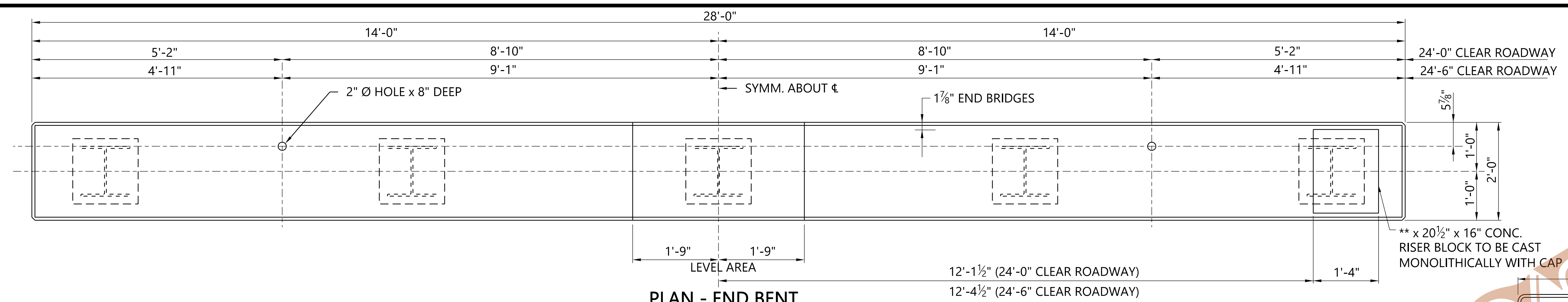
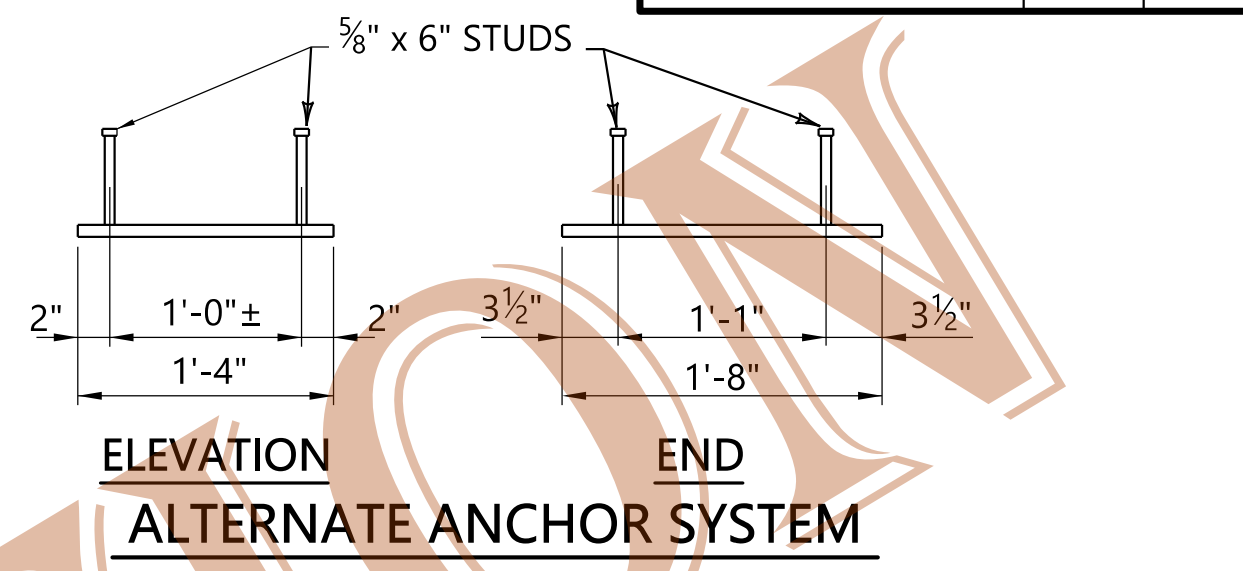


