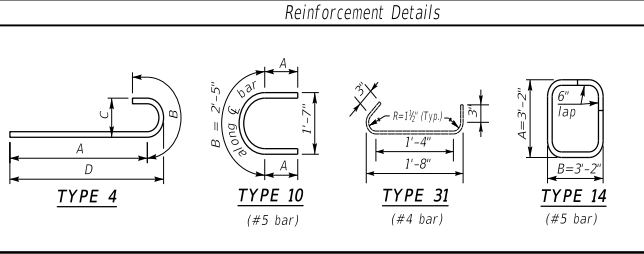
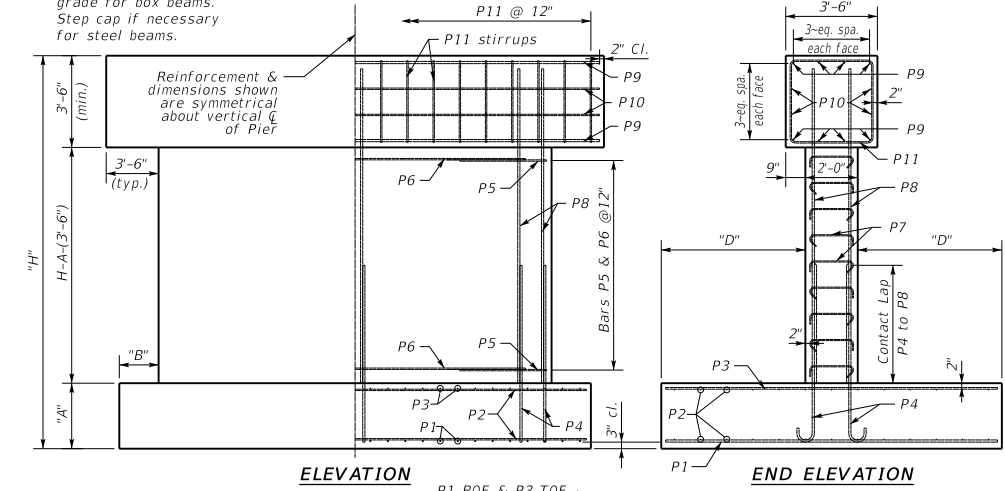
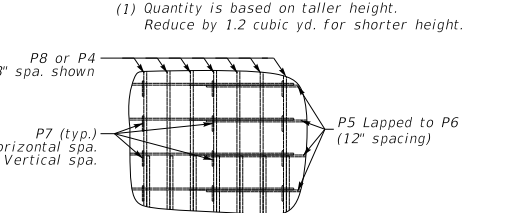
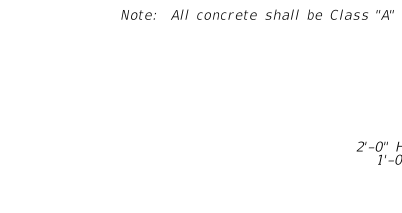
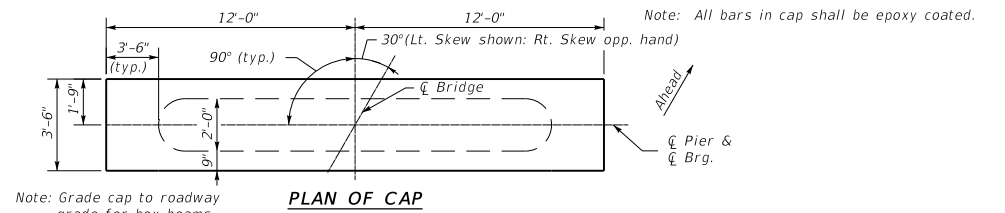


30° SKEW 16'-0" - 17'-6" BRIDGE WIDTH (No Seismic Load)

MARK		P1		P2		P3		P4				P5		P6		P7		P8		P9(e)		P10(e)		P11(e)																																			
TYPE		Str.		Str.		Str.		Type 4				Type 10		Str.		Type 31		Str.		Str.		Type 14																																					
SIZE		No.		Length		Length		Length		Length		Length		Length		Length		Length		Length		Length		Length																																			
		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.		ft. in.																																			
10-11	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	10	5	7	5	12	2	6	10	5	15	0	12	40	2	5	48	8	8	0	8	8	28	8	4	23	8	24	13	2		
12-13	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	14	5	7	5	12	2	6	14	5	15	0	12	36	2	5	48	8	10	0	8	8	23	8	4	23	8	24	13	2		
14-15	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	18	5	7	5	12	2	6	18	5	15	0	12	72	2	5	48	8	10	0	8	8	23	8	4	23	8	24	13	2		
16-17	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	22	5	7	5	12	2	6	22	5	15	0	12	88	2	5	48	8	10	0	8	8	23	8	4	23	8	24	13	2		
18-19	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	26	5	7	5	12	2	6	26	5	15	0	12	104	2	5	48	8	10	0	8	8	23	8	4	23	8	24	13	2		
20-21	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	30	5	7	5	12	2	6	30	5	15	0	12	120	2	5	48	8	10	0	8	8	23	8	4	23	8	24	13	2		
22-23	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	34	5	7	5	12	2	6	34	5	15	0	12	136	2	5	48	8	10	0	8	8	23	8	4	23	8	24	13	2		
24-25	32	8	12	2	8	26	5	21	2	12	32	5	12	2	8	48	8	8	10	8	7	5	1	5	0	8	7	9	38	5	7	5	12	2	6	38	5	15	0	12	152	2	5	48	8	10	0	8	8	23	8	4	23	8	24	13	2		



