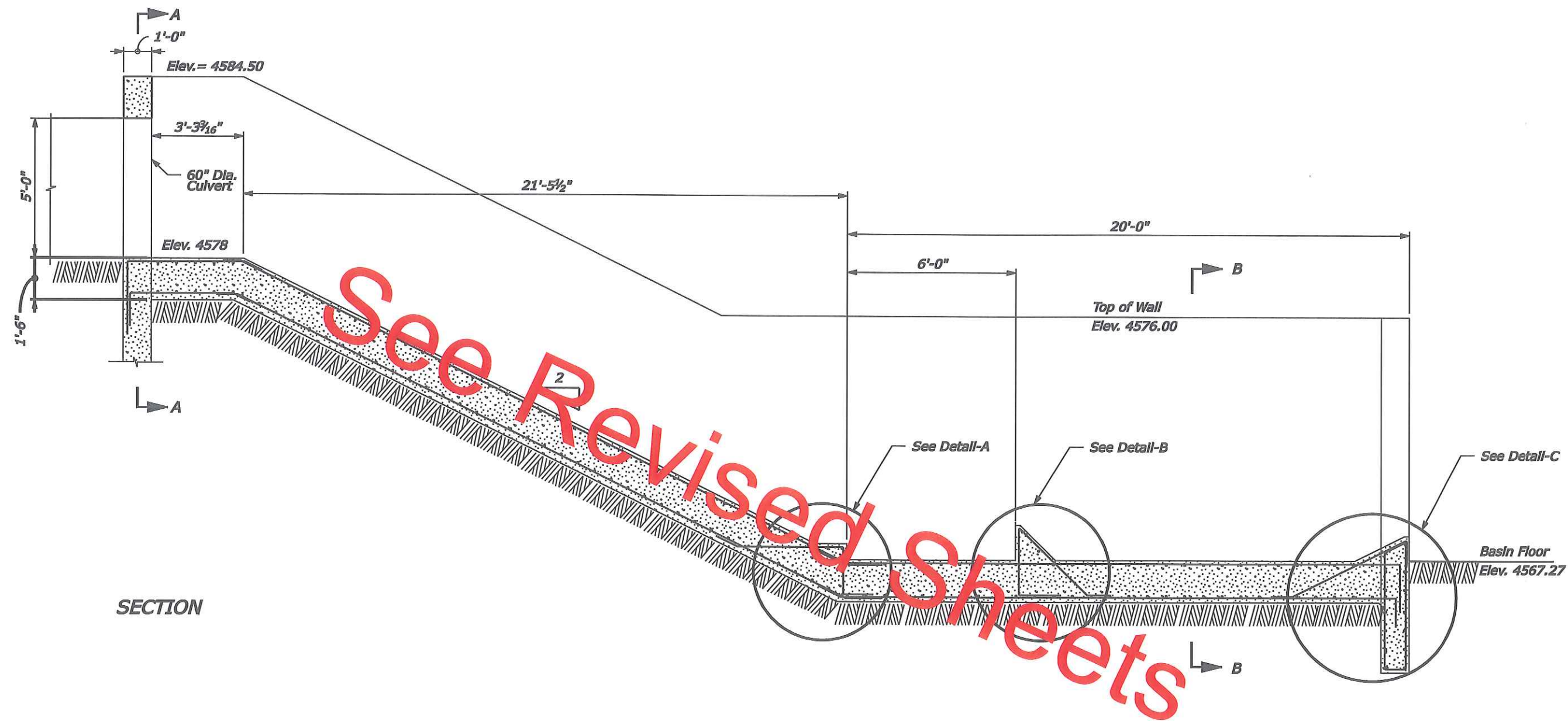


STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	G27	G28



THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION.

[Signature]

SIGNATURE

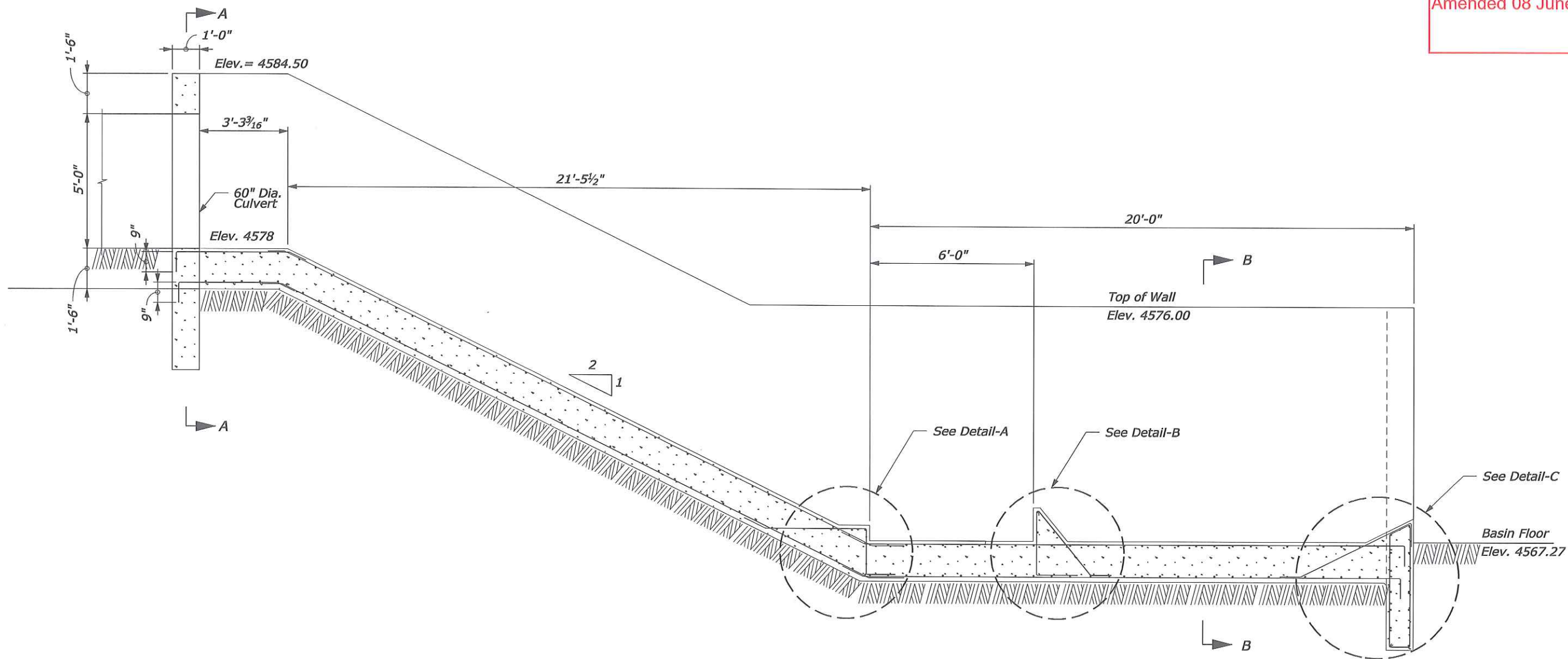
4/30/2012
EXPIRATION DATE
OF THE LICENSE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**ENERGY DISSIPATION
STRUCTURE SECTION
AND DETAILS**

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	G27	G28

Amended 08 June 2012

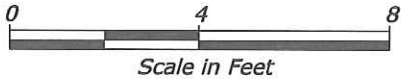


Note:
Bar bends, hooks, and offsets shall be
in accordance with AASHTO LRFD
guidelines.



This work was prepared by me
or under my supervision

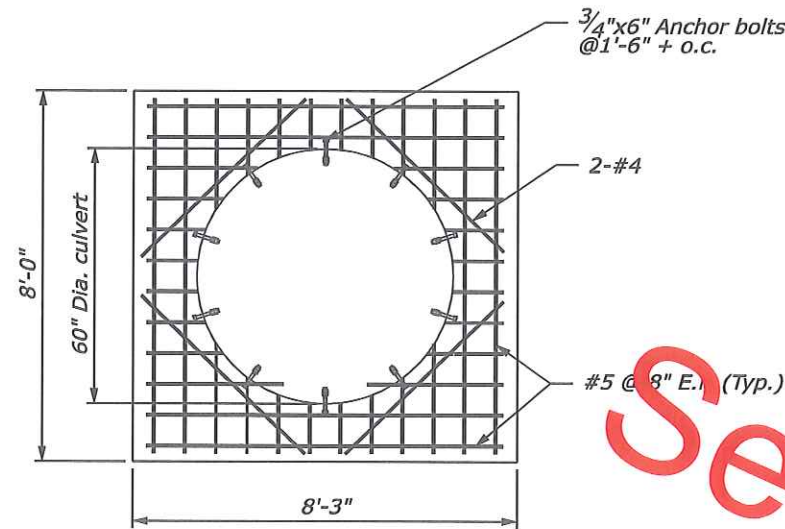
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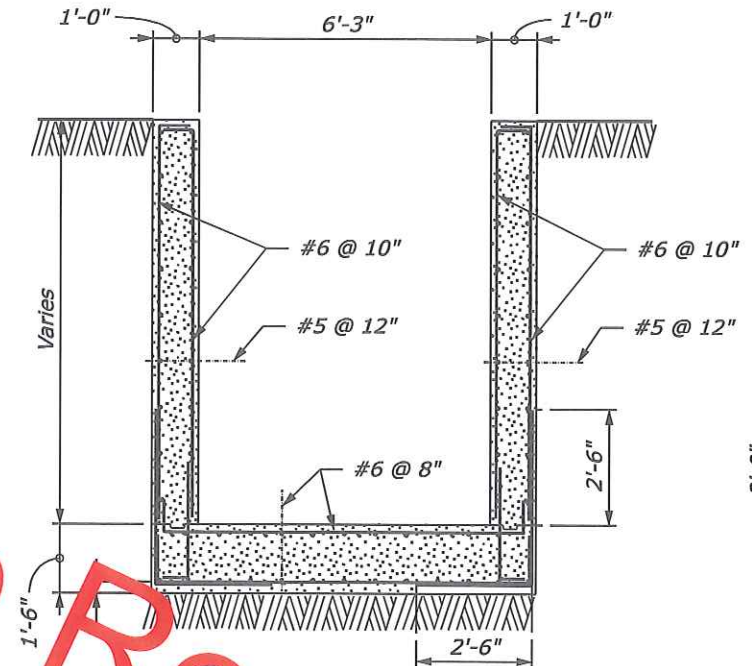
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**ENERGY DISSIPATION
STRUCTURE SECTION
AND DETAILS**

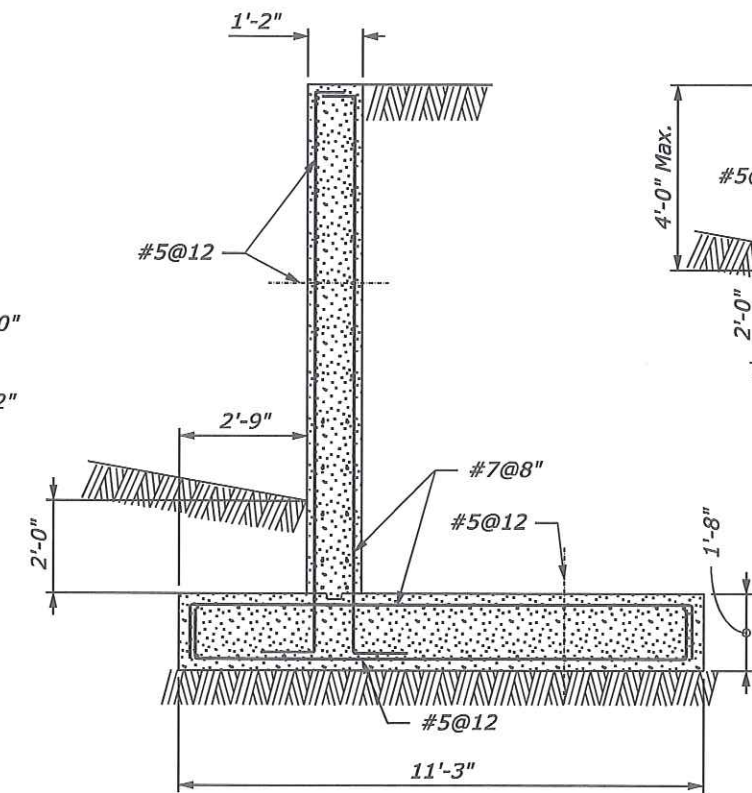
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	G28	G28



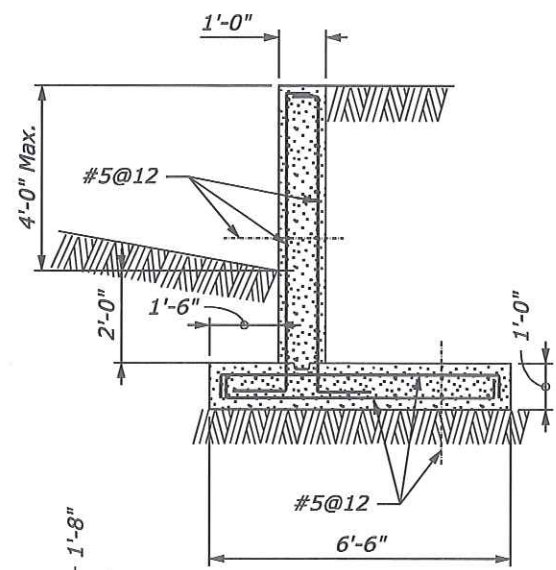
SECTION A-A



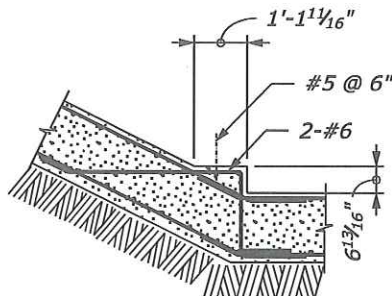
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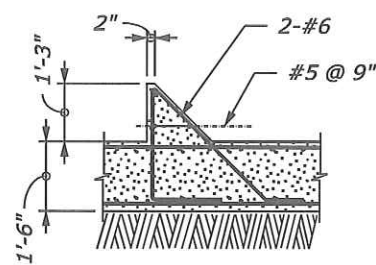
SECTION C-C



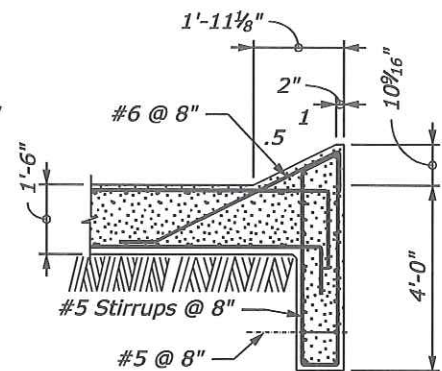
SECTION D-D



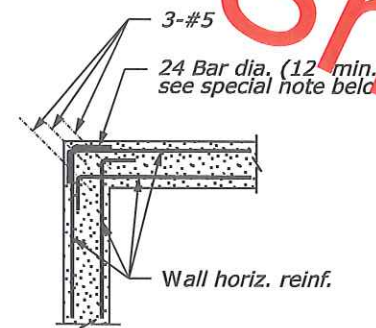
DETAIL - A



DETAIL - B

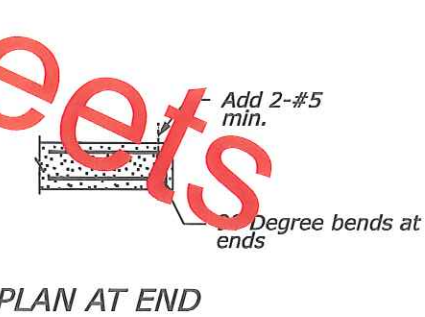


DETAIL - C

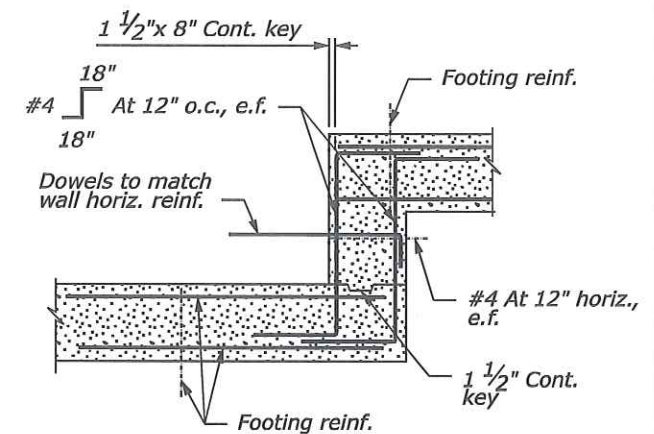


Contractor may substitute 7'-0" long 90 degree bent bar centered at corner in lieu of outer corner hooks (same size and spacing as horiz. reinf.)

