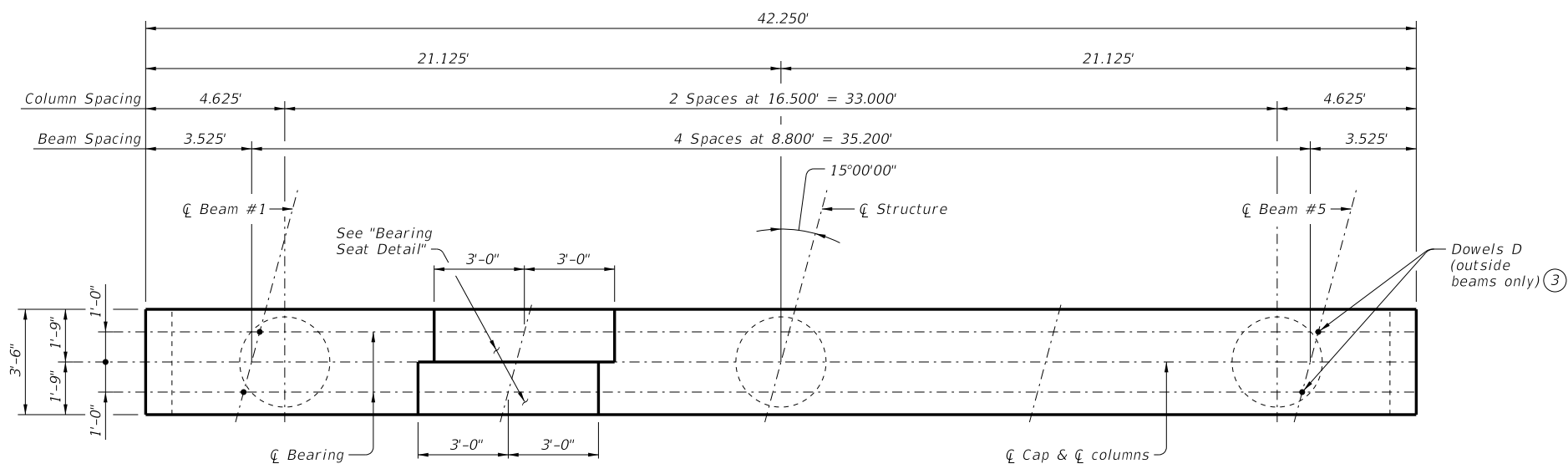
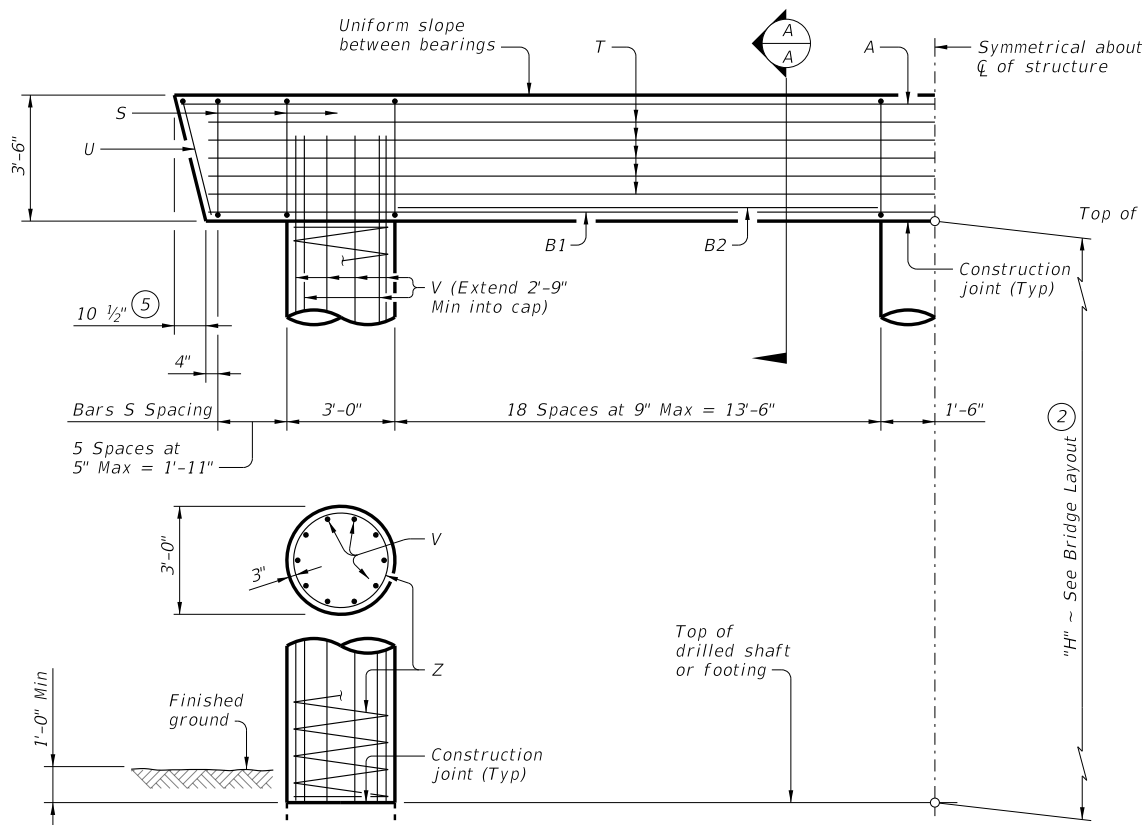


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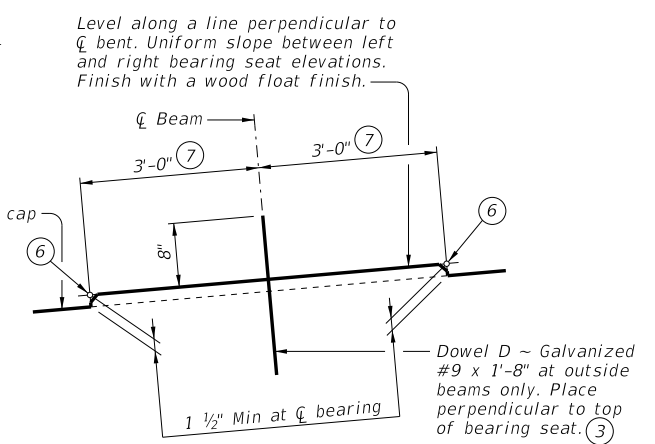
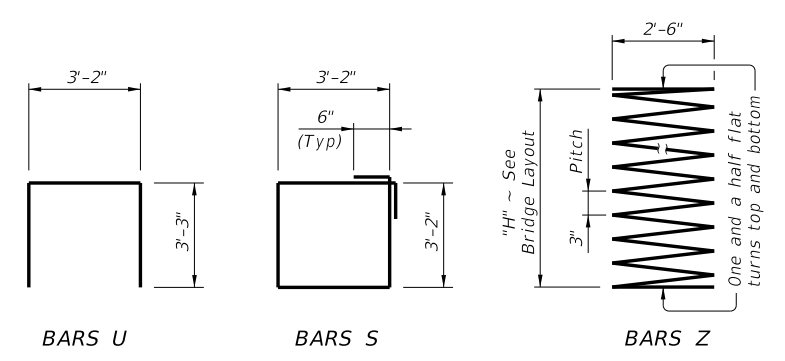
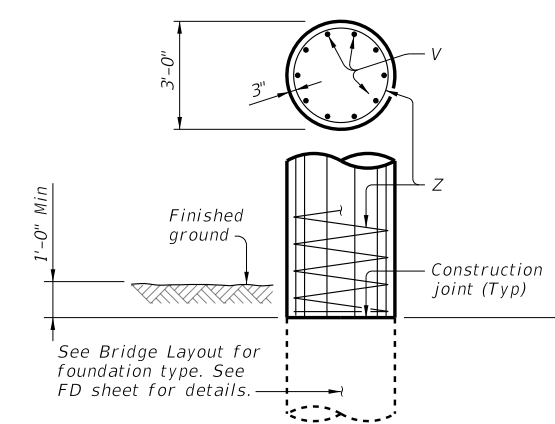
DATE: FILE:



**PLAN**



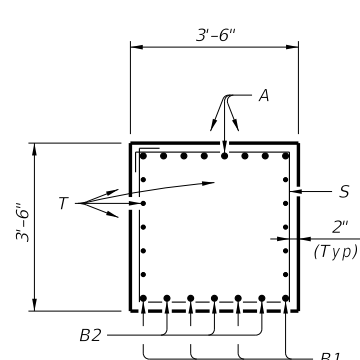
**HALF ELEVATION**



**BEARING SEAT DETAIL**

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

- 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 centerline of bearing.



**SECTION A-A**

TABLE OF ESTIMATED QUANTITIES ①					
Bar	No.	Size	Length	Weight	
A	8	#11	41'-9"	1,775	
B1	4	#11	40'-3"	855	
B2	6	#11	13'-6"	430	
D ③	4	#9	1'-8"	23	
S	50	#5	13'-8"	713	
T	10	#5	40'-3"	420	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	10,503
Class "C" Concrete (Cap)				CY	19.3
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	149	54	41	34
45	162	58	44	36
50	174	62	47	38
55	186	66	50	41
60	198	70	53	43
65	209	74	56	46
70	221	78	59	48
75	233	82	62	50
80	245	86	65	53
85	256	89	68	55
90	268	93	71	57
95	280	97	74	60
100	292	101	76	62
105	303	105	79	64

**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.  
 Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.  
 These bent details may be used with standard SXB-40-15 only.

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

**HL93 LOADING**

		<b>Bridge Division Standard</b>	
<b>INTERIOR BENTS</b> <b>PRESTR CONC X-BEAMS</b> (TYPE 5XB20 THROUGH 5XB40) <b>40' ROADWAY 15° SKEW</b> <b>BXB-40-15</b>			
FILE: XB-BXB4015-22.dgn	DN: BMP	CK: EFC	DW: JER
©TxDOT August 2022	CONT	SECT	JOB
REVISIONS		HIGHWAY	
DIST		COUNTY	
		SHEET NO.	