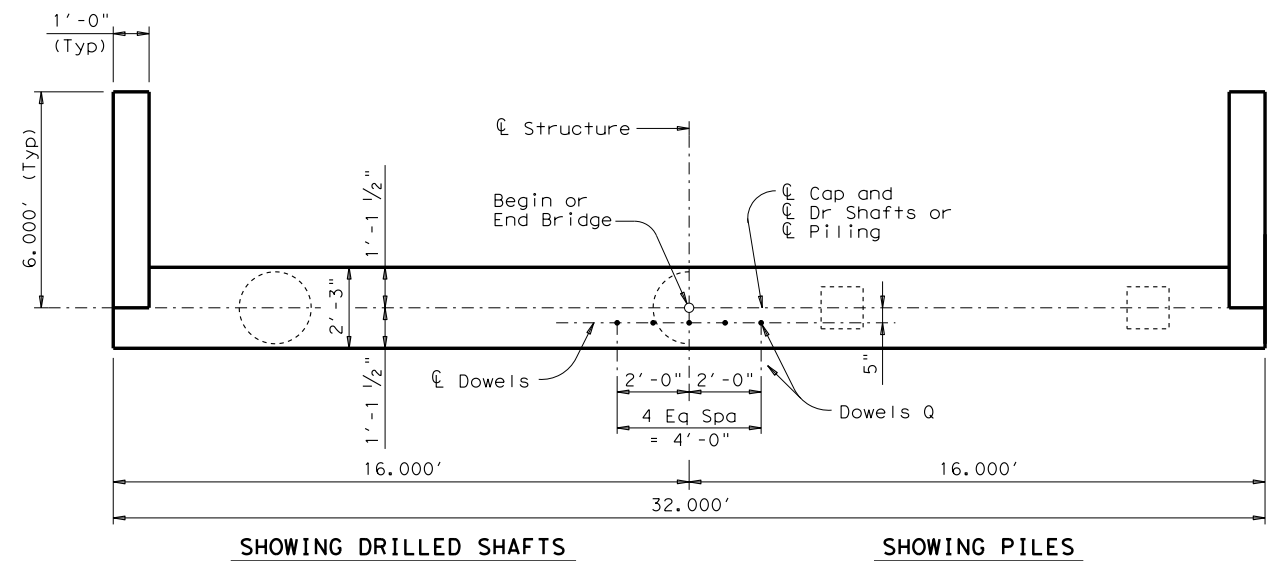
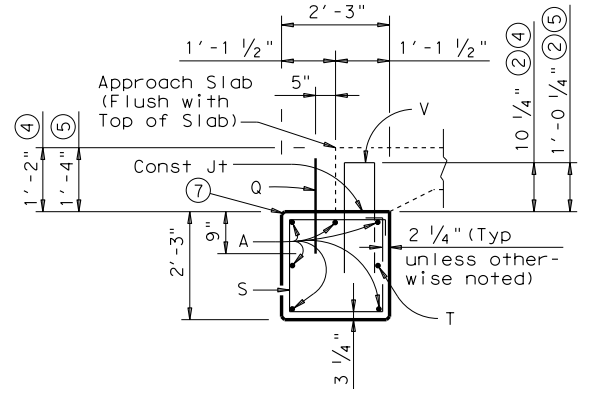


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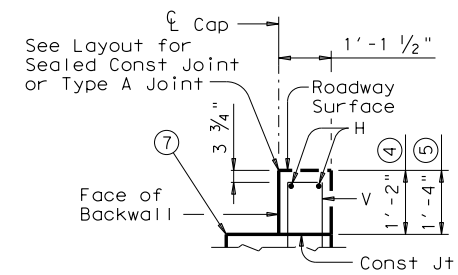
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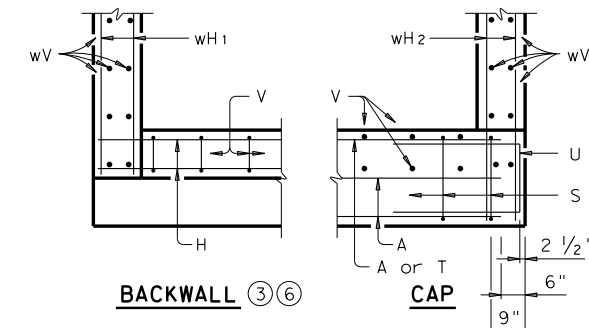
SHOWING DRILLED SHAFTS
PLAN
SHOWING PILES



SECTION A-A
(With Approach Slab)



BACKWALL DETAIL
(Without Approach Slab)



CORNER DETAILS

14" SLAB ~ TABLE OF ESTIMATED QUANTITIES ①

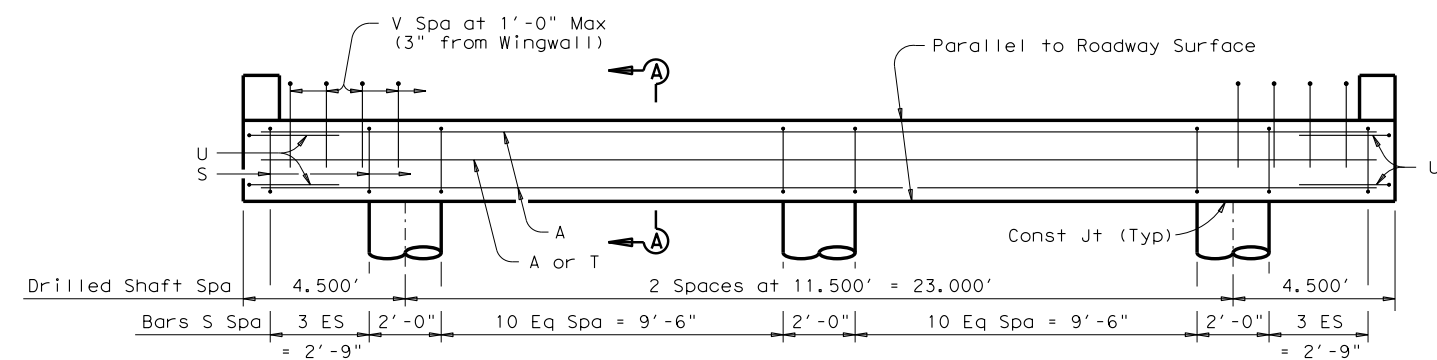
DRILLED SHAFT ABUT					PILING ABUTMENT						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	6	#11	31'-0"	988	A	6	#11	31'-0"	988		
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11		
S	30	#4	8'-2"	164	S	30	#4	8'-2"	164		
T	1	#5	31'-0"	32	T	1	#5	31'-0"	32		
U	4	#6	6'-9"	41	U	4	#6	6'-9"	41		
V	31	#5	5'-0"	162	V	31	#5	5'-0"	162		
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'-1"	90	wV	28	#5	3'-1"	90		
Reinforcing Steel				Lb	1,694	Reinforcing Steel				Lb	1,694
Class "C" Concrete				CY	7.3	Class "C" Concrete				CY	7.3

16" SLAB ~ TABLE OF ESTIMATED QUANTITIES ①

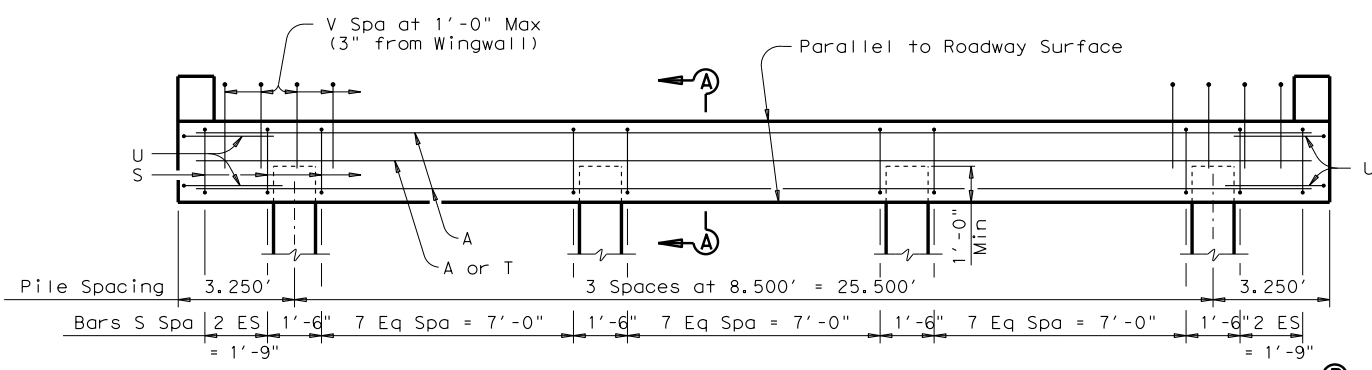
DRILLED SHAFT ABUT					PILING ABUTMENT						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	6	#11	31'-0"	988	A	6	#11	31'-0"	988		
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11		
S	30	#4	8'-2"	164	S	30	#4	8'-2"	164		
T	1	#5	31'-0"	32	T	1	#5	31'-0"	32		
U	4	#6	6'-9"	41	U	4	#6	6'-9"	41		
V	31	#5	5'-4"	172	V	31	#5	5'-4"	172		
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'-3"	95	wV	28	#5	3'-3"	95		
Reinforcing Steel				Lb	1,709	Reinforcing Steel				Lb	1,709
Class "C" Concrete				CY	7.4	Class "C" Concrete				CY	7.4

- ① Quantities shown are for one Abutment only (with Approach Slab). With no Approach Slab, add 66 Lbs Reinforcing Steel for 2 ~ #5 Bars H (31'-8") and the following amounts of concrete:
 14" slab thickness add 1.5 CY Class "C" Concrete.
 16" slab thickness add 1.7 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 if Approach Slab is present.
- ⑦ See standard CS-MD for Preformed Bituminous Fiber Material.

GENERAL NOTES:
 Designed according to AASHTO LRFD Specifications. 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 type, 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: 40 Tons/Drilled Shaft 30 Tons/Pile.
 These abutment details may be used with standards CS-25-30, CS-50-30, CS-75-30 and CS-80-30 only.

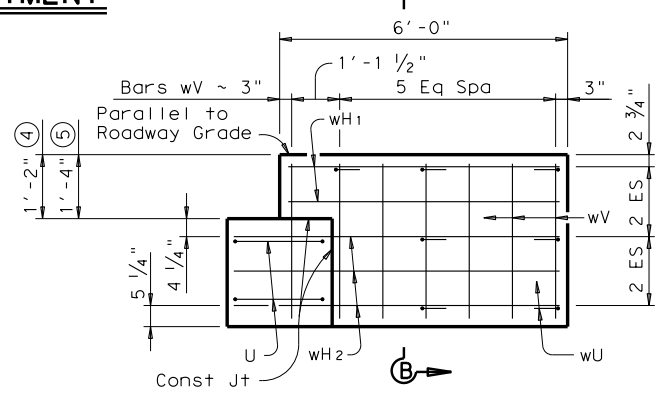
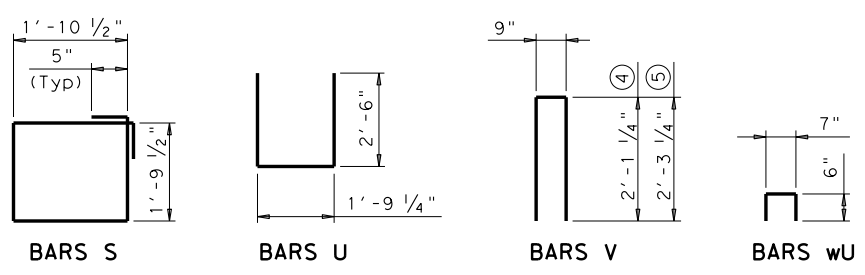


ELEVATION ~ DRILLED SHAFT ABUTMENT

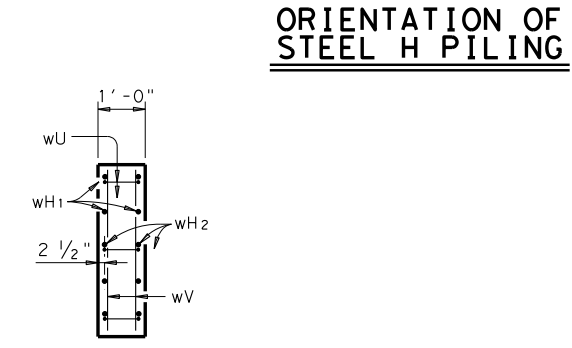


ELEVATION ~ PILING ABUTMENT

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



WINGWALL ELEVATION



SECTION B-B

ORIENTATION OF STEEL H PILING

HL93 LOADING

Texas Department of Transportation
 Bridge Division Standard

ABUTMENTS FOR C-I-P CONC SLAB SPANS

30 FT ROADWAY

ACS-30

FILE: acs09ste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS				
DIST	COUNTY	SHEET NO.		