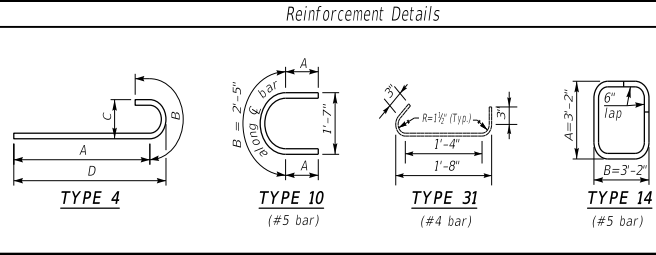
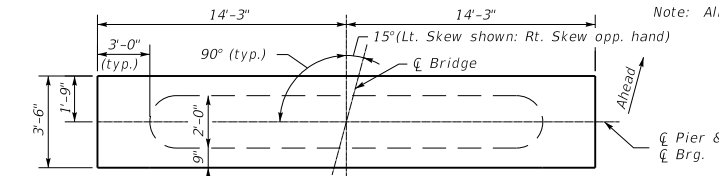


15° SKEW 24'-0" - 25'-6" BRIDGE WIDTH (No Seismic Load)

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.	Str.	Type 14
SIZE											#4	#8	#5	#5		
H	No.	Length	Length	Length	A	B	C	D	Length	A	Length	Length	Length	Length	Length	
10-11	43	8 12 8	26 5 28 2 12 43	5 12 8 8 64 8 8 10 8	7 5 1 5 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	8 8 0 8 7 9 10 5 7 5 12 2 6 10 5 20 6 12 55 2 5 64	



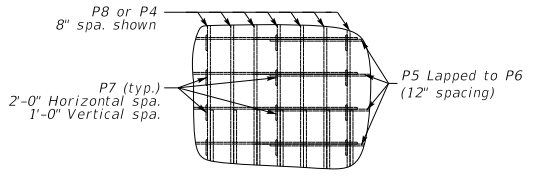
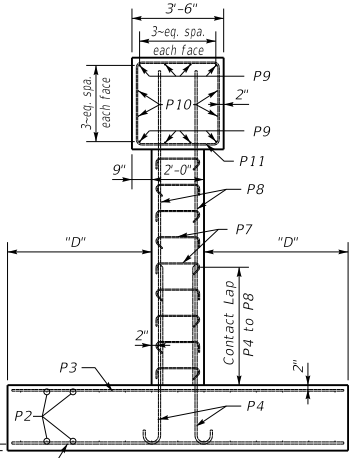
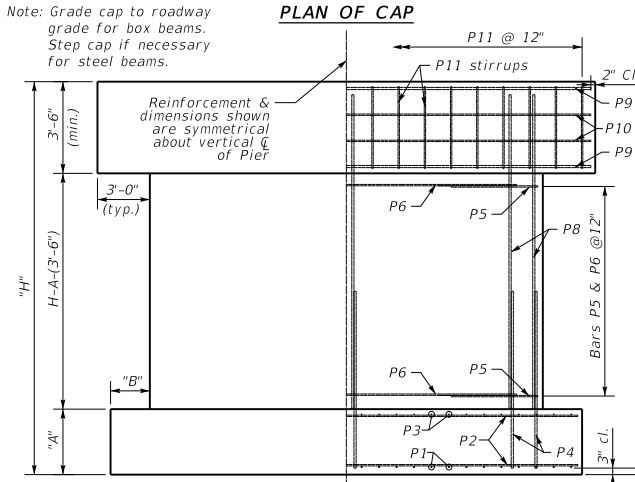
DIMENSIONS TABLE		CONCRETE CLASS "A"			STEEL REINFORCEMENT EPOXY COATED		STEEL REINFORCEMENT					
H	A	B	C	D	CU. YDS. (1)	LBS.	LBS.					
10-11	2	6	3	0	14	3	5	6	10-11	55.9	1107	6060
12-13	2	6	3	0	14	3	5	6	12-13	59.2	1107	6555
14-15	2	6	3	0	14	3	5	6	14-15	62.5	1107	7051
16-17	2	6	3	0	14	3	5	6	16-17	65.7	1107	7546
18-19	2	6	3	0	14	3	5	6	18-19	69	1107	8041
20-21	2	6	3	0	14	3	5	6	20-21	72.3	1107	8536
22-23	2	6	3	0	14	3	5	6	22-23	75.5	1107	9031
24-25	2	6	3	0	14	3	5	6	24-25	78.8	1107	9527



Note: All bars in cap shall be epoxy coated.

Note: All concrete shall be Class "A"

(1) Quantity is based on taller height. Reduce by 1.6 cubic yard for shorter height.



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 box beams as detailed in Standard Drawings BDP-001 through BDP-012, current edition. They may be slightly modified to allow for 25'-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.

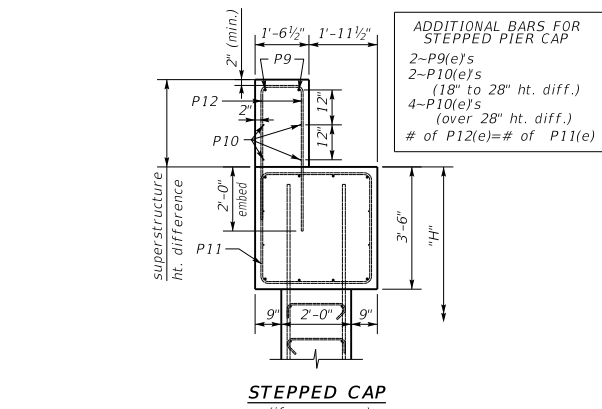
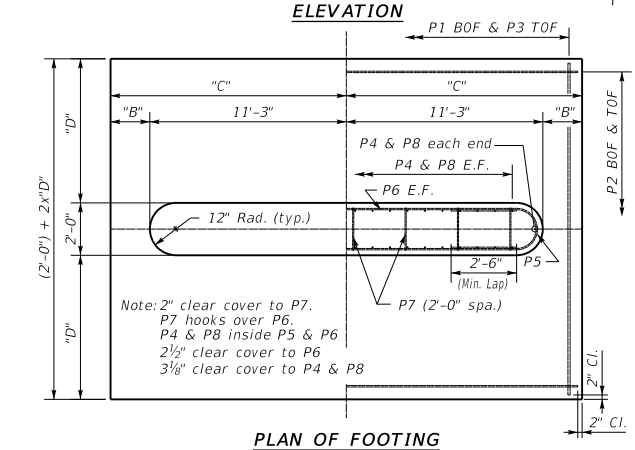
DESIGN LOADS: Pier is designed for the CB42 beam superstructure with 3-97 foot spans. Pier is designed to handle a half a 97 foot span for thermal load with expansion bearings under the beams. Pier is designed for 100 mph wind. Wind on superstructure is for 1-97 span longitudinal and transverse. Pier 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

15° Skew

24'-0"-25'-6" Bridge Width

STANDARD DRAWING NO. **BSP-005**

SUBMITTED *[Signature]* **02-26-20**
DIRECTOR DIVISION OF STRUCTURAL DESIGN DATE

APPROVED *[Signature]* **02-26-20**
STATE REGISTERED ENGINEER DATE