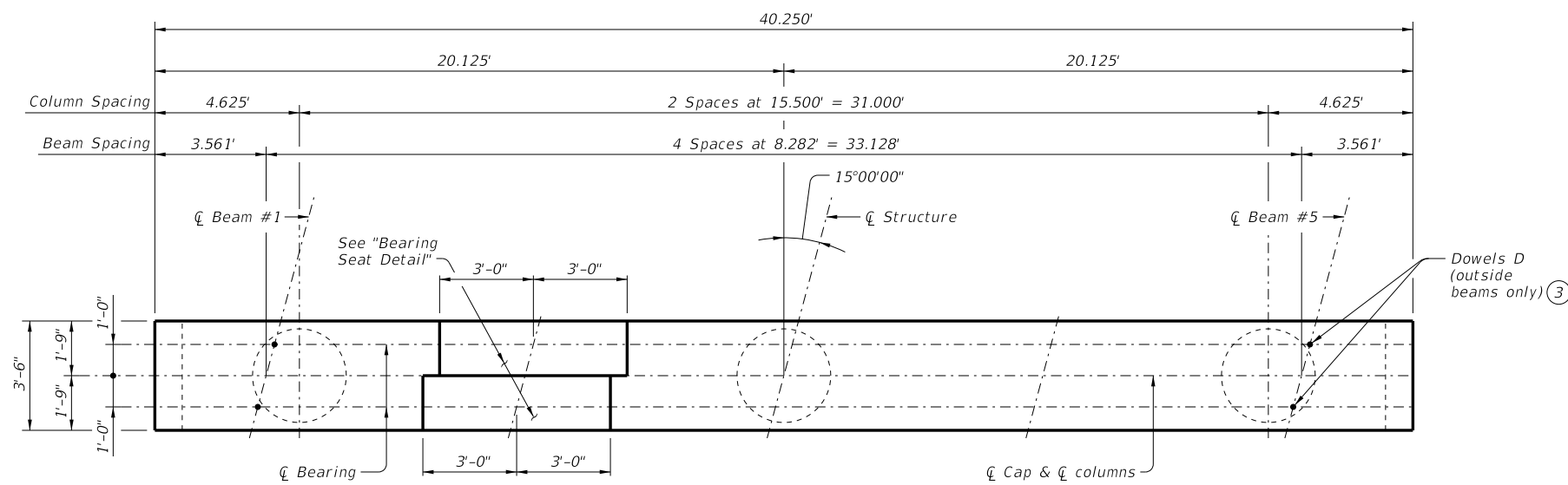
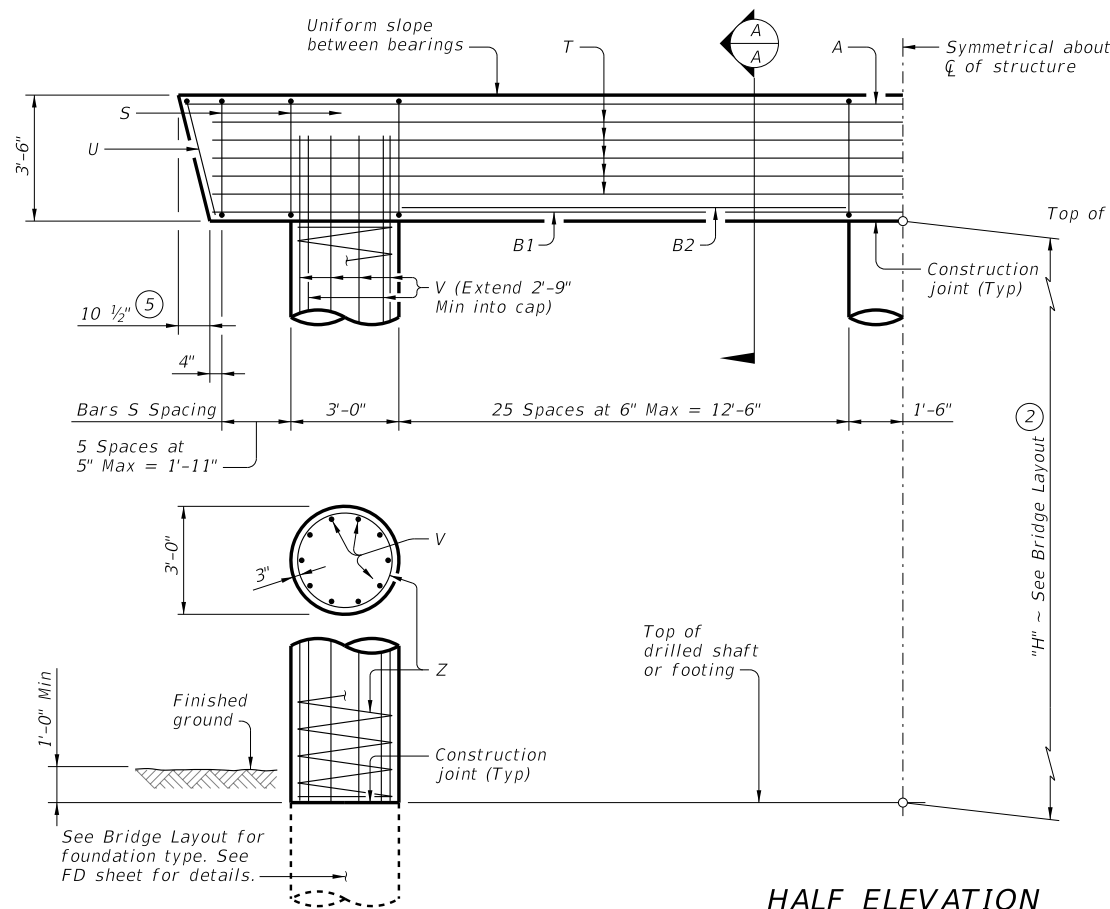


