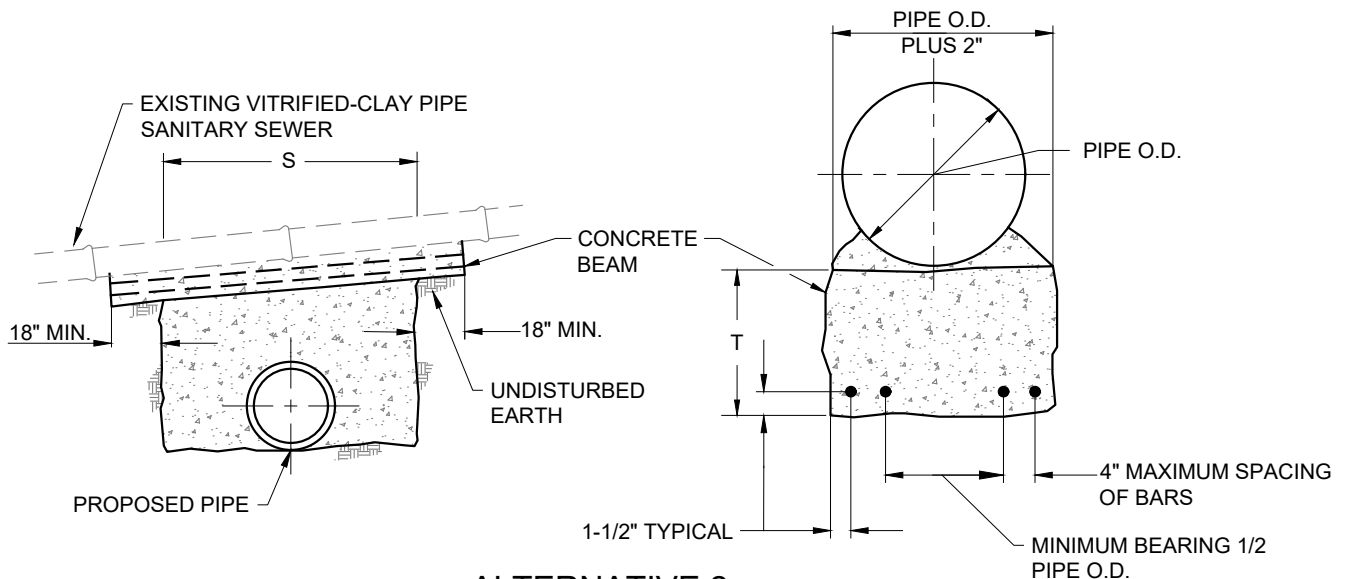


ALTERNATIVE 1
CONCRETE SUPPORT WALL



ALTERNATIVE 2
CONCRETE BEAM

NOTES:

1. SUPPORT WALL SHALL HAVE A FIRM BEARING ON THE SUBGRADE AND AGAINST THE SIDES OF THE EXCAVATION.
2. WALL SHALL BE AT LEAST 2" FREE AND CLEAR OF ANY UTILITY SUBSTRUCTURE.
3. WHEN DIRECTED BY LBUD, THE CONTRACTOR SHALL PROVIDE SUITABLE OPENING IN THE WALL TO PREVENT UNEQUAL PRESSURE RESULTING FROM FLOODING THE BACKFILL. THE VOLUME OF THE PIERCED OPENING SHALL NOT EXCEED 1/3 THE VOLUME OF THE SUPPORTING WALL.
4. A 1 PART SAND / 2 PART CEMENT MIX GROUT SHALL BE PLACED BETWEEN THE TOP OF THE BEAM AND BOTTOM OF THE PIPE FOR BEARING.

| DIMENSIONS OF REINFORCED CONCRETE BEAM | | | | |
|--|------------------|-----------|--------------------------|-----------|
| DEPTH OF COVER | | | | |
| S (FEET) | 0 FEET TO 8 FEET | | 8 FOOT-1 INCH TO 16 FEET | |
| | T (INCHES) | BAR NO | T (INCHES) | BAR NO |
| 4 | 8 | 4 | 8 | 4 |
| 5 | 8 | 4 | 9 | 5 |

SEWER MAIN SUPPORT

WDS - 510



APPROVED

Robert J. [Signature]
DIRECTOR OF ENGINEERING / CHIEF ENGINEER

DATE: 02-2020

SCALE: N.T.S.

SHEET 1 OF 1