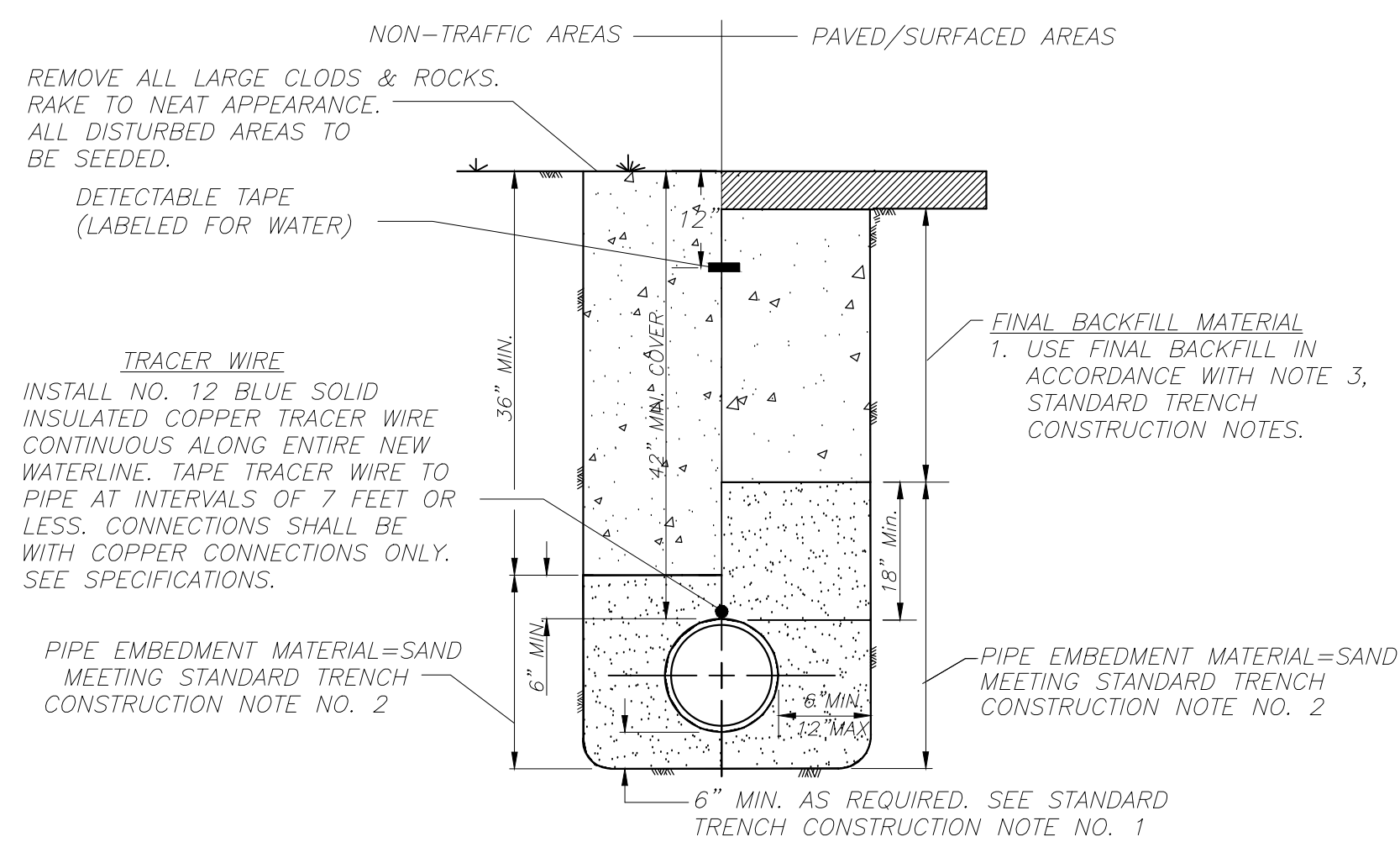
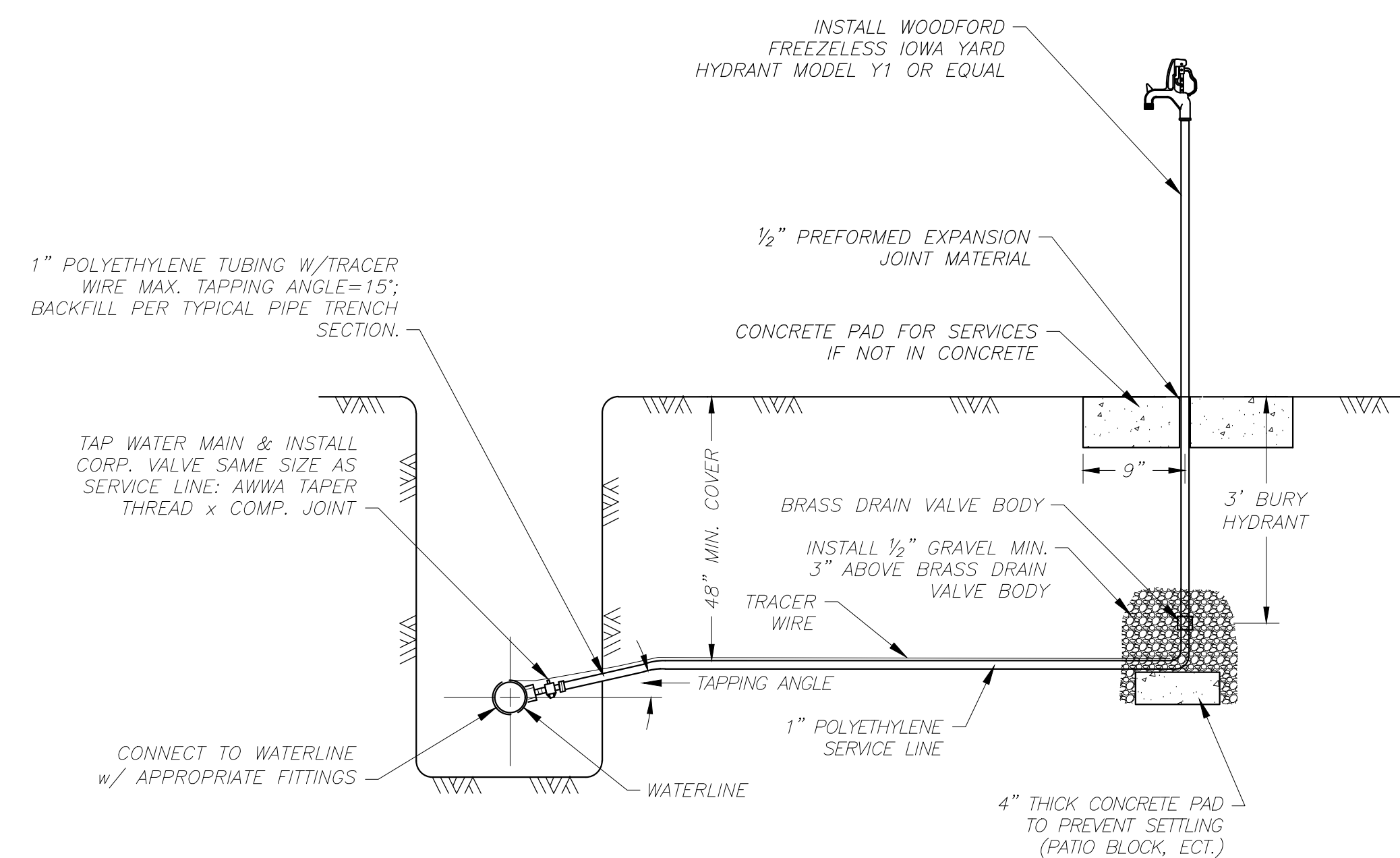
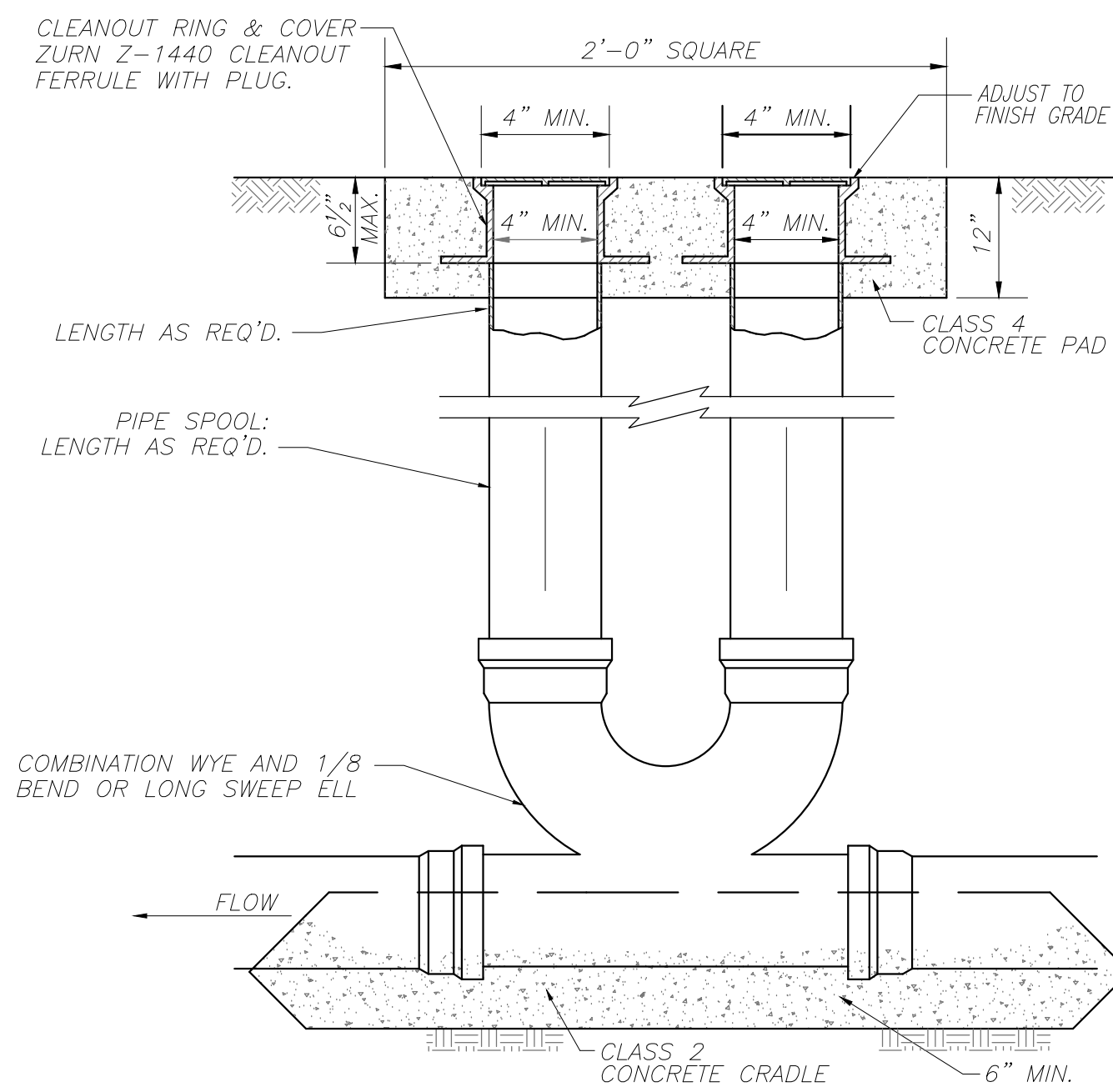
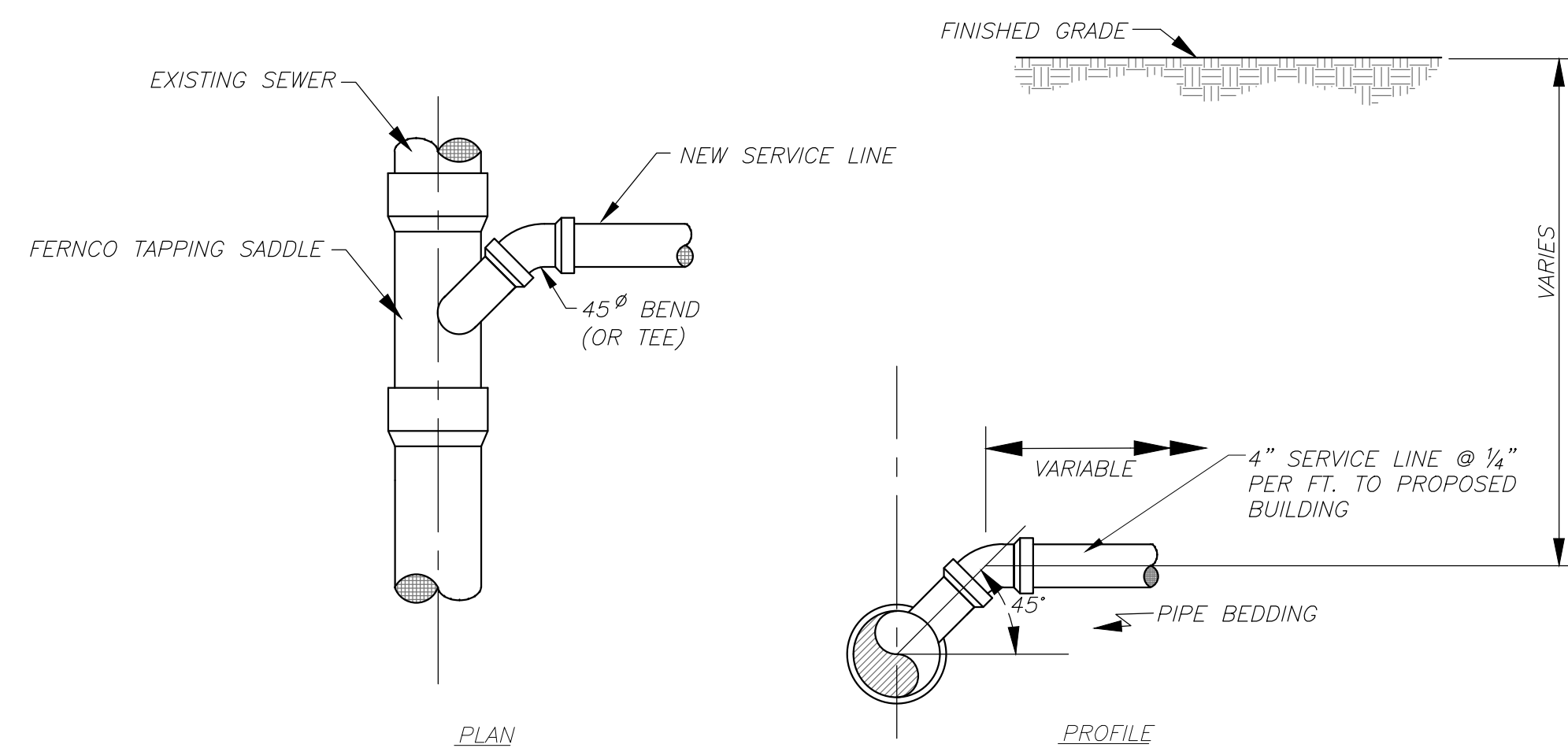
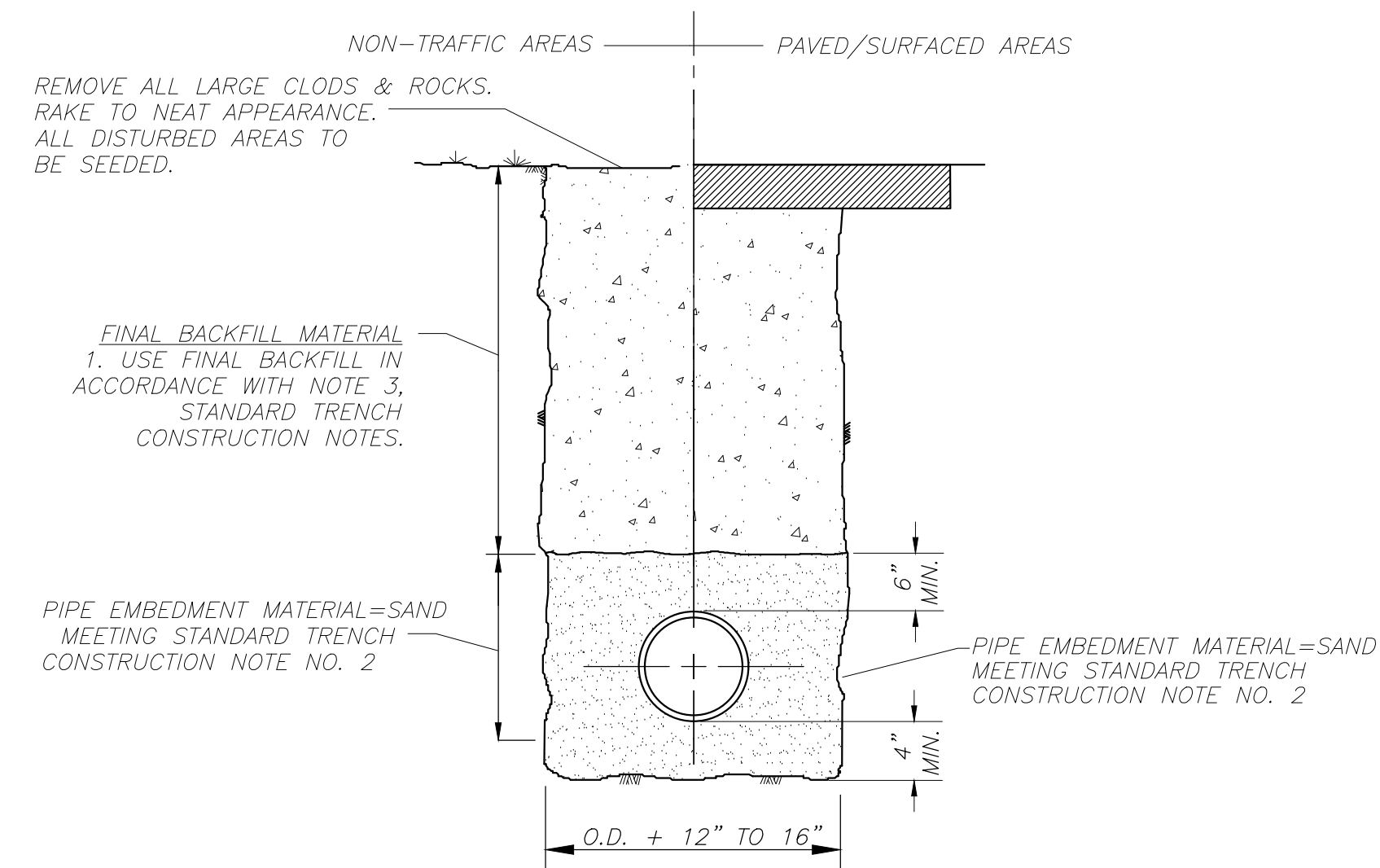




- STANDARD TRENCH CONSTRUCTION NOTES
1. PREPARATION OF TRENCH BOTTOM – THE TRENCH BOTTOM SHALL BE CONSTRUCTED TO PROVIDE A FIRM, STABLE, AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE. BELL HOLES SHALL BE PROVIDED AT EACH JOINT TO PERMIT PROPER JOINT ASSEMBLY AND PIPE SUPPORT. ANY PART OF THE TRENCH BOTTOM EXCAVATED BELOW GRADE SHALL BE BACKFILL TO GRADE AND COMPACTED TO PROVIDE FIRM PIPE SUPPORT. WHERE AN UNSTABLE SUBGRADE CONDITION IS ENCOUNTERED WHICH WOULD PROVIDE INADEQUATE PIPE SUPPORT, ADDITIONAL TRENCH DEPTH SHALL BE EXCAVATED AND REFILLED WITH SUITABLE COMPACTED MATERIAL. LEDGE ROCK, BOULDERS, AND LARGE STONES SHALL BE REMOVED TO PROVIDE 6 INCHES OF SOIL CUSHION ON ALL SIDES OF THE PIPE AND ACCESSORIES.
 2. PIPE EMBEDMENT – PIPE EMBEDMENT MATERIAL SHALL BE SAND, FREE OF DEBRIS, ROOTS, VEGETATION, CLODS, AND FROZEN MATERIAL, AND ROCKS OR STONES LARGER THAN ONE INCH IN GREATEST DIMENSION. PIPE EMBEDMENT MATERIAL SHALL BE COMPACTED AND WORKED UNDER THE SIDES OF THE PIPE TO PROVIDE SATISFACTORY HAUNCHING SUPPORT. CONTRACTOR TO PROVIDE SAND SAMPLE TO CITY ENGINEER PRIOR TO START OF CONSTRUCTION FOR APPROVAL.
 3. FINAL BACKFILL – THE BALANCE OF BACKFILL ABOVE PIPE EMBEDMENT SHALL BE FREE OF DEBRIS, ROOTS, VEGETATION, CLODS, AND FROZEN MATERIAL, AND ROCKS OR STONES LARGER THAN 1-1/2 INCHES IN GREATEST DIMENSION. FINAL BACKFILL MATERIAL SHALL BE COMPACTED.
 4. COMPACTION – COMPACTION OF EMBEDMENT AND BACKFILL MATERIALS SHALL BE DONE TO SUCH EXTENT THAT NO FURTHER SETTLING OCCURS. COMPACTION MAY BE BY MECHANICAL METHODS: MATERIAL LIFTS (BEFORE COMPACTION) SHALL NOT EXCEED 6 INCHES.
 5. EXCESS MATERIAL – CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING OFF AND DISPOSING OF EXCESS SOIL AND DEBRIS.

[illegible]

COMPUTER DRAWING

DATE: AUGUST 2020	
DRAWN BY:	CHECKED BY:

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SHEET

C1.8

UTILITY DETAILS

OF SHEETS