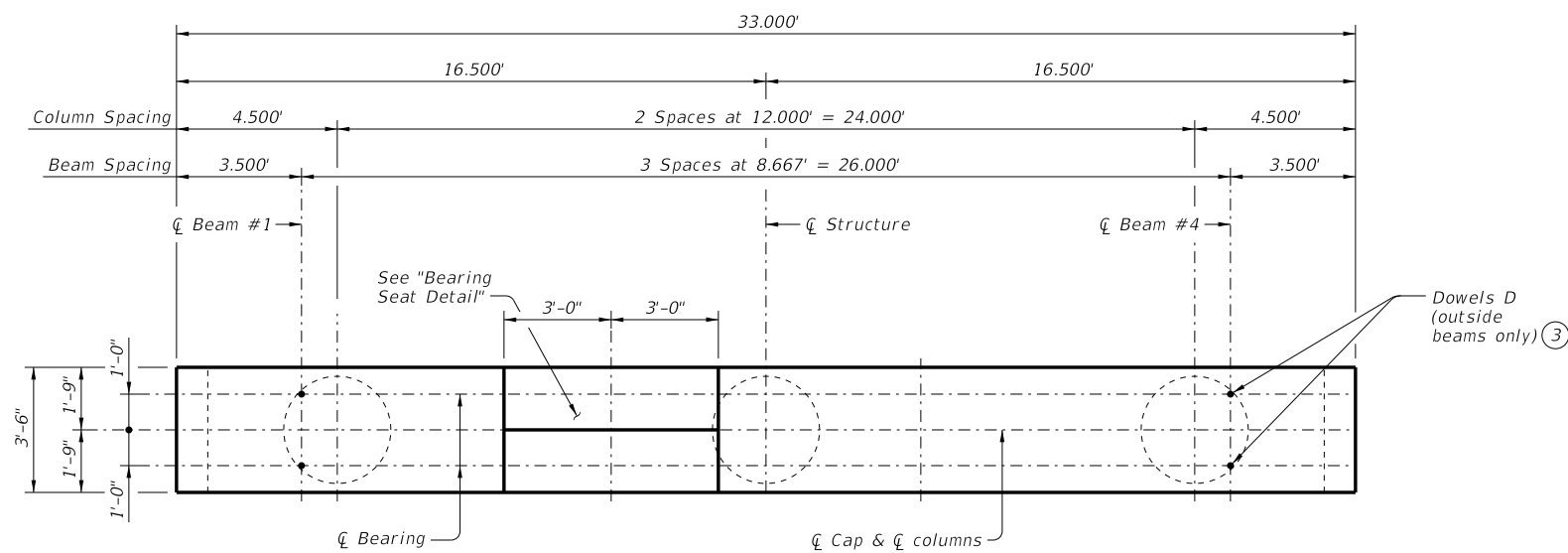
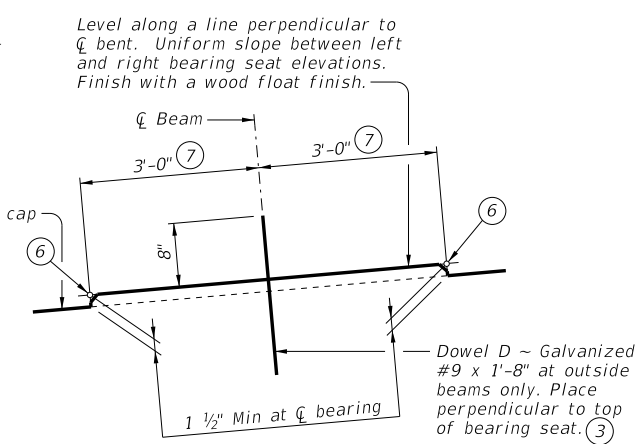
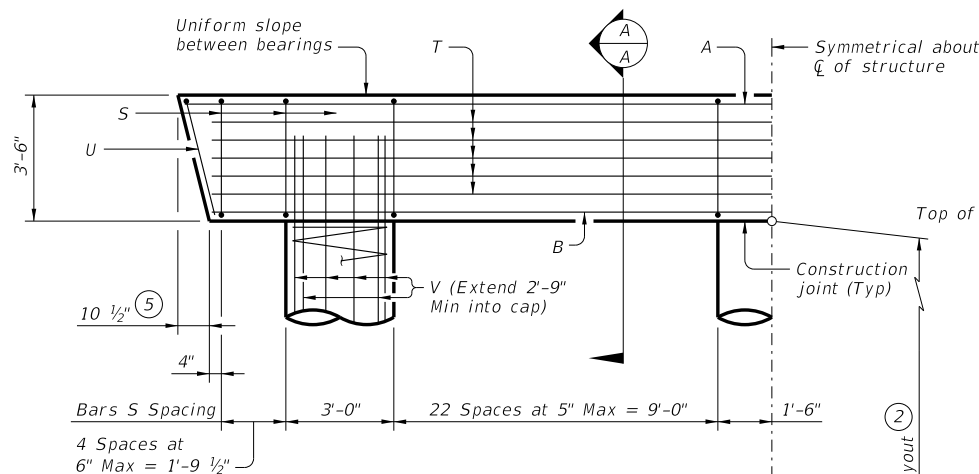