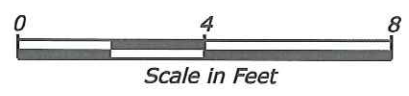
PLAN AT CORNER



PLAN AT END



STEP FOOTING DETAIL



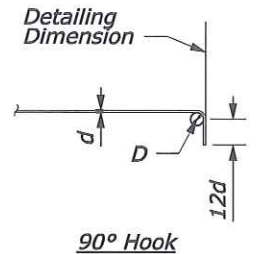
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
SIGNATURE
4/30/2012
EXPIRATION DATE OF THE LICENSE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

ENERGY DISSIPATION STRUCTURE SECTION AND DETAILS

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	G28	G28

Amended 08 June 2012

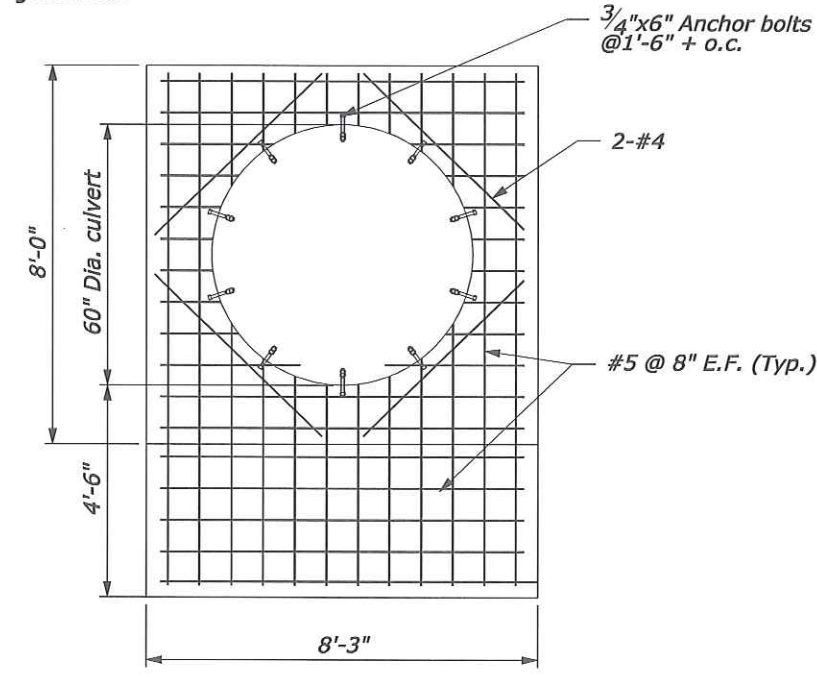


STANDARD HOOK DETAIL

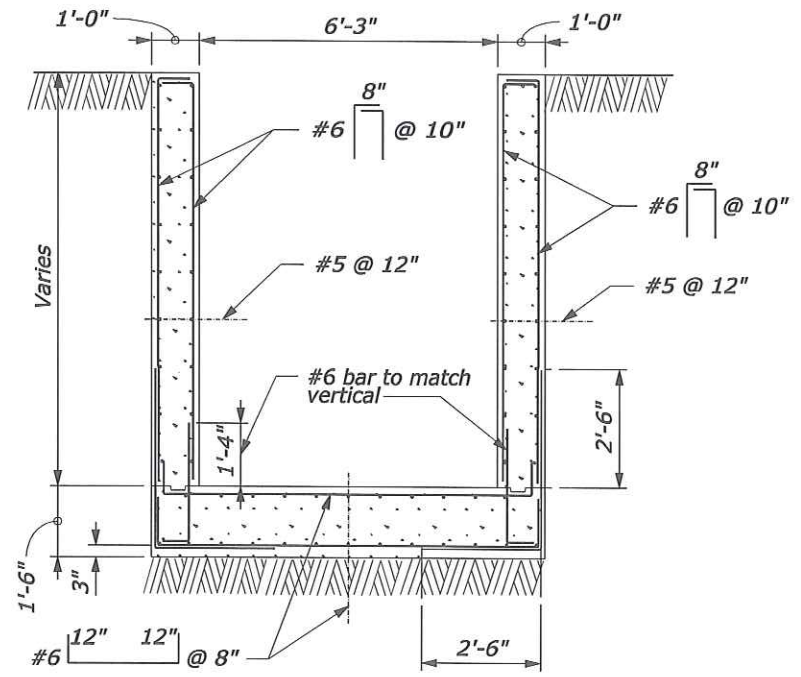
REBAR BEND SCHEDULE	
Rebar Size	End Hook
	Finished Inside Bend Diameter D
#3	2.25 in
#4	3.0 in
#5	3.75 in
#6	4.5 in
#7	5.25 in
#8	6.0 in

