

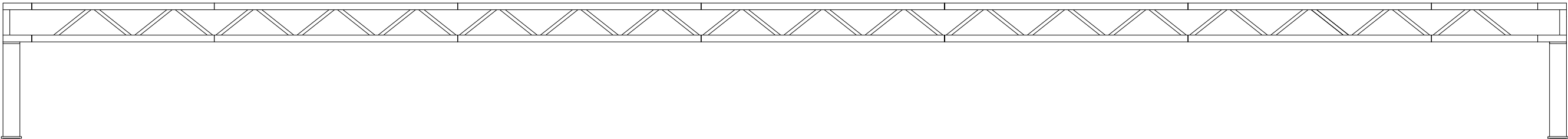
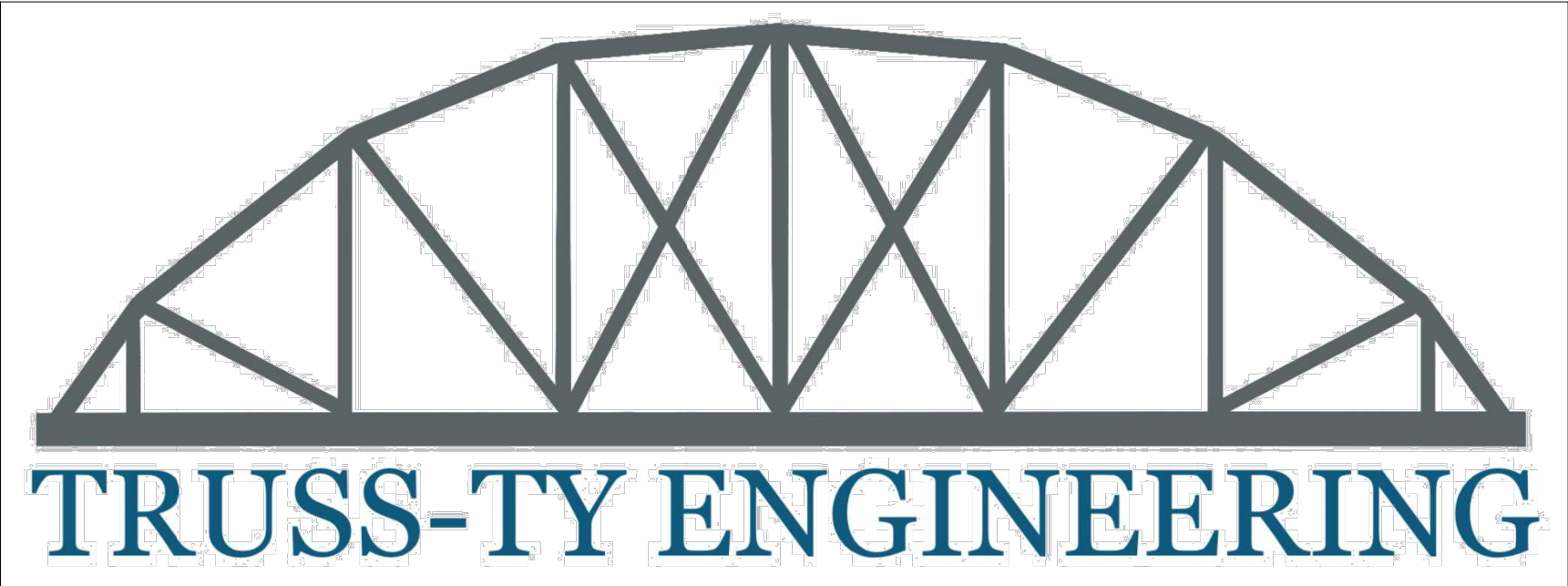
2025 NAU ASCE STEEL BRIDGE

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REVISION 5
100% PLAN SET



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CUT STEEL MEMBERS SCHEDULE									
PIPE 1/4"	QUANTITY	X65 @ 38°							
	LENGTH	0'-6 1/16"							
HSS 1"X2"X1/8"	QUANTITY	X25	X4	X2	X2	X8	x4	X8	X2
	LENGTH	3'-0"	2'-3"	1'-3 3/4"	0'-9 3/4"	0'-4 1/4"	0'-3 3/4"	1'-11 3/4"	2'-0"
HSS 2 1/2"X2 1/2"X1/8"	QUANTITY	X4							
	LENGTH	1'-1 3/4"							
1/4" PLATE	QUANTITY	X32	X30	X6	X11	X32	X4	X4	
	LENGTH	5"X1"	1"X2"	3"X2"	1 1/2" X 2"	2 1/2" X 1"	2 1/2" X 2 1/2"	3" X 3"	

WELDED PIECE SCHEDULE	
A	X 9
B	X 2
C	X 1
D	X 1
E	X 4

LATERAL BRACING SCHEDULE	
HSS 1"X2"X $\frac{1}{8}$ "X1' 11 $\frac{3}{4}$ "	X 8
HSS 1"X2"X $\frac{1}{8}$ "X3'	X 7
HSS 1"X2"X $\frac{1}{8}$ "X2'	X 2

CONNECTION PLATING SCHEDULE					
PLATE LENGTH (IN.)	2	2	2 1/2	3	5
PLATE WIDTH (IN.)	1	1 1/2	1	2	1
CONNECTION #					
1					x2
2	x2				
3		X1	VARIES*		
4			X3	X1	

* MAY NEED X1 OR X2 PLATES. SEE PAGE 5 FOR CLARIFICATION

LEGEND

HIDDEN LINE

SECTION CUT NUMBER

SECTION CUT PAGE

TYPICAL CONNECTION

CONNECTION CALLOUT

TYPICAL

FILLET WELD CALLOUT

CONNECTION SCHEDULE	
CONNECTION #	# OF SIMILAR SECTIONS
1	X16
2	X15
3	X11
4	X6

GENERAL STRUCTURAL NOTES

-TOLERANCES AT CONNECTIONS SHOULD BE WITHIN $\frac{1}{16}$ " OF SPECIFIED DIMENSIONS

-ALL WELDS ARE $\frac{1}{8}$ "

-ALL BOLTS ARE $\frac{1}{2}$ "



SCALE: N/A

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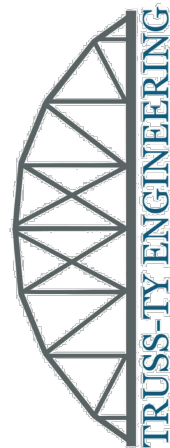
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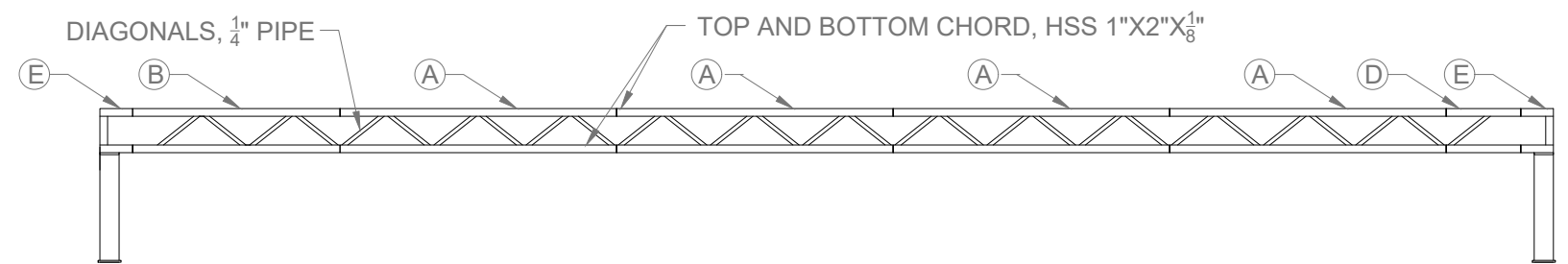
CHECKED BY: SJ,KW,LZ

DATE: JANUARY 2025

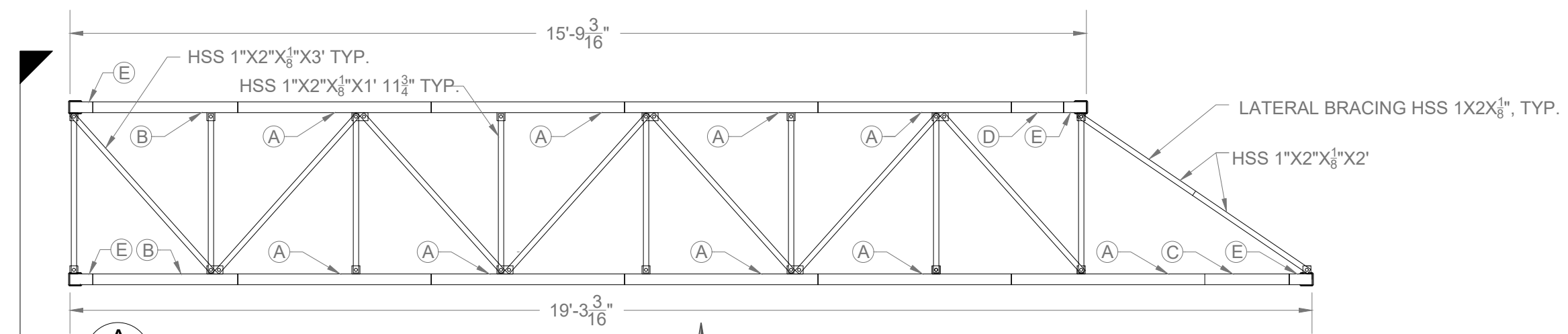
2025 NAU STEEL BRIDGE

STEEL MEMBER SCHEDULE

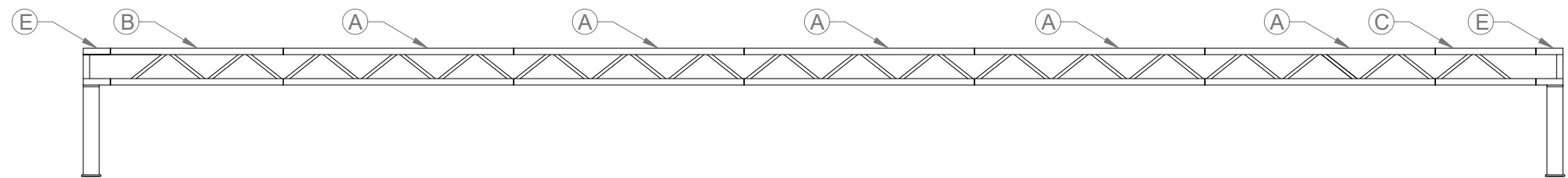




ELEVATION VIEW
(LOOKING SOUTH)



TOP VIEW



ELEVATION VIEW
(LOOKING NORTH)

NOTES:
REFER TO SHEETS 3 THRU 4
FOR PART DETAILS

SCALE: 1/2"=1'

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DATE: JANUARY 2025

2025 NAU STEEL BRIDGE

PLAN & PROFILE VIEWS

CONNECTION LOCATIONS



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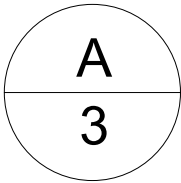
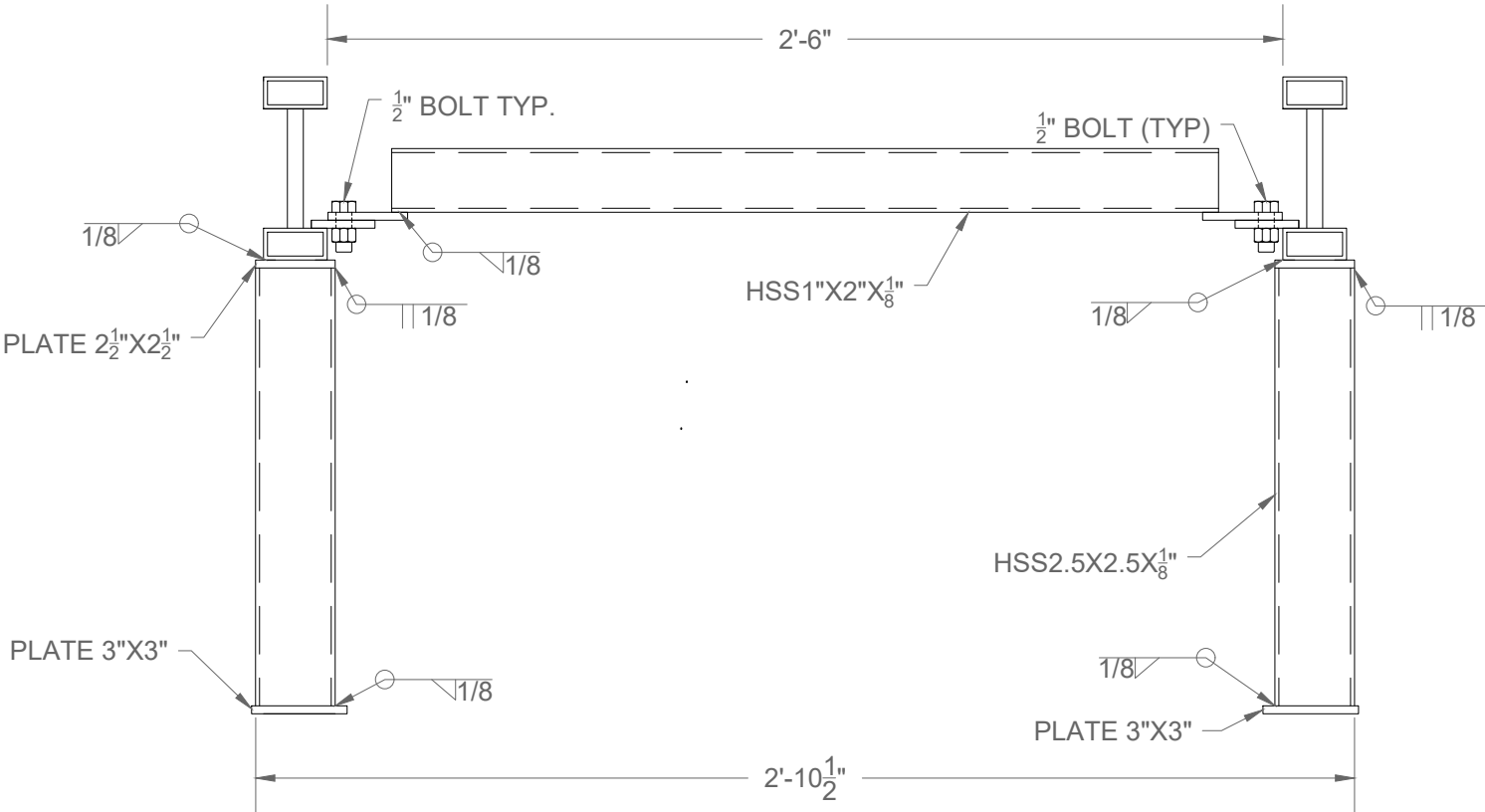
A		
	HSS 1"x2"x $\frac{1}{8}$ "	PIPE $\frac{1}{4}$ "
LENGTH	3'-0"	0'-6 1/16"
# OF PIECES	2	6

B		
	HSS 1"x2"x $\frac{1}{8}$ "	PIPE $\frac{1}{4}$ "
LENGTH	2'-3"	0'-6 1/16"
# OF PIECES	2	4

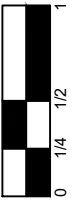
C		
	HSS 1"x2"x $\frac{1}{8}$ "	PIPE $\frac{1}{4}$ "
LENGTH	1'-3 3/4"	0'-6 1/16"
# OF PIECES	2	2

D		
	HSS 1"x2"x $\frac{1}{8}$ "	PIPE $\frac{1}{4}$ "
LENGTH	0'-9 3/4"	0'-6 1/16"
# OF PIECES	2	1

E					
	HSS 1"x2"x $\frac{1}{8}$ "	HSS 1"x2"x $\frac{1}{8}$ "	HSS 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2	PLATE $\frac{1}{4}$ "	PLATE $\frac{1}{4}$ "
LENGTH	0'-4 1/4"	0'-3 3/4"	1'-1 3/4"	3"x3"	2 $\frac{1}{2}$ " X 2 $\frac{1}{2}$ "
# OF PIECES	2	1	1	1	1



SECTION A-A



SCALE: 2"=1'

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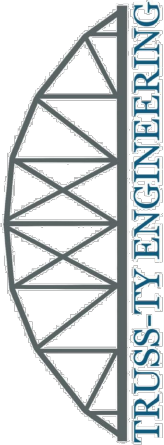
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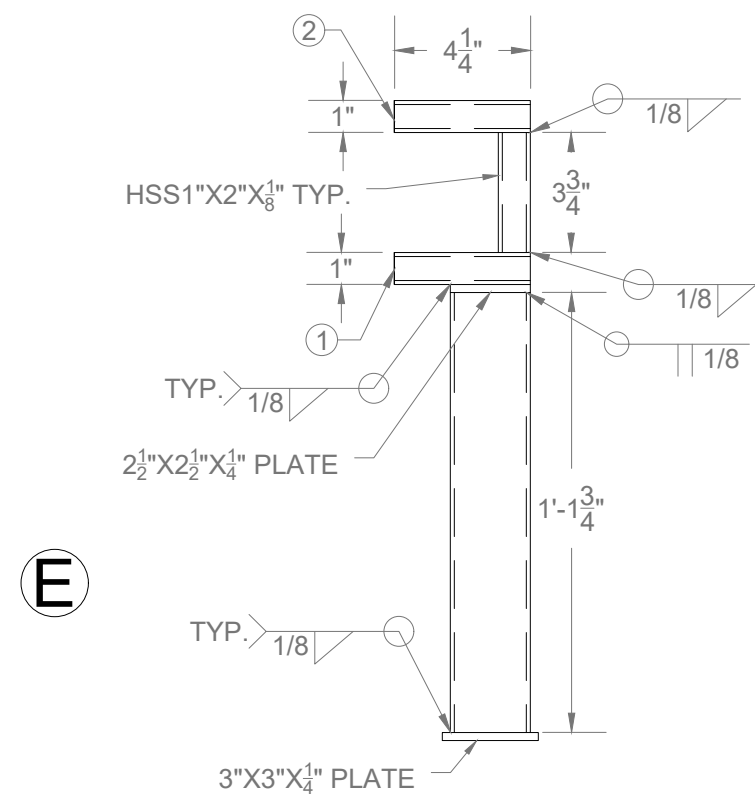
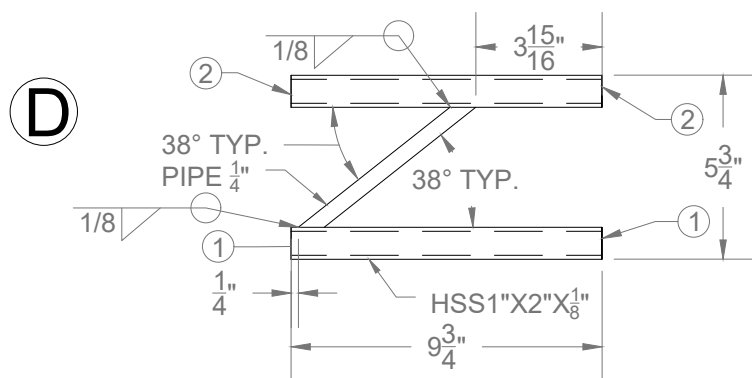
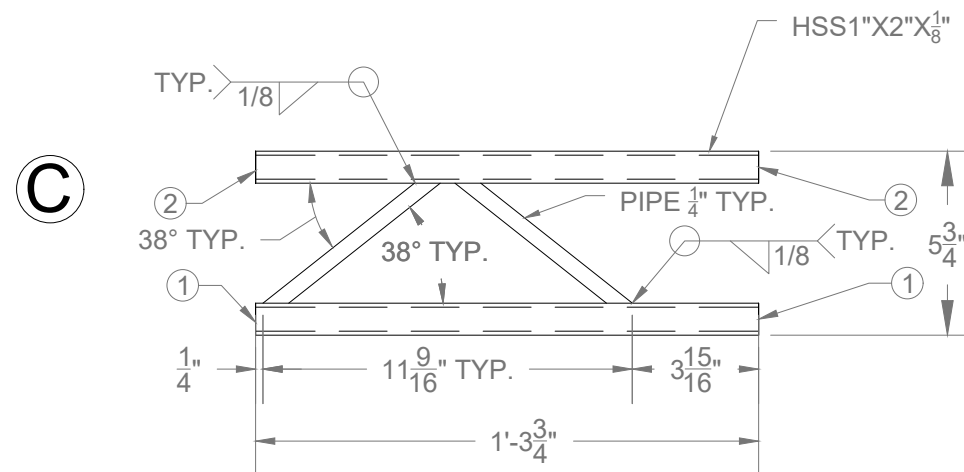
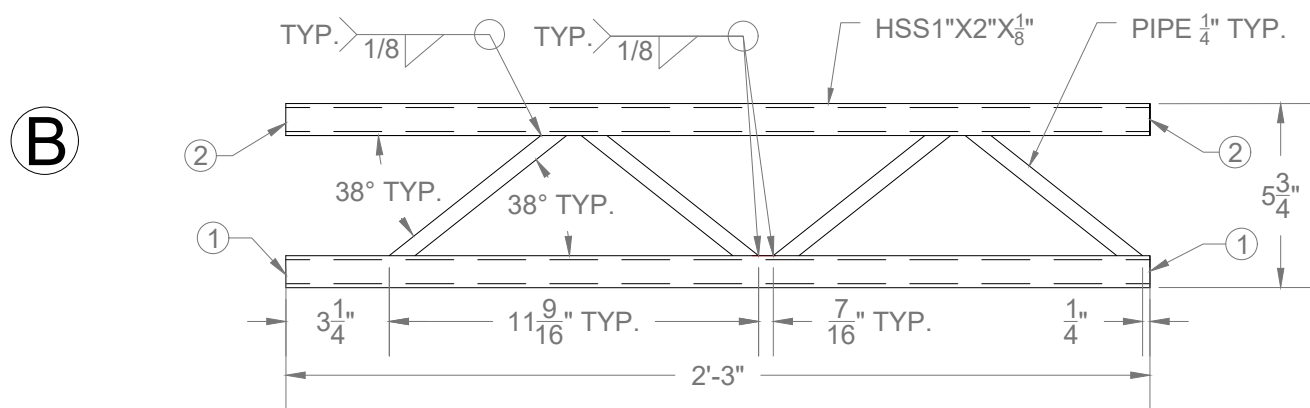
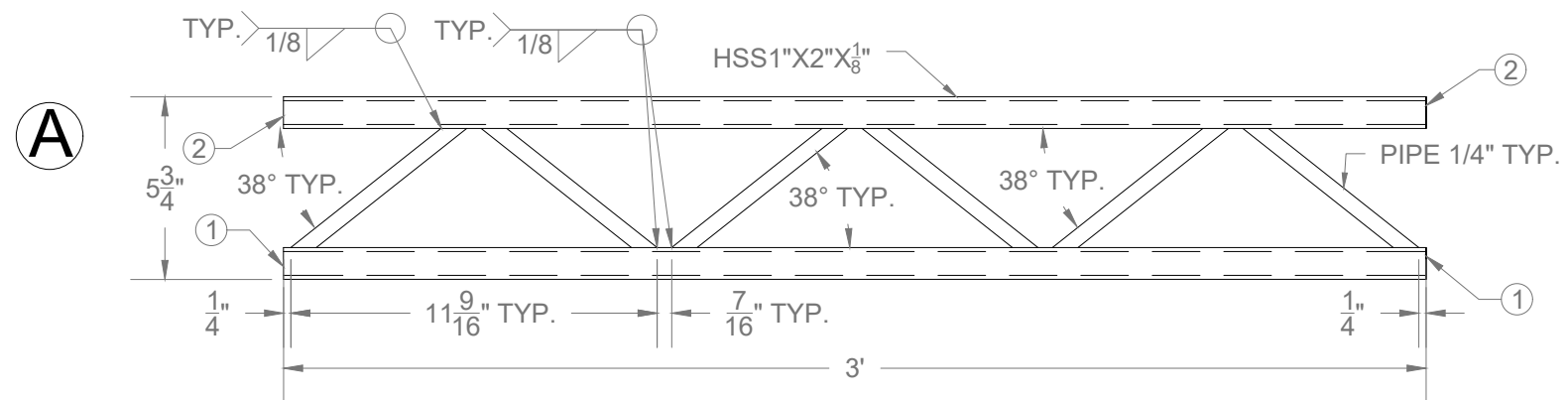
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DATE: JANUARY 2025

2025 NAU STEEL BRIDGE
MEMBERS BY WELDED PIECE
SECTION A-A





SCALE: 2"=1'

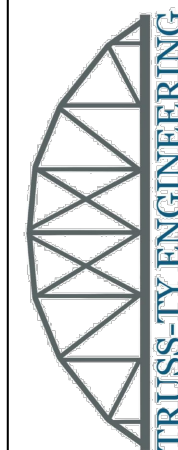
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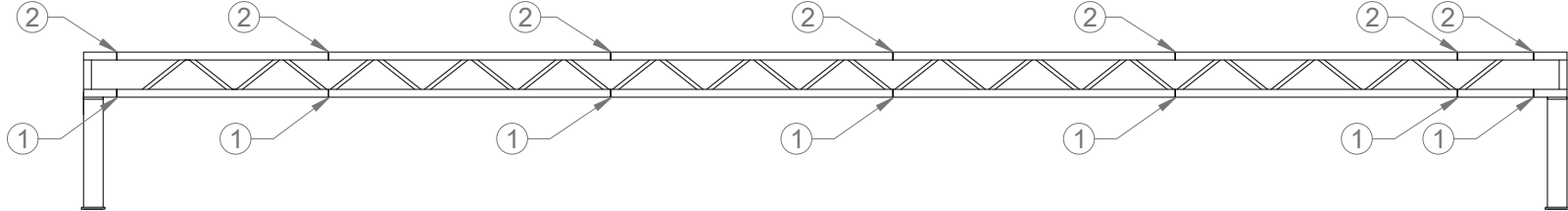
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2025 NAU STEEL BRIDGE

