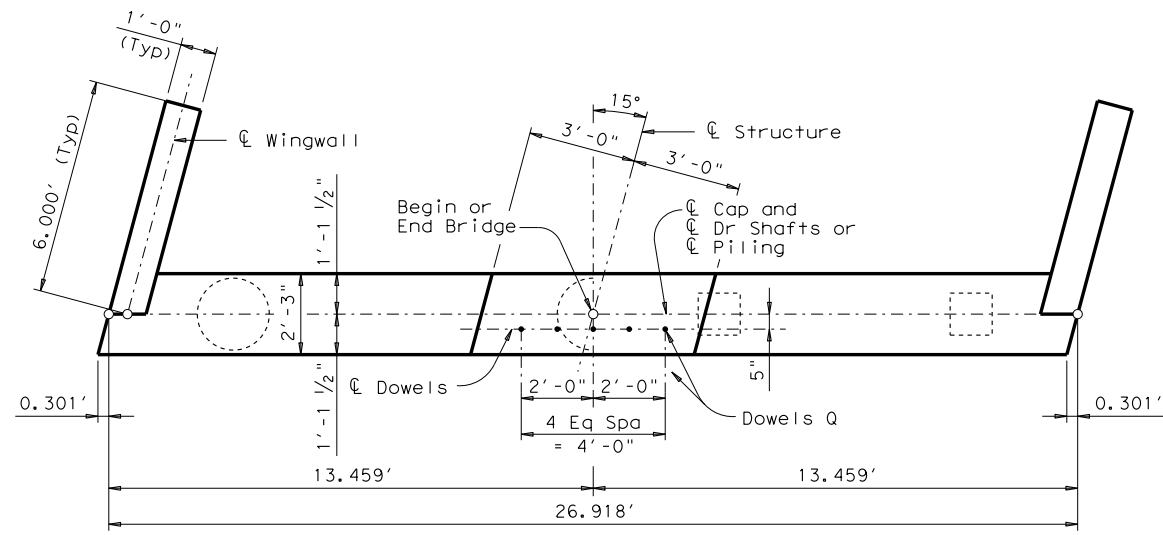
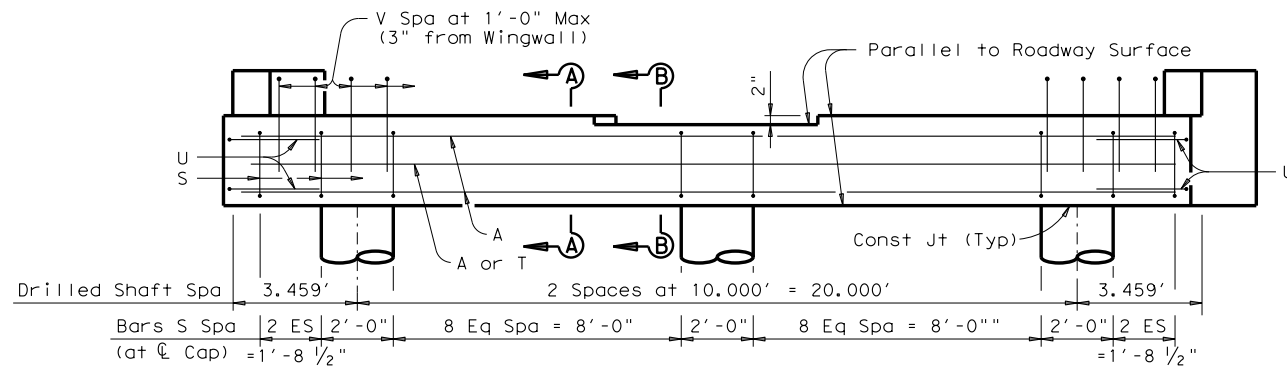


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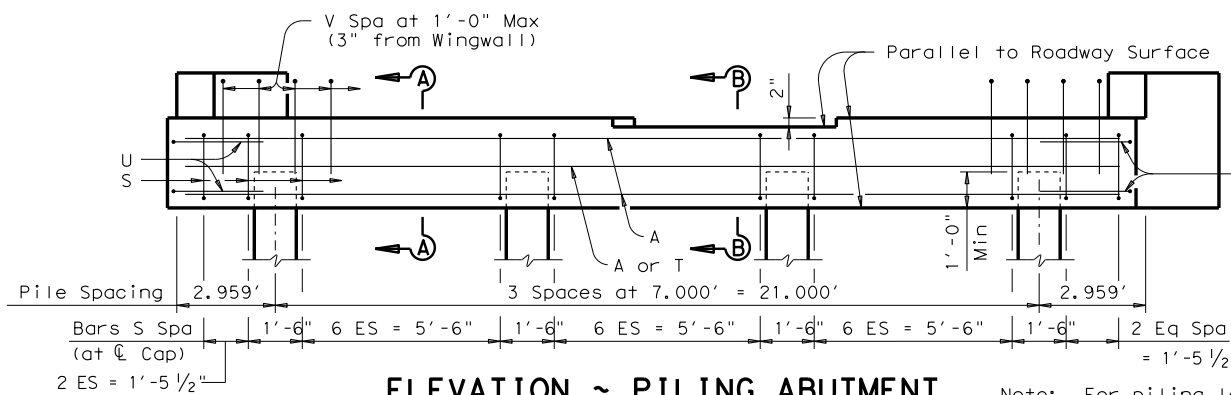


SHOWING DRILLED SHAFTS SHOWING PILES

PLAN

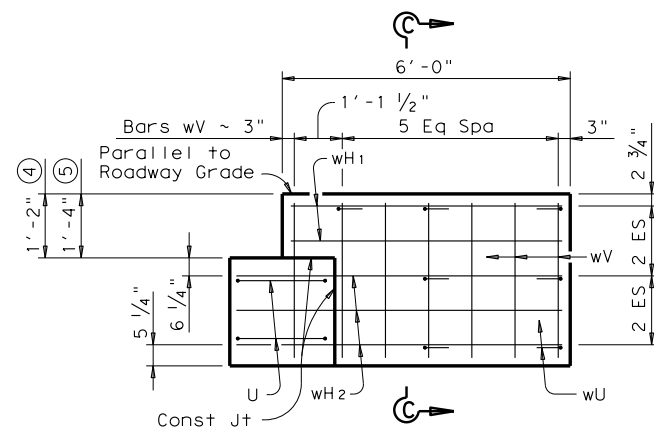


ELEVATION ~ DRILLED SHAFT ABUTMENT

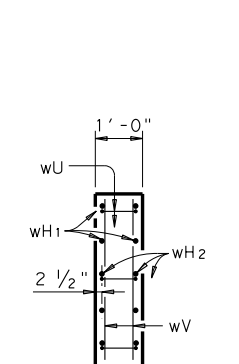


ELEVATION ~ PILING ABUTMENT

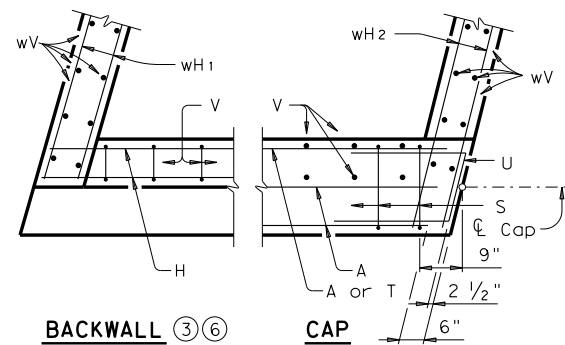
Note: For piling larger than 16", adjust Bars S and/or strip back piling as required to clear cap reinforcing.



