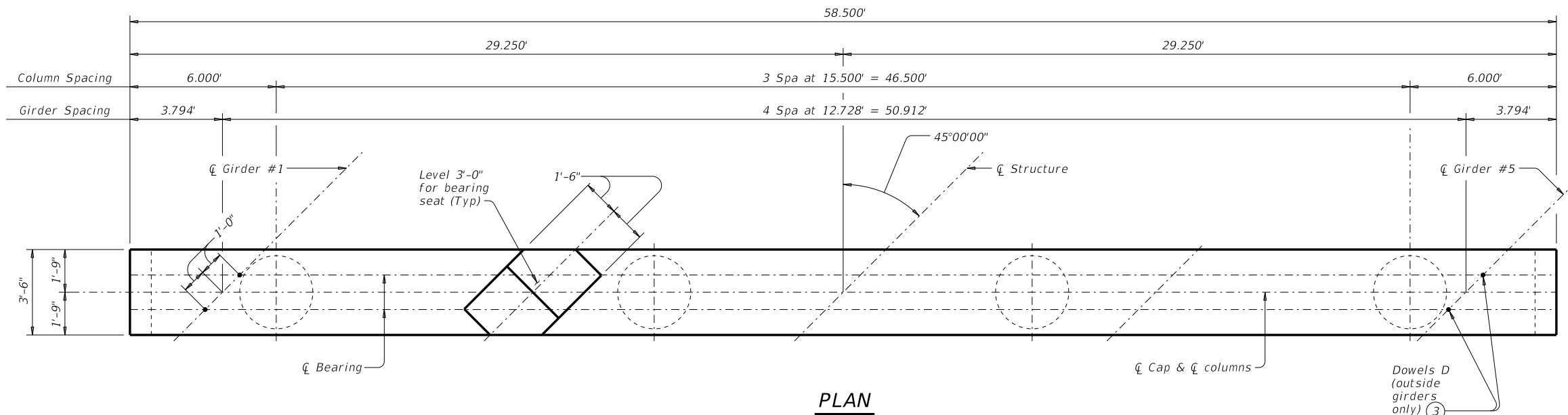
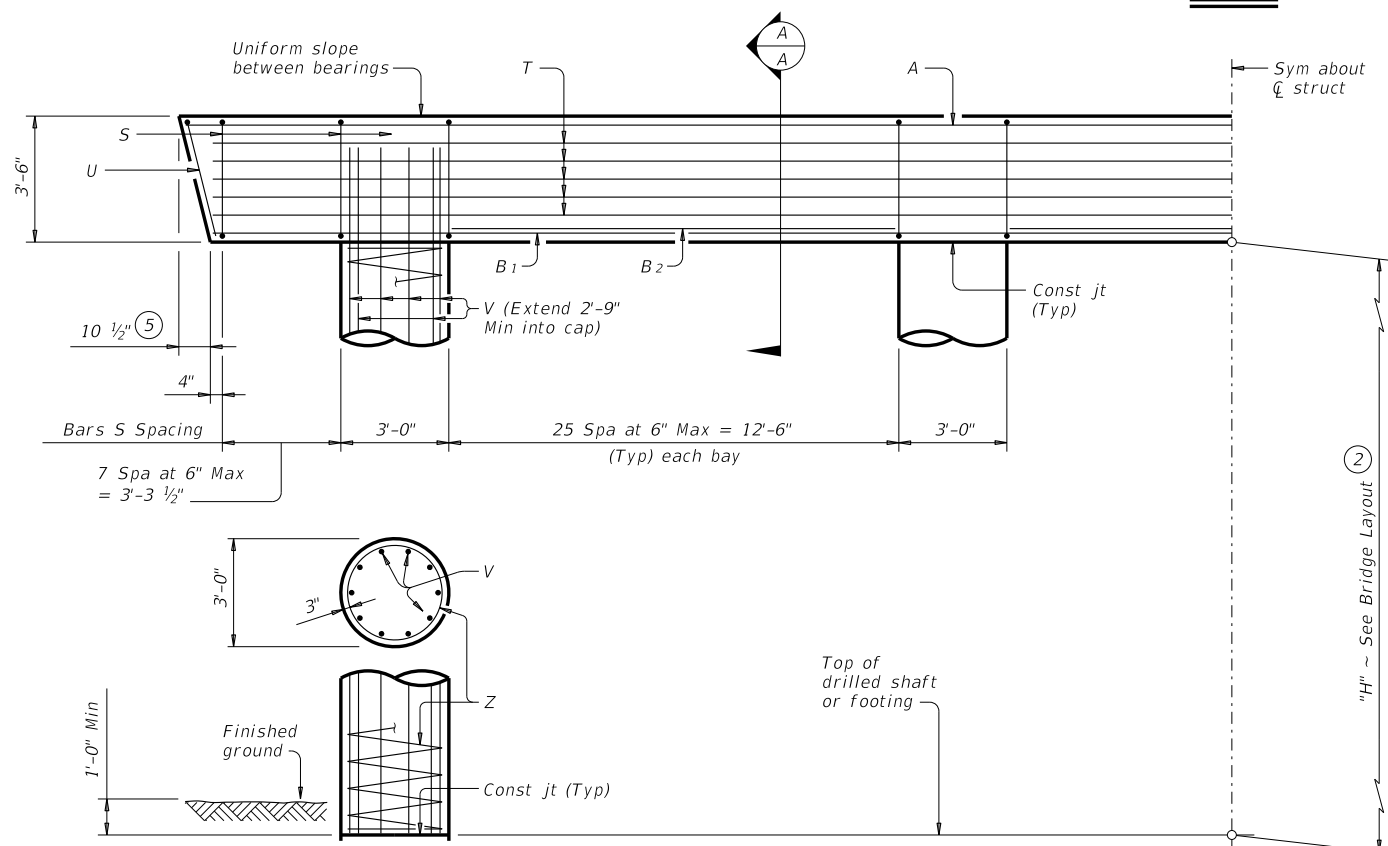


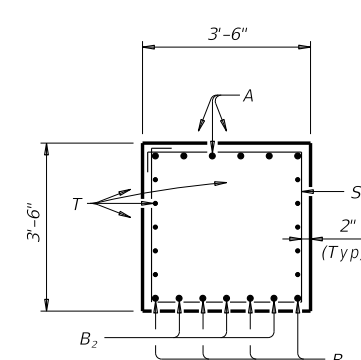
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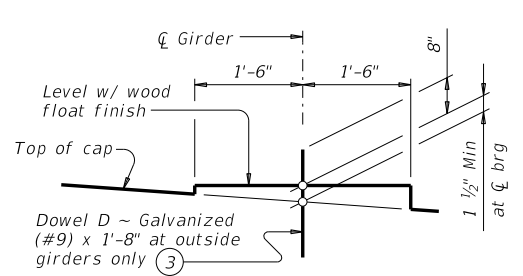
PLAN



HALF ELEVATION



SECTION A-A



BEARING SEAT DETAIL

(Bearing surface must be clean and free of all loose material before placing bearing pad.)

Bar	No.	Size	Length	Weight	
A	6	#11	58'- 0"	1,849	
B ₁	4	#11	56'- 6"	1,201	
B ₂	9	#11	12'- 6"	598	
D (3)	4	#9	1'- 8"	23	
S	94	#5	13'- 8"	1,340	
T	10	#5	56'- 6"	589	
U	2	#5	9'- 8"	20	
V	40	#9	38'- 9"	5,270	
Z	4	#4	1,154'- 7"	3,085	
Reinforcing Steel				Lb	13,975
Class "C" Concrete (Cap)				CY	26.4
Class "C" Concrete (Col)				CY	37.7

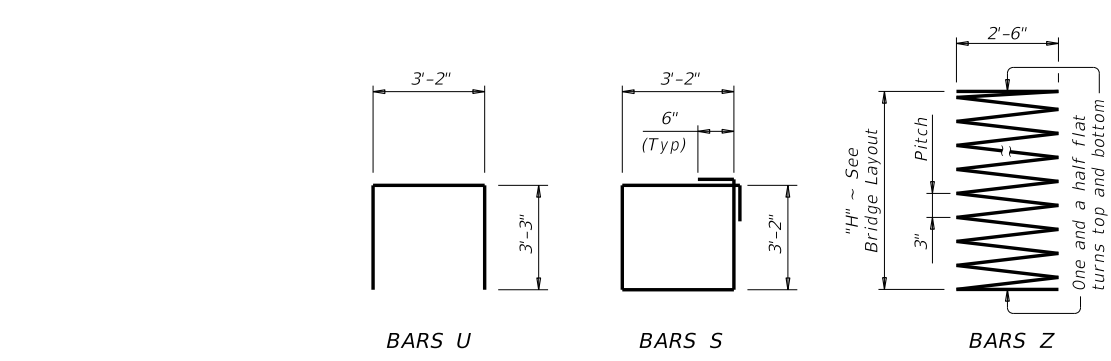
Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)		
		3 Pile Ftg	4 Pile Ftg	5 Pile Ftg
Ft	Tons/Shaft			
40	110	40	31	25
45	118	43	33	27
50	126	45	35	28
55	134	48	37	30
60	142	51	39	32
65	149	53	40	33
70	157	56	42	35
75	165	58	44	36
80	172	61	46	38
85	180	63	48	39
90	187	66	50	41
95	195	68	52	42
100	203	71	54	44
105	210	73	56	45
110	218	76	58	47
115	225	78	59	48
120	233	81	61	50

GENERAL NOTES:
 Designed according to AASHTO LRFD Bridge Design Specifications.
 See Bridge Layout for foundation type, size and length.
 See Common Foundation Details (FD) standard sheet for all foundation details and notes.
 See Shear Key (IGSK) standard sheet for all shear key details and notes, if applicable.
 Bent selected must be based on the average span length rounded up to the next 5 ft increment.
 Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.
 These bent details may be used with standard SIG-40-45 only.

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

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.
 Galvanize dowel bars D.

HL93 LOADING



- Quantities shown are based on an "H" value of 36'. For each linear foot variation in "H" value, make the following adjustments:
 Bars V length, 1'-0"
 Bars Z length, 31'-5"
 Reinforcing steel, 220 Lb
 Class "C" conc (col), 1.05 CY
- This standard may not be used for "H" heights exceeding 36'. In areas of very soft soil or where scour is anticipated, allowable "H" heights must be evaluated by the Engineer prior to the use of this standard.
- Omit Dowels D at end of multi-span units. Adjust reinforcing steel total accordingly.
- Foundation Loads based on "H" = 36'.
- Measured parallel to top of cap cross-slope.

		Bridge Division Standard	
INTERIOR BENTS TYPE TX28 THRU TX54 PRESTR CONC I-GIRDERS 40' ROADWAY 45° SKEW BIG-40-45			
FILE: IG-BIG4045-17.dgn	DN: TAR	CK: SDB	DW: JTR
©TxDOT August 2017	CONT	SECT	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.

DATE: FILE: