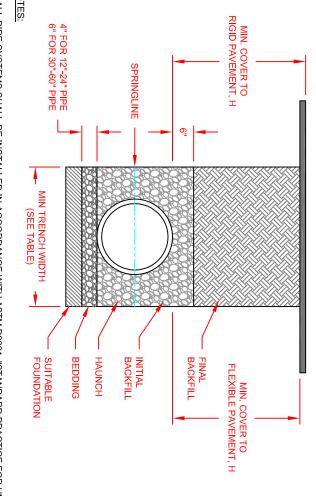
SANITITE® HP TRENCH INSTALLATION DETAIL



- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDER-GROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST
- 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED
- ω FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH A GEOTEXTILE MATERIAL ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN
- 4 BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE (750mm-900mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" DIAMETER PIPE (300mm-600mm); 6" (150mm) FOR 30"-60" WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM
- Ò ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO
- 6 MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS 1 OR 2 MATERIAL COMPACTED TO 90% SPD IS REQUIRED. MINIMUM COVER, H, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE,

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

80" (2030mm)	48" (1200mm)
64" (1620mm)	36" (900mm)
56" (1420mm)	30" (750mm)
48" (1200mm)	24" (600mm)
39" (990mm)	18" (450mm)
34" (860mm)	15" (375mm)
30" (750mm)	12" (300mm)
MIN TRENCH WIDTH	PIPE DIAM.

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

60"	24"	60"
(1500mm)	(600mm)	(1500mm)
48"	12"	12" - 48"
(1200mm)	(300mm)	(300mm - 1200mm)
HEAVY CONSTRUCTION (75T AXLE LOAD) *	H-25	PIPE DIAM.
SURFACE LIVE LOADING CONDITION	SURFACE LIV	

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS N-12 HP PIPE, ft

		CLASS I	CLASS II	SSII	
	PIPE DIAM.	COMPACTED	95%	90%	
	12" (300mm)	40 (12.2m)	28 (8.5m)	21 (6.4m)	
	15" (375mm)	42 (12.8m)	29 (8.8m)	22 (6.7m)	
	18" (450mm)	37 (11.3m)	26 (7.9m)	19 (5.8m)	
	24" (600mm)	32 (9.8m)	23 (7.0m)	17 (5.2m)	
	30" (750mm)	32 (9.8m)	23 (7.0m)	17 (5.2m)	
	36" (900mm)	29 (8.8m)	21 (6.4m)	15 (4 6m)	
	48" (1200mm)	24 (7.3m)	18 (5.5m)	14 (4 3m)	
	60" (1500mm)	30 (9.1m)	22 (6.7m)	16 (4.9m)	
1			1000	O SECTION 45	-

RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE NO HYDROSTATIC PRESSURE FOLLOWING ASSUMPTIONS: FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD

UNIT WEIGHT OF SOIL (γ_s) = 120 PCF

TYPICAL SANITARY TRENCH REV. DESCRIPTION DETAIL ВΥ MM/DD/YY

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		HIO 43026		
SHEET .	NTS	OCD BY	01/29/09	JAD

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DRAWING NUMBER:

STD-110

SANITITE HP