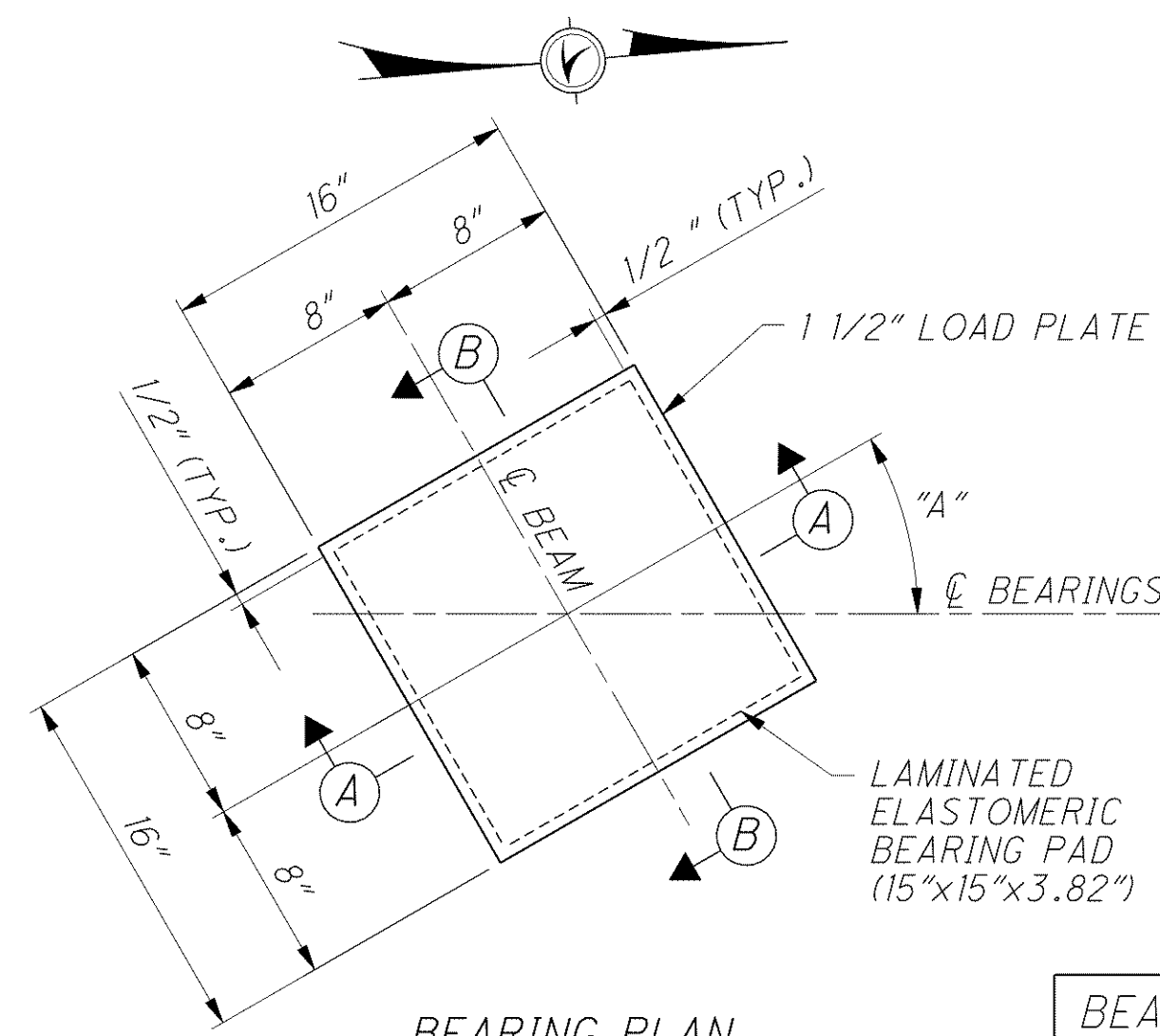
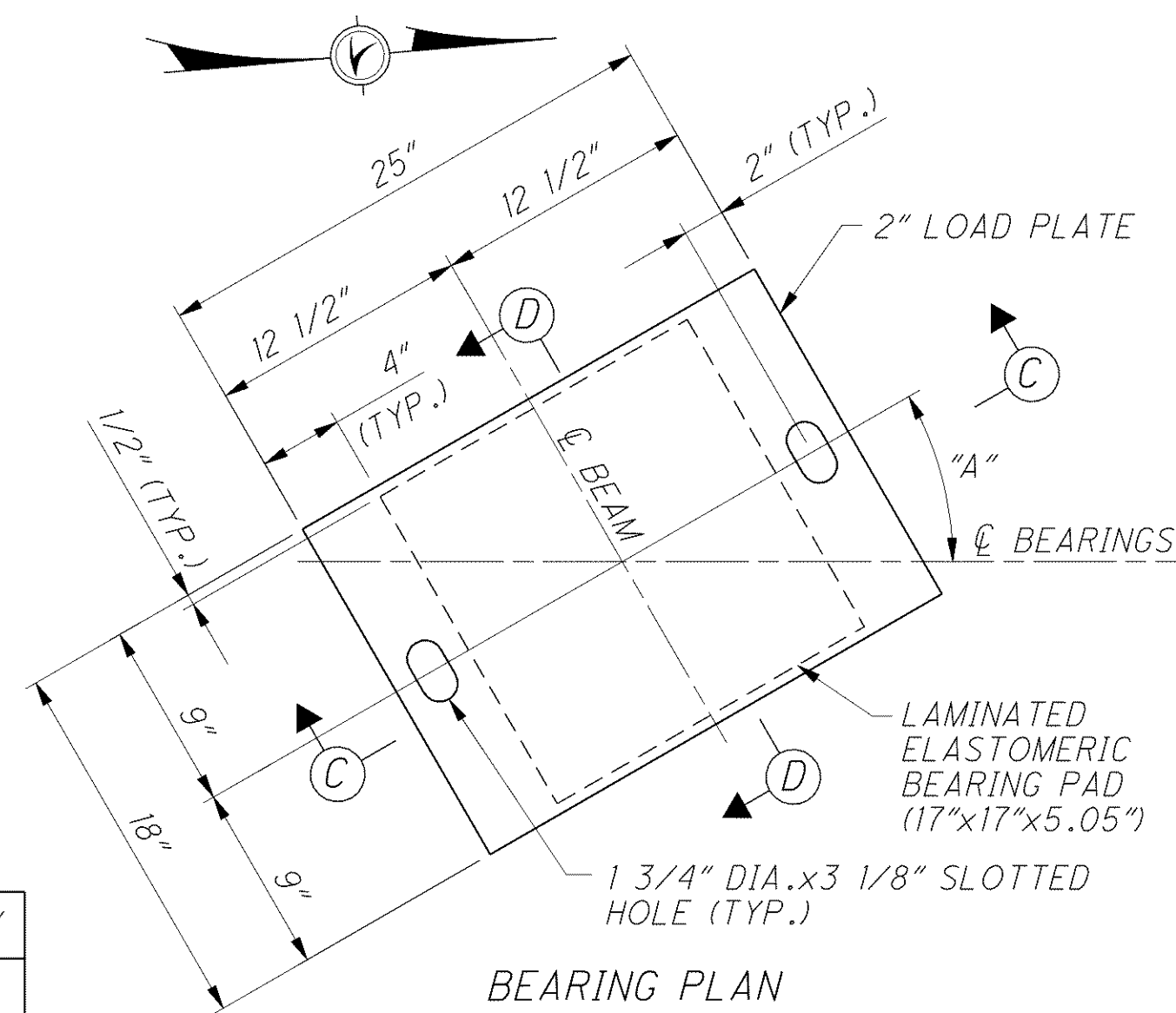


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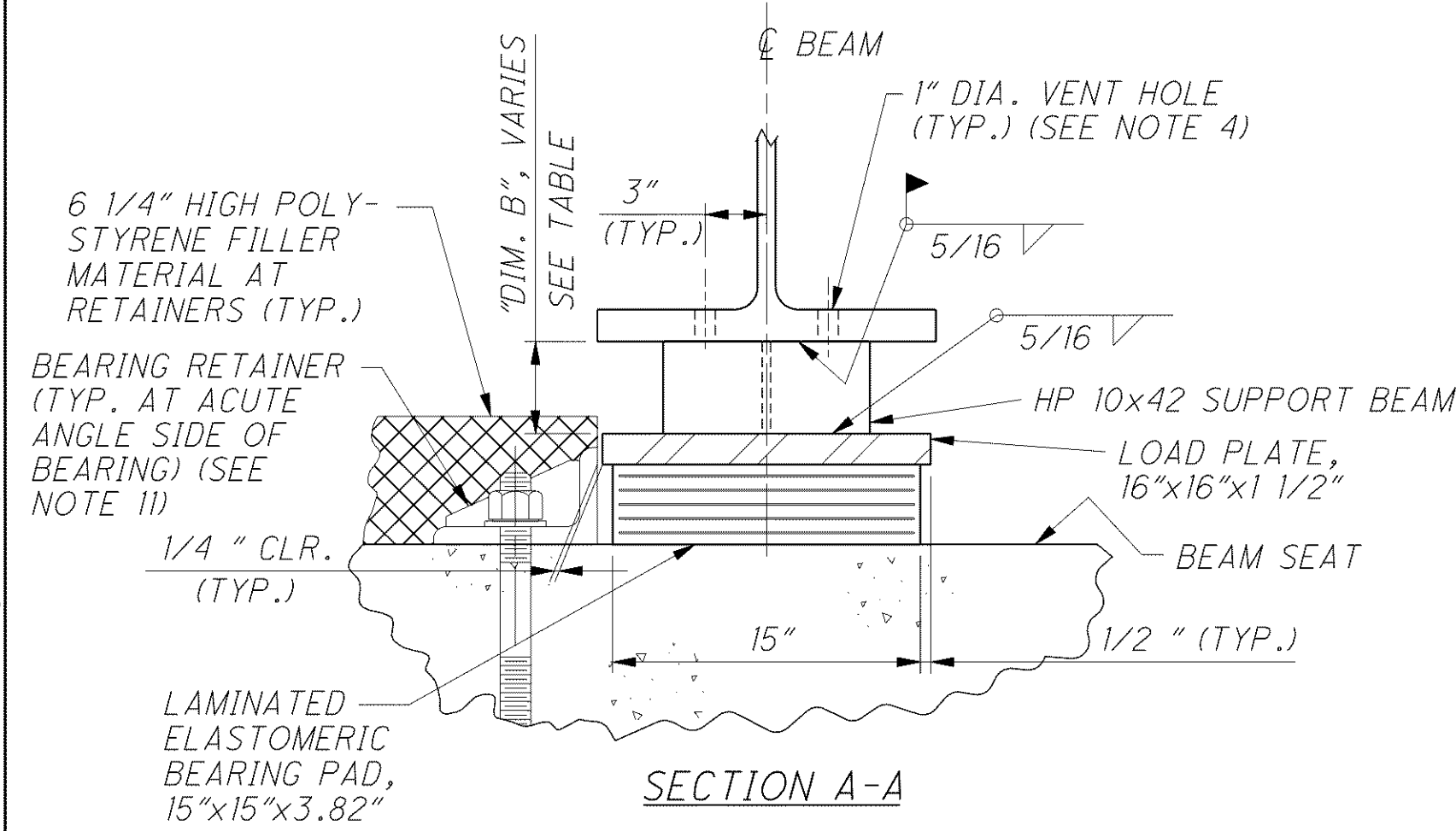


