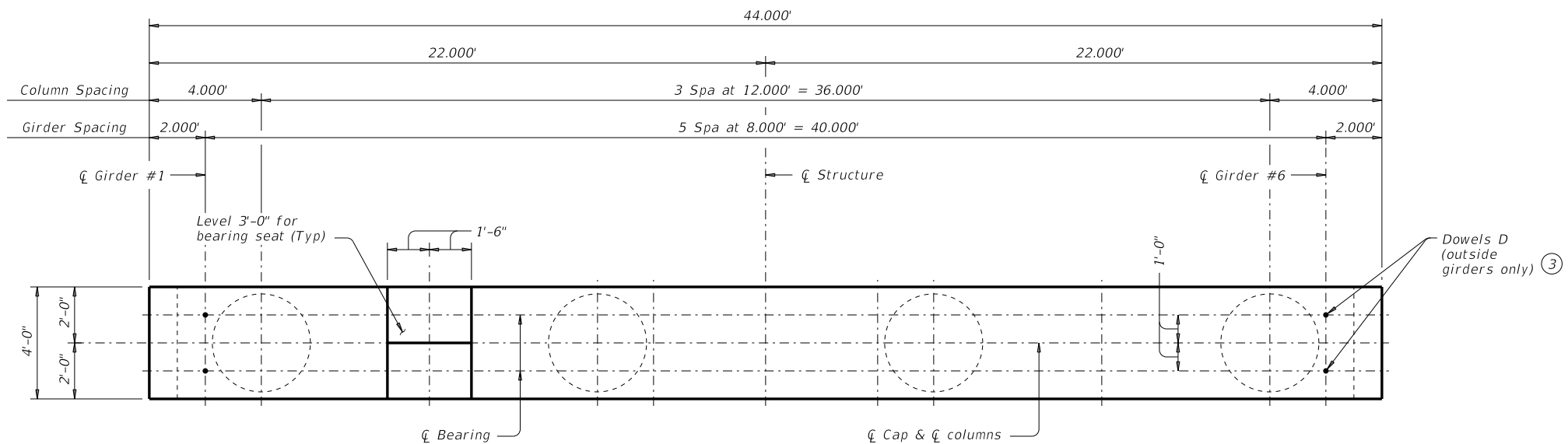
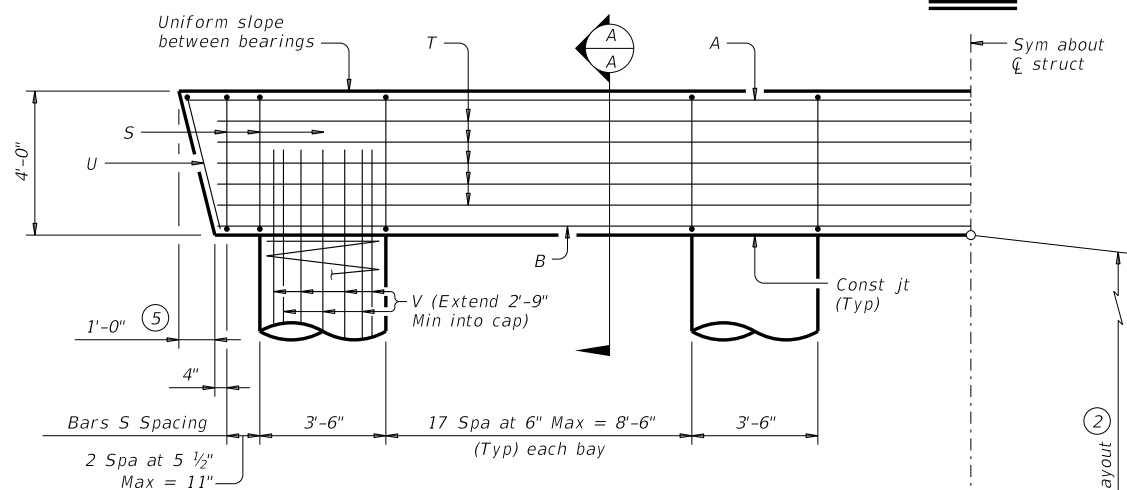


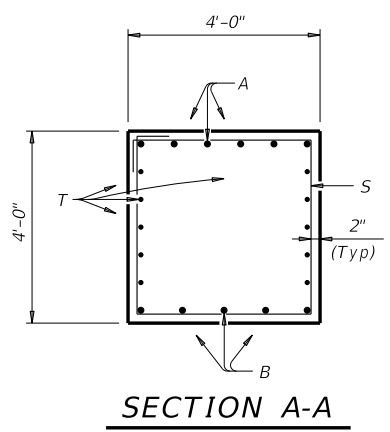
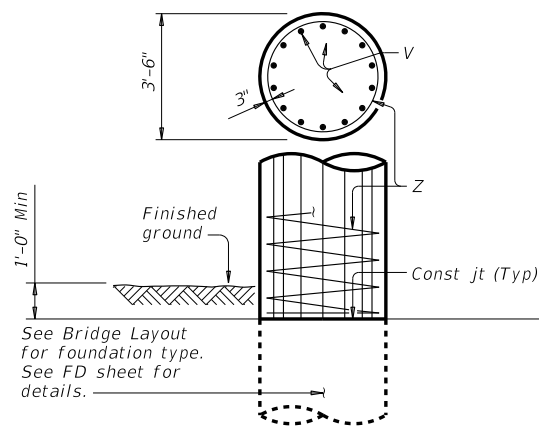
DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



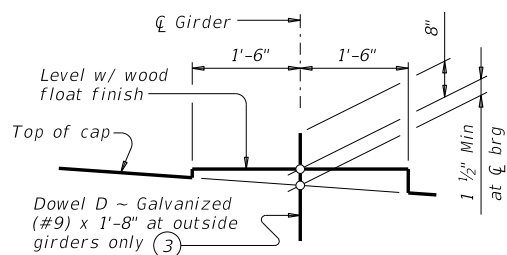
**PLAN**



**HALF ELEVATION**

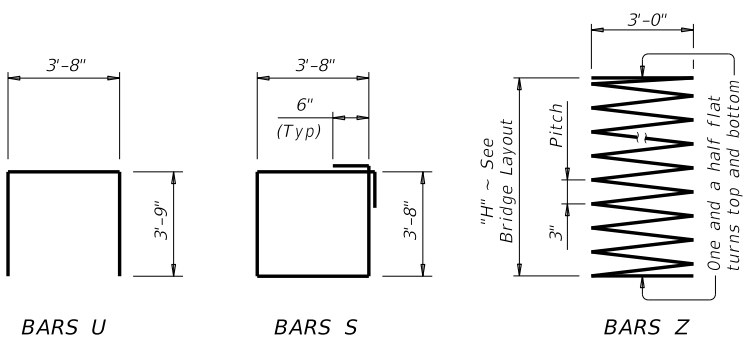


**SECTION A-A**



**BEARING SEAT DETAIL**

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



**TABLE OF ESTIMATED QUANTITIES (1)**

Bar	No.	Size	Length	Weight	
A	6	#11	43'- 6"	1,387	
B	5	#11	41'- 9"	1,109	
D (3)	4	#9	1'- 8"	23	
S	60	#5	15'- 8"	980	
T	10	#5	41'- 9"	435	
U	2	#5	11'- 2"	23	
V	56	#9	38'- 9"	7,378	
Z	4	#4	1,387'- 3"	3,707	
Reinforcing Steel				Lb	15,042
Class "C" Concrete (Cap)				CY	25.8
Class "C" Concrete (Col)				CY	51.3

**FOUNDATION LOADS (4)**

Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)	
		4 Pile Ftg	5 Pile Ftg
Ft	Tons/Shaft		
60	163	44	36
65	172	46	38
70	181	48	39
75	190	51	41
80	198	53	43
85	207	55	45
90	216	57	46
95	225	59	48
100	234	62	50
105	242	64	52
110	251	66	53
115	260	68	55
120	269	70	57
125	277	72	59
130	286	75	60
135	295	77	62

- (1) 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, 37'-9"  
 Reinforcing steel, 291 Lb  
 Class "C" conc (col), 1.43 CY
- (2) 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.
- (3) Omit Dowels D at end of multi-span units. Adjust reinforcing steel total accordingly.
- (4) Foundation Loads based on "H" = 36'.
- (5) Measured parallel to top of cap cross-slope.

**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.  
 These bent details may be used with standard SIG-62-44 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

		<b>Bridge Division Standard</b>	
<b>INTERIOR BENTS</b> <b>TYPE TX62</b> <b>PRESTR CONC I-GIRDERS</b> <b>44' ROADWAY</b> <b>BIG-62-44</b>			
FILE: IG-BIG624400-17.dgn	DN: TAR	CK: SDB	DW: JTR
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REVISIONS	COUNTY		SHEET NO.

DATE: FILE: