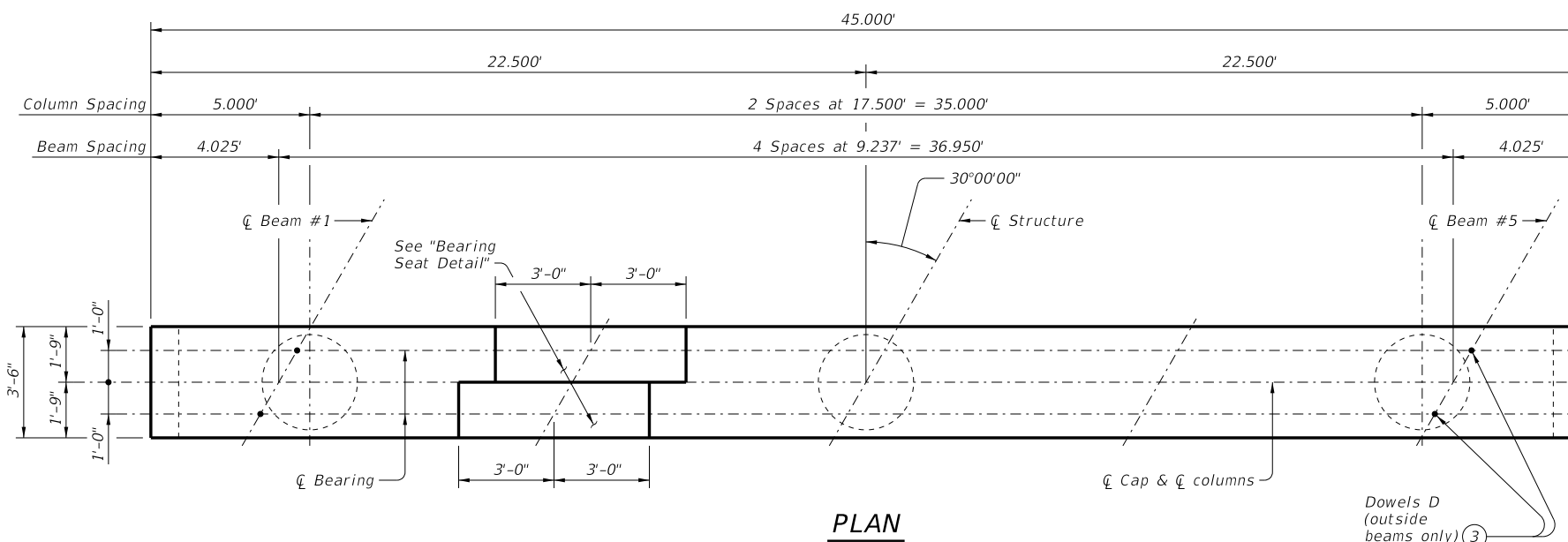
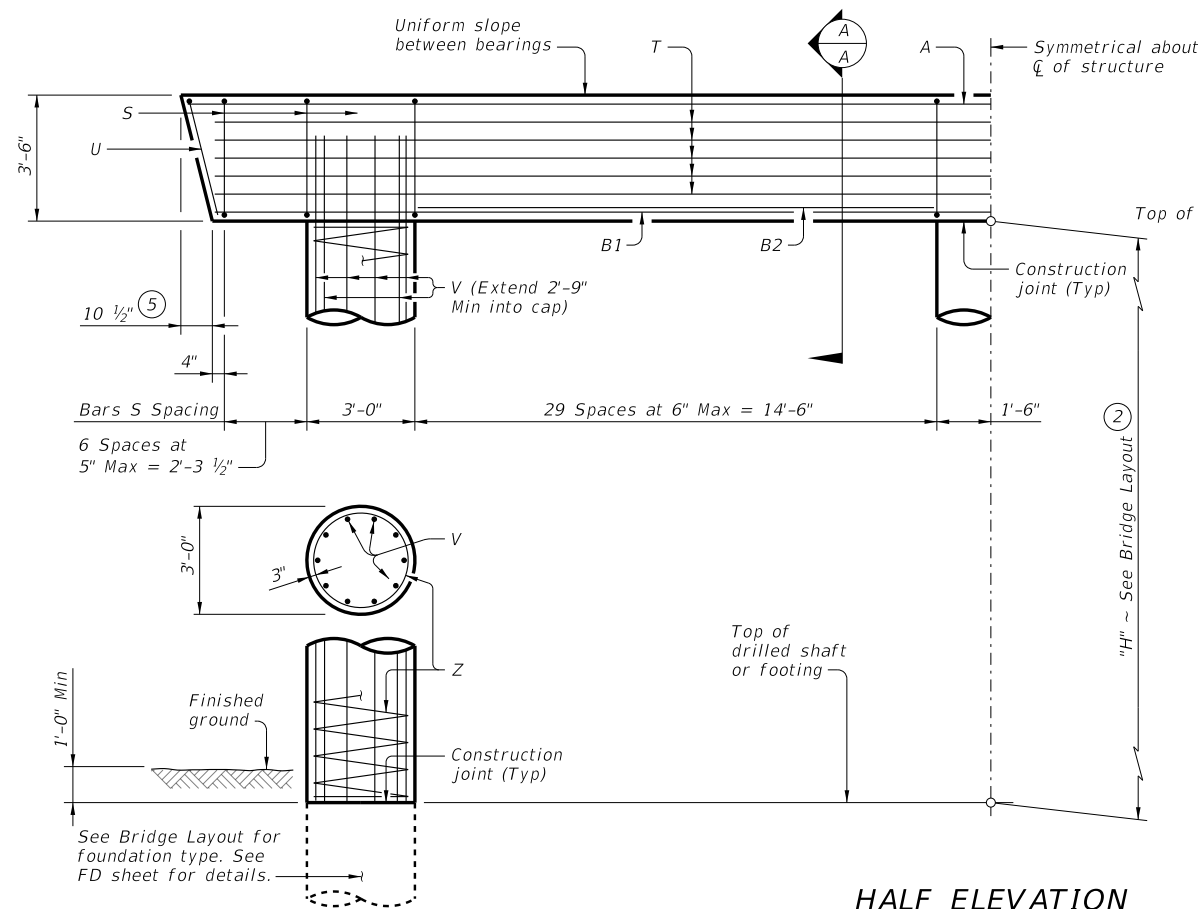


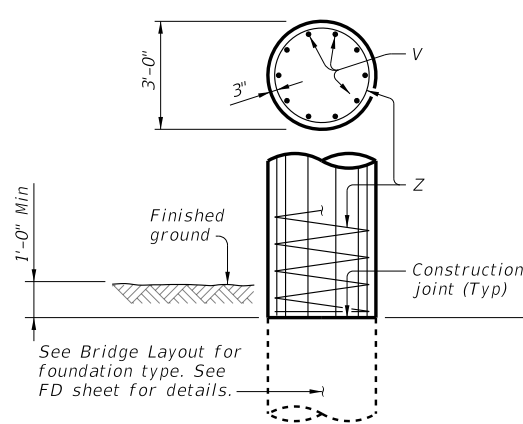
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



PLAN



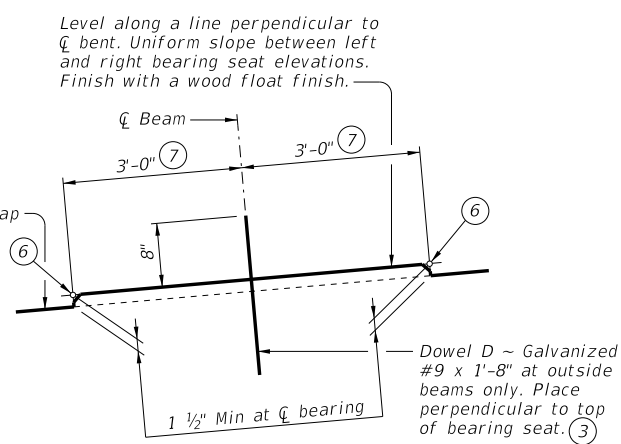
HALF ELEVATION



BARS U

BARS S

BARS Z



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.

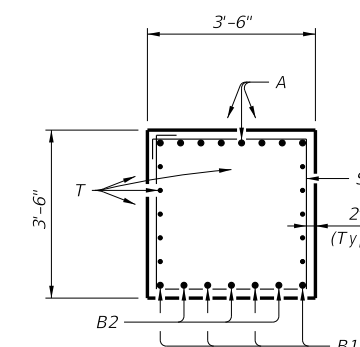
③ Omit Dowels D at end of multi-span units. Adjust reinforcing steel total accordingly.

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	44'-6"	1,891	
B1	4	#11	43'-0"	914	
B2	6	#11	14'-6"	462	
D ③	4	#9	1'-8"	23	
S	74	#5	13'-8"	1,055	
T	10	#5	43'-0"	448	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	11,080
Class "C" Concrete (Cap)				CY	20.5
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	33
45	161	58	44	36
50	173	61	47	38
55	184	65	50	41
60	196	69	53	43
65	208	73	55	45
70	219	77	58	48
75	231	81	61	50
80	242	85	64	52
85	254	89	67	54
90	266	92	70	57
95	277	96	73	59
100	288	100	76	61
105	300	104	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-38-30 only.

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

HL93 LOADING

		Bridge Division Standard	
INTERIOR BENTS PRESTR CONC X-BEAMS (TYPE 5XB20 THROUGH 5XB40) 38' ROADWAY 30° SKEW BXB-38-30			
FILE: XB-BXB3830-22.dgn	DN: BMP	CK: EFC	DW: JER
©TxDOT August 2022	CONT	SECT	JOB
REVISIONS	COUNTY		SHEET NO.

DATE: FILE: