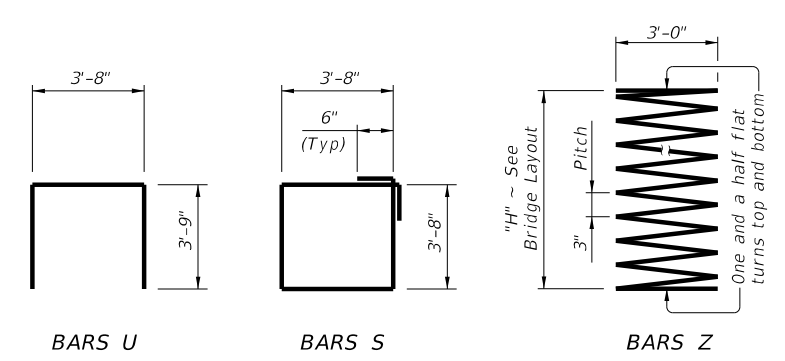
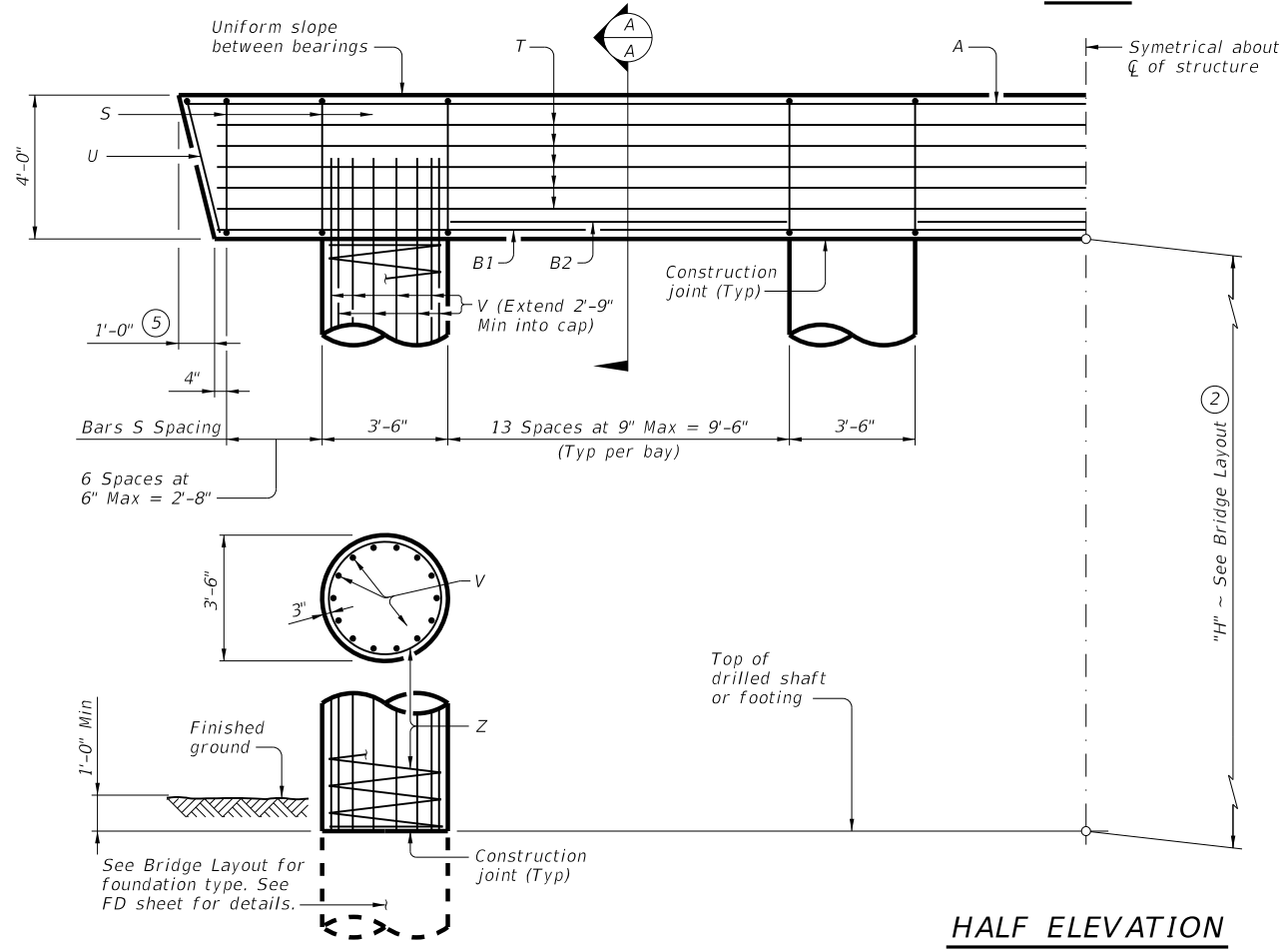
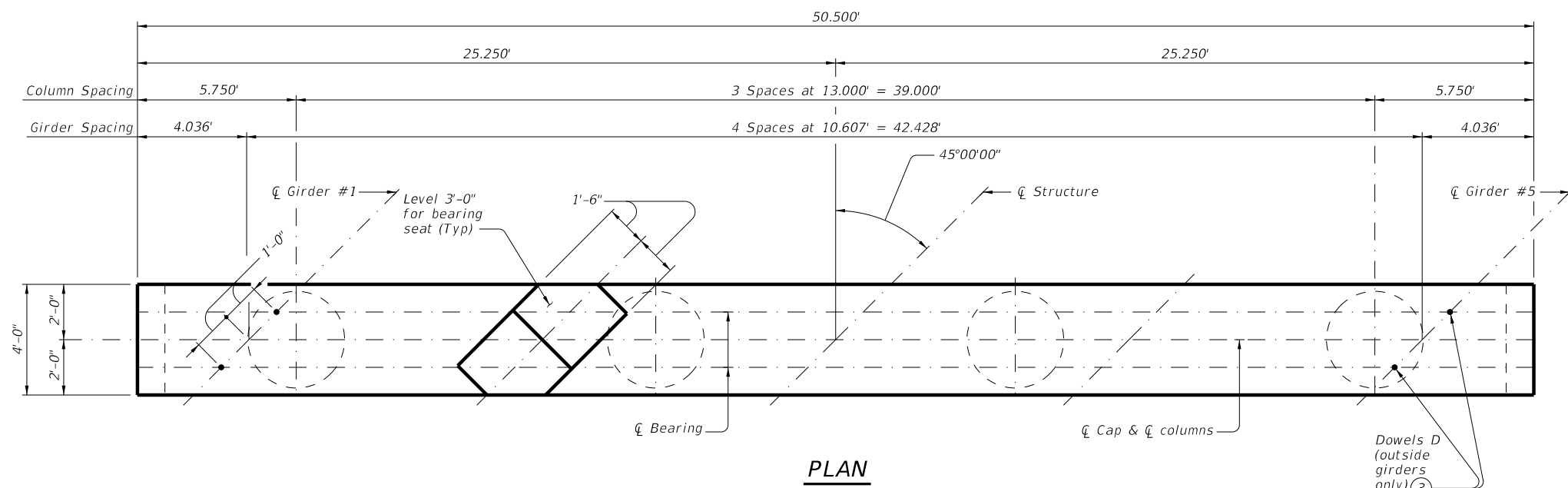


DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:



- 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.

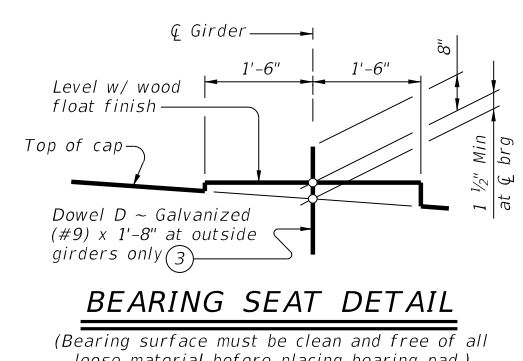
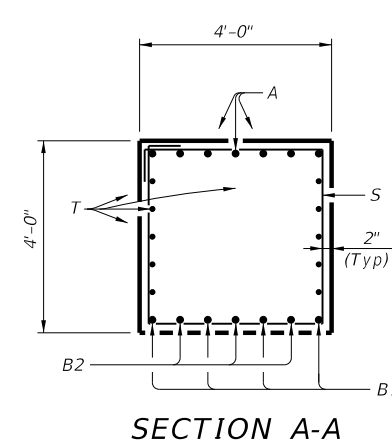


TABLE OF ESTIMATED QUANTITIES ①

Bar	No.	Size	Length	Weight	
A	7	#11	50'-6"	1,878	
B1	4	#11	48'-9"	1,036	
B2	4	#11	11'-0"	526	
D ③	9	#9	1'-8"	23	
S	56	#5	15'-8"	915	
T	10	#5	48'-9"	508	
U	2	#5	11'-2"	23	
V	56	#9	38'-9"	7,378	
Z	4	#4	1387'-3"	3,707	
Reinforcing Steel				Lb	15,994
Class "C" Concrete (Cap)				CY	29.6
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	142	39	32
65	149	40	33
70	156	42	34
75	164	44	36
80	171	46	37
85	178	48	39
90	185	49	40
95	193	51	42
100	200	53	43
105	207	55	45
110	214	57	46
115	221	58	47
120	229	60	49
125	236	62	50
130	243	64	52
135	250	66	53

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-62-34-45 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 TX62
 PRESTR CONC I-GIRDERS
 34' ROADWAY 45° SKEW

BIG-62-34-45

FILE: IG-BIG623445-24.dgn	DN: TAR	CK: VC	DW: SFS	CK: TAR
©TxDOT January 2023	CONT	SECT	JOB	HIGHWAY
REVISIONS				
05/2024: Updated FDN loads.	DIST	COUNTY		SHEET NO.