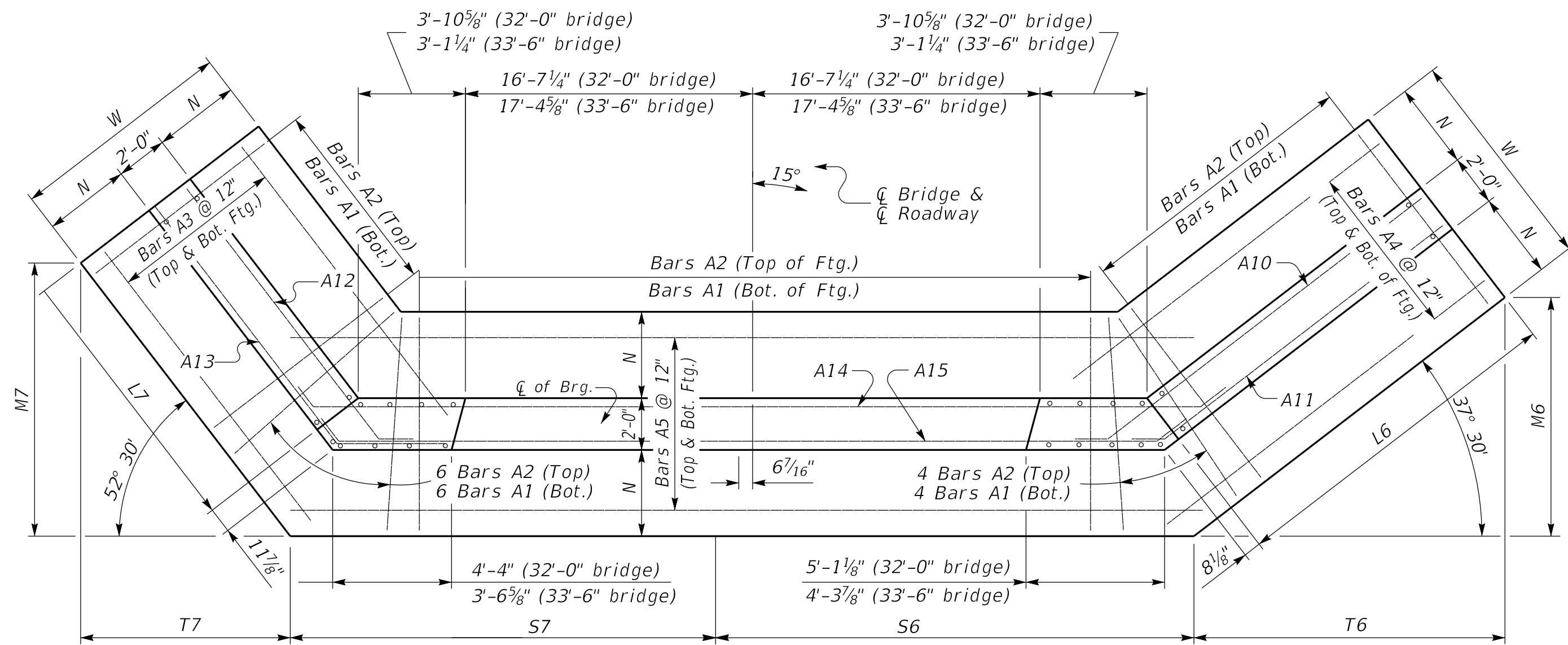


15° SKEW 32'-0" - 33'-6" BRIDGE WIDTH 2:1 FILL SLOPES

Bill of Reinforcement																														Reinforcement Details												Table of Dimensions																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
MARK	A1		A2		A3	A4	A5		A6		A7		A8		A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	Table of Dimensions																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
TYPE	Str.		Str.		Str.	Str.	Str.		4		Str.		Str.		Str.	8	8	8	8	7	7	Str.	Str.	Str.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SIZE					#5	#5	#5								#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
H	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	A	B	C	D	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length	Spacing	No	Size	Length

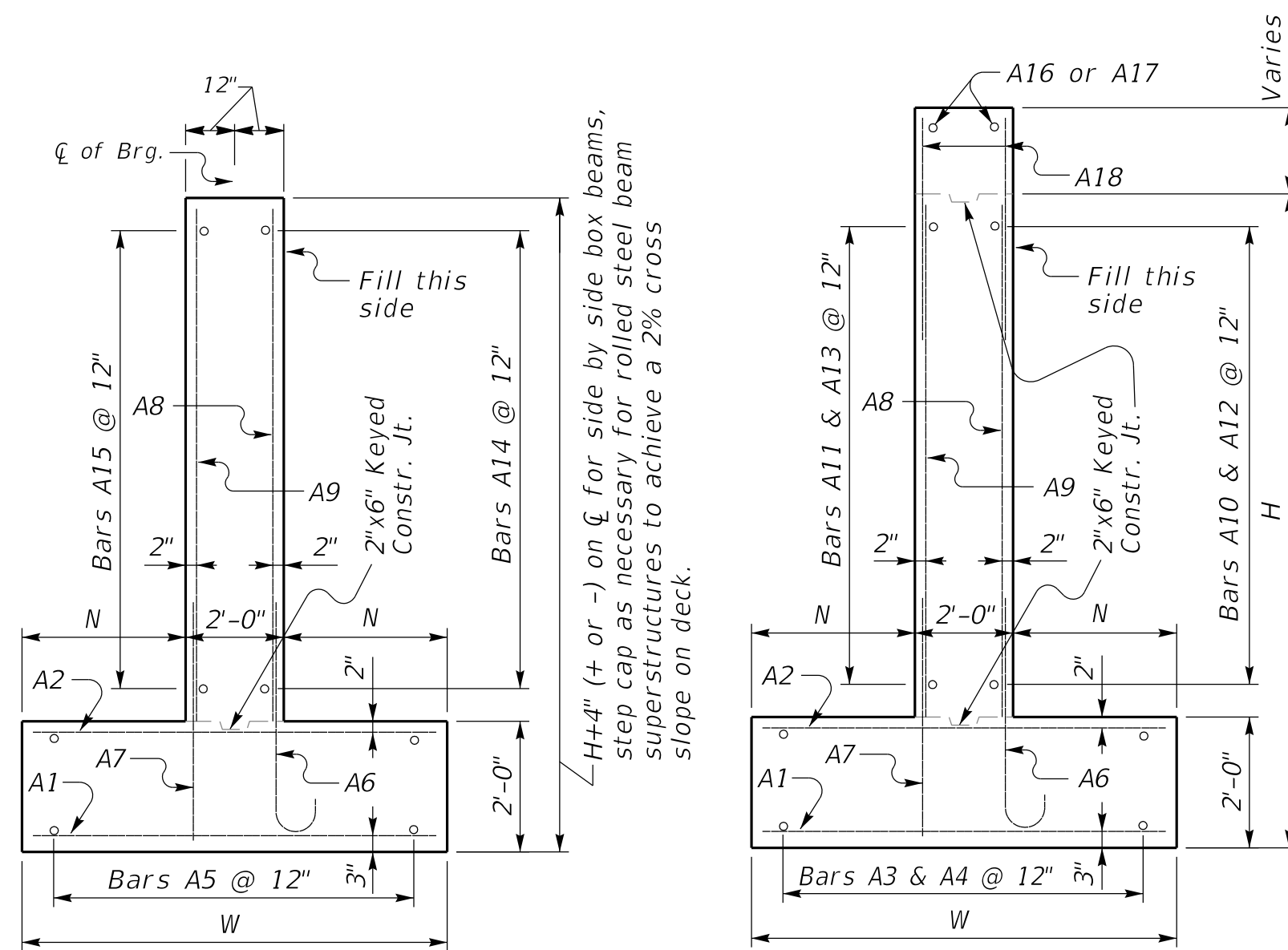
4 foot min. shoulder



(Left Skew as shown;right skew opp. hand)

PLAN

NOTE: Trim A16 & A17 bars if necessary



WALL SECTION

WING SECTION

GENERAL NOTES

SPECIFICATIONS: Construct abutments according to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Abutments are designed for side by side box beams as detailed in Standard Drawings BDP-001 through BDP-012, current edition. Dimensions may be adjusted to allow for 33'-6" rolled steel beam bridge width.

FOUNDATION PRESSURE: Construct abutment 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.

WING LENGTHS: Calculated assuming 21" superstructure depth and stream bank elevation at top of footing.

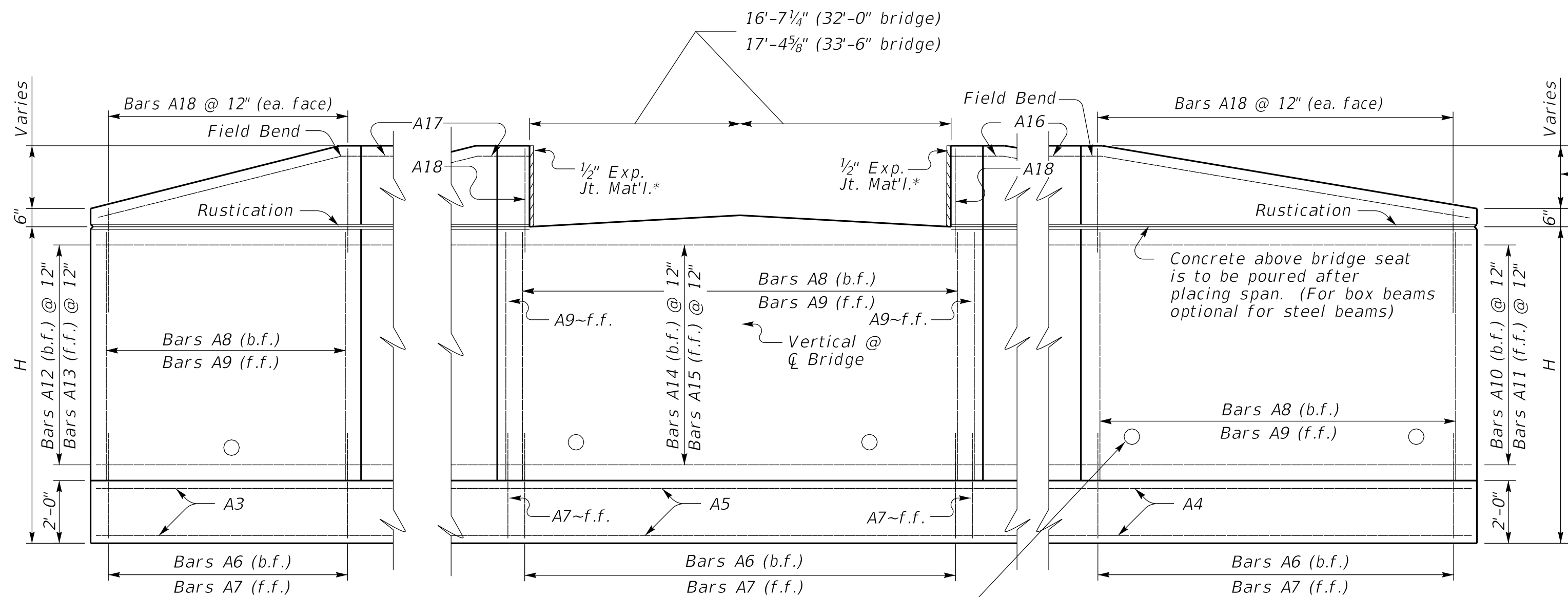
FOOTING ELEVATION: Construct bottom of footing below the anticipated scour elevation. (This typically entails embedding the footings 1'-0" to 2'-0" into rock and pouring concrete directly against cut rock faces as recommended by geotechnical engineer.)

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

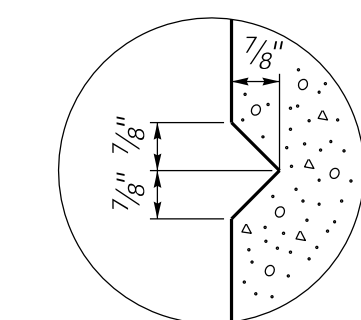
MATERIAL SPECIFICATIONS:
Concrete, Class "A" = 3500 psi
Steel Reinforcement = Grade 60

Quantities		
H	Concrete* C.Y.	Reinforcement LBS.
5	44.9	3731
6	49.2	3731
7	62	5067
8	66.6	5067
9	86	7196
10	91.1	7196
11	110.3	10103
12	115.8	10103
13	135.5	14061
14	141.4	14061
15	163	18138
16	169.3	18138

*Concrete quantities computed using 21" beam depth on 1/2" pad & 32'-0" Bridge Width



ELEVATION



RUSTICATION GROOVE

*Expansion Joint Material:
AASHTO M153
Type-I Sponge Rubber



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

15° SKEW 32'-0" - 33'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER

STANDARD DRAWING NUMBER
BSA-106-01

REVISION DATE: 08/11/2025
REVISION NUMBER: 0

08-11-2025
DATE

DIVISION DIRECTOR

SUBMITTED *Mark Corp*

08-11-2025
DATE

STATE HIGHWAY ENGINEER

BRIDGE STANDARDS