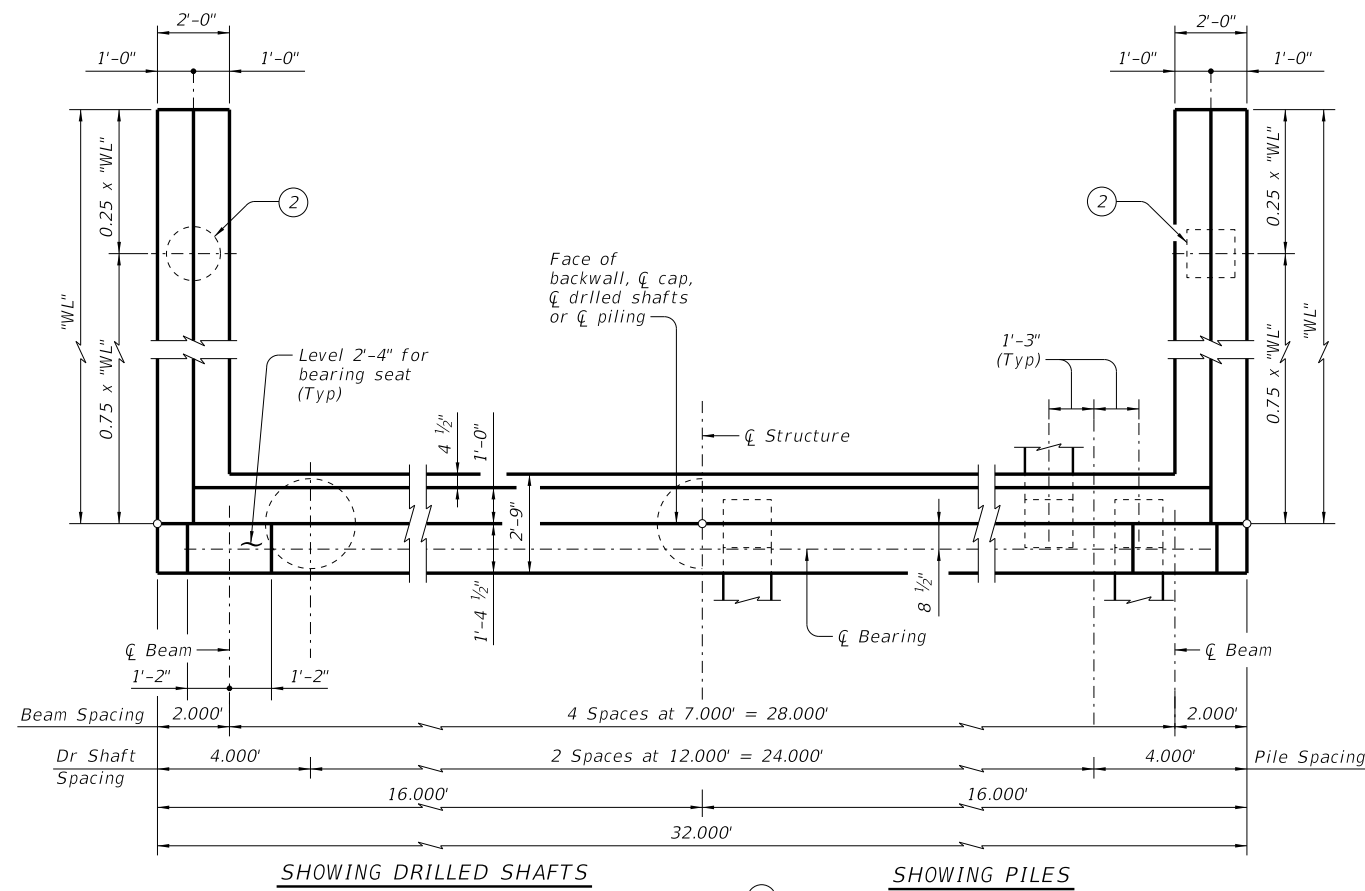
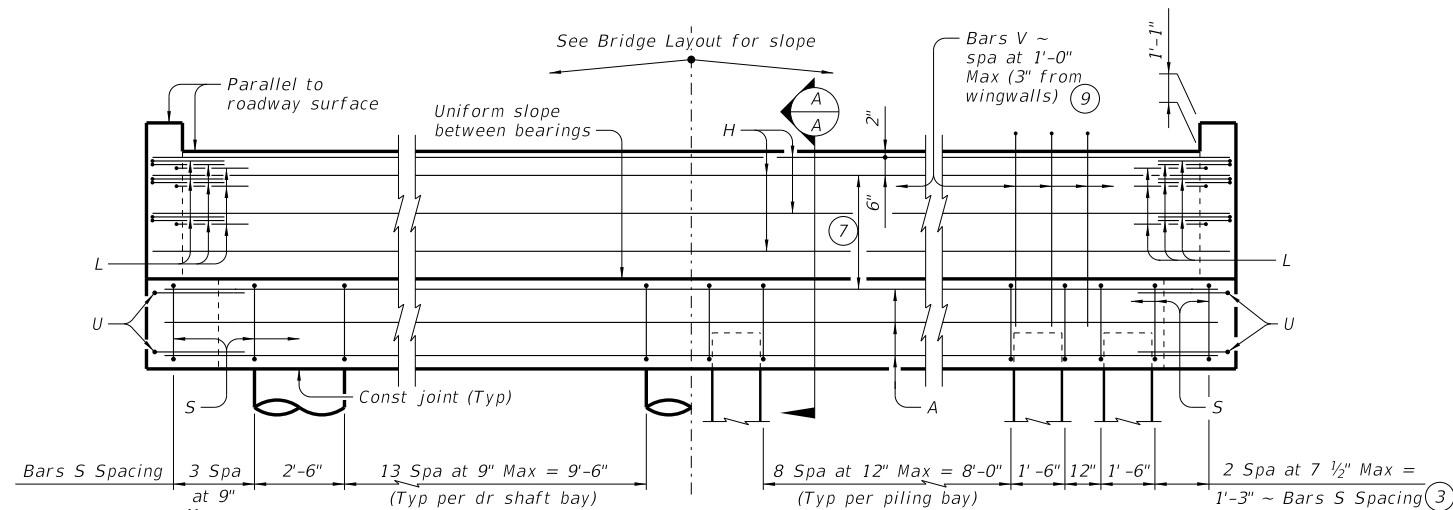


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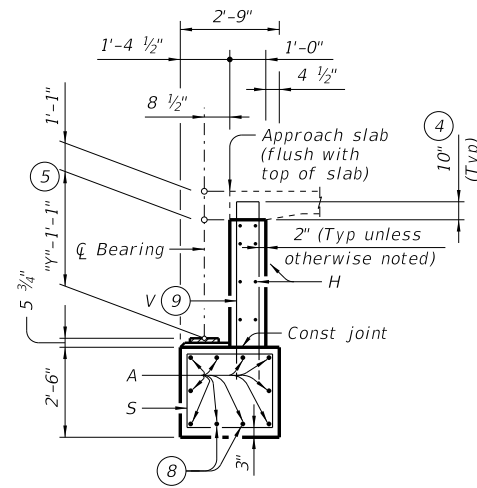
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PLAN 1

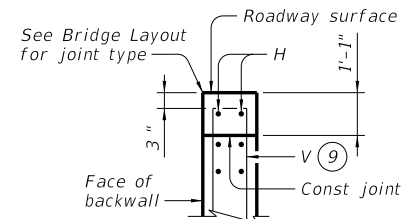


ELEVATION



SECTION A-A

(With approach slab) 6



BACKWALL DETAIL

(Without approach slab) 6

TABLE A			
Header Slope	Beam Type	Wingwall Type	Wingwall length "WL"
2:1	W18	Cantilevered	6.000'
	W21	Cantilevered	7.000'
	W24	Cantilevered	8.000'
	W27	Cantilevered	8.000'
	W30	Cantilevered	8.000'
	W33	Cantilevered	9.000'
3:1	W36	Cantilevered	9.000'
	W40	Cantilevered	10.000'
	W18	Cantilevered	9.000'
	W21	Cantilevered	10.000'
	W24	Cantilevered	11.000'
	W27	Cantilevered	12.000'
	W30	Cantilevered	12.000'
	W33	Founded	13.000'
W36	Founded	14.000'	
W40	Founded	15.000'	

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. See Bridge Layout for beam type, header slope, and foundation type, size, and length. See Common Foundation Details (FD) standard sheet for all foundation details and notes. See Concrete Riprap (CRR) standard sheet or Stone Riprap (SRR) standard sheet for riprap attachment details, if applicable. See Standard Erection and Bracing Requirements (SBBR) standard sheet for location and size of anchor bolt required for erection bracing. See applicable rail details for rail anchorage in wingwalls. These abutment details may be used with standard SSB-30 only.

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

- See Table A for variable dimensions based on header slope and beam type.
- See Table A to determine if wingwall foundations are required.
- For piling larger than 16", adjust Bars S spacing as required to avoid piling.
- Increase as required to maintain 3" from finished grade.
- See Steel Beam Standard Design (SBSD-30) standard for "Y" value.
- See Bridge Layout to determine if approach slab is present.
- Use 2 spaces at 12" Max for W18 through W24 beams and 3 spaces at 12" Max for W27 beams and larger.
- With pile foundations, replace Bars A located at bottom centerline of cap with 2 ~ #11 x 8'-0" (per bay) placed between piling groups. Deduct 159 lbs total from reinforcing steel total.
- Field bend as needed to clear piles.

HL93 LOADING

SHEET 1 OF 3

		Bridge Division Standard	
<h2>ABUTMENTS</h2> <h3>STEEL BEAM SPANS</h3> <h3>30' ROADWAY</h3>			
<h2>ASB-30</h2>			
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2:1 HEADER SLOPE

**TABLE OF ESTIMATED QUANTITIES (11)
(W18 BEAMS)**

Bar	No.	Size	Length	Weight	
A (8)	10	#11	31' - 0"	1,647	
H	6	#6	31' - 8"	285	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	9' - 11"	321	
wH1	14	#6	7' - 1"	149	
wH2	16	#6	5' - 8"	136	
wS	14	#4	7' - 10"	73	
wV	14	#5	9' - 11"	145	
Reinforcing Steel				Lb	3,283
				CY	13.3

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)	10	#11	31' - 0"	1,647	
H	6	#6	31' - 8"	285	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	10' - 7"	342	
wH1	14	#6	8' - 1"	170	
wH2	16	#6	6' - 8"	160	
wS	16	#4	7' - 10"	84	
wV	16	#5	10' - 7"	177	
Reinforcing Steel				Lb	3,392
				CY	14.4

**TABLE OF ESTIMATED QUANTITIES (11)
(W24 BEAMS)**

Bar	No.	Size	Length	Weight	
(8)	10	#11	31' - 0"	1,647	
H	6	#6	31' - 8"	285	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	11' - 2"	361	
wH1	14	#6	9' - 1"	191	
wH2	16	#6	7' - 8"	184	
wS	18	#4	7' - 10"	94	
wV	18	#5	11' - 2"	210	
Reinforcing Steel				Lb	3,499
				CY	15.6

**TABLE OF ESTIMATED QUANTITIES (11)
(W27 BEAMS)**

Bar	No.	Size	Length	Weight	
A (8)	10	#11	31' - 0"	1,647	
H	8	#6	31' - 8"	381	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	11' - 7"	375	
wH1	14	#6	9' - 1"	191	
wH2	20	#6	7' - 8"	230	
wS	18	#4	7' - 10"	94	
wV	18	#5	11' - 7"	217	
Reinforcing Steel				Lb	3,662
				CY	15.9

**TABLE OF ESTIMATED QUANTITIES (11)
(W30 BEAMS)**

Bar	No.	Size	Length	Weight	
A (8)	10	#11	31' - 0"	1,647	
H	8	#6	31' - 8"	381	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	12' - 0"	388	
wH1	14	#6	9' - 1"	191	
wH2	20	#6	7' - 8"	230	
wS	18	#4	7' - 10"	94	
wV	18	#5	12' - 0"	225	
Reinforcing Steel				Lb	3,683
				CY	16.3

**TABLE OF ESTIMATED QUANTITIES (11)
(W33 BEAMS)**

Bar	No.	Size	Length	Weight	
A (8)	10	#11	31' - 0"	1,647	
H	8	#6	31' - 8"	381	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	12' - 7"	407	
wH1	14	#6	10' - 1"	212	
wH2	20	#6	8' - 8"	260	
wS	20	#4	7' - 10"	105	
wV	20	#5	12' - 7"	262	
Reinforcing Steel				Lb	3,801
				CY	17.5

**TABLE OF ESTIMATED QUANTITIES (11)
(W36 BEAMS)**

Bar	No.	Size	Length	Weight	
A (8)	10	#11	31' - 0"	1,647	
H	8	#6	31' - 8"	381	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	13' - 0"	420	
wH1	14	#6	10' - 1"	212	
Reinforcing Steel				Lb	
				CY	

**TABLE OF ESTIMATED QUANTITIES (11)
(W40 BEAMS)**

Bar	No.	Size	Length	Weight	
A (8)	10	#11	31' - 0"	1,647	
H	8	#6	31' - 8"	381	
L	18	#6	4' - 0"	108	
S (12)	36	#5	10' - 0"	375	
U	4	#6	7' - 3"	44	
V	31	#5	13' - 5"	434	
wH1	14	#6	11' - 1"	2	
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

TABLE OF ESTIMATED QUANTITIES (11)

Bar	No.	Size	Length	Weight	
(8)					
(12)					
Reinforcing Steel				Lb	
				CY	

(8)

(11)

(12)

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Bridge Division Standard

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