FIGURE 1: EXAMPLE AIRCRAFT W/ SUBGRADE CROSS SECTION

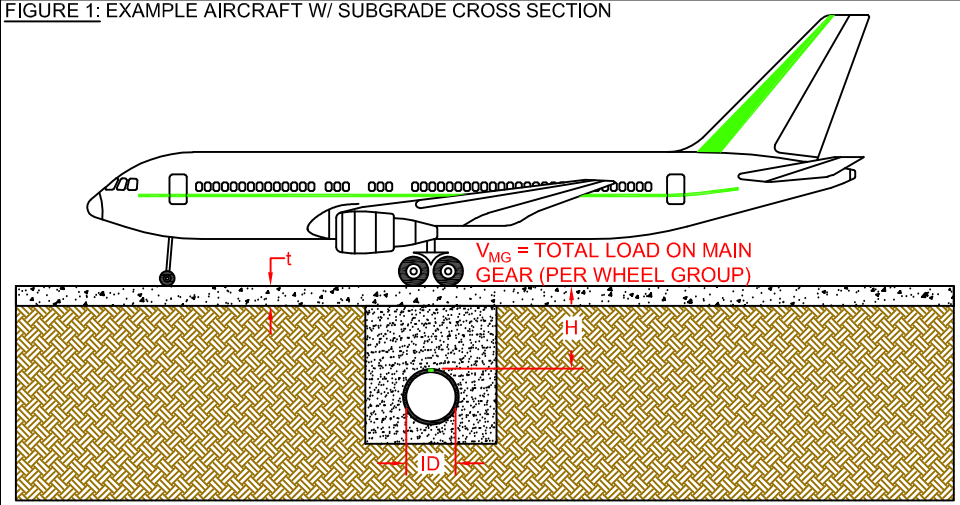

FIGURE 2A:
BOEING 737 LANDING GEAR
(1X2 WHEEL GROUP)

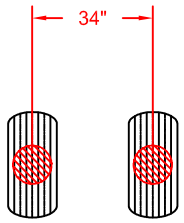

FIGURE 2B:
BOEING 757 LANDING GEAR
(2X2 WHEEL GROUP)

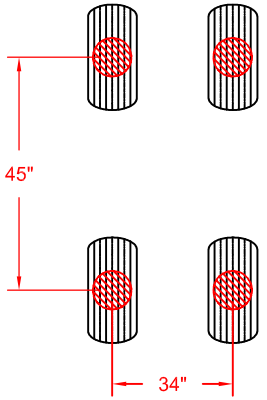

TABLE 1

MIN RECOMMENDED COVER (H) FOR TYPICAL AIRCRAFT LOADING	
INSIDE DIAMETER (ID)	COVER (H)
12"- 36" (300mm-900mm)	24" (610mm)
42"-60" (1050mm-1500mm)	36" (914mm)

NOTES:

1. **THIS DETAIL IS INTENDED TO PRESENT MAX LOADS ABLE TO BE APPLIED TO LANDING GEAR CONFIGURATIONS AT MINIMUM ALLOWABLE COVER. ALTERNATE GEAR CONFIGURATIONS NOT ADDRESSED WITHIN MAY REQUIRE ADDITIONAL COVER. PLEASE CONTACT YOUR LOCAL ADS REPRESENTATIVE FOR GEAR CONFIGURATIONS NOT COVERED BY THE SCENARIOS ON THIS DETAIL.**
2. SUITABLE BACKFILL MATERIAL SHALL BE CLASS I COMPACTED OR CLASS II AT 95% SPD PER ASTM D2321. REFER TO ADS STANDARD DETAIL STD-101H FOR RECOMMENDED INSTALLATION PRACTICES.
3. CALCULATIONS ASSUME A MODULUS OF SUBGRADE REACTION OF 300PSI/IN BELOW THE PAVEMENT LAYER, WITH A MINIMUM COVER REFLECTED IN TABLE 1 & BACKFILL MATERIAL REFLECTED IN NOTE 2.
4. MINIMUM COVER & ASSOCIATED LOAD LIMITS IN THIS DETAIL ARE BASED ON PRODUCT STRUCTURAL CAPACITY PER AASHTO LRFD. THESE RECOMMENDATIONS DO NOT INCLUDE ASSESSMENT OF THE OVERLYING PAVEMENT LAYER.
5. DIFFERENT PAVEMENT TYPES ARE REFERENCED IN TABLES 2A & 2B. RIGID PAVEMENT CAN BE CONSIDERED A PORTLAND CEMENT CONCRETE OR ANY OTHER MATERIAL RESISTANT TO FLEXURE. HMA REFERS TO HOT-MIX ASPHALT, WHICH IS COMMONLY RECOGNIZED AS A FLEXIBLE PAVEMENT.

TABLE 2A

MAX LOAD (V_{MG}) WITH MIN COVER FOR **1X2 WHEEL GROUP** - lb(kg)				
PAVEMENT (t)	12"-36" Nominal ID		42"-60" Nominal ID	
4" RIGID	115,900	(101,814)	169,600	(76,916)
8" RIGID	224,500	(101,814)	277,400	(125,805)
12" RIGID	361,900	(164,127)	420,500	(190,702)
12" FLEXIBLE	255,700	(115,963)	306,400	(138,956)
16" FLEXIBLE	361,100	(163,764)	417,500	(189,342)

TABLE 2B

MAX LOAD (V_{MG}) WITH MIN COVER FOR **2X2 WHEEL GROUP** - lb(kg)				
PAVEMENT (t)	12"-36" Nominal ID		42"-60" Nominal ID	
4" RIGID	168,000	(76,190)	215,200	(97,596)
8" RIGID	268,800	(121,904)	321,100	(145,623)
12" RIGID	404,900	(183,628)	463,200	(210,068)
12" FLEXIBLE	299,500	(135,827)	350,200	(158,820)
16" FLEXIBLE	404,600	(183,492)	460,200	(208,707)

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
4	LENGTHENED TABLE COLUMNS	BSW	06-24-22	SDL

MIN COVER FOR AIRCRAFT LOADS (HP STORM)

DRAWING NUMBER: STD-111G

ADS™ Advanced Drainage Systems, Inc.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

DRAWN BY:	CMF
DATE:	02-19-2016
CK'D BY:	
SCALE:	NTS
SHEET	1 OF 1