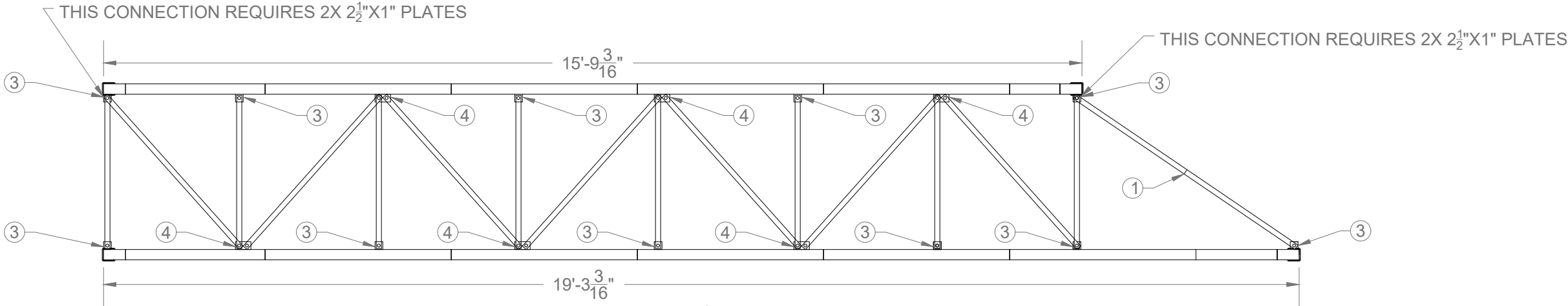
WELDED MEMBER PIECES



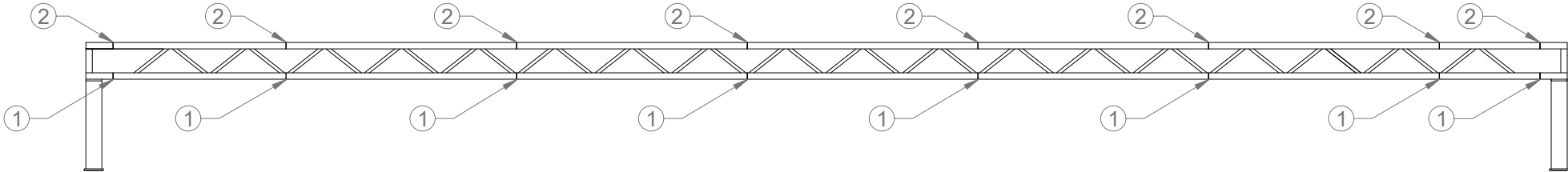
NOTES:
REFER TO SHEETS 6 THRU 8
FOR CONNECTION DETAILS



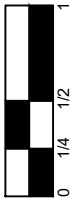
ELEVATION VIEW
(LOOKING SOUTH)



TOP VIEW



ELEVATION VIEW
(LOOKING NORTH)



SCALE: 1/2"=1'

DRAWN BY: AG

CHECKED BY: SJ,KW,LZ

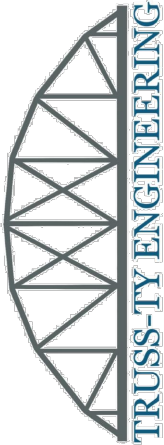
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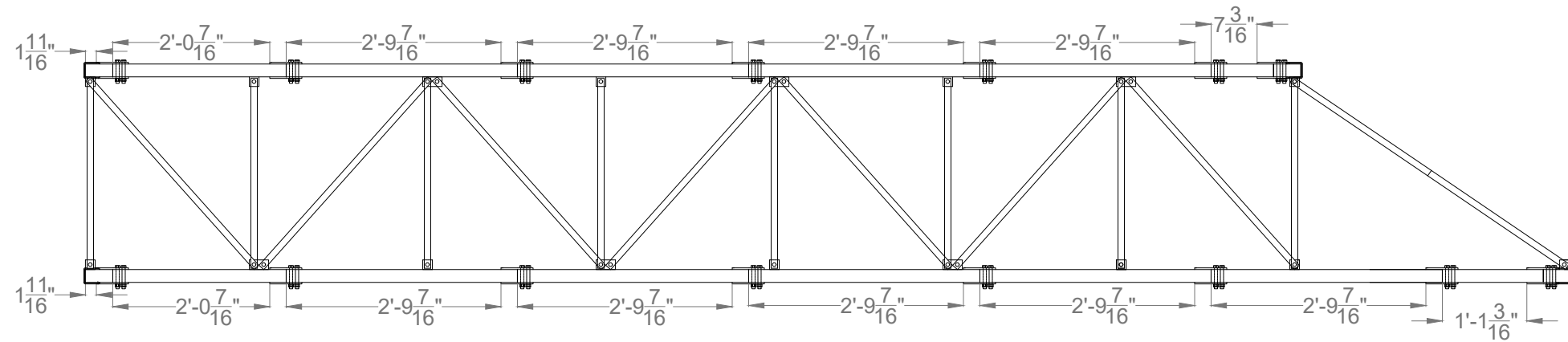
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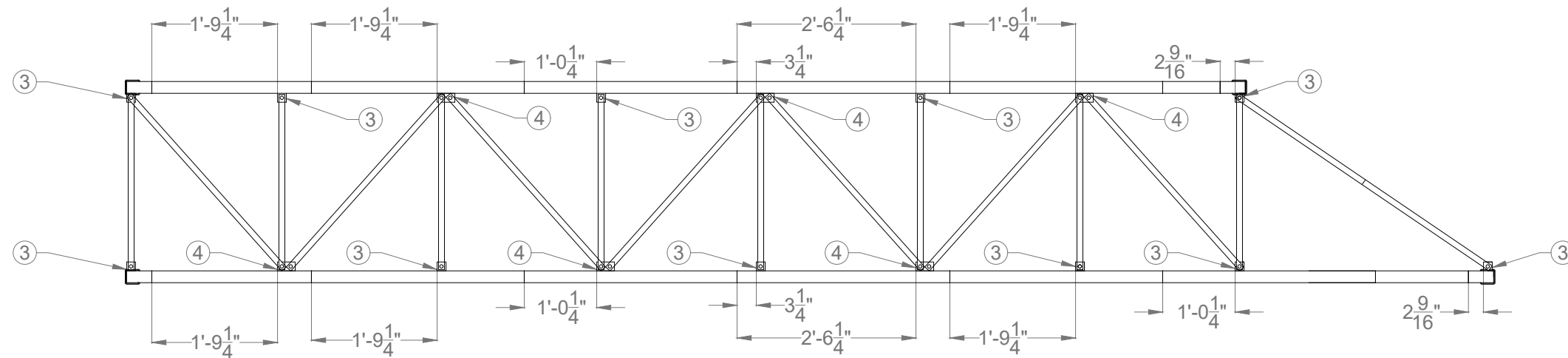
2025 NAU STEEL BRIDGE

