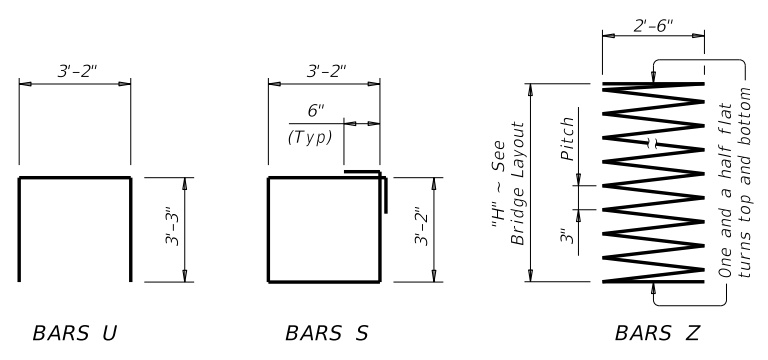
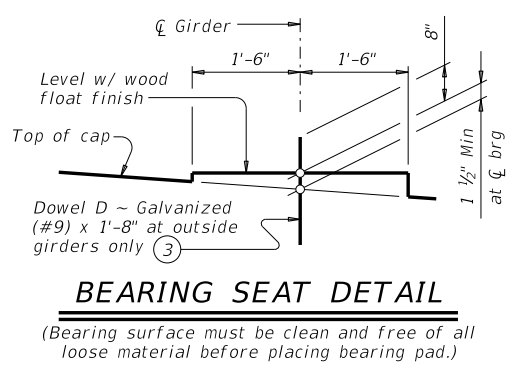
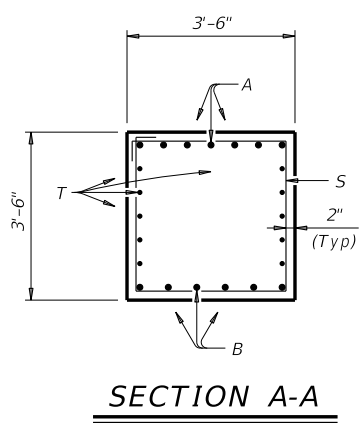
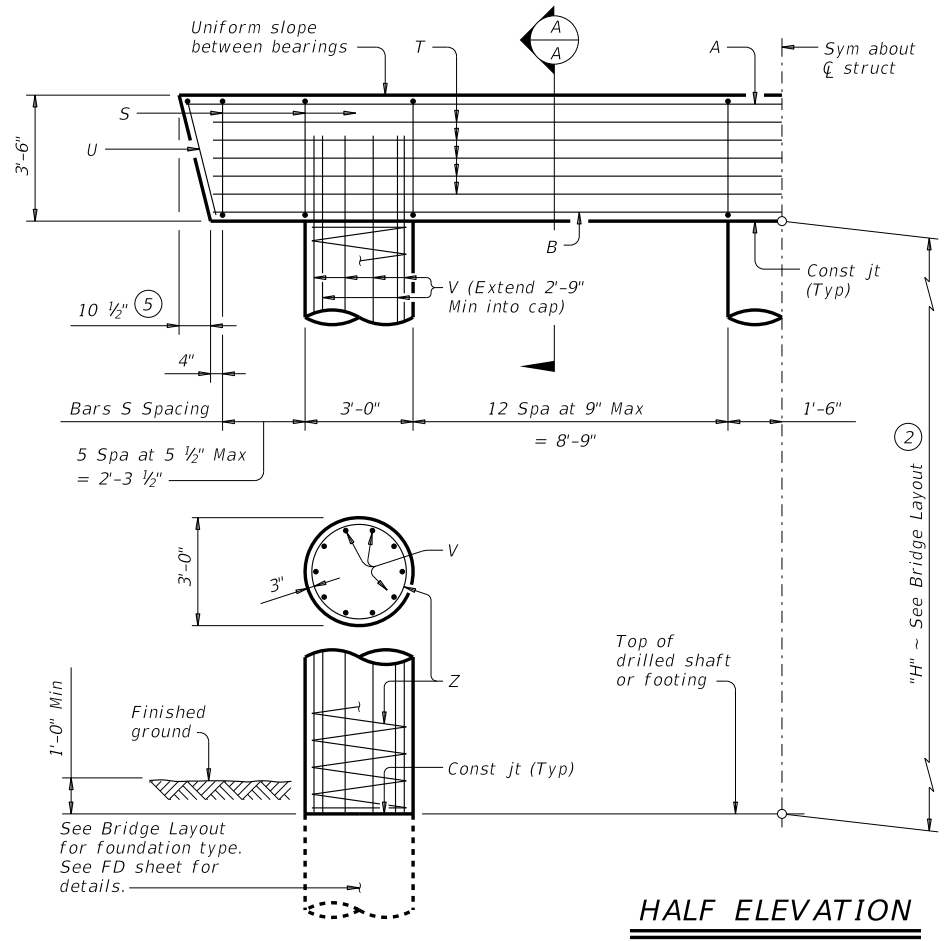
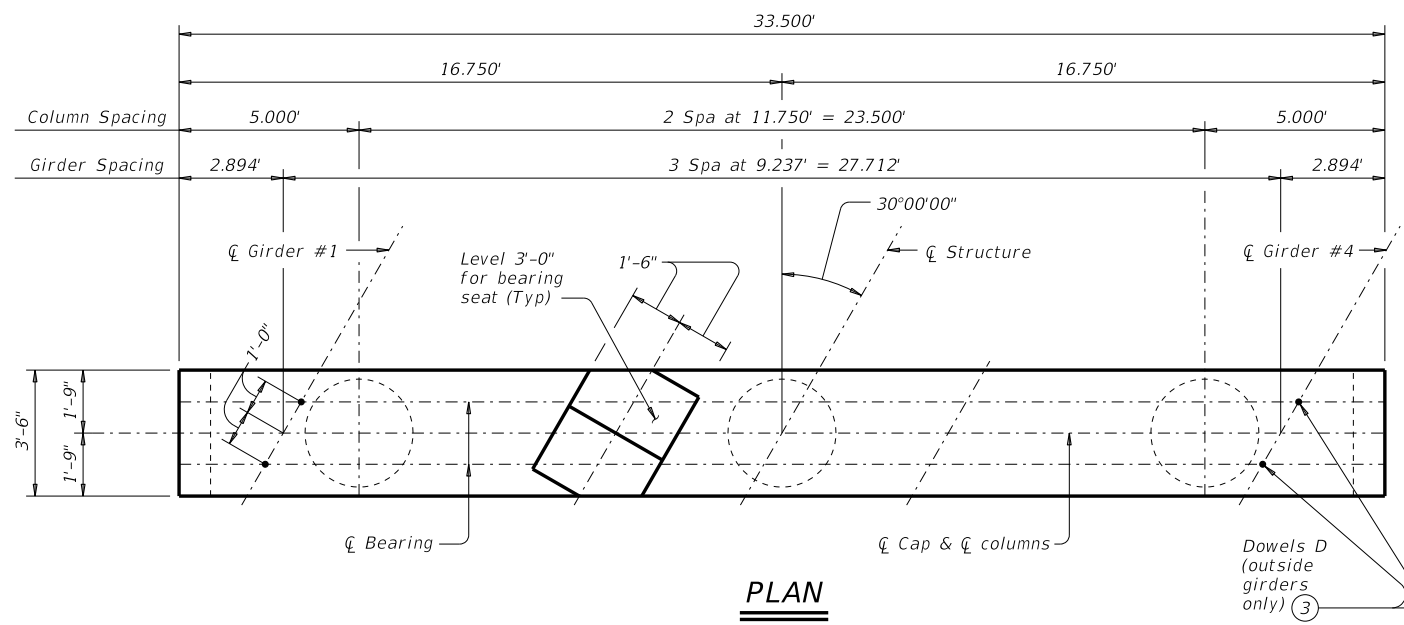


DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:



- 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, 165 Lb
 Class "C" conc (col), 0.78 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.

TABLE OF ESTIMATED QUANTITIES (1)

Bar	No.	Size	Length	Weight
A	7	#11	33'- 0"	1,227
B	6	#11	31'- 6"	1,004
D (3)	4	#9	1'- 8"	23
S	38	#5	13'- 8"	542
T	10	#5	31'- 6"	329
U	2	#5	9'- 8"	20
V	30	#9	38'- 9"	3,953
Z	3	#4	1,154'- 7"	2,314
Reinforcing Steel			Lb	9,412
Class "C" Concrete (Cap)			CY	15.0
Class "C" Concrete (Col)			CY	28.3

FOUNDATION LOADS (4)

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	150	53	41	33
70	158	56	43	35
75	166	59	45	36
80	174	61	47	38
85	182	64	49	40
90	189	66	50	41
95	197	69	52	43
100	205	72	54	44
105	213	74	56	46
110	221	77	58	47
115	228	79	60	49
120	236	82	62	50
125	244	85	64	52

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 Details (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-28-30 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

Texas Department of Transportation
 Bridge Division Standard

INTERIOR BENTS
 TYPE TX28 THRU TX54
 PRESTR CONC I-GIRDERS
 28' ROADWAY 30° SKEW

BIG-28-30

FILE: big07sts-17.dgn	DN: TAR	CK: SDB	DW: JTR	CK: TAR
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REVISIONS		DIST	COUNTY	SHEET NO.