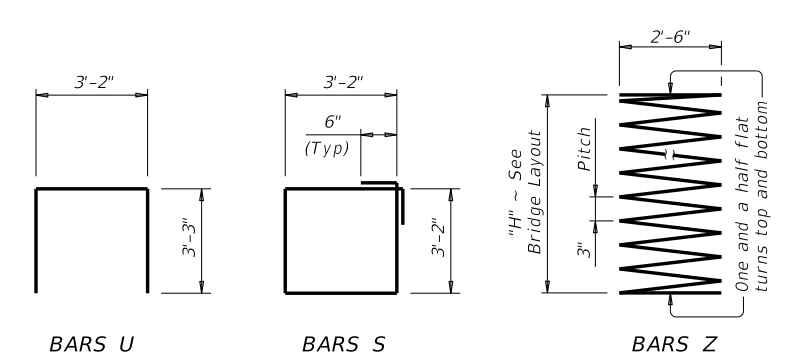
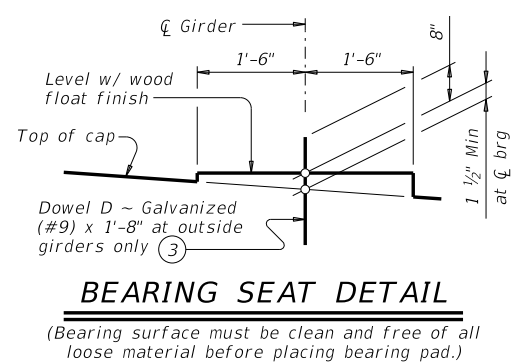
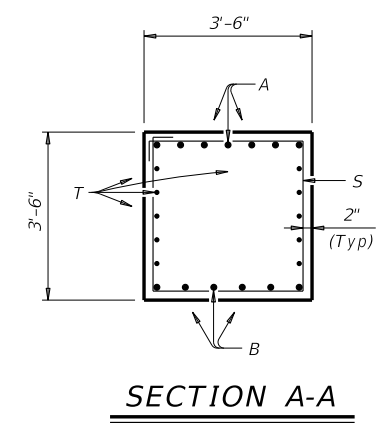
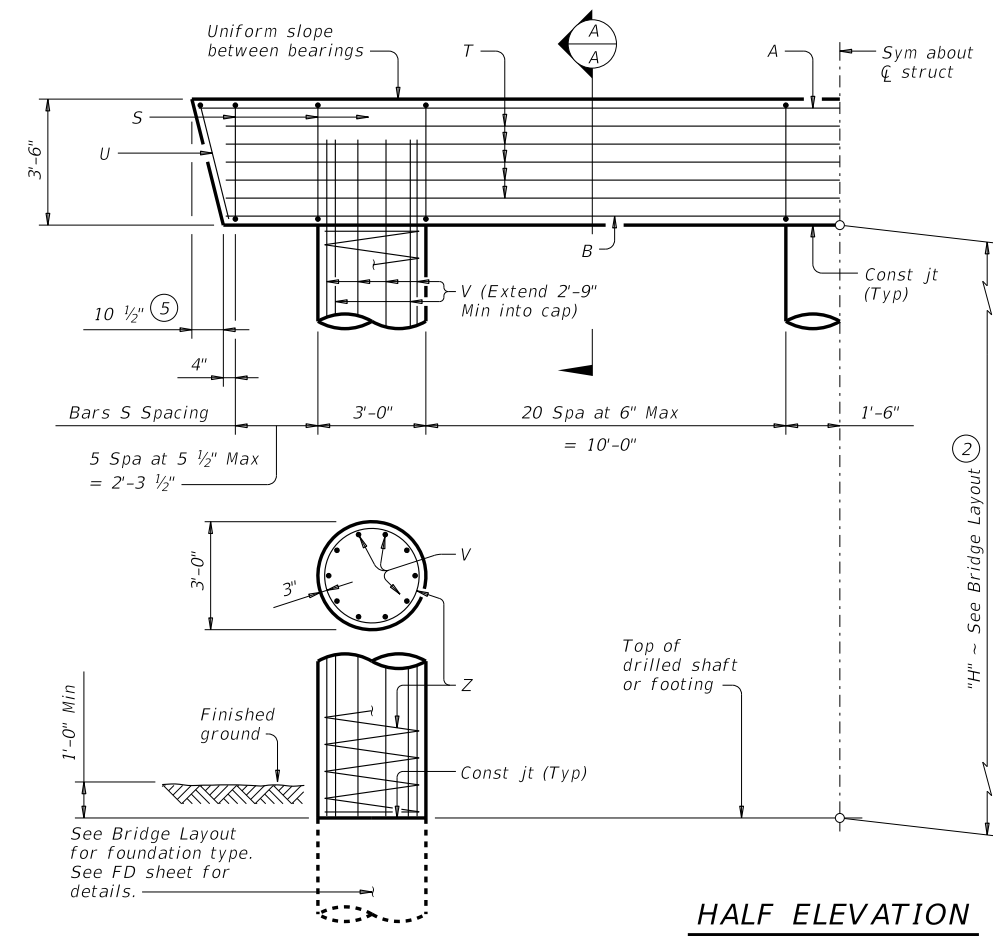
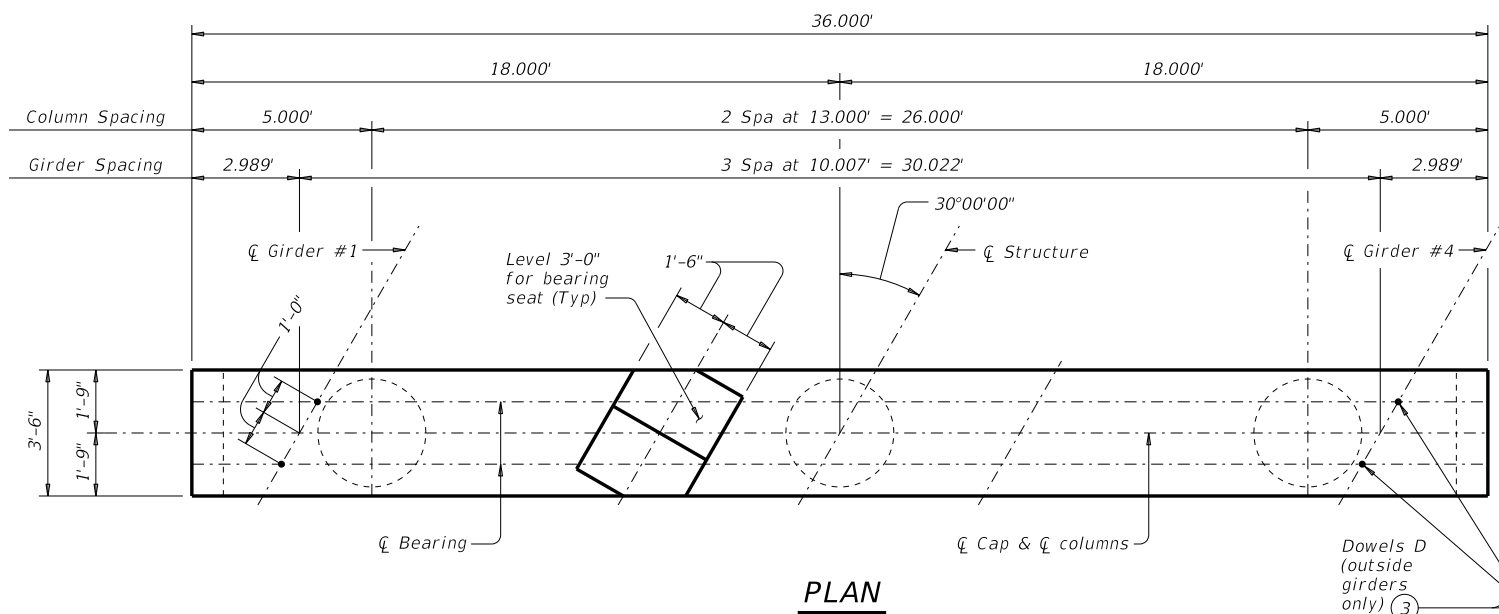


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DATE: FILE:



- 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	35'- 6"	1,320	
B	6	#11	34'- 0"	1,084	
D (3)	4	#9	1'- 8"	23	
S	54	#5	13'- 8"	770	
T	10	#5	34'- 0"	355	
U	2	#5	9'- 8"	20	
V	30	#9	38'- 9"	3,953	
Z	3	#4	1,154'- 7"	2,314	
Reinforcing Steel				Lb	9,839
Class "C" Concrete (Cap)				CY	16.1
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	112	41	31	26
45	121	44	33	27
50	129	46	35	29
55	137	49	37	31
60	145	52	39	32
65	154	55	42	34
70	162	57	44	36
75	170	60	46	37
80	178	63	48	39
85	186	65	50	40
90	194	68	52	42
95	202	71	54	44
100	210	73	56	45
105	218	76	58	47
110	226	79	60	48
115	234	81	62	50
120	242	84	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-30-30 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  
 30' ROADWAY 30° SKEW

**BIG-30-30**

FILE: IG-BIG3030-17.dgn	DN: TAR	CK: SDB	DW: JTR	CK: TAR
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REVISIONS	DIST	COUNTY	SHEET NO.	