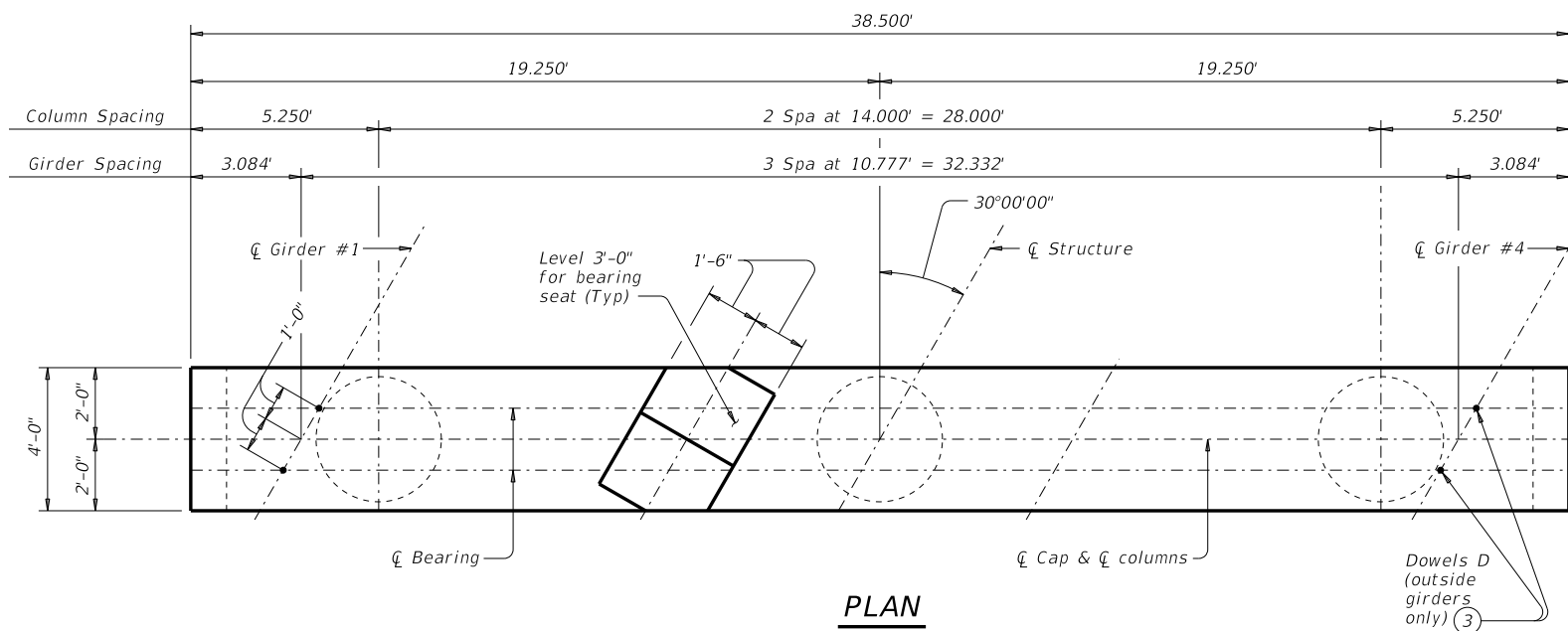
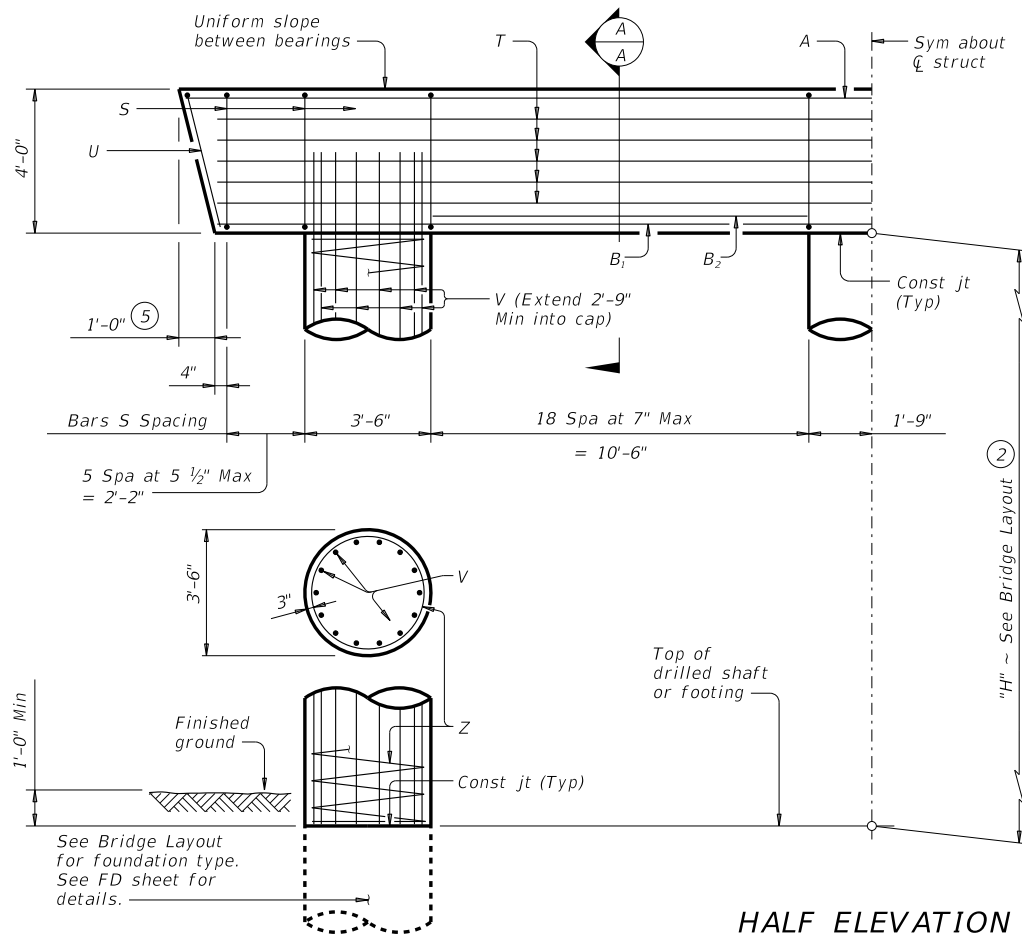


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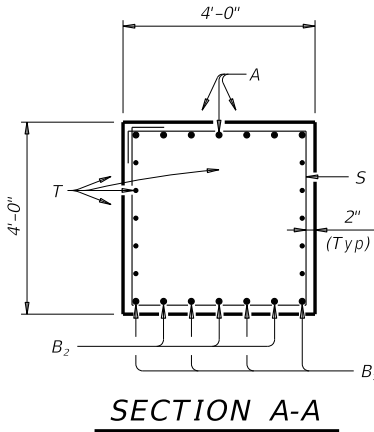
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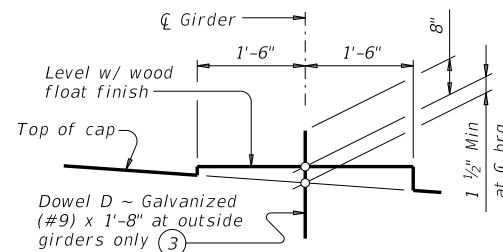
**PLAN**



**HALF ELEVATION**

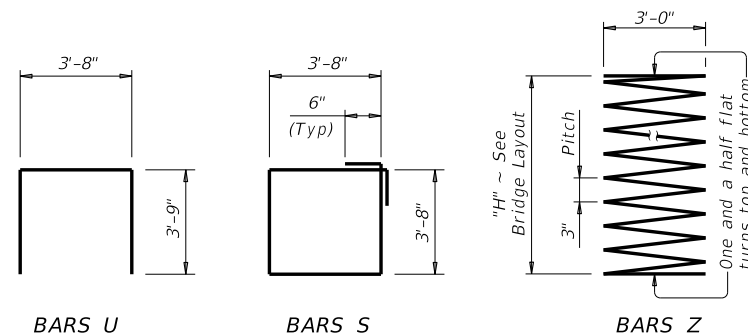


**SECTION A-A**



**BEARING SEAT DETAIL**

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



- 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, 219 Lb  
 Class "C" conc (col), 1.07 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.

**TABLE OF ESTIMATED QUANTITIES ①**

Bar	No.	Size	Length	Weight	
A	7	#11	38'- 0"	1,413	
B <sub>1</sub>	4	#11	36'- 3"	771	
B <sub>2</sub>	6	#11	10'- 6"	335	
D ③	4	#9	1'- 8"	23	
S	50	#5	15'- 8"	817	
T	10	#5	36'- 3"	378	
U	2	#5	11'- 2"	23	
V	42	#9	38'- 9"	5,534	
Z	3	#4	1,387'- 3"	2,780	
Reinforcing Steel				Lb	12,074
Class "C" Concrete (Cap)				CY	22.5
Class "C" Concrete (Col)				CY	38.5

**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	180	48	39
75	189	50	41
80	198	53	43
85	206	55	44
90	215	57	46
95	223	59	48
100	232	61	50
105	240	63	51
110	249	65	53
115	257	67	55
120	266	70	56
125	274	72	58
130	283	74	60

**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-62-32-30 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**

**INTERIOR BENTS**  
**TYPE TX62**  
**PRESTR CONC I-GIRDERS**  
**32' ROADWAY 30° SKEW**  
**BIG-62-32-30**

FILE: IG-BIG623230-17.dgn	DN: TAR	CK: SDB	DW: JTR	CK: TAR
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REVISIONS	DIST	COUNTY	SHEET NO.	