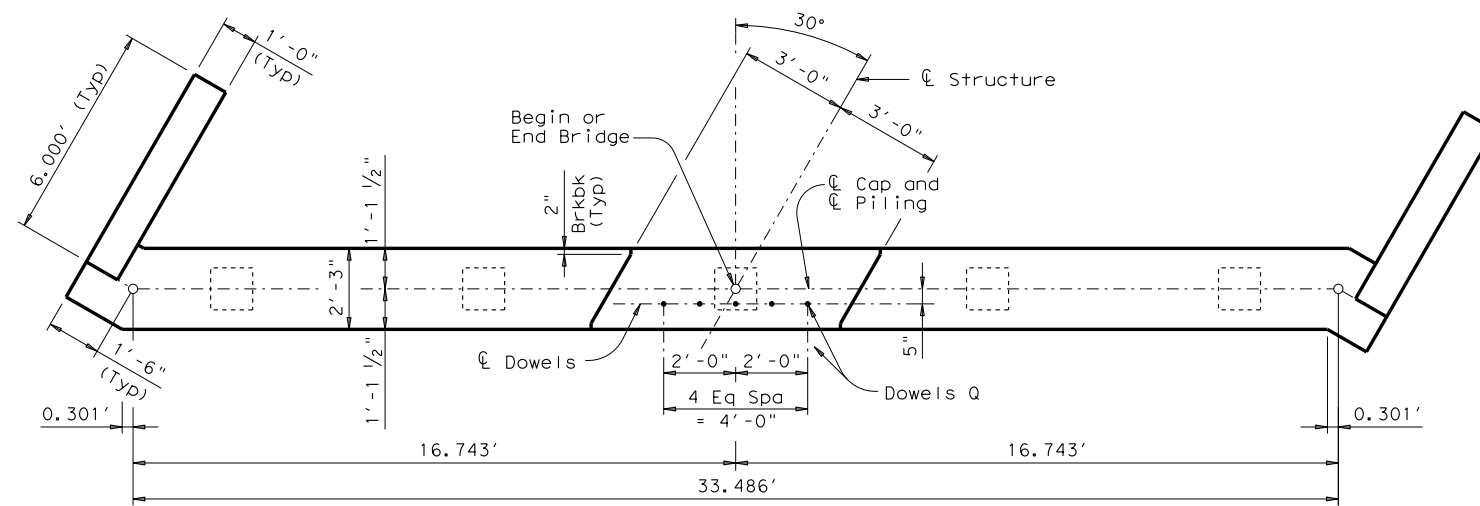
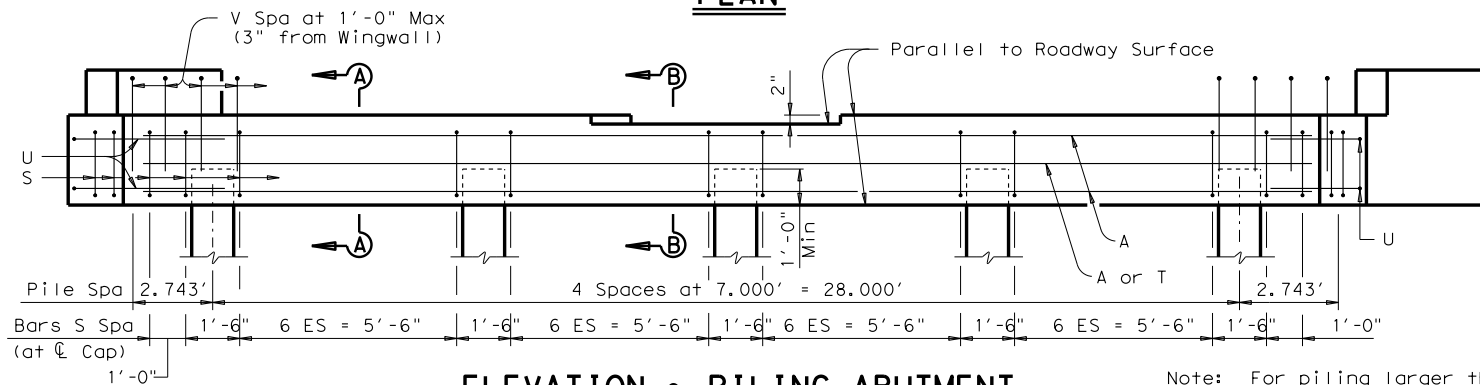


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DATE: FILE:

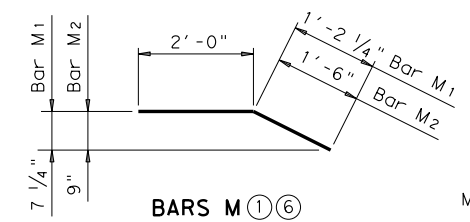


**PLAN**

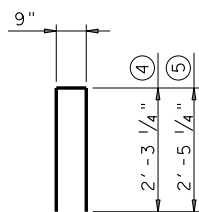


**ELEVATION ~ PILING ABUTMENT**

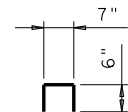
Note: For piling larger than 16", adjust Bars S and/or strip back piling as required to clear cap reinforcing.



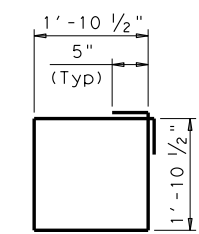
**BARS M** ①⑥



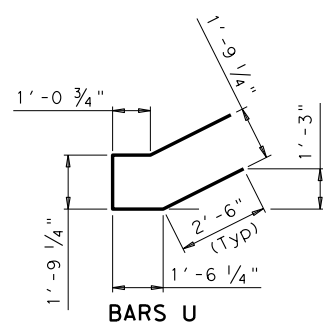
**BARS V**



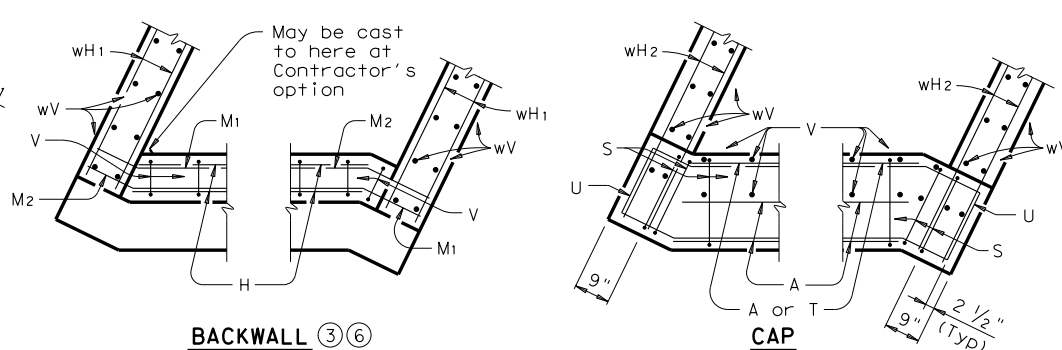
**BARS wU**



**BARS S**

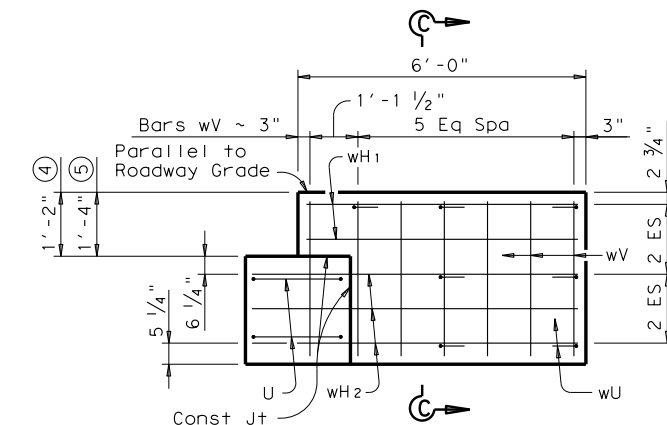


**BARS U**

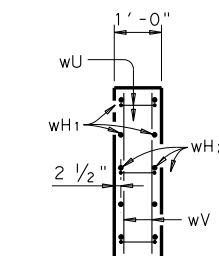


**BACKWALL** ③⑥

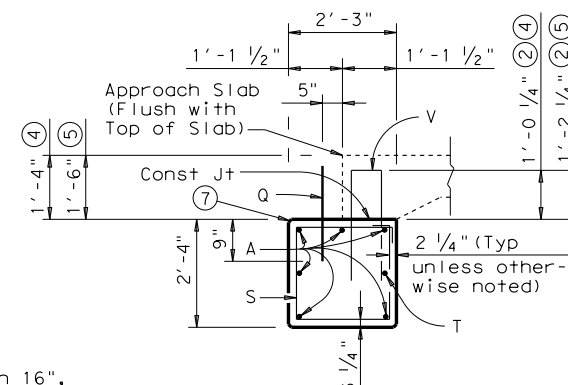
**CORNER DETAILS**



**WINGWALL ELEVATION**

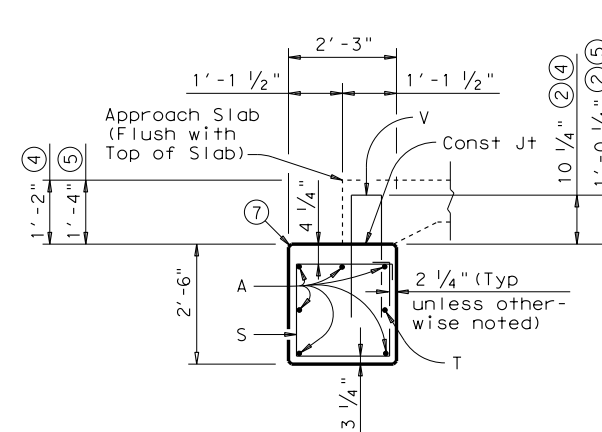


**SECTION C-C**



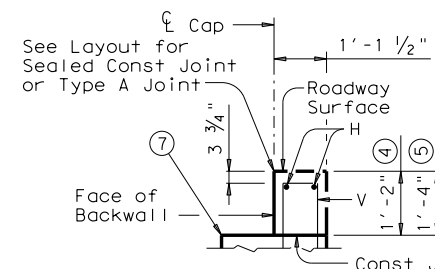
**SECTION B-B** ③

(With Approach Slab)



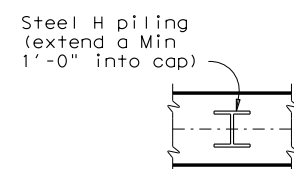
**SECTION A-A** ③

(With Approach Slab)



**BACKWALL DETAIL** ③

(Without Approach Slab)



**ORIENTATION OF STEEL H PILING**

Steel H piling (extend a Min 1'-0" into cap)

**TABLE OF ESTIMATED QUANTITIES** ①

14" SLAB					16" SLAB						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	6	#11	33'-6"	1,068	A	6	#11	33'-6"	1,068		
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11		
S	36	#4	8'-4"	200	S	36	#4	8'-4"	200		
T	1	#5	33'-6"	35	T	1	#5	33'-6"	35		
U	4	#6	9'-4"	56	U	4	#6	9'-4"	56		
V	35	#5	5'-4"	195	V	35	#5	5'-8"	207		
wH1	8	#6	5'-8"	68	wH1	8	#6	5'-8"	68		
wH2	12	#6	6'-10"	123	wH2	12	#6	6'-10"	123		
wU	14	#4	1'-7"	15	wU	14	#4	1'-7"	15		
wV	28	#5	3'-4"	97	wV	28	#5	3'-6"	102		
Reinforcing Steel				Lb	1,868	Reinforcing Steel				Lb	1,885
Class "C" Concrete				CY	8.9	Class "C" Concrete				CY	9.0

① Quantities shown are for one Abutment only (with Approach Slab). With no Approach Slab, add 84 Lbs Total Reinforcing Steel for the following:

- 2 ~ #5 Bars H (33'-6")
- 2 ~ #5 Bars M1 (3'-2")
- 2 ~ #5 Bars M2 (3'-6")

Add the following amounts for concrete:

- 14" slab thickness add 1.7 CY Class "C" Concrete.
- 16" slab thickness add 1.9 CY Class "C" Concrete.

② Increase as required to maintain 3 3/4" from Finished Grade.

③ See Layout to determine if Approach Slab is present.

④ Use with 14" slab thickness.

⑤ Use with 16" slab thickness.

⑥ Omit Bars H and M if Approach Slab is present.

⑦ See standard CS-MD for Preformed Bituminous Fiber Material.

**GENERAL NOTES:**

Designed according to AASHTO LRFD Specifications. Details shown are for right forward skew. See layout for actual skew direction. All cap and wall reinforcing shall be Grade 60. Concrete strength  $f'c = 3,600$  psi. Designed for normal embankment header slope of 3:1. See Layout for foundation size and length. See standard FD for foundation details and notes. See standard CS-MD for joint details and details not shown. Calculated Foundation Loads: 25 Tons/Pile. These abutment details may be used with standards CS-25-30, CS-50-30-30, CS-75-30-30 and CS-80-30-30 only.

HL93 LOADING

		<b>Bridge Division Standard</b>	
<b>ABUTMENTS FOR C-I-P CONC SLAB SPANS (PILES)</b>			
<b>30 FT ROADWAY</b>		<b>30° SKEW</b>	
<b>ACSP-30-30</b>			
FILE: acs12ste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
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REVISIONS			HIGHWAY
	DIST	COUNTY	SHEET NO.