BEARING PLAN  
(ABUTMENTS)

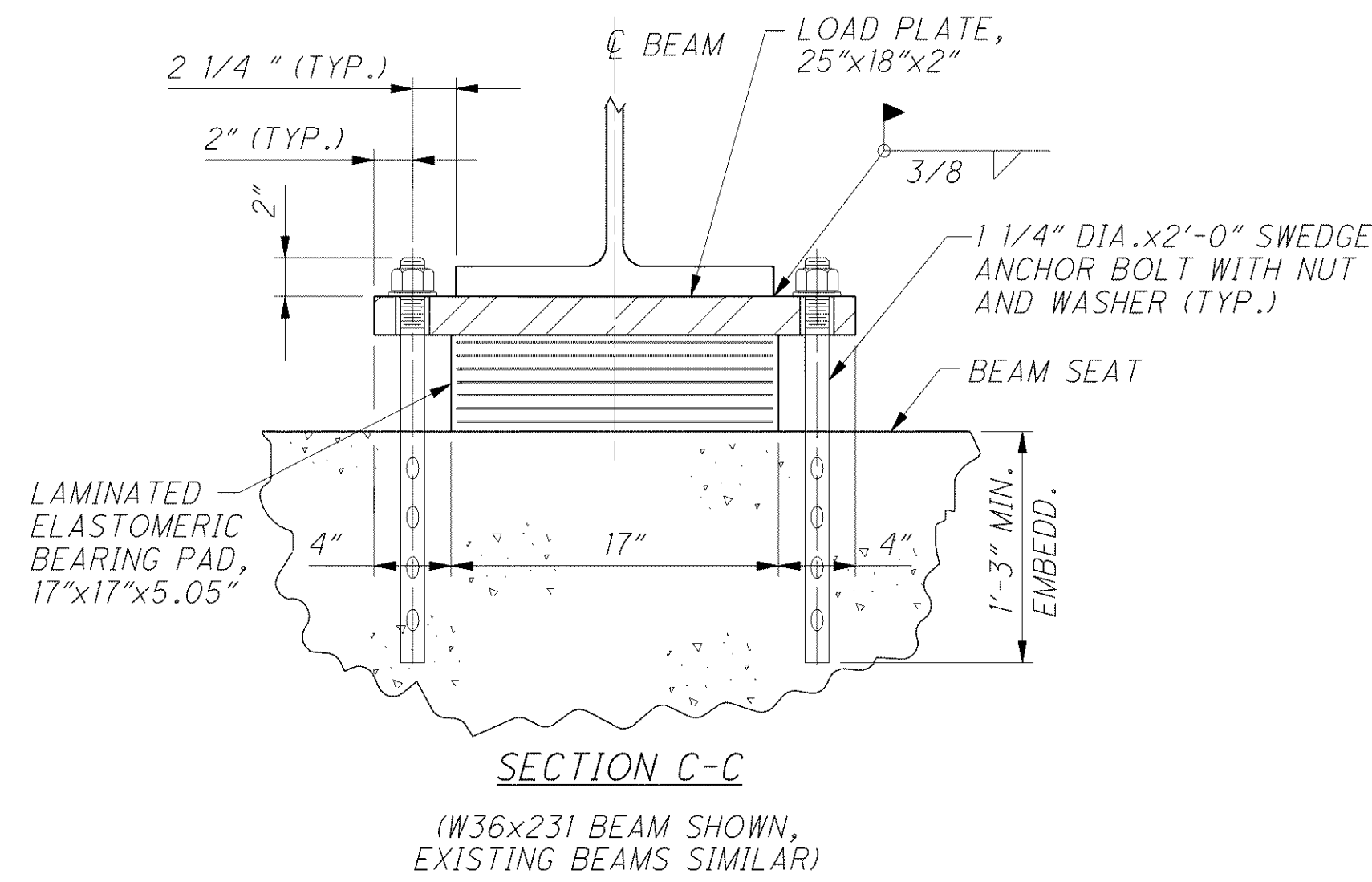
BEARING SKEW ANGLE "A"	
BEAMS	A
1	29°18'50"
2 THRU 11	30°00'00"
12	30°37'18"
A THRU N	30°00'00"



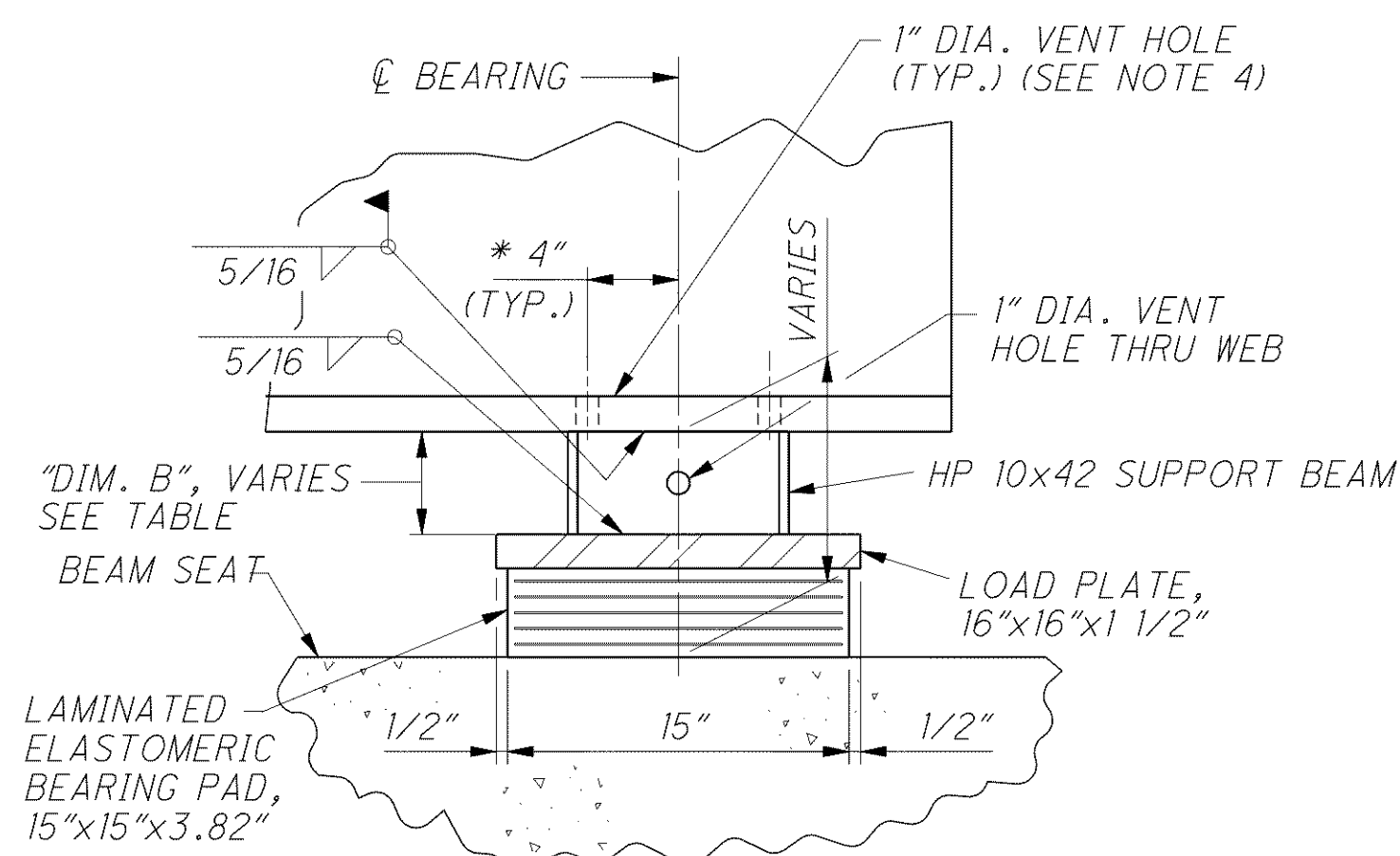
BEARING PLAN  
(PIER NO. 1 AND NO. 2)



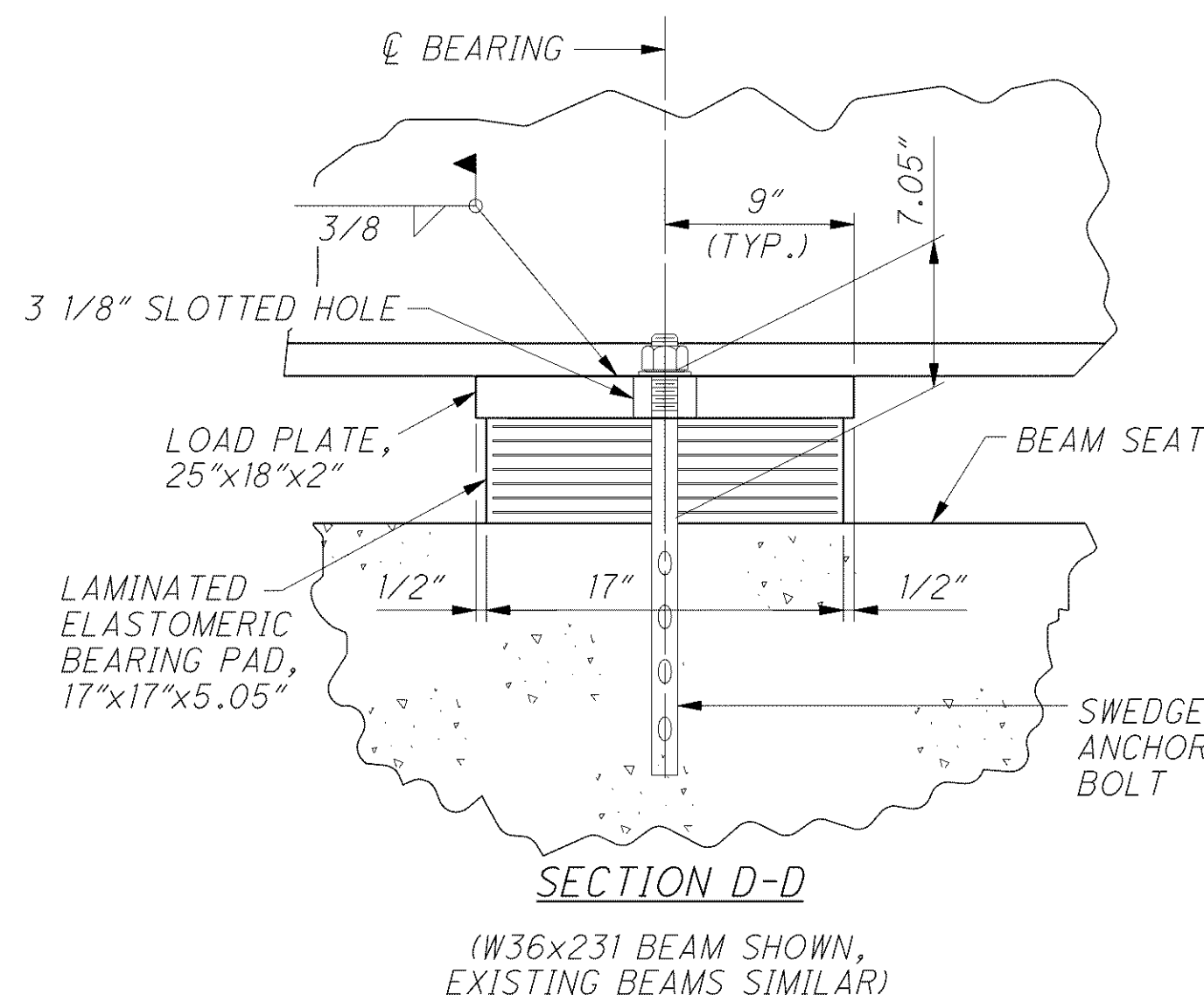
SECTION A-A  
(W36x231 BEAM SHOWN, EXISTING BEAMS SIMILAR)



SECTION C-C  
(W36x231 BEAM SHOWN, EXISTING BEAMS SIMILAR)



SECTION B-B  
(W36x231 BEAM SHOWN, EXISTING BEAMS SIMILAR)

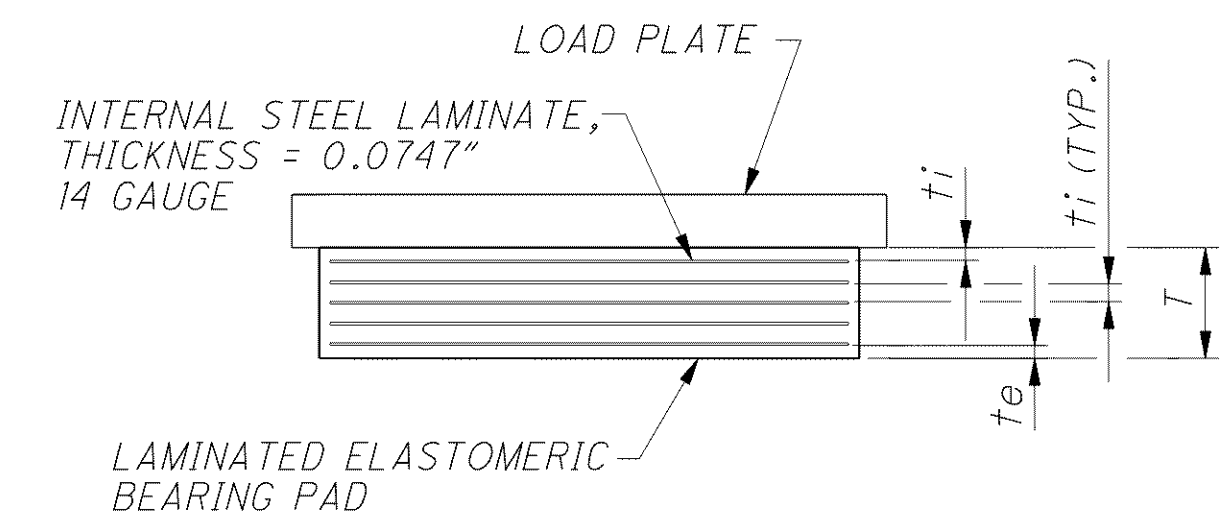


SECTION D-D  
(W36x231 BEAM SHOWN, EXISTING BEAMS SIMILAR)

\* - PERPENDICULAR TO CENTERLINE OF BEARING

BEAM NO.	"DIM. B"	
	REAR ABUTMENT	FORWARD ABUTMENT
1	6 1/16	6
2	6	7 1/16
3	6	6
A	7 1/8	6 1/4
B	7 3/16	6 1/4
C	6 1/4	6 11/16
D	6 1/4	6 1/4
E	6 1/4	6 1/4
F	6 1/4	6 1/4
G	6 3/16	6 3/16
4	8 1/2	6
5	6 1/16	6 1/4
6	7 3/4	7 3/8
7	9 3/4	9 15/16
H	10 5/16	10 3/8
J	6 1/4	6 1/4
K	6 1/4	6 1/4
L	6 1/4	6 1/4
M	6 1/4	6 1/4
N	6 1/4	6 1/4
8	6	6 1/16
9	6 5/8	6
10	6	6
11	6	6
12	6	6

- NOTES**
- LOAD PLATES: THE STEEL LOAD PLATE AND HP10x42 SUPPORT BEAMS SHALL BE ASTM A709, GRADE 50. THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS. WELDING OF THE LOAD PLATE AND THE HP10x42 SUPPORT BEAM SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300° F AS DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
  - ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 60 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION 1, SECTION 14.6.6.3 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
  - ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL ABUTMENT BEARINGS, INCLUDING LOAD PLATES, SUPPORT BEAM BEARING RETAINERS, AND ANCHOR RODS, SHALL BE INCLUDED IN ITEM 516, ELASTOMERIC BEARING WITH INTERNAL LAMINATES (15"x15"x3.82") AND LOAD PLATE (16"x16"x1 1/2") (NEOPRENE) A.P.P. FOR PAYMENT.
  - ALL MATERIALS, LABOR, AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL PIER BEARINGS, INCLUDING LOAD PLATES, AND ANCHOR BOLTS SHALL BE INCLUDED IN ITEM 516, ELASTOMERIC BEARING WITH INTERNAL LAMINATES (17"x17"x5.05") AND (25"x18"x2") (NEOPRENE), A.P.P. FOR PAYMENT.
  - 1" DIAMETER VENT HOLES IN EXISTING BEAM FLANGE, SHALL BE FIELD DRILLED. FLAME CUTTING OF HOLES IS NOT PERMITTED. FIELD DRILLING SHALL BE INCLUDED WITH ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN FOR PAYMENT.
  - FOR ABUTMENT DETAILS SEE SHEETS 16 | 56 THRU 23 | 56.
  - FOR FRAMING PLANS AND BEAM DETAILS SEE SHEETS 29 | 56 THRU 32 | 56.
  - BEARING REPOSITIONING: IF THE STEEL IS ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80° F OR LOWER THAN 40° F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60° F (+/- 10° F), RAISE THE BEAMS TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60° F (+/- 10° F).
  - AT THE OPTION OF THE CONTRACTOR, THE BEARING ANCHOR RODS LOCATED AND SUPPORTED BY TEMPLATES, MAY BE CAST-IN-PLACE.
  - FOR PIER DETAILS SEE SHEETS 24 | 56 THRU 27 | 56.
  - FOR BEARING RETAINER DETAILS SEE ODOT STD. BRIDGE DWG. SICD-1-96.
  - FOR LOCATION OF BEARING RETAINER SEE SHEETS 16 | 56, 17 | 56, 20 | 56 AND 21 | 56.
  - FOR LEGEND OF ABBREVIATIONS, SEE SHEET 4 | 56.



BEARING PAD DETAIL

BEARING DATA								
LOCATION	60 DUROMETER							
	SIZE		(THICKNESS) "DIM. T"	t <sub>i</sub>	t <sub>e</sub>	NUMBER OF t <sub>i</sub>	NUMBER OF t <sub>e</sub>	NUMBER OF STEEL LAMINATES
	L	W						
ABUTMENTS	15"	15"	3.82"	0.750"	0.525"	4	1	4
PIERS	17"	17"	5.05"	0.688"	0.481"	6	1	6

BEARING LOAD DATA			
LOCATION	DEAD LOAD (KIPS/PAD)	LIVE LOAD (W/O IMPACT) (KIPS/PAD)	DESIGN LOAD (KIPS/PAD)
REAR ABUT.	84.61	51.39	136.00
FORWARD ABUT.	84.61	51.39	136.00
PIERS	160.44	64.33	224.77