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:

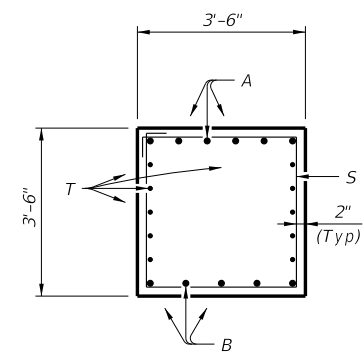


**PLAN**

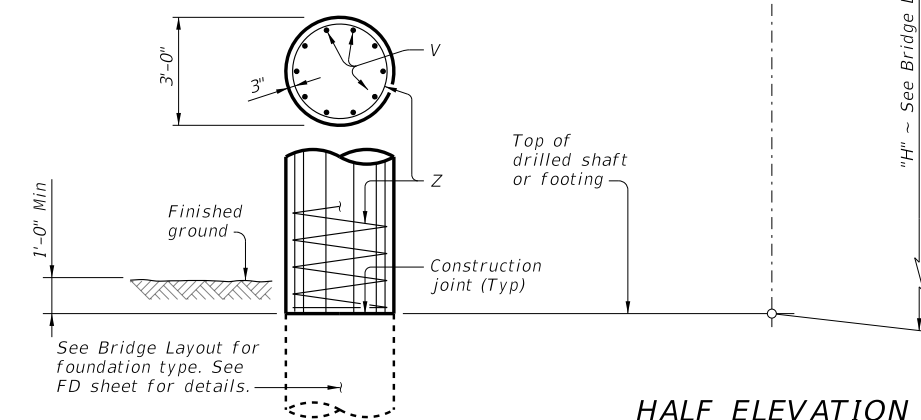


**BEARING SEAT DETAIL**

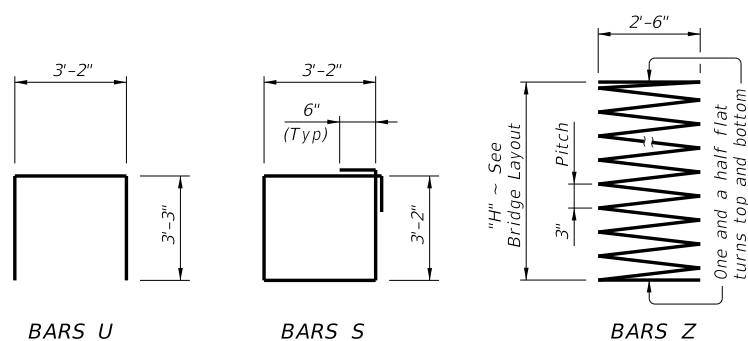
(Remove all loose material and clean bearing surface before placing the bearing pad.)



**SECTION A-A**



**HALF ELEVATION**



**TABLE OF ESTIMATED QUANTITIES ①**

Bar	No.	Size	Length	Weight	
A	6	#11	32'-6"	1,036	
B	5	#11	31'-0"	824	
D ③	4	#9	1'-8"	23	
S	56	#5	13'-8"	798	
T	10	#5	31'-0"	323	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	9,291
Class "C" Concrete (Cap)				CY	15.0
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	124	45	35	28
45	134	49	37	30
50	144	52	39	32
55	153	55	42	34
60	163	58	44	36
65	173	62	47	38
70	182	65	49	40
75	192	68	52	42
80	202	71	54	44
85	211	74	56	46
90	221	77	59	48
95	230	81	61	50
100	240	84	63	52
105	249	87	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 for all foundation details and notes.
- See Shear Key Details (XBSK) 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-foot increment.
- These bent details may be used with standard SXB-32 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**  
PRESTR CONC X-BEAMS  
(TYPE 5XB20 THROUGH 5XB40)  
32' ROADWAY  
**BXB-32**

FILE: XB-BXB3200-22.dgn	DN: BMP	CK: EFC	DW: JER	CK: BMP
©TxDOT August 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	

- 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 Concrete (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.
- ⑥ Right and left elevations and locations are provided elsewhere.
- ⑦ Measured along  $\phi$  of bearing.