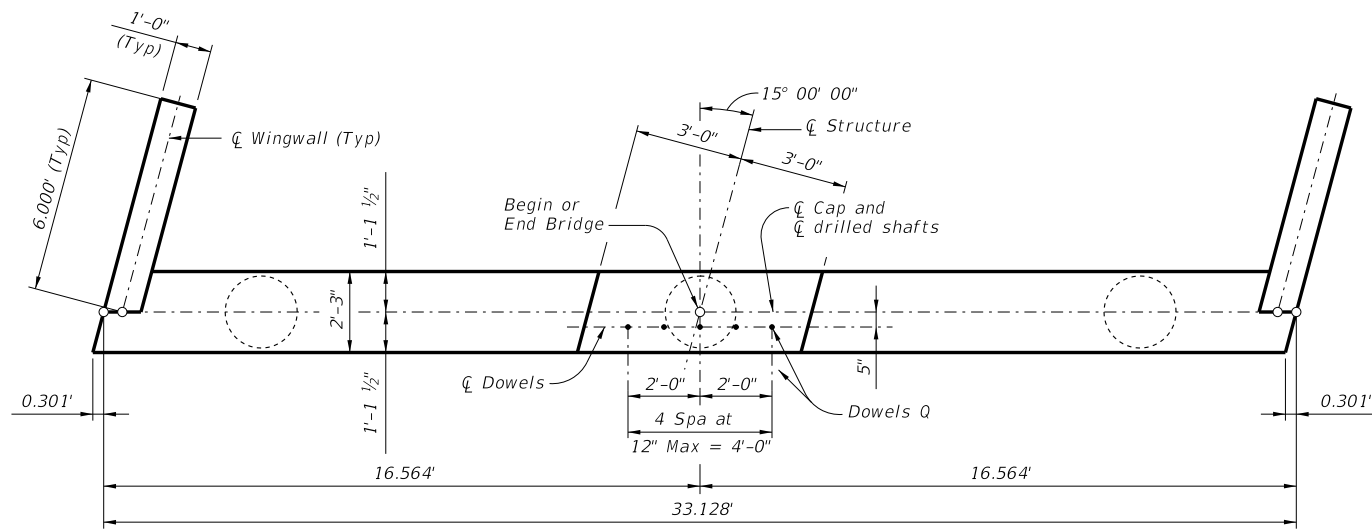
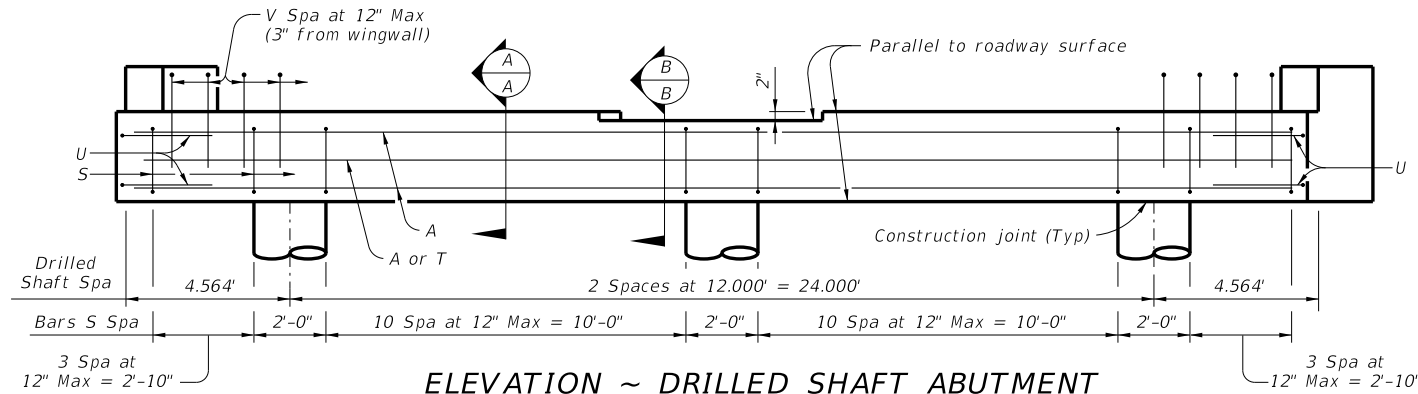


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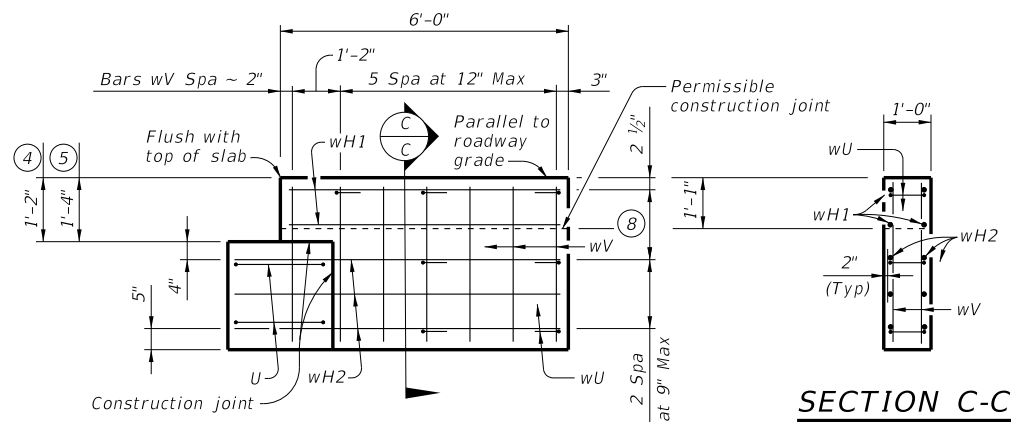
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PLAN

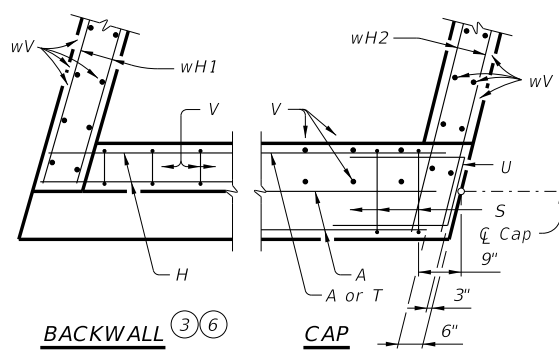


ELEVATION ~ DRILLED SHAFT ABUTMENT

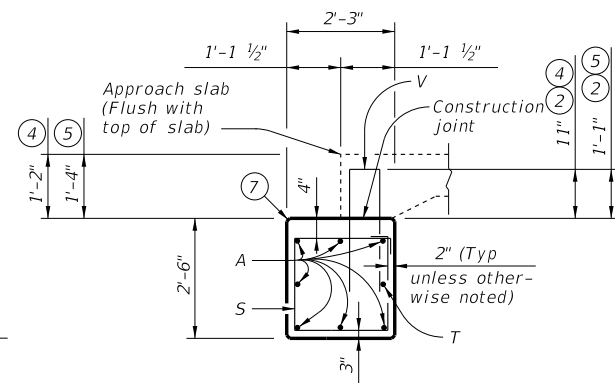


WINGWALL ELEVATION

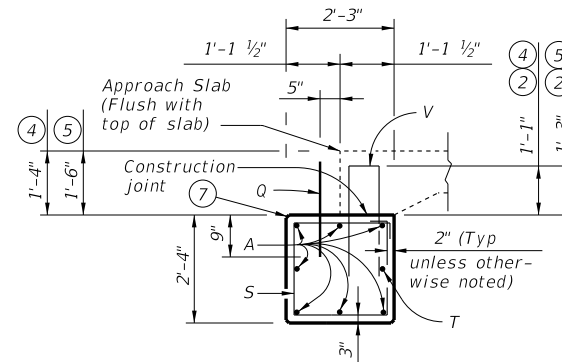
SECTION C-C



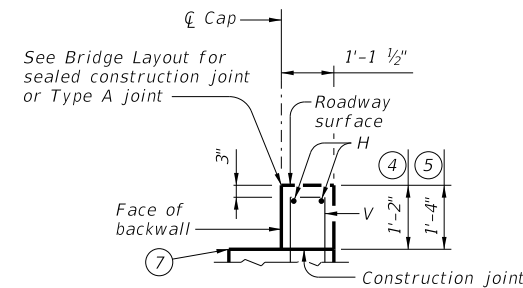
CORNER DETAILS



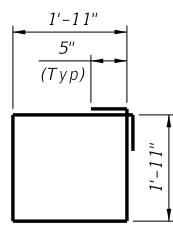
SECTION A-A (With approach slab)



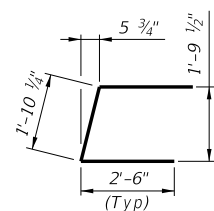
SECTION B-B (With approach slab)



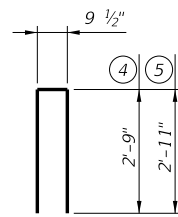
BACKWALL DETAIL (Without approach slab)



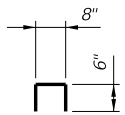
BARS S



BARS U



BARS V



BARS wU

TABLE OF ESTIMATED QUANTITIES (1)

14" SLAB					16" SLAB						
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight		
A	7	#11	32'-2"	1,196	A	7	#11	32'-2"	1,196		
Q	5	#6	1'-6"	11	Q	5	#6	1'-6"	11		
S	30	#4	8'-6"	170	S	30	#4	8'-6"	170		
T	1	#5	32'-2"	34	T	1	#5	32'-2"	34		
U	4	#6	6'-10"	41	U	4	#6	6'-10"	41		
V	32	#5	6'-4"	211	V	32	#5	6'-8"	223		
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'-4"	97	wV	28	#5	3'-6"	102		
Reinforcing Steel				Lb	1,967	Reinforcing Steel				Lb	1,984
CI "C" Conc (Abut)				CY	8.2	CI "C" Conc (Abut)				CY	8.3

- Quantities shown are for one abutment only (with approach slab). Without approach slab, add 68 Lbs reinforcing steel for 2 ~ #5 Bars H (32'-10") 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.
- Increase as required to maintain 3" from finished grade.
- See Bridge 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 CS-MD standard for preformed bituminous fiber material.
- 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.
- Details shown are for right forward skew. See Bridge Layout for Layout for actual skew direction.
- 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: 40 Tons/drilled shaft.
- These abutment details may be used with standards CS-25-30, CS-50-30-15, CS-75-30-15, and CS-80-30-15 only.

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

HL93 LOADING

Texas Department of Transportation
 Bridge Division Standard

ABUTMENTS FOR C-I-P CONC SLAB SPANS
 30' ROADWAY 15° SKEW
 (DRILLED SHAFTS)
ACSD-30-15

FILE: CS-ACS3015D-21.dgn	DN: HTP	CK: SDC	DW: LJC	CK: TAR
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REVISIONS				
DIST	COUNTY			SHEET NO.