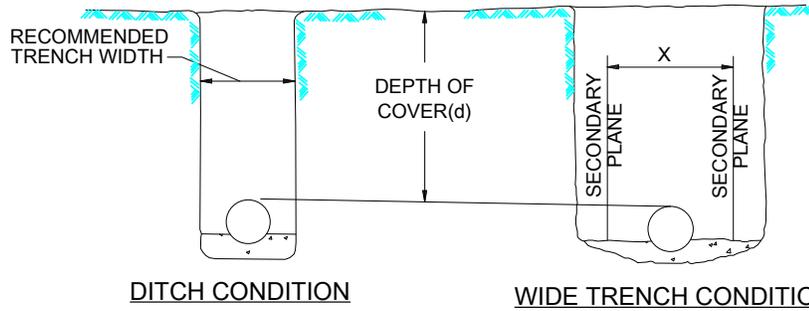


CONSTRUCTION CONDITION CLASSIFICATIONS



LOAD FACT	CLASSIFICATION OF BEDDING		
	CLASS	BEDDING MATERIAL	WMWD STD.
3.4	AA	REINF'D CONCRETE ARCH	W-1020
2.8	A	CONCRETE ARCH	W-1020
2.2	BB	CRUSHED ROCK ENVELOPE	W-1030
1.9	B	CRUSHED ROCK BED	W-1030
1.5	C	CRUSHED ROCK PAD	W-1030
1.1	D	SELECT NATIVE MATERIAL	W-1030

REC. TRENCH WIDTH	SEWER PIPE I.D.	MAX. DEPTH OF COVER (d) IN FEET											
		DITCH CONDITION					WIDE TRENCH CONDITION						
		A	BB	B	C	D	AA	A	BB	B	C	D	X
2'-6"	8"	50'	47'	27'	14'	11'	30'	28'	22'	19'	14'	10'	3'6"
2'-6"	10"	50'	47'	36'	17'	12'	30'	25'	20'	17'	16'	10'	4'0"
2'-9"	12"	50'	44'	27'	15'	9'	20'	23'	18'	15'	12'	9'	4'6"
3'-0"	15"	50'	38'	23'	14'	9'	25'	21'	16'	14'	11'	8'	5'5"
3'-6"	18"	50'	26'	18'	13'	8'	24'	19'	15'	13'	10'	7'	6'0"
3'-6"	21"	50'	38'	26'	16'	10'	24'	19'	15'	13'	10'	7'	6'5"
4'-0"	24"	50'	31'	22'	15'	10'	24'	18'	15'	13'	10'	7'	7'0"
4'-3"	27"	46'	29'	21'	14'	9'	22'	18'	15'	13'	10'	7'	7'5"

NOTES:

NO LESS THAN THE LOWEST CLASS BEDDING FOR THE CONDITIONS SHALL BE USED.

- THE NEXT HIGHER BEDDING CLASS SHALL BE REQUIRED WHERE DEPTH OF COVER EXCEEDS THAT GIVEN IN TABLE ABOVE.
- CLASS "A" OR CLASS "AA" AS SPECIFIED BY THE DISTRICT WHEREVER DEPTH OF COVER IS LESS THAN 4'
- CONSOLIDATED BACKFILL BEDDING BY FLOODING NOT PERMITTED WITHOUT PRIOR APPROVAL BY W.M.W.D.
- DEPTHS OF COVER GREATER THAN 50' REQUIRE A SOIL INVESTIGATION AND ANALYSIS BY THE ENGINEER.

NOTE:

- BASED ON 1.25 FACTOR OF SAFETY (REFER NCDPI MANUAL SOIL WT. = 130 LB/FT³) DEPTHS OVER 30' MAY BE CALCULATED FROM MARSTON'S FORMULA (REFER NCPI MANUAL)
- X DENOTES DISTANCE AT WHICH ADDITIONAL TRENCH WIDTH DOES NOT ADD TO THE WEIGHT ON THE PIPE.

APPROVED DATE: January 1, 2011


DIRECTOR OF ENGINEERING

STANDARD DRAWING
TYPICAL PIPE BEDDING
VITRIFIED CLAY PIPE
EXTRA STRENGTH

STD. DWG.
NO.

W-1010