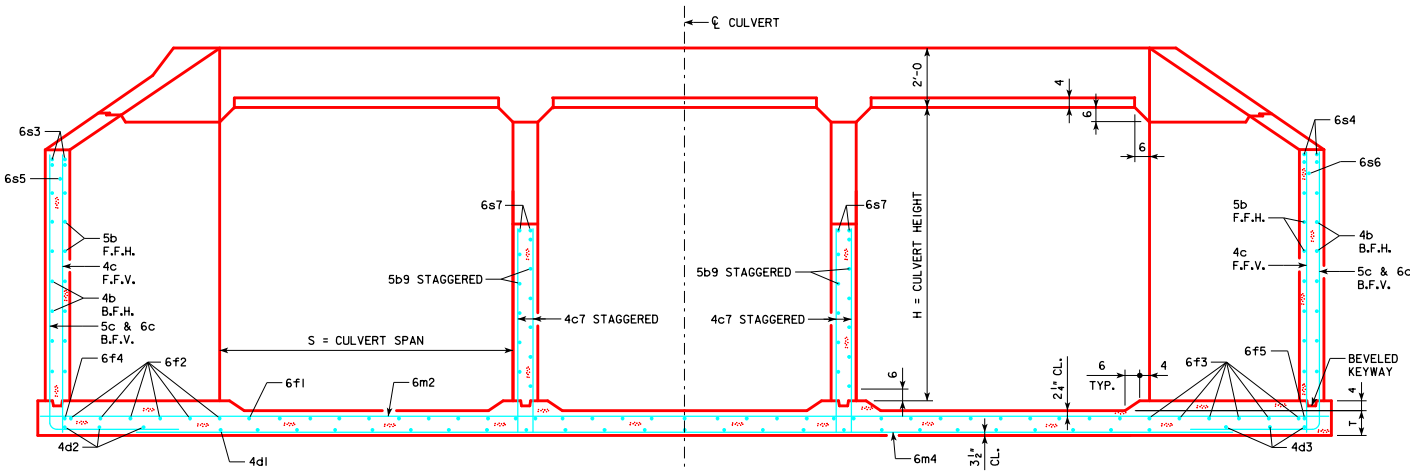
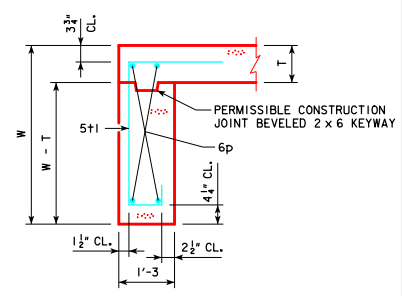


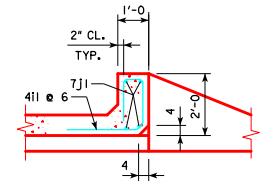
REVISED 12-2016; ADDED CURTAIN WALL CLASS 20 EXCAVATION DETAIL. ENGLISH DESIGN/IR/LECULVERTS.DGN - TRH 45-5-12 - THIS SHEET ISSUED 04-12.



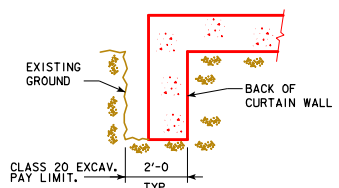
TYPICAL SECTION - NEAR CENTER OF APRON



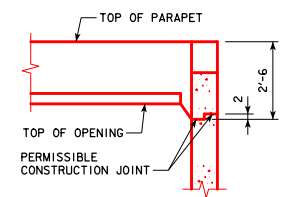
SECTION THRU CURTAIN WALL



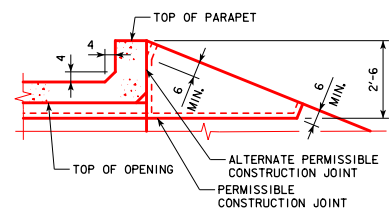
SECTION THRU PARAPET



CURTAIN WALL CLASS 20 EXCAVATION

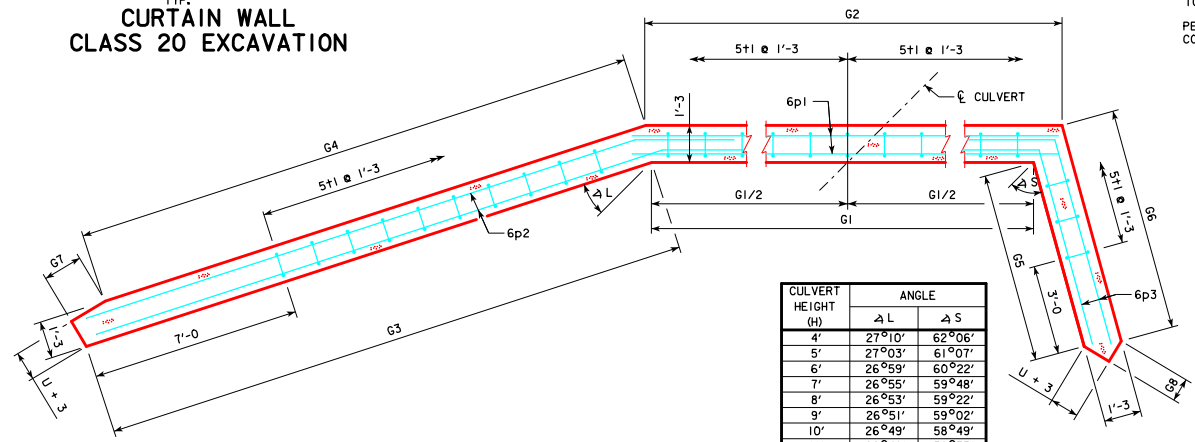


TOP OF WINGWALL DETAILS



NOTES:

- SEE SHEET TRRCB G1-12 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
- FOR DIMENSION TABLE SEE SHEET TRH 45-2-12.



CURTAIN WALL PLAN

CULVERT HEIGHT (H)	ANGLE	
	A L	A S
4'	27°10'	62°06'
5'	27°03'	61°07'
6'	26°59'	60°22'
7'	26°55'	59°48'
8'	26°53'	59°22'
9'	26°51'	59°02'
10'	26°49'	58°49'
11'	26°48'	58°35'
12'	26°47'	58°24'

12-2016
LATEST REVISION DATE

Norman E. McQuill
APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN
TRIPLE REINFORCED CONCRETE BOX CULVERTS
APRIL, 2012

FLARED WING HEADWALLS
45° SKEW

TRH 45-5-12