



MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS\*\*

PIPE DIAM.	SURFACE LIVE LOADING CONDITION		
	DUAL WHEEL	DUAL TANDEM	B-747 *
12" - 48" (300mm - 1200mm)	24" (610mm)	24" (610mm)	36" (914mm)
48"-60" (1200MM - 1500mm)	36" (914mm)	36" (914mm)	48" (1219mm)

\* B-747 IS A DOUBLE DUAL TANDEM AXLE CONFIGURATION

\*\* AIRCRAFTS OVER 90,000 POUNDS MAY REQUIRE ADDITIONAL COVER

TYPICAL AIRCRAFTS	
DUAL WHEEL	DUAL TANDEM
GULFSTREAM G650	AIRBUS A330
AIRBUS A321	AIRBUS A350
BOEING 727	BOEING 767
BOEING 737	BOEING 787

REFERENCE STD-806 FOR AXLE CONFIGURATIONS

**NOTES:**

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE ASTM D2321 CLASS I OR II UNLESS STATED OTHERWISE BY THE DESIGN ENGINEER. MINIMUM COMPACTION SHALL BE:  
  
CLASS 1, COMPACT IN PLACE, 8" LOOSE LIFTS WITH JUMPING JACK OR SMALL VIBRATORY COMPACTOR  
CLASS 2, COMPACT IN PLACE, 8" LOOSE LIFTS TO MIN. 95% STANDARD PROCTOR DENSITY
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION.

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

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1	REV. DRAWING NAME OR NUMBER	TJR	01/28/16	
REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

**TRENCH INSTALLATION  
DETAIL (AIRCRAFT)**

DRAWING NUMBER: STD-101H



4640 TRUEMAN BLVD  
HILLIARD, OHIO 43026

ADVANCED DRAINAGE SYSTEMS, INC.

DRAWN BY	ECM
DATE	9/2/15
CDS BY	
SCALE	NTS
SHEET	1 OF 1