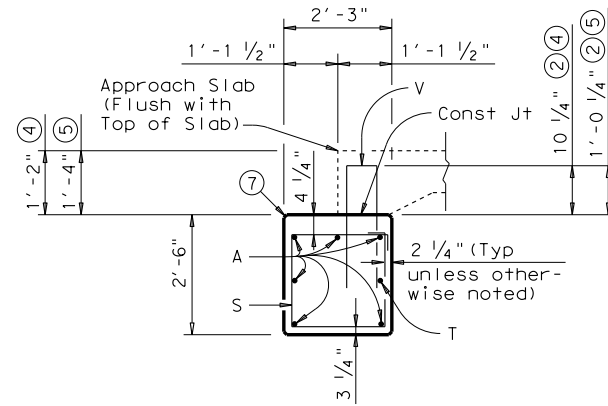
WINGWALL ELEVATION



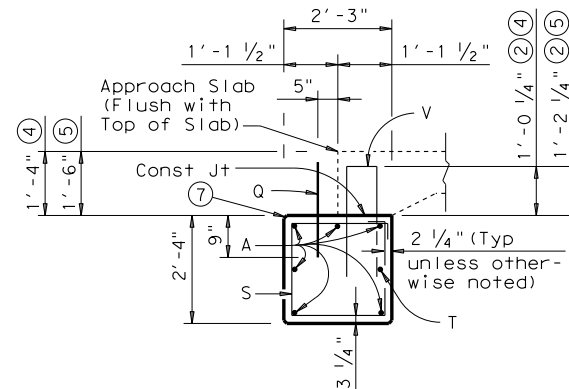
SECTION C-C



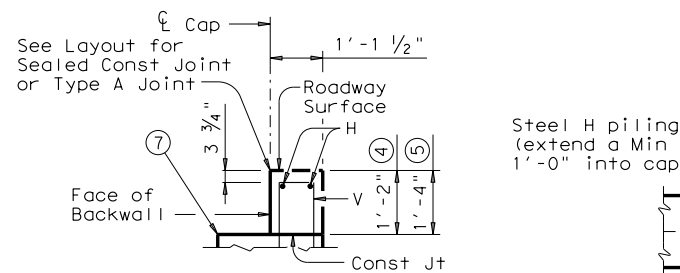
CORNER DETAILS



SECTION A-A
(With Approach Slab)

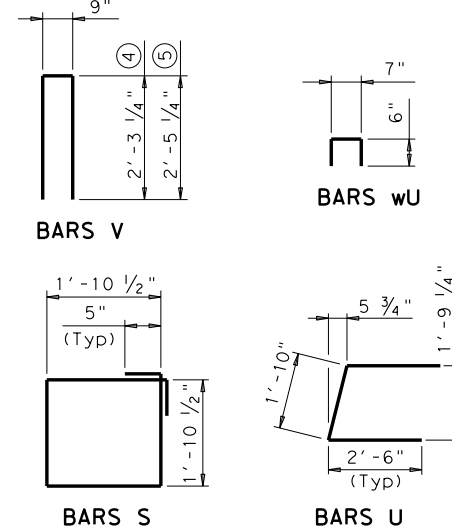


SECTION B-B
(With Approach Slab)



BACKWALL DETAIL
(Without Approach Slab)

ORIENTATION OF STEEL H PILING



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	25'-11"	826	A	6	#11	25'-11"	826
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11
S	24	#4	8'-4"	134	S	27	#4	8'-4"	150
T	1	#5	25'-11"	27	T	1	#5	25'-11"	27
U	4	#6	6'-10"	41	U	4	#6	6'-10"	41
V	26	#5	5'-4"	145	V	26	#5	5'-4"	145
wH ₁	8	#6	5'-8"	68	wH ₁	8	#6	5'-8"	68
wH ₂	12	#6	6'-10"	123	wH ₂	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'-4"	97
Reinforcing Steel				Lb 1,487	Reinforcing Steel				Lb 1,503
Class "C" Concrete				CY 6.9	Class "C" Concrete				CY 6.9

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	25'-11"	826	A	6	#11	25'-11"	826
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11
S	24	#4	8'-4"	134	S	27	#4	8'-4"	150
T	1	#5	25'-11"	27	T	1	#5	25'-11"	27
U	4	#6	6'-10"	41	U	4	#6	6'-10"	41
V	26	#5	5'-8"	154	V	26	#5	5'-8"	154
wH ₁	8	#6	5'-8"	68	wH ₁	8	#6	5'-8"	68
wH ₂	12	#6	6'-10"	123	wH ₂	12	#6	6'-10"	123
wU	14	#4	1'-7"	15	wU	14	#4	1'-7"	15
wV	28	#5	3'-6"	102	wV	28	#5	3'-6"	102
Reinforcing Steel				Lb 1,501	Reinforcing Steel				Lb 1,517
Class "C" Concrete				CY 7.0	Class "C" Concrete				CY 7.0

- Quantities shown are for one Abutment only (with Approach Slab). With no Approach Slab, add 55 Lbs Reinforcing Steel for 2 ~ #5 Bars H (26'-7") and the following amounts of concrete:
14" slab thickness add 1.2 CY Class "C" Concrete.
16" slab thickness add 1.4 CY Class "C" Concrete.
- Increase as required to maintain 3 3/4" from Finished Grade.
- See Layout to determine if Approach Slab is present.
- Use with 14" slab thickness.
- Use with 16" slab thickness.
- Omit Bars H if Approach Slab is present.
- 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 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: 35 Tons/Drilled Shaft 25 Tons/Pile.
These abutment details may be used with standards CS-25-24, CS-50-24-15, CS-75-24-15 and CS-80-24-15 only.

HL93 LOADING

		Bridge Division Standard	
ABUTMENTS FOR C-I-P CONC SLAB SPANS			
24 FT ROADWAY		15° SKEW	
ACS-24-15			
FILE: acs02ste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
REVISIONS	CONT	SECT	JOB
			HIGHWAY
	DIST	COUNTY	SHEET NO.

DATE: FILE: