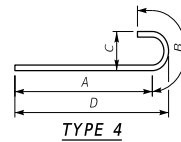
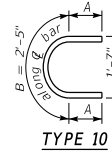


30° SKEW 24'-0" - 25'-6" BRIDGE WIDTH (No Seismic Load)

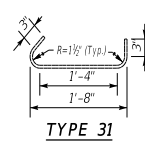
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MARK	P1	P2	P3	P4				P5				P6	P7	P8	P9(e)	P10(e)	P11(e)											QUANTITIES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
TYPE	Str.	Str.	Str.	Type 4				Type 10				Str.	Type 31	Str.	Str.	Str.	Type 14											CONCRETE CLASS "A"	STEEL REINFORCEMENT EPOXY COATED	STEEL REINFORCEMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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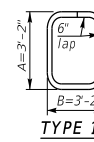
TYPE 4



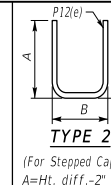
TYPE 10
(#5 bar)



TYPE 31
(#4 bar)



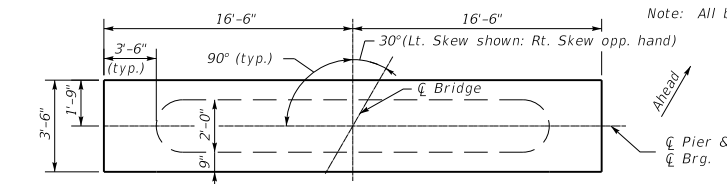
TYPE 14
(#5 bar)



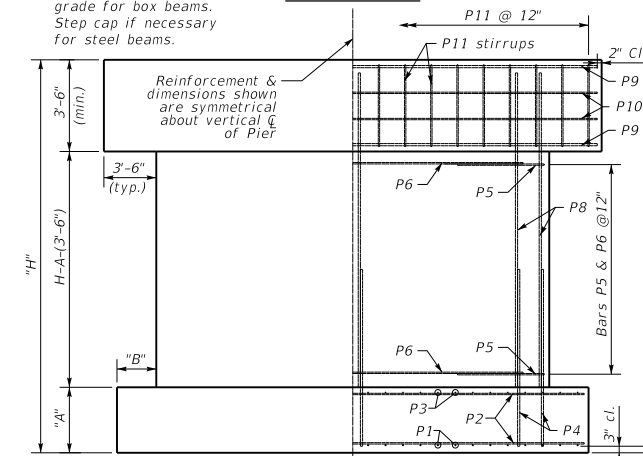
TYPE 2

(For Stepped Cap)
A=Ht. diff. -2" Cl.
+2-0" emb.
B=1'-2 1/2"

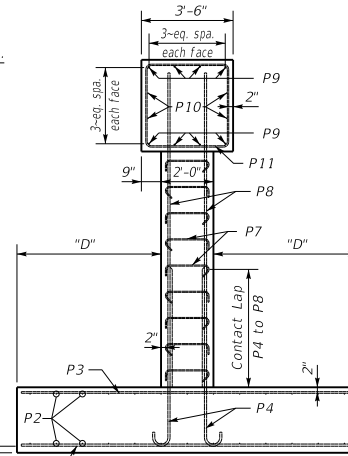
DIMENSIONS TABLE									
H	A		B		C		D		
	ft.	in.	ft.	in.	ft.	in.	ft.	in.	
10-11	2	6	2	9	15	9	5	6	
12-13	2	6	2	9	15	9	5	6	
14-15	2	6	2	9	15	9	5	6	
16-17	2	6	2	9	15	9	5	6	
18-19	2	6	2	9	15	9	5	6	
20-21	2	6	2	9	15	9	5	6	
22-23	2	6	2	9	15	9	5	6	
24-25	2	6	2	9	15	9	5	6	



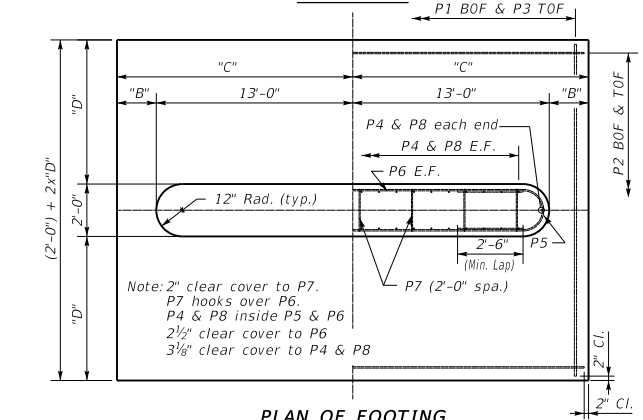
PLAN OF CAP



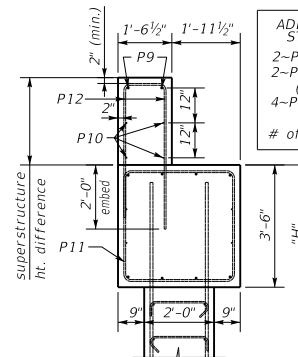
ELEVATION



END ELEVATION



PLAN OF FOOTING

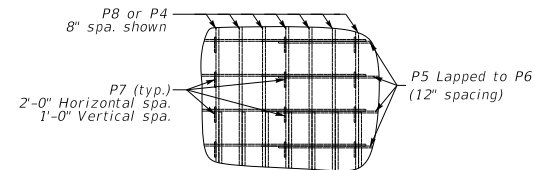


STEPPED CAP
(if necessary)

ADDITIONAL BARS FOR STEPPED PIER CAP
2-P9(e)'s
2-P10(e)'s
(18" to 28" ht. diff.)
4-P10(e)'s
(over 28" ht. diff.)
of P12(e)=# of P11(e)

Note: All concrete shall be Class "A"

(1) Quantity is based on taller height.
Reduce by 1.9 cubic yd. for shorter height.



P7 BAR PLACEMENT
(alternate 90° & 135° bar ends)

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 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 30° Skew 24'-0"-25'-6" Bridge Width	
STANDARD DRAWING NO. BSP-008	
SUBMITTED	02-26-20
DIRECTOR DIVISION OF STRUCTURAL DESIGN	
APPROVED	02-26-20
STATE ENGINEER	