CONNECTION LOCATIONS

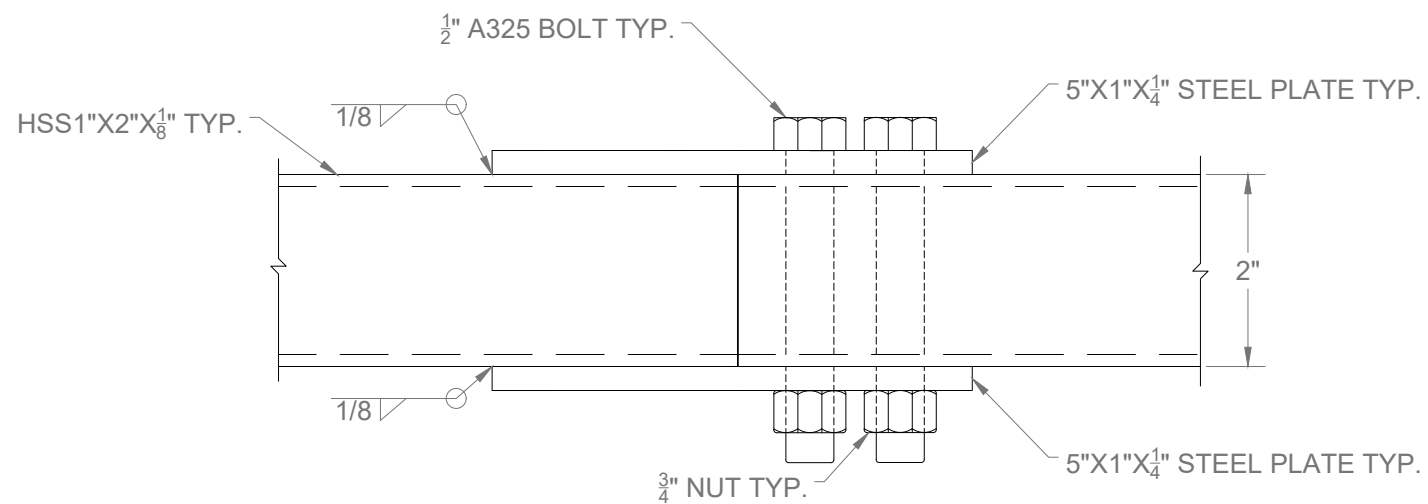




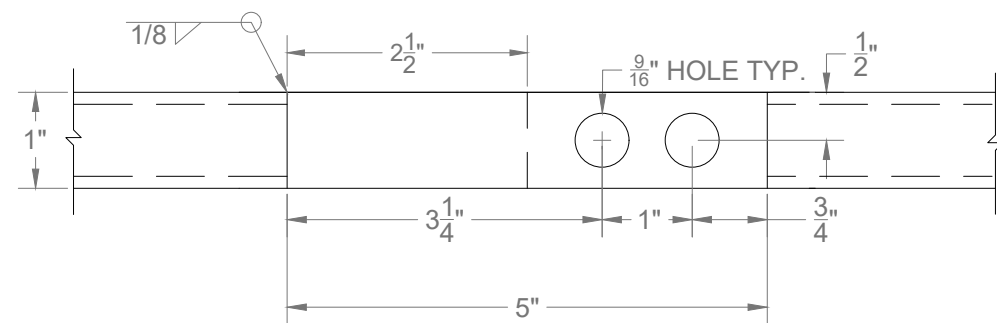
PLATING LOCATION AND ORIENTATION FOR CONNECTION 2



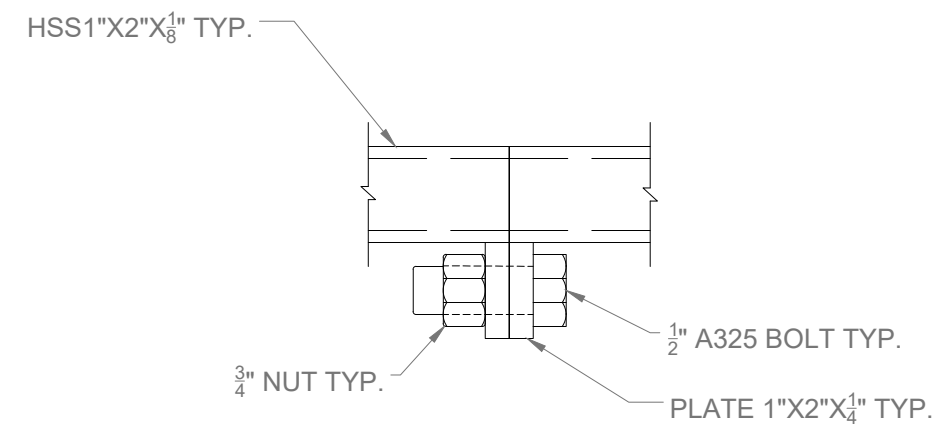
PLATING LOCATIONS FOR CONNECTION 3 & 4



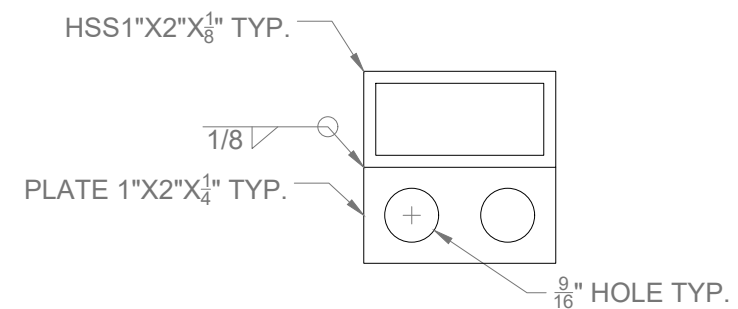
TOP VIEW



SIDE VIEW



SIDE VIEW



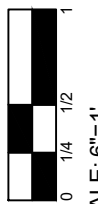
CUT VIEW

1

CONNECTION 1 TYPICAL DETAIL

2

CONNECTION 2 TYPICAL DETAIL



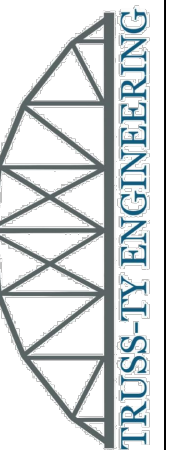
SCALE: 6"=1'

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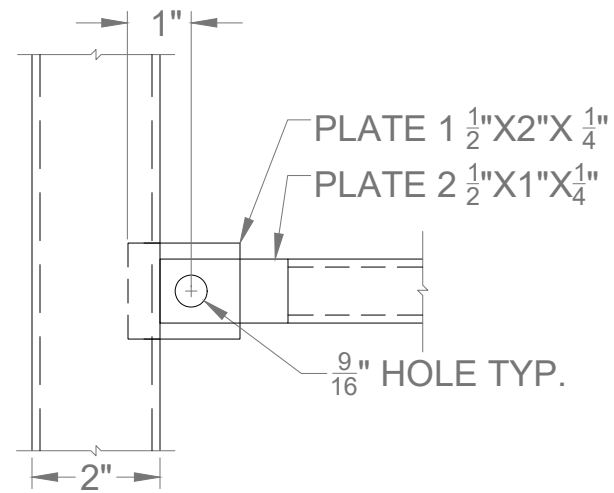
2025 NAU STEEL BRIDGE

CONNECTION 1 & 2 DETAILS

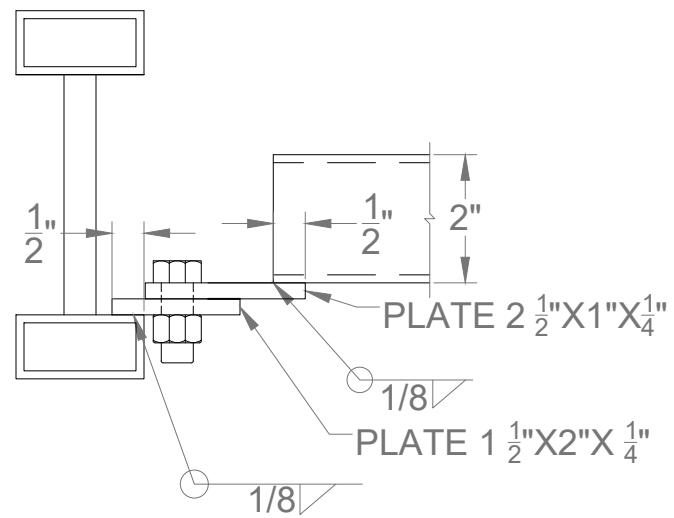


3

CONNECTION 3 TYPICAL DETAIL



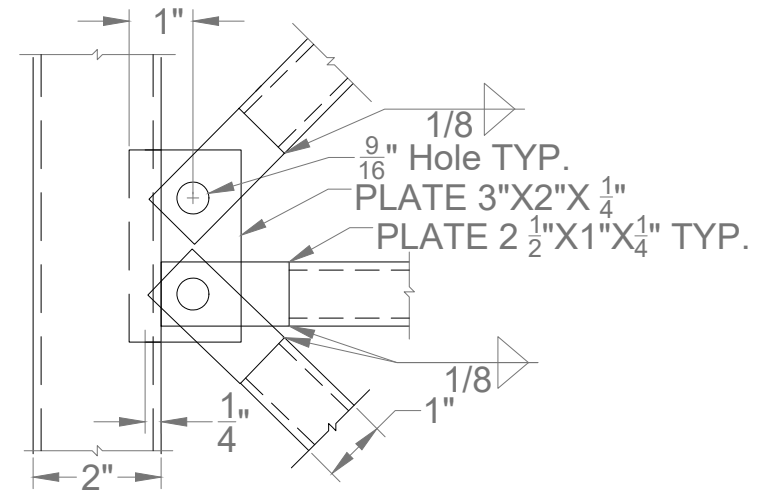
TOP VIEW



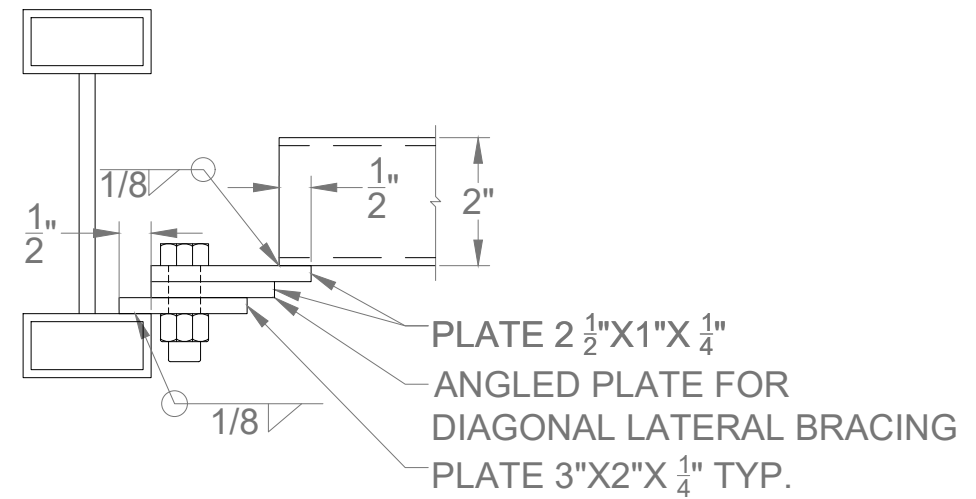
SIDE VIEW

4

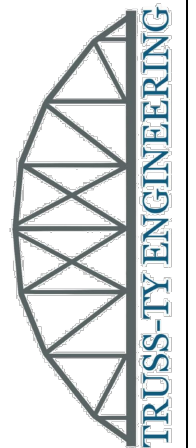
CONNECTION 4 TYPICAL DETAIL



TOP VIEW



SIDE VIEW



2025 NAU STEEL BRIDGE
CONNECTION 3 & 4 DETAILS

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SCALE: 4"=1'