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

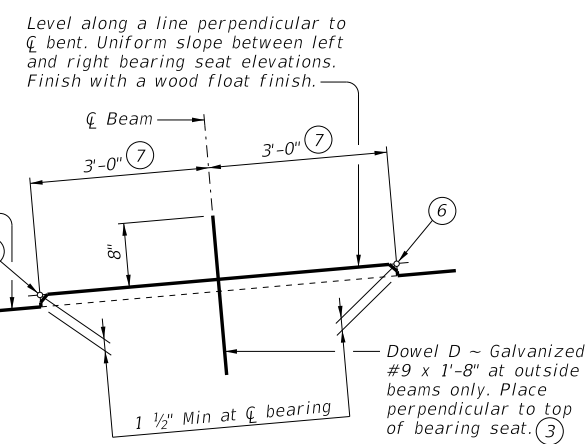
DATE: FILE:



**PLAN**

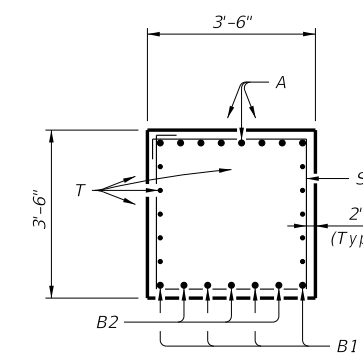


**HALF ELEVATION**



**BEARING SEAT DETAIL**

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



**SECTION A-A**

**TABLE OF ESTIMATED QUANTITIES (1)**

Bar	No.	Size	Length	Weight	
A	8	#11	39'-9"	1,690	
B1	4	#11	38'-3"	813	
B2	6	#11	12'-6"	398	
D (3)	4	#9	1'-8"	23	
S	64	#5	13'-8"	912	
T	10	#5	38'-3"	399	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	10,522
Class "C" Concrete (Cap)				CY	18.4
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	147	53	40	33
45	159	57	43	35
50	171	61	46	38
55	183	65	49	40
60	195	69	52	43
65	206	73	55	45
70	218	77	58	47
75	229	80	61	50
80	241	84	64	52
85	253	88	67	54
90	264	92	70	56
95	276	96	72	59
100	287	100	75	61
105	299	103	78	63

**MATERIAL NOTES:**

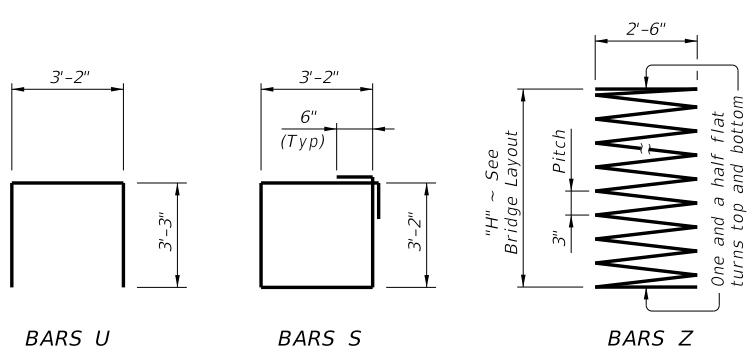
- Provide Class C concrete ( $f'c = 3,600$  psi.)
- Provide Class C (HPC) concrete if shown elsewhere in the plans.
- Provide Grade 60 reinforcing steel.
- Galvanize dowel bars D.

**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-38-15 only.

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

- (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.



**HL93 LOADING**

**Texas Department of Transportation** Bridge Division Standard

**INTERIOR BENTS**  
**PRESTR CONC X-BEAMS**  
 (TYPE 5XB20 THROUGH 5XB40)  
**38' ROADWAY 15° SKEW**  
**BXB-38-15**

FILE: XB-BXB3815-22.dgn	DN: BMP	CK: EFC	DW: JER	CK: BMP
©TxDOT August 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.