Note:
D = Finished Inside Bend Diameter
d = BAR DIAMETER

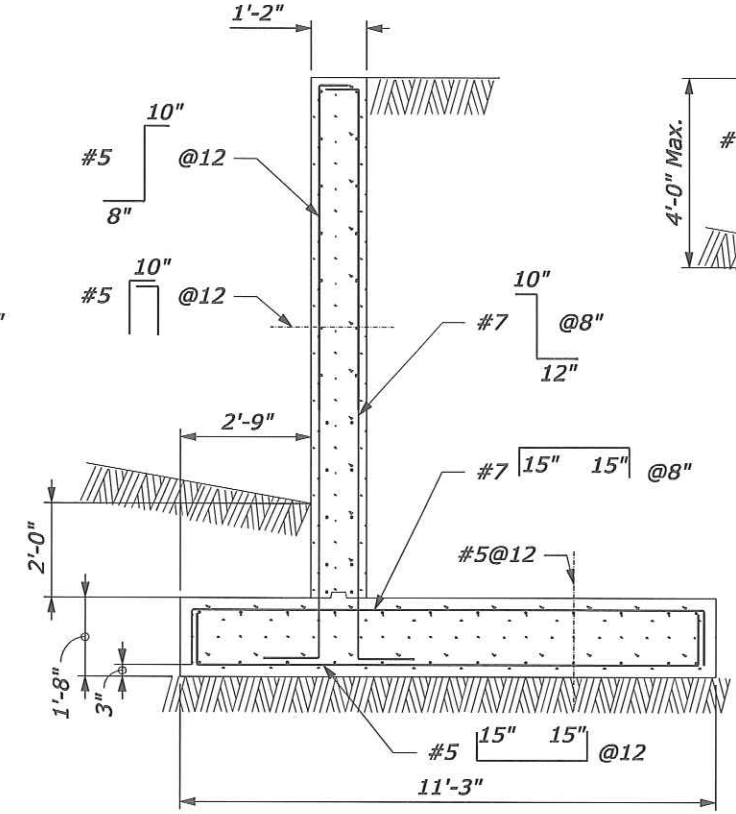
Typical Reinforcing Lap Splice Schedule	
Bar Size	Splice Length (in)
#3	18
#4	24
#5	30
#6	36
#7	42
#8	48



