



MINIMUM RECOMMENDED COVER (H)
FOR TYPICAL AIRCRAFT LOADING

INSIDE DIAMETER (ID)	COVER (H)
4"- 36" (100mm-900mm)	24" (610mm)
42"-60" (1050mm-1500mm)	36" (914mm)

MINIMUM RECOMMENDED TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (750mm)
15" (375mm)	34" (875mm)
18" (450mm)	39" (1000mm)
24" (600mm)	48" (1200mm)
30" (750mm)	56" (1425mm)
36" (900mm)	64" (1625mm)
42" (1050mm)	72" (1825mm)
48" (1200mm)	80" (2025mm)
60" (1500mm)	96" (2450mm)

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 4"-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
- MAX LOAD:** MAXIMUM ALLOWABLE AIRCRAFT LOAD AT MIN. COVER DEPENDS ON THE LANDING GEAR CONFIGURATION AND THE SPECIFIC PAVEMENT SECTION. THE MINIMUM VALUES PROVIDED WITHIN ARE SUITABLE FOR HEAVY AIRCRAFT IN THE US WITH TYPICAL AIRPORT PAVEMENT SECTIONS. FOR ADDITIONAL INFO ON ALLOWABLE AIRCRAFT LOADS, SEE STD-111H OR CONTACT YOUR LOCAL ADS REPRESENTATIVE.

© 2022 ADS, INC.

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

**TRENCH INSTALLATION DETAIL
AIRCRAFT (N-12)**

DRAWING NUMBER: STD-101P



4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DRAWN BY:	GGC
DATE:	01-03-2025
CHK'D BY:	RKC
SCALE:	NTS
SHEET:	1 OF 1