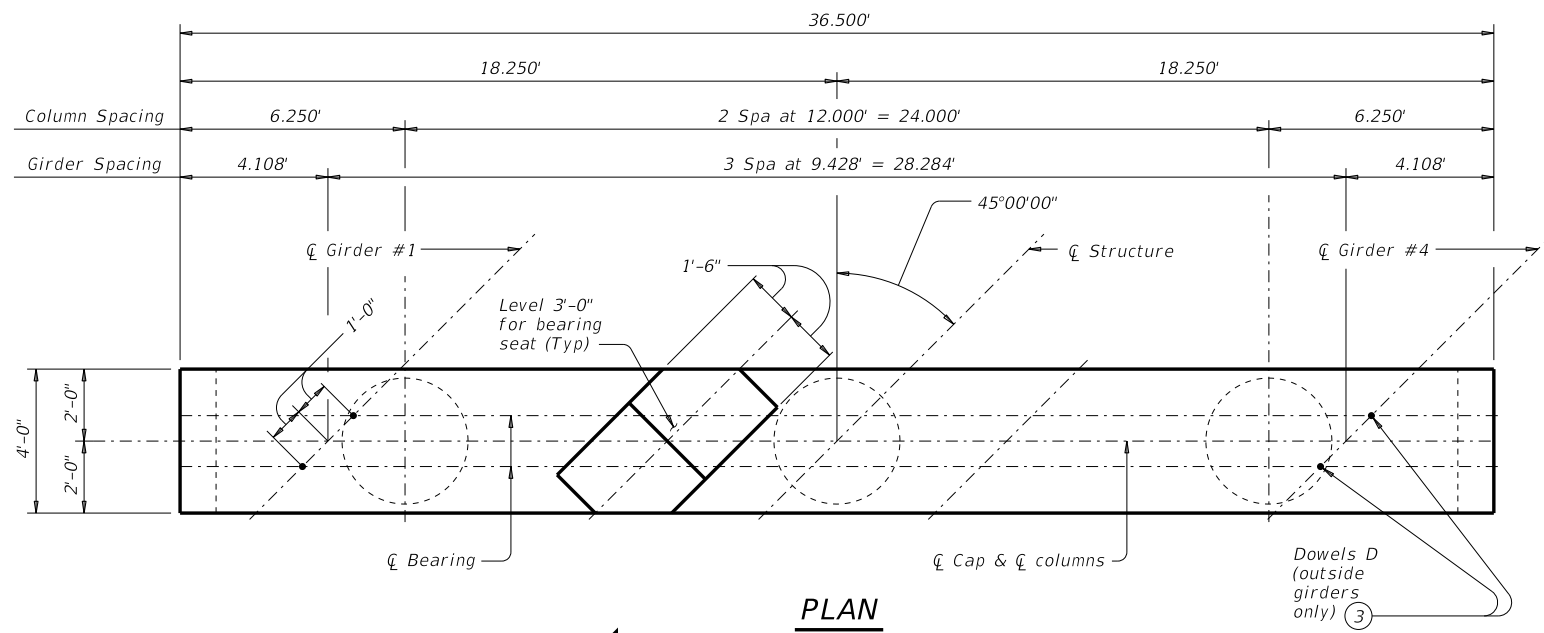
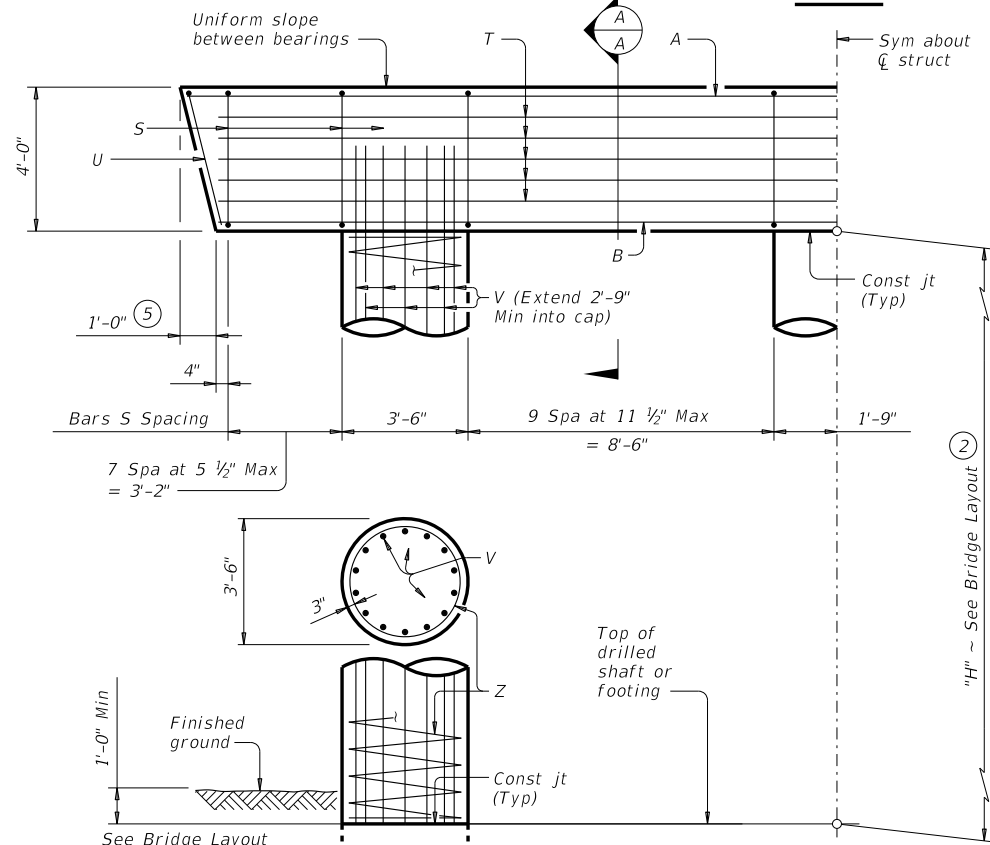


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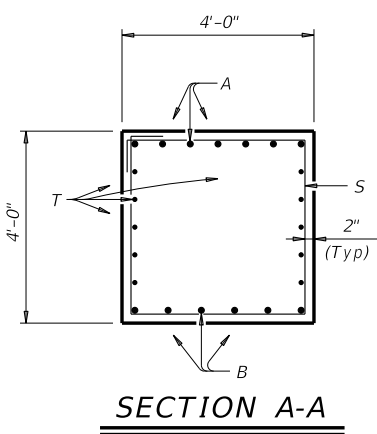
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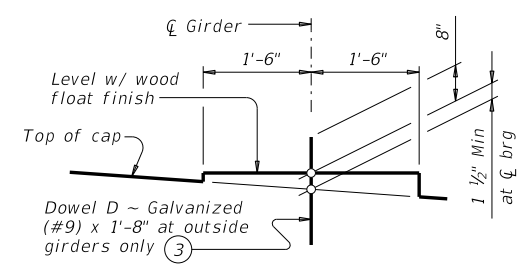
PLAN



HALF ELEVATION

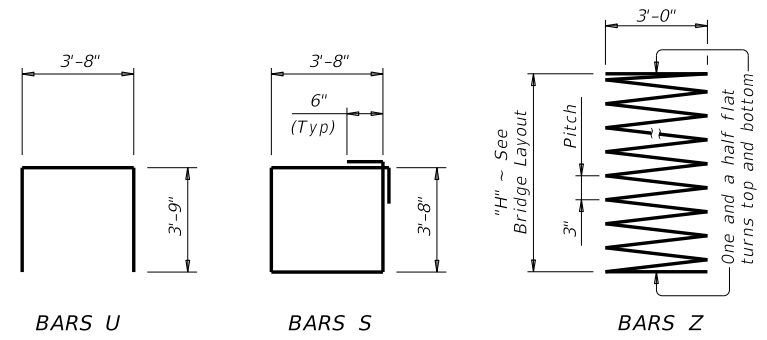


SECTION A-A



BEARING SEAT DETAIL

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



- 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
- 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	36'- 0"	1,339
B	6	#11	34'- 3"	1,092
D ③	4	#9	1'- 8"	23
S	36	#5	15'- 8"	588
T	10	#5	34'- 3"	357
U	2	#5	11'- 2"	23
V	42	#9	38'- 9"	5,534
Z	3	#4	1,387'- 3"	2,780
Reinforcing Steel			Lb	11,736
Class "C" Concrete (Cap)			CY	21.4
Class "C" Concrete (Col)			CY	38.5

FOUNDATION LOADS ④			
Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)	
		Tons/Shaft	4 Pile Ftg
Ft			
60	153		41
65	160		43
70	168		45
75	176		47
80	184		49
85	192		51
90	199		53
95	207		55
100	215		57
105	222		59
110	230		61
115	238		63
120	246		65
125	253		66
130	261		68
135	269		70

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-62-24-45 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 TX62
 PRESTR CONC I-GIRDERS
 24' ROADWAY 45° SKEW**

BIG-62-24-45

FILE: big24sts-17.dgn	DN: TAR	CK: SDB	DW: JTR	CK: TAR
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REVISIONS	DIST	COUNTY	SHEET NO.	