

Install 6" Underground Warning Tape - Gas (Identaline or approved equal) for the entire length of the Pipeline Protection Slab crossing. The cost of the warning tape shall be included in the cost of the Pipeline Protection Slab installation.

Trench Backfill where required

"H" Varies

Top of Sound Rock

Protective Cover Board to be placed on top of slab void to prevent puncture or other damage during concrete placement

* Surevoid Products, Inc. Slab void heavy duty strength working load of 1500 psf. End caps required or approved equal.

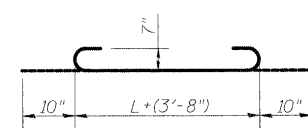
L = Clear Span = Width of Trench

Note A: Use this design for L=7'-0" or less.

For L Greater than 7'-0", Contractor should provide the Engineer for approval, a redesign of the slab, sealed by a licensed Structural Engineer in Illinois.

Minimum Lap for Longitudinal Bars

#7 bars = 4'-2"
#4 bars = 2'-1"



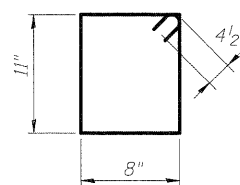
#7 Bars

Note: Tilt hook to provide the specified clearance.

****PROTECTIVE SLAB FOR EXISTING PIPELINES**

Design in accordance with title 49-Part 192 Minimum Federal Safety Standards and ASME Guide for Gas Piping Systems, Latest Edition.

**Will be paid for under the item "Utility Protection Pad"



#4 Stirrups

DESIGN STRESSES

f'c = 3500 psi
fy = 60,000 psi (Reinforcement)

DESIGN LOADING

HS20-44

NOTES:

This slab has been designed for earth fill and a live load of HS20-44, if any construction equipment the Contractor uses is higher than HS20-44 he should provide the Engineer for approval a redesign of slab, sealed by a licensed Structural Engineer in Illinois.

FILE NAME =	USER NAME = TKLuegel	DESIGNED - BKB	REVISED -
D:\B0F12-SHT-UTIL-PROTECTION.dgn		DRAWN - MJL	REVISED -
		CHECKED - MJL	REVISED -
		DATE - 2/4/11	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2B-1	WILL	756	204
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				