SHEET REFERENCE: 0 1" 2"
 \\bvrms002\Bridges\Standard\Special\Bridges\Special DGN Files\2022 DGN\PreCast\PCA2440.dgn
 PLOTTED: 27-Dec-21 at 10:01

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

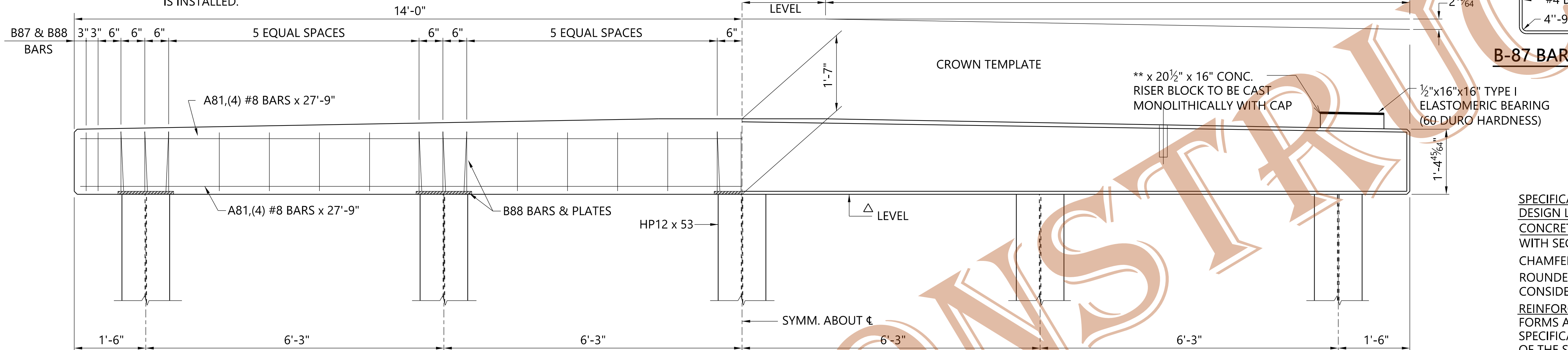


PLAN - END BENT
SCALE: 3/4" = 1'-0"



ELEVATION END ALTERNATE ANCHOR SYSTEM
SCALE: 1" = 1'-0"

NOTE: THE CONTRACTOR SHALL CLEAN AND PAINT ALL STEEL PLATE AND PILING SURFACES THAT COME INTO CONTACT WITH CONCRETE BEFORE THE CONCRETE IS INSTALLED.



ELEVATION - END BENT
SCALE: 3/4" = 1'-0"

B-87 BARS - 20 REQ'D

B-88 BARS & ANCHOR PLATE

** DEPTH OF RISER BLOCK

24' SPAN	NA
34' SPAN	4"
40' SPAN	7"

*** PREFORMED EXP. JT. FILLER

24' SPAN	1/4" x 16" x 28"
34' SPAN	1/4" x 20" x 28"
40' SPAN	1/4" x 23" x 28"