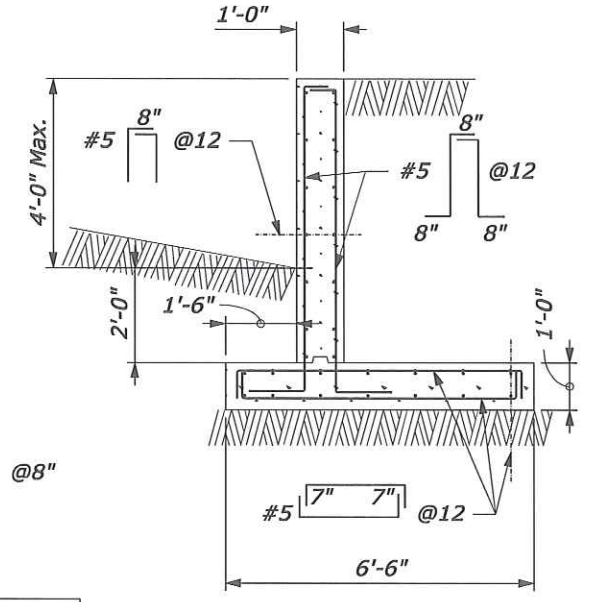
SECTION A-A



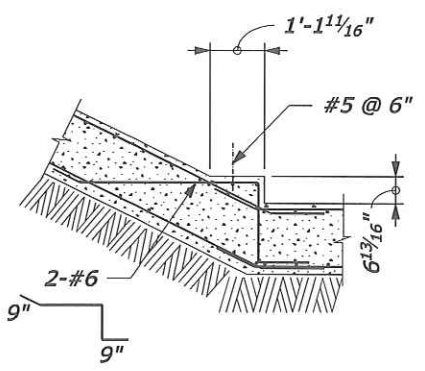
SECTION B-B



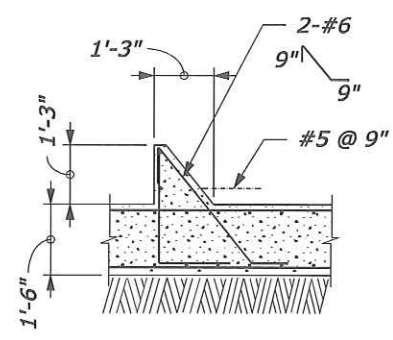
SECTION C-C



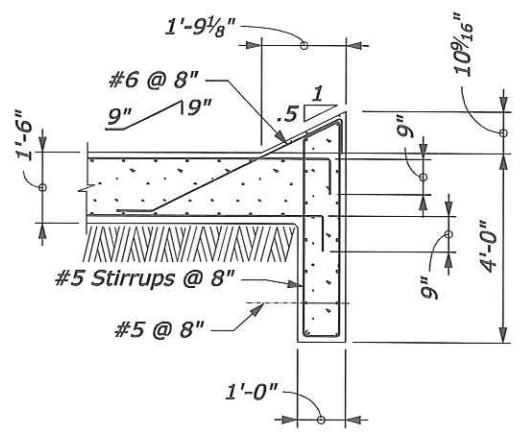
SECTION D-D



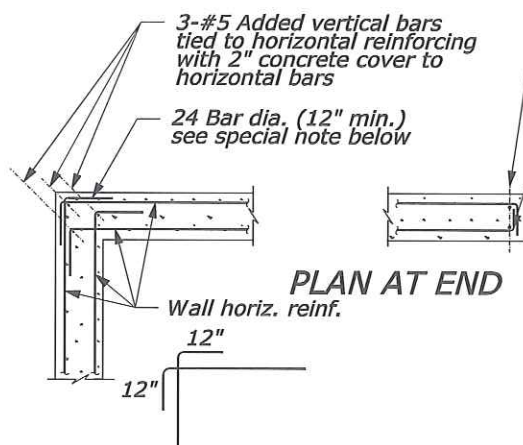
DETAIL - A



DETAIL - B



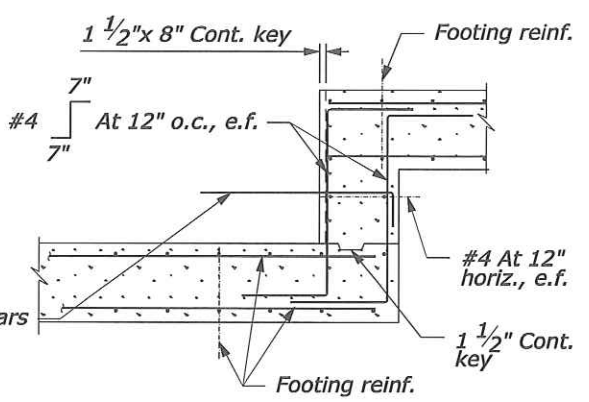
DETAIL - C



Contractor may substitute 7'-0" long 90 degree bent bar centered at corner in lieu of outer corner hooks (same size and spacing as horiz. reinf.)

PLAN AT CORNER

3-#5 Added vertical bars tied to horizontal reinforcing with 2" concrete cover to horizontal bars
24 Bar dia. (12" min.) see special note below
90 Degree bends at ends
Add 2-#5 min. Aligned with typical vertical reinforcing; tied to horizontal reinforcing with 2" concrete cover to horizontal bars
#5 Dowels to match wall horiz. reinf. Location to match the horizontal reinforcing. Lap 2'-6" with horiz bars



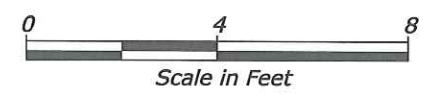
STEP FOOTING DETAIL



This work was prepared by me or under my supervision

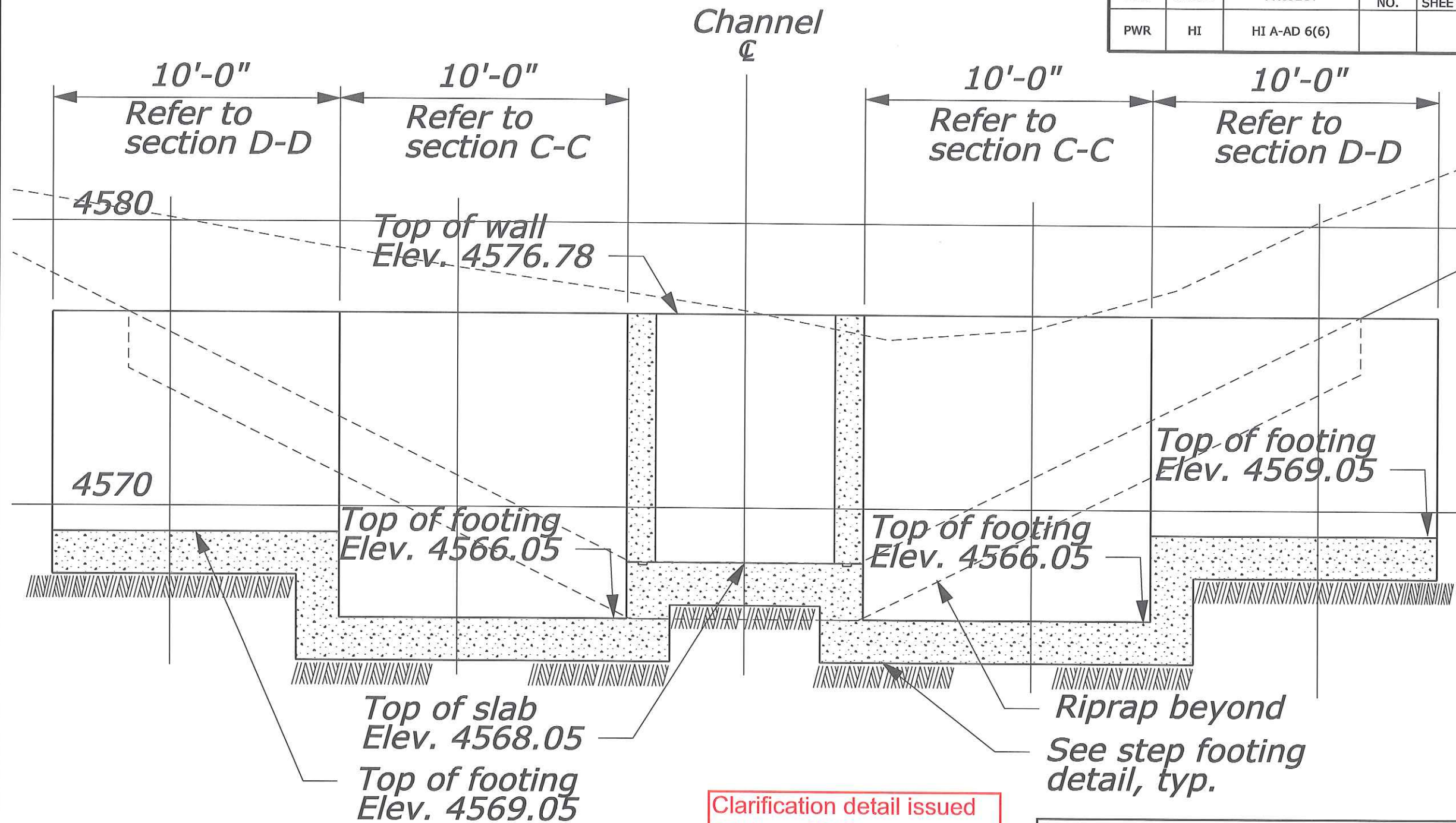
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ENERGY DISSIPATION STRUCTURE SECTION AND DETAILS

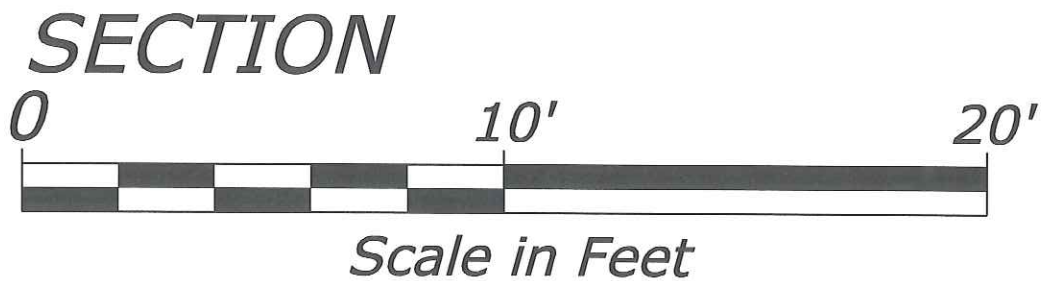


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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
PWR	HI	HI A-AD 6(6)		



Clarification detail issued
27 June 2012
MHL



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**ENERGY DISSIPATION
WINGWALL PROFILE**