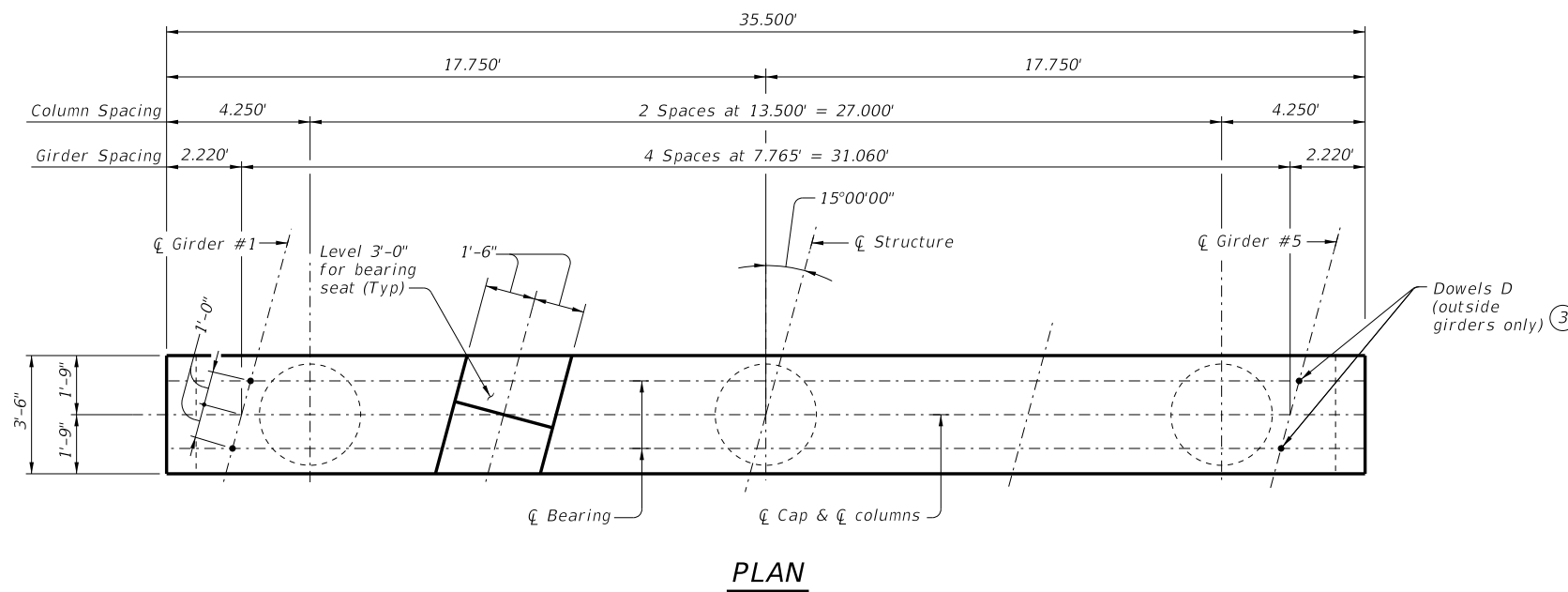
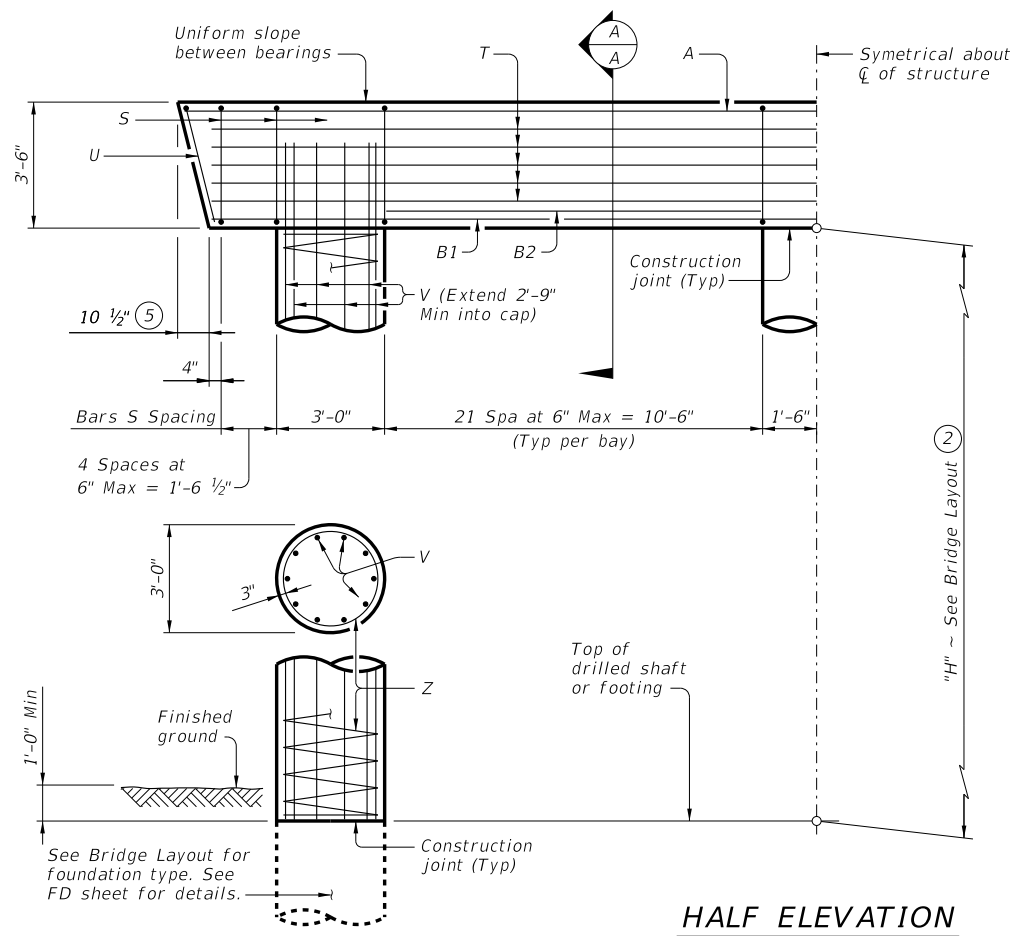


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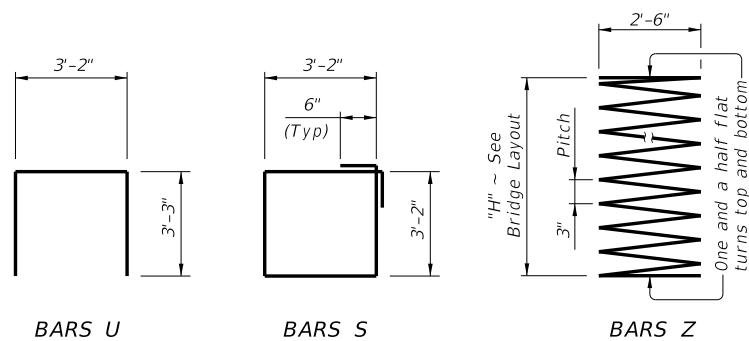
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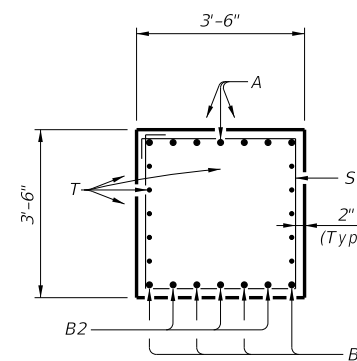
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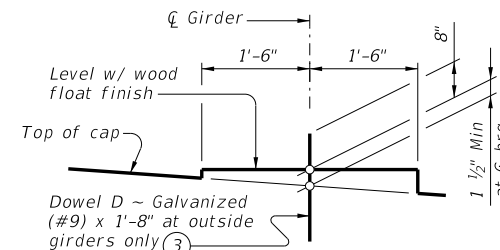
HALF ELEVATION



- 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, 31'-5"
 Reinforcing steel, 165 Lb
 Class "C" conc (col), 0.78 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.



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	7	#11	35'-0"	1,302	
B1	4	#11	33'-6"	712	
B2	6	#11	10'-6"	335	
D ③	4	#9	1'-8"	23	
S	54	#5	13'-8"	770	
T	10	#5	33'-6"	349	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	9,778
Class "C" Concrete (Cap)				CY	16.0
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	122	44	34	28
45	131	47	36	29
50	141	50	38	31
55	150	53	41	33
60	160	57	43	35
65	169	60	45	37
70	178	63	48	39
75	187	66	50	41
80	197	69	52	43
85	206	72	55	44
90	215	75	57	46
95	224	78	59	48
100	233	81	61	50
105	243	84	64	52
110	252	87	66	54
115	261	90	68	55
120	270	93	71	57
125	279	96	73	59

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.

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-34-15 only.

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

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

INTERIOR BENTS
TYPE TX28 THRU TX54
PRESTR CONC I-GIRDERS
34' ROADWAY 15° SKEW

BIG-34-15

FILE: IG-BIG3415-23.dgn	DN: TAR	CK: VC	DW: SFS	CK: TAR
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REVISIONS		DIST		SHEET NO.