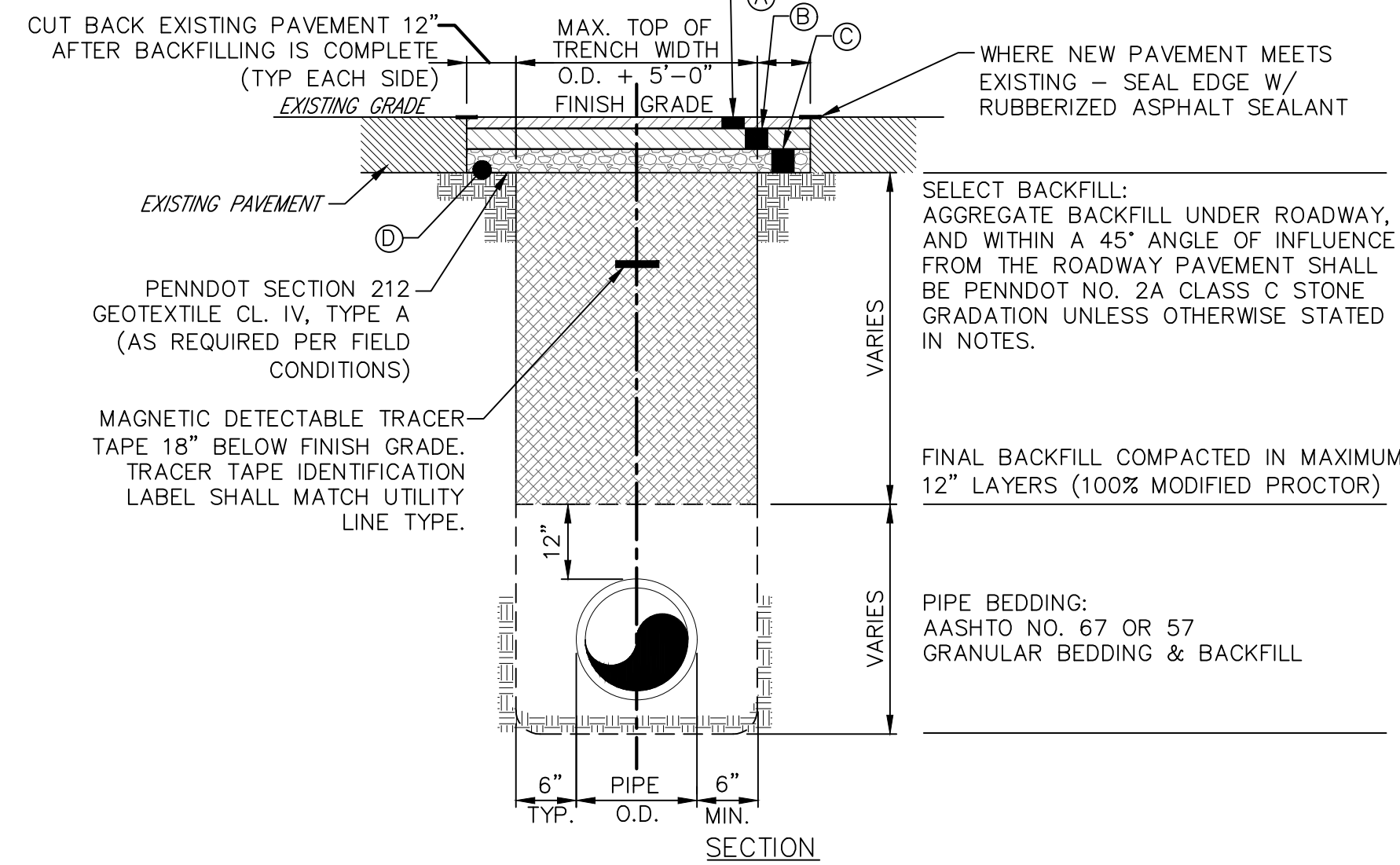


TYPICAL PIPE ENCASEMENT
NOT TO SCALE



- NOTES:**
- TRENCH DRAIN SHALL BE 4" WIDTH NDS DURA SLOPE WITH A DEPTH OF 6", OR APPROVED SUBSTITUTE. TRENCH DRAIN SHALL BE INSTALLED WITH A HEEL-SAFE, ADA-COMPLIANT METAL GRATE
 - TRENCH DRAIN TO BE CONNECTED TO NEAREST CATCH BASIN WITH 4" DIA. HDPE PIPE AT A 1% MIN. SLOPE

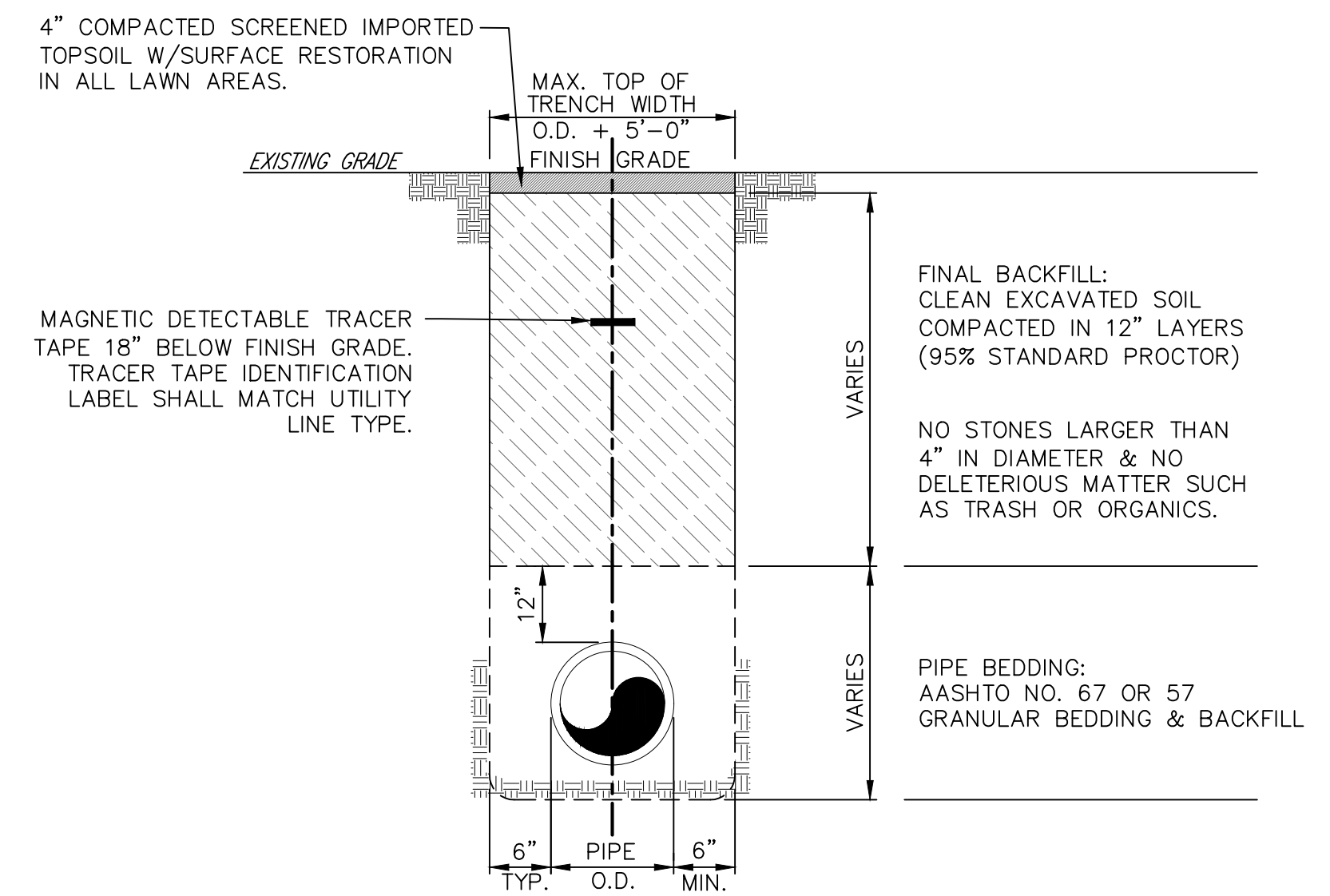
TRENCH DRAIN PLACEMENT AND INSTALLATION DETAIL
NOT TO SCALE



- APPROVED BEDDING & BACKFILL:**
- SLAG NOT PERMITTED AS BEDDING OR BACKFILL IN ANY TRENCH.
 - 6" MIN SIDE BEDDING.
 - COMPACTED BACKFILL LAYERS SHALL CONFORM TO PENNDOT PUB 408. A MAXIMUM LIFT OF 8" IF VIBRATORY COMPACTED AND 4" MAXIMUM LIFT IF BY HAND OR MECHANICAL TAMPER.

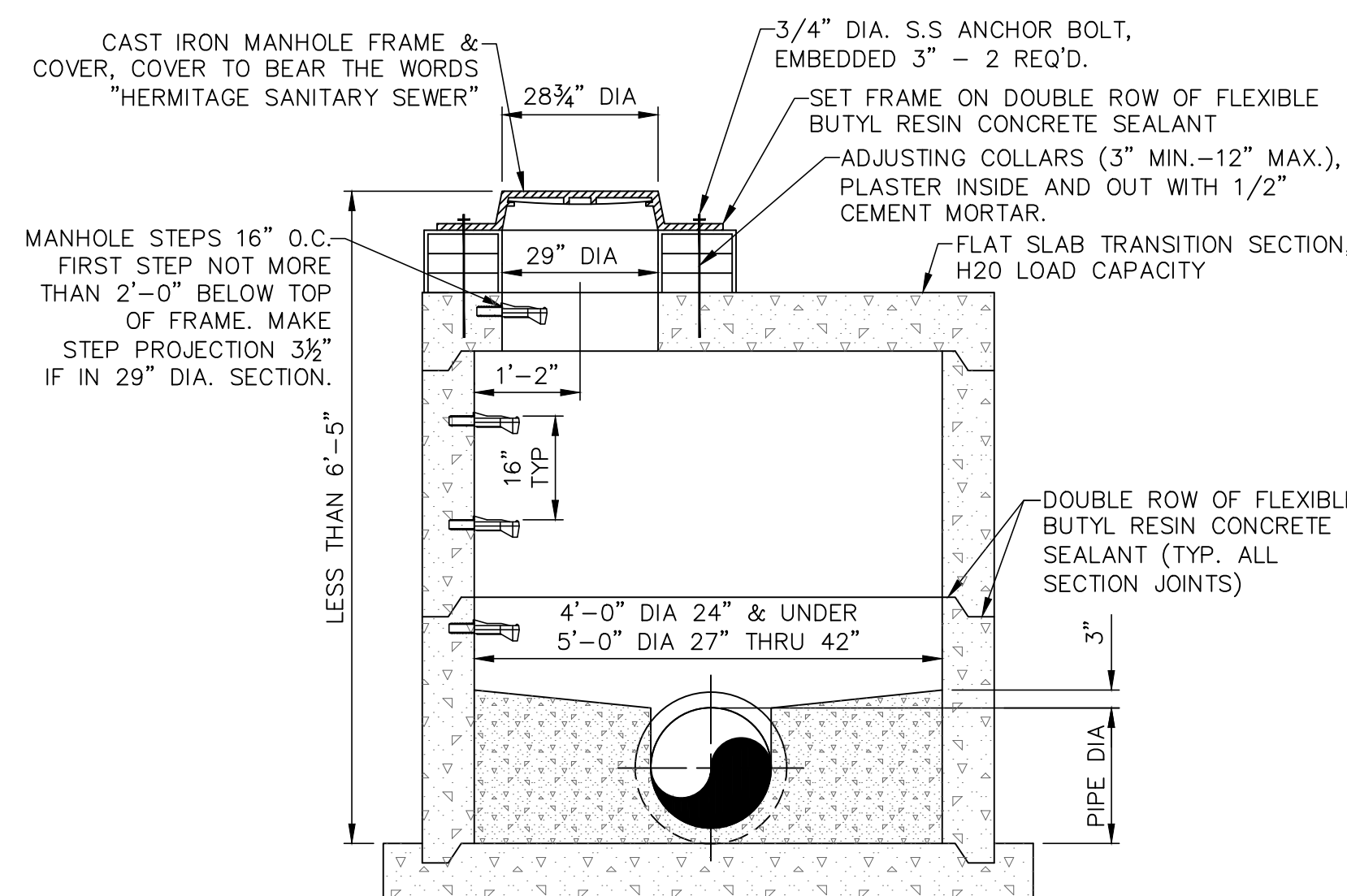
- SPECIFICATION NOTES:**
- SUPERPAVE ASPHALT MIX DESIGN:
HMA WEARING COURSE PG64-22, 0.3 TO 3.0 MILLION SEALS, 1 1/2" DEPTH, 9.5MM MIX, SRL-L
HMA BINDER COURSE PG64-22, 0.3 TO 3.0 MILLION SEALS, 4" DEPTH, 19MM MIX
- 1 1/2" MINOR AND/OR 2" MAJOR - PENNDOT SECTION 409 9.5MM SUPERPAVE HMA WEARING COURSE
 - 2 1/2" MINOR AND/OR 4" MAJOR - PENNDOT SECTION 409 19MM SUPERPAVE HMA BINDER COURSE
 - 12" MINOR AND/OR 12" MAJOR - PENNDOT SECTION 350, No. 2A SUBBASE MATERIAL COMPACTED 100% STANDARD PROCTOR
 - SUBGRADE SHALL BE COMPACTED AND PREPARED ACCORDING TO PENNDOT SECTION 206 & 210
 - IF EXISTING PAVEMENT THICKNESS IS GREATER THAN PROPOSED SECTION, CONTRACTOR SHALL MATCH EXISTING PAVEMENT THICKNESS & PROFILE

TRENCH BACKFILL DETAIL PAVED AREAS
NOT TO SCALE



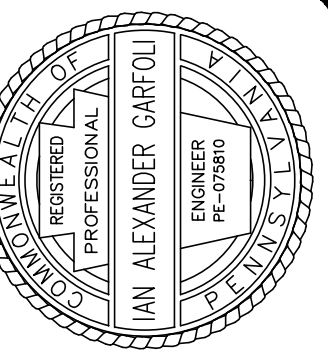
- APPROVED BEDDING & BACKFILL:**
- SLAG NOT PERMITTED AS BEDDING OR BACKFILL IN ANY TRENCH.
6" MIN SIDE BEDDING.
COMPACTED BACKFILL LAYERS SHALL CONFORM TO PENNDOT PUB 408. A MAXIMUM LIFT OF 8" IF VIBRATORY COMPACTED AND 4" MAXIMUM LIFT IF BY HAND OR MECHANICAL TAMPER.
SELECT BACKFILL TO BE USED WITHIN A 45° OF INFLUENCE FROM THE ROADWAY PAVEMENT.

TRENCH BACKFILL DETAIL UNPAVED AREAS
NOT TO SCALE



STANDARD SHALLOW PRECAST SANITARY SEWER MANHOLE DETAIL
NOT TO SCALE

- SANITARY SEWER NOTES:**
- EXCEPT AS NOTED ALL MANHOLE FRAMES AND COVERS SHALL BE EAST JORDAN IRON WORKS FRAME PATTERN AND COVER PATTERN No. 1890Z1 OR NEENAH FOUNDRY FRAME AND COVER PATTERN No. R-1753-A. WATERTIGHT MANHOLES DESIGNATED AS "WT" ON THE DRAWINGS SHALL BE EAST JORDAN IRON WORKS No. 1893 DOUBLE COVER FROST PROOF ASSEMBLY OR NEENAH PATTERN NO. R-1755-F2.
 - THE LATEST REVISIONS OF A.S.T.M. DESIGNATION C-478; ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED AND FURNISHED AS SOLID SECTION WITHOUT LIFT HOLES OF ANY KIND.
 - MANHOLE CONCRETE WATERPROOFING - ALL MANHOLES SHALL BE PRECAST WITH A CRYSTALLINE CONCRETE WATERPROOFING/PROTECTION ADMIXTURE CONFORMING TO ASTM C-266, ASTM C-856, ASTM C-39 BS 1881, AND ASTM C-666. (I.E. XYPEX)
 - INTERIOR - THOROSEAL INSIDE OF SANITARY MANHOLES ONLY, FULL DEPTH. (ANY COLOR BUT GRAY). ALL JOINTS AND CONNECTIONS TO BE WATER PLUGGED.
EXTERIOR - 16 MIL. COAL TAR EPOXY EXTERIOR COATING.
 - EXTERIOR JOINT - ALL EXTERIOR MANHOLE JOINTS SHALL BE SEALED WITH 24" WIDE POLYOLEFIN BACKED WATERTIGHT WRAP ON PROPERLY PRIMED CONCRETE STRUCTURE JOINTS CONFORMING TO ASTM F-1249, ASTM E-154, AND ASTM D-1709. (I.E. CONSEAL)
 - ABANDONED MANHOLE FRAME TOPS SHALL BE ADJUSTED TO MATCH SURROUNDING FINISH GRADE UNLESS OTHERWISE SPECIFIED.
 - ABANDONED MANHOLES - FILL TROUGH & BASE WITH CONCRETE TO 4" ABOVE CROWN OF PIPES. REMOVE CONE SECTION, FRAME AND COVER. BACKFILL WITH PENNDOT No 2A TYPE A OR C STONE COMPACT TO 100% MAX. DENSITY. RESTORE SURFACE OF ROAD OR LAWN CONDITION AS APPROPRIATE FOR LOCATION.
 - WHERE MANHOLE DEPTH IS LESS THAN OR EQUAL TO 15'-0", MANHOLE DIAMETER SHALL BE 48". WHERE MANHOLE DEPTH EXCEEDS 15'-0", MANHOLE DIAMETER SHALL BE 60" AND APPROVED BY AUTHORITY.



ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
	1/20/2020	AS SHOWN	JES	JES/SAS	IAG

NO.	REVISION	DATE

CITY OF HERMITAGE
2020 NEIGHBORHOOD INVESTMENT PROGRAM
MERCER COUNTY HERMITAGE, PENNSYLVANIA

CONSTRUCTION DETAILS

PROJECT NO.	180302
DISCIPLINE	CIVIL
SHEET NAME	CD-2
SHEET	21
OF	23