GENERAL NOTES

SPECIFICATIONS: ALABAMA DEPARTMENT OF TRANSPORTATION, CURRENT DESIGN LOADING: A.A.S.H.T.O. HS20-44
CONCRETE: CONCRETE FOR PRECAST BENT CAP SHALL BE IN ACCORDANCE WITH SECTION 512 OF THE STANDARD SPECIFICATIONS. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" BY 45° UNLESS OTHERWISE NOTED. ALL OTHER CORNERS ARE TO BE ROUNDED TO 1/4" RADIUS. CONCRETE WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM PRECAST CONCRETE CAP UNIT.
REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE AS REQUIRED BY ITEM 502.03(c)4 OF THE STANDARD SPECIFICATIONS. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF SECTION 835 OF THE STD. SPEC. REINFORCING DIMENSIONS ARE TO THE CENTER LINE OF THE BARS UNLESS OTHERWISE NOTED. THE ABOVE STEEL WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED AS SUBSIDIARY TO THE ITEM OF PRECAST CONCRETE CAP UNIT.
STRUCTURAL STEEL AND PILING: ALL STRUCTURAL STEEL SHALL CONFORM TO SECTION 836 OF THE STANDARD SPECIFICATIONS. ALL PILING SHALL BE 12" STEEL "H" PILING, 53 LBS. PER FOOT. FOR PILE SPLICE DETAILS SEE BRIDGE SPECIAL PROJECT DRAWING SBD-1.
WELDING: ALL WELDING SHALL CONFORM TO ARTICLE 836.46 OF THE STANDARD SPECIFICATIONS.
TOLERANCES: A DEVIATION OF MORE THAN 1/8" MAY BE CAUSE FOR THE REJECTION OF THE UNIT.
DESIGN DATA: A.A.S.H.T.O. 2002 STANDARD SPECIFICATION FOR HIGHWAY BRIDGES & INTERIMS SERVICE LOAD DESIGN
BID ITEMS:
 511-A ELASTOMERIC BEARINGS, TYPE 1 - PER EACH.
 512-A PRECAST CONCRETE ABUTMENT CAPS, 2'-0" WIDE BY 1'-7" DEEP BY 28'-0" LONG - PER EACH.

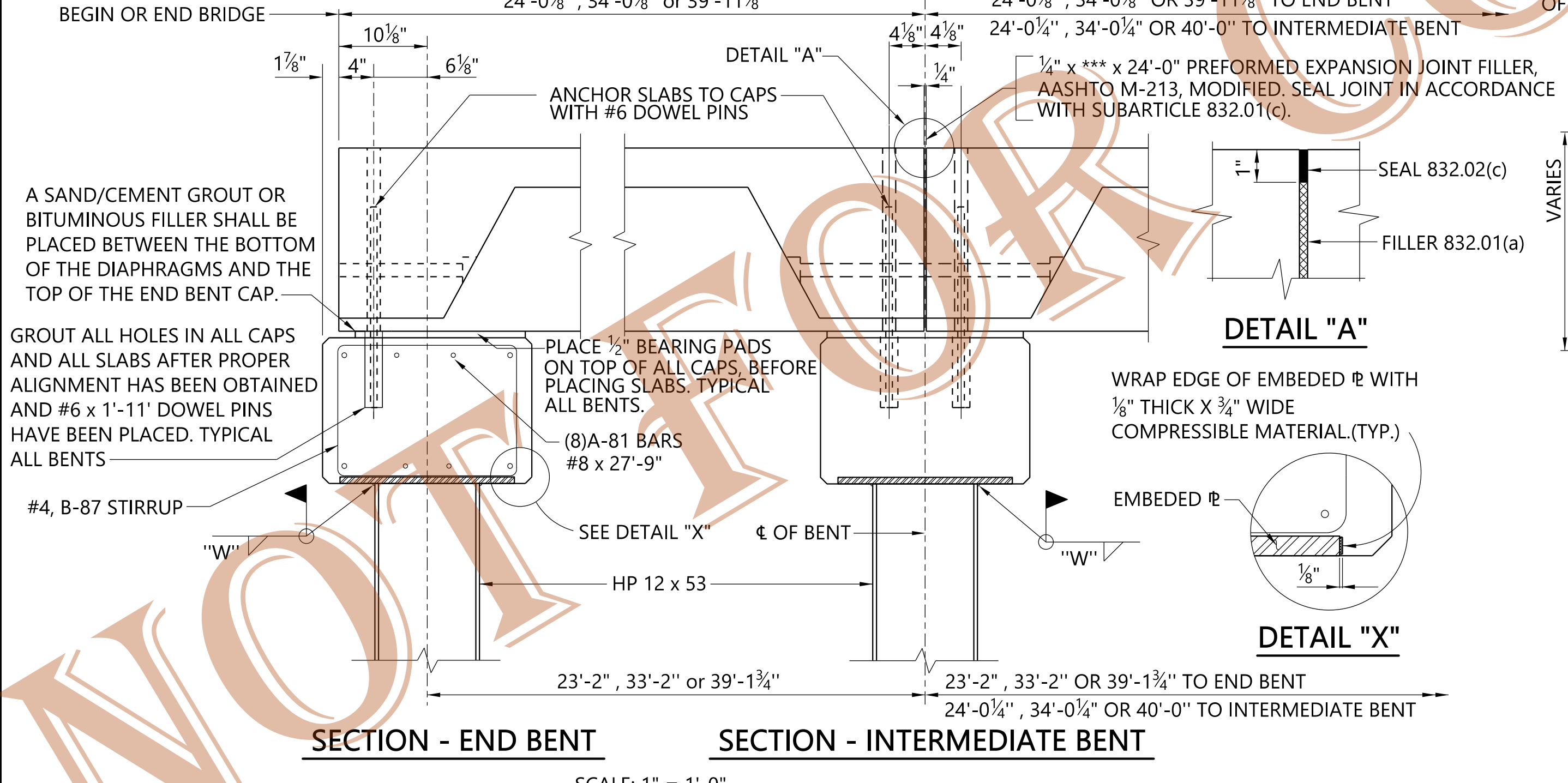
PILE AXIAL COMPRESSION LOADS - MIN.

24'-0" SPAN	28 TONS PER PILE
34'-0" SPAN	36 TONS PER PILE
40'-0" SPAN	42 TONS PER PILE

NOTE: LOADS ARE FOR 0% GRADE BRIDGES.

NOTE: ANY GRINDING OR LEVELING ON THE TOP SURFACE OF THE RISER THAT MAY BE REQUIRED TO INSURE PROPER SEATING OF THE BARRIER RAIL AND PRECAST CHANNEL SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

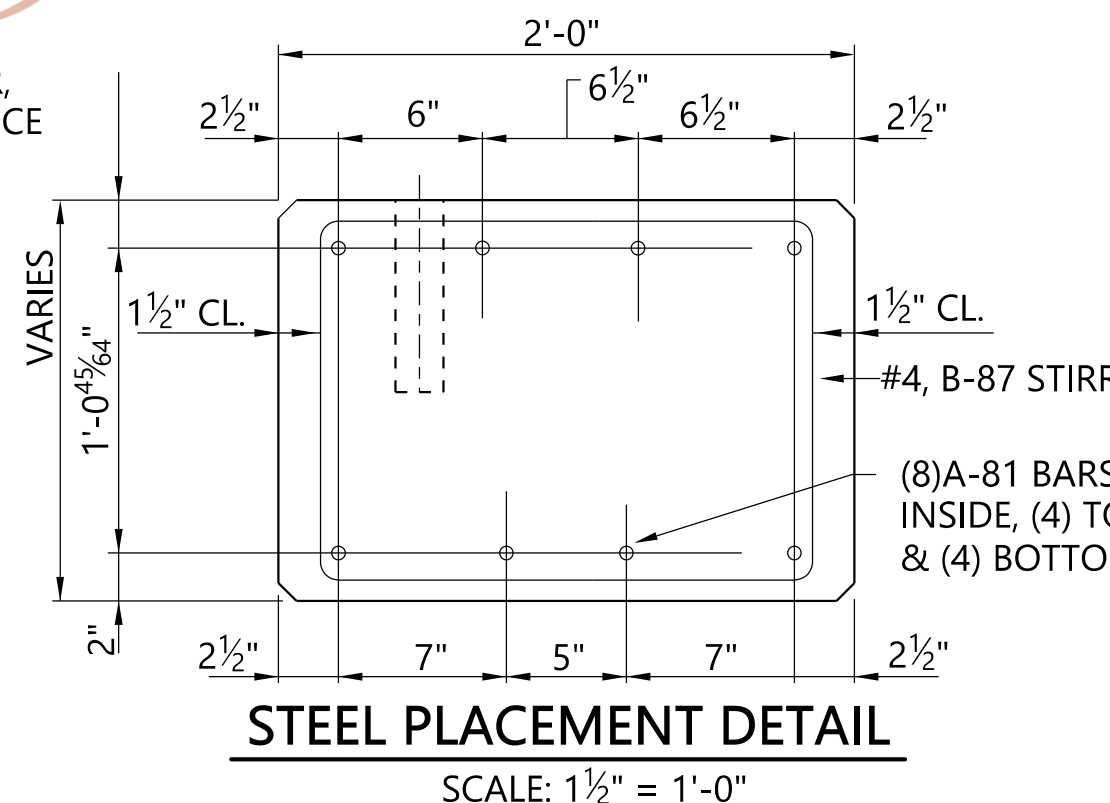
△ CAPS SHALL BE ERECTED SO THAT THE BOTTOM OF THE CAP IS LEVEL ALONG THE ROADWAY AND PERPENDICULAR TO THE ROADWAY. THE ACCEPTABLE ERECTION TOLERANCE (SLOPE ON BOTTOM OF CAP) SHALL BE 1/16" PER FOOT ALONG THE ROADWAY AND 1/16" PER FOOT PERPENDICULAR TO THE ROADWAY. CAPS ERECTED OUTSIDE THIS TOLERANCE SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE PROJECT.



SECTION - END BENT

SECTION - INTERMEDIATE BENT

SCALE: 1" = 1'-0"



STEEL PLACEMENT DETAIL
SCALE: 1 1/2" = 1'-0"

MINIMUM WELD REQUIREMENTS "W"

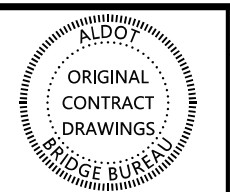
CONTACT CONDITION	MINIMUM WELD SIZE REQUIRED
FULL CONTACT (NO GAP)	1/4"
GAP MEASUREMENT < 1/16"	1/4"
GAP MEASUREMENT < 1/8"	5/16"
GAP MEASUREMENT < 3/16"	3/8"
GAP MEASUREMENT > 3/16"	**

***END BENT BEARING PADS**
SCALE: 1 1/2" = 1'-0"

* A 1/2" X 8" X 1'-4" ELASTOMERIC BEARING, TYPE 1 SHALL BE USED UNDER THE OUTSIDE LEGS OF THE EXTERIOR CHANNELS.

** WHEN MEASUREMENT (GAP) BETWEEN ANCHOR PLATE AND TOP OF PILE EXCEEDS 3/16" THE FOLLOWING SHALL APPLY: THE CONTRACTOR SHALL SUBMIT A CORRECTIVE PROCEDURE TO THE BRIDGE ENGINEER FOR REVIEW AND APPROVAL. THE PROCEDURE SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF ALABAMA AND THE PROCEDURE SHALL BE ACCOMPANIED WITH DESIGN CALCULATIONS CONFIRMING THAT THE PROPOSED CORRECTION WILL PROVIDE A CONNECTION EQUIVALENT TO THE ORIGINAL DESIGN.

ALABAMA DEPARTMENT OF TRANSPORTATION



REVISIONS

THIS BRIDGE SPECIAL PROJECT DRAWING FOR USE ONLY ON:
 PROJECT NO. _____
 COUNTY(S) _____

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PRECAST CONCRETE END BENT CAP FOR USE WITH STEEL PILING AND PRECAST CONCRETE BRIDGE SLABS 24'-0", 34'-0" OR 40'-0" SPANS 24'-6" CLEAR ROADWAY

BRIDGE SPECIAL PROJECT DRAWING
 PCA-2440
 SHEET 1 OF 1

ASSISTANT BRIDGE ENGINEER: *[Signature]* 1/16/22
 BRIDGE ENGINEER: *[Signature]* 1/7/2022