H	DIMENSIONS TABLE													H	CONCRETE CLASS "A"	STEEL REINFORCEMENT EPOXY COATED	STEEL REINFORCEMENT
	H	A	B	C	D	H	CU. YDS. (1)	LBS.	LBS.								
	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	ft. in.											
10-11	2	6	2	3	10	9	5	3	10-11		42.2	937	4889				
12-13	2	6	2	3	10	9	5	3	12-13		44.7	937	4886				
14-15	2	6	2	3	10	9	5	3	14-15		47.1	937	5242				
16-17	2	6	2	3	10	9	5	3	16-17		49.6	937	5619				
18-19	2	6	2	3	10	9	5	3	18-19		52.1	937	5996				
20-21	2	6	2	3	10	9	5	3	20-21		54.5	937	6373				
22-23	2	6	2	3	10	9	5	3	22-23		57	937	6750				
24-25	2	6	2	3	10	9	5	3	24-25		59.4	937	7126				



GENERAL NOTES

SPECIFICATIONS: Construct piers according to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Piers are designed for side by side box beams as detailed in Standard Drawings BDP-001 through BDP-012, current edition. They may be slightly modified to allow for 17'-6" rolled steel beam bridge width.

FOUNDATION PRESSURE: Construct pier footings on solid rock bearing material that can support a pressure of 8000 psf service or 10,800 psf strength factored as recommended by a geotechnical engineer.

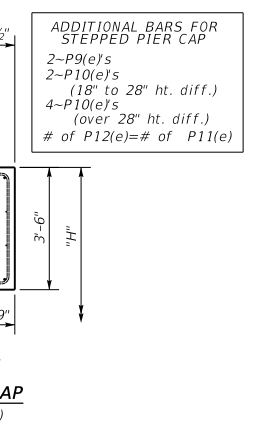
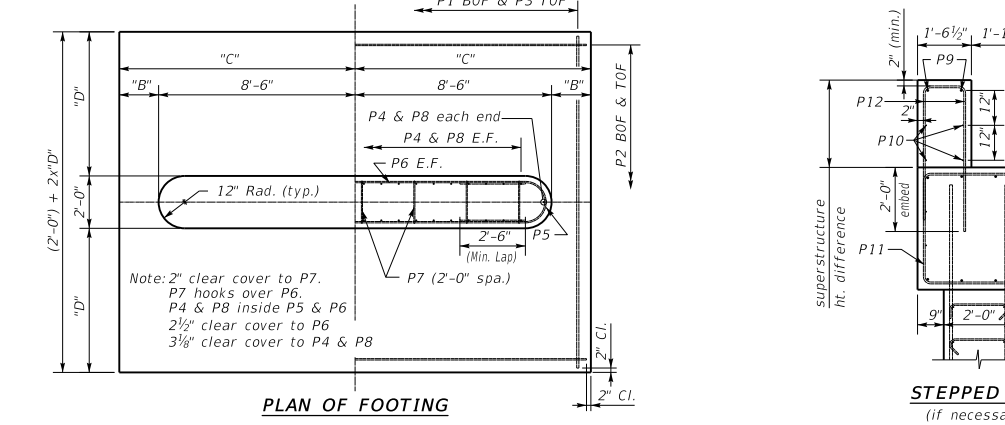
DESIGN LOADS: Pier is designed for the CB42 beam superstructure with 3-97 foot spans. Pier is designed to handle a half a 97 foot span for thermal load with expansion bearings under the beams. Pier is designed for 100 mph wind. Wind on superstructure is for 1-97 span longitudinal and transverse. Pier is designed for stream flow of 10 ft./sec. up to the top of the pier. It is not designed for flow acting on the superstructure. Pier is not designed for earthquake loading.

DESIGN APPLICABILITY: Consult with a structural engineer to determine if these details are applicable for any particular project.

FOOTING ELEVATION: Construct bottom of footing below the anticipated scour elevation. (This typically entails embedding the footings 1'-0" to 2'-0" into rock and pouring concrete directly against cut rock faces as recommended by geotechnical engineer.)

NOTE: Distances to bars shown are clear dimensions unless otherwise noted.

MATERIAL SPECIFICATIONS:
 Concrete, Class "A" = 3500 psi
 Steel Reinforcement = Grade 60



KENTUCKY DEPARTMENT OF HIGHWAYS Standard Pier 30° Skew 16'-0"-17'-6" Bridge Width	
STANDARD DRAWING NO. BSP-007	
SUBMITTED DIRECTOR DIVISION OF STRUCTURAL DESIGN	02-26-20 DATE
APPROVED STATE REGISTERED ENGINEER	02-26-20 DATE