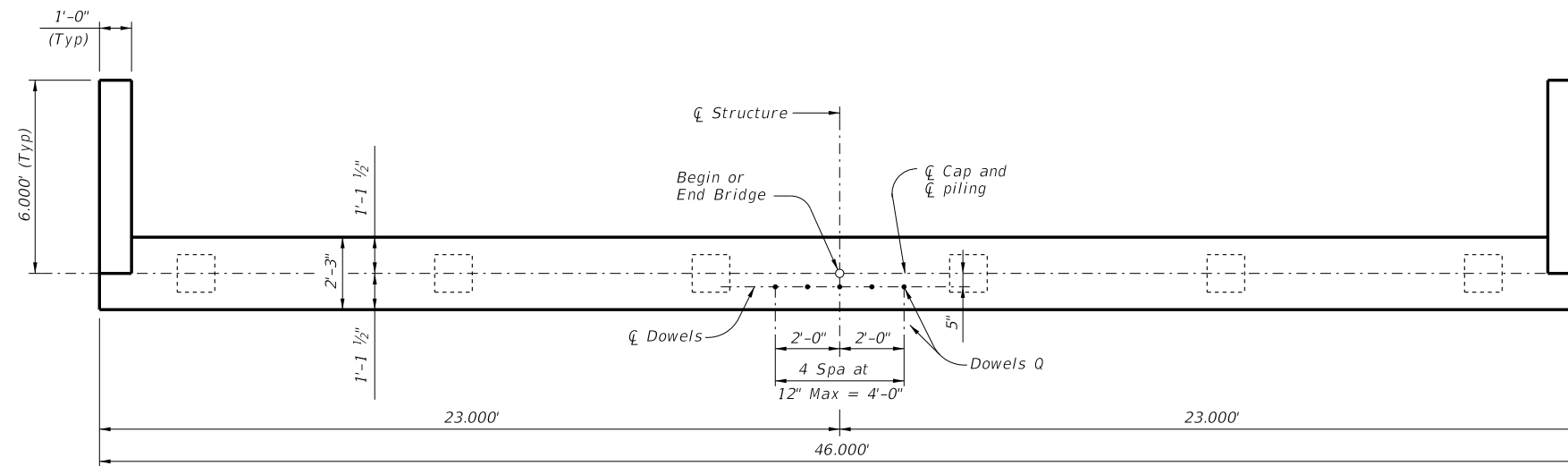
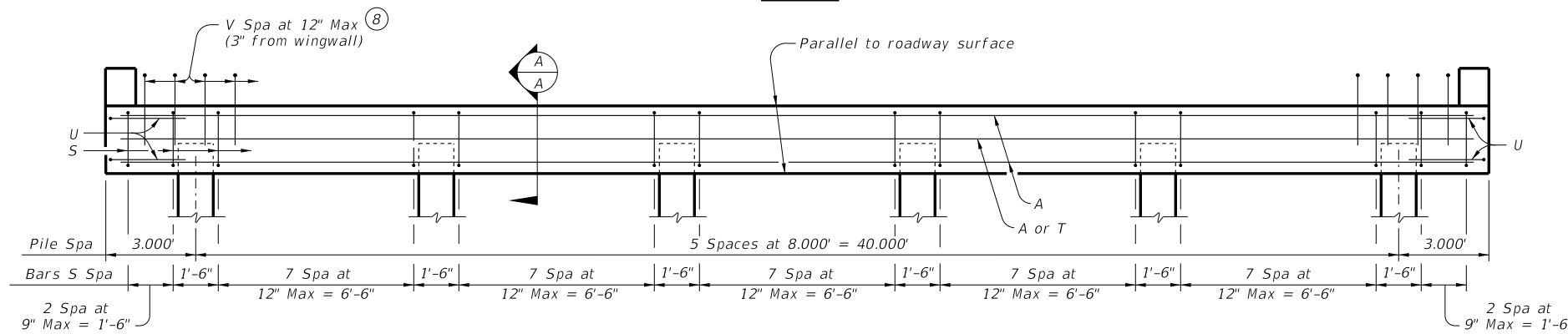


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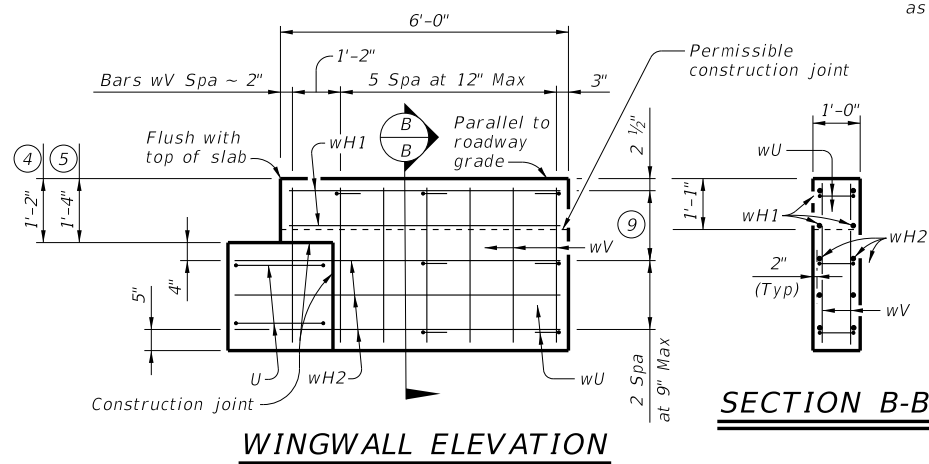


**PLAN**

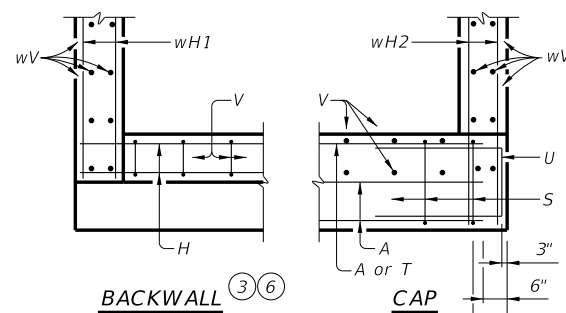


**ELEVATION ~ PILING ABUTMENT**

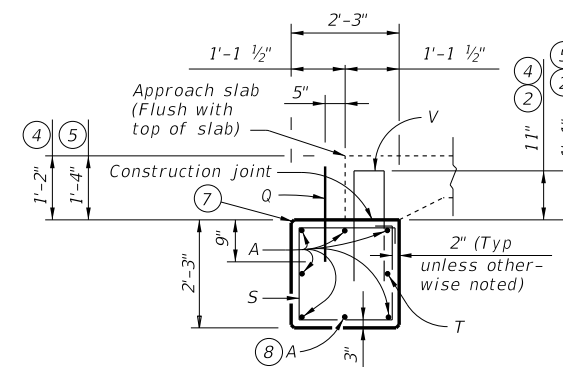
Note: For piling larger than 16", adjust Bars S as required to avoid piling.



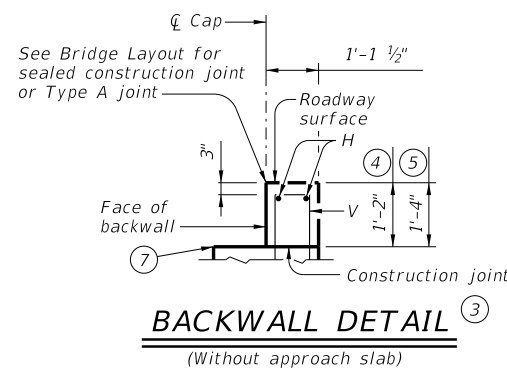
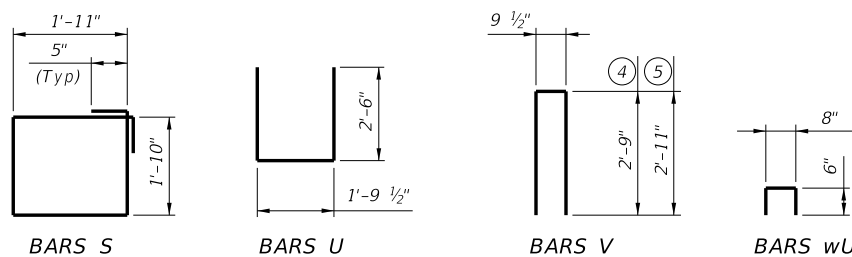
**WINGWALL ELEVATION**



**CORNER DETAILS**



**SECTION A-A**  
(With approach slab)



**BACKWALL DETAIL**  
(Without approach slab)

**TABLE OF ESTIMATED QUANTITIES** ①

14" SLAB					16" SLAB						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	6	#11	45'-0"	1,435	A	6	#11	45'-0"	1,435		
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11		
S	46	#4	8'-4"	256	S	46	#4	8'-4"	256		
T	1	#5	45'-0"	47	T	1	#5	45'-0"	47		
U	4	#6	6'-10"	41	U	4	#6	6'-10"	41		
V	45	#5	6'-4"	297	V	45	#5	6'-8"	313		
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'-8"	16	wU	14	#4	1'-8"	16		
wV	28	#5	3'-1"	90	wV	28	#5	3'-3"	95		
Reinforcing Steel				Lb	2,384	Reinforcing Steel				Lb	2,405
CI "C" Conc (Abut)				CY	10.0	CI "C" Conc (Abut)				CY	10.0

- ① Quantities shown are for one abutment only (with approach slab). Without approach slab, add 95 Lbs reinforcing steel for 2 ~ #5 Bars H (45'-8") and the following amounts of concrete:  
14" slab thickness add 2.1 CY Class "C" Concrete.  
16" slab thickness add 2.4 CY Class "C" Concrete.
- ② Increase as required to maintain 3" from finished grade.
- ③ See Bridge Layout to determine if approach slab is present.
- ④ Use with 14" slab thickness.
- ⑤ Use with 16" slab thickness.
- ⑥ Omit Bars H if approach slab is present.
- ⑦ See CS-MD standard for preformed bituminous fiber material.
- ⑧ Field bend as needed to clear piles.
- ⑨ Spacing based on slab depth  
14" ~ 2 spaces at 8" Max.  
16" ~ 2 spaces at 9" Max

**MATERIAL NOTES:**

- Provide Class C concrete (f'c = 3,600 psi).
- Provide Class C (HPC) concrete if shown elsewhere in the plans.
- Provide Grade 60 reinforcing steel.

**GENERAL NOTES:**

- Designed according to AASHTO LRFD Bridge Design Specifications.
- Designed for normal embankment header slope of 3:1.
- See Bridge Layout for foundation type, size and length.
- See Common Foundation Details (FD) standard sheet for foundation details and notes.
- See Concrete Riprap (CRR) standard sheet or Stone Riprap (SRR) standard sheets for riprap attachment details, if applicable.
- See applicable rail details for anchorage in wingwalls.
- See Miscellaneous Details for C-I-P Concrete Slab Spans (CS-MD) standard sheet for joint details and details not shown.
- Calculated foundation loads: 25 Tons/pile.
- These abutment details may be used with standards CS-25-44, CS-50-44, CS-75-44, and CS-80-44 only.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.

HL93 LOADING

		<b>Bridge Division Standard</b>	
<b>ABUTMENTS FOR C-I-P CONC SLAB SPANS</b> <b>44' ROADWAY (PILES)</b> <b>ACSP-44</b>			
FILE: CS-ACS4400P-21.dgn	DN: HTP	CK: SDC	DW: LJC
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