

STRUCTURAL STEEL SHOP AND ERECTION DRAWINGS

ISSUED 2026-08-21

SHEET	TITLE	REV
S-001	COVER SHEET, GENERAL NOTES AND BILL OF MATERIAL	0
E-101	MEZZANINE FRAMING PLAN	0
B-201	BEAM DETAILS	0
C-301	COLUMN AND BASE PLATE DETAILS	0
D-401	TYPICAL CONNECTION DETAILS	0
D-402	WOOD FRAMING DETAILS	0

_____	COLUMN
_____	BEAM / GIRDER
_____	PLATE
_____	ANGLE / CLIP
_____	BOLT OR ANCHOR ROD
_____	WELD SYMBOL
_____	COLUMN GRID
— — — —	HIDDEN / COPED MATERIAL
_____	CENTRELINE / WORKPOINT
_____	DIMENSION

MARK	QTY	DESCRIPTION	LENGTH	GRADE	REMARKS
C1	6	W10x49	12'-0"	A992	BASE AND CAP PL SHOP WELDED
G1	4	W18x40	23'-1"	A992	SHEAR TABS EACH END
B1	4	W16x26	19'-8 1/2"	A992	COPE TOP FLG 2 ENDS
B2	3	W16x26	19'-1"	A992	GRIDS A, B, C - TO COLUMNS
BP1	6	PL 3/4 x 16 x 16	-	A36	SHOP WELDED TO C1
CP1	6	PL 1/2 x 10 x 10	-	A36	CAP PL, SHOP WELDED TO C1
ST1	14	PL 3/8 x 4 x 0'-10 1/2"	-	A36	SHEAR TAB - 8 FOR G1, 6 FOR B2
CL1	8	2L4x3 1/2x5/16 x 0'-8 1/2"	-	A36	BEAM CLIP ANGLES, B1 TO G1
BR1	1	2L4x4x3/8	23'-4"	A36	VERT BRACING - GRID A, 1 TO 2
BR2	1	2L4x4x3/8	26'-10"	A36	VERT BRACING - GRID 1, A TO B
GP1	4	PL 1/2 GUSSET	-	A36	2 PER BRACE - SEE 2/D-401
TP1	7	PL 3/8 x 8	19'-8 1/2"	A36	CONT. TOP PL, SHOP WELDED
CA1	156	L4x4x1/4 x 0'-6"	-	A36	CLIP ANGLE, 1 PER JOIST END
AB1	66	3/4" DIA x 2 1/4" BOLT	-	F3125	A325-N, 13/16" STD HOLES
BJ1	312	1/2" DIA x 3" BOLT	-	A307	2 PER CA1, THRU JOIST
AR1	24	3/4" DIA x 1'-6" ANCHOR ROD	-	F1554	NUT AND WASHER
J1	78	2x10 D.FIR-L No.2	7'-10"	WOOD	BY G.C. - NOT IN STEEL CONTRACT

3. ALL WORK SHALL CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360) AND THE AISC CODE OF STANDARD PRACTICE.
4. MATERIAL: W-SHAPES ASTM A992 (Fy = 50 KSI). PLATES, ANGLES AND BARS ASTM A36 (Fy = 36 KSI). HSS ASTM A500 GRADE C.
5. BOLTS: 3/4" DIA ASTM F3125 GRADE A325-N IN 13/16" STANDARD HOLES, SNUG-TIGHTENED U.N.O.
6. WELDING: E70XX ELECTRODES, BY AWS D1.1 QUALIFIED WELDERS.
7. ANCHOR RODS: ASTM F1554 GRADE 36, 3/4" DIA U.N.O., WITH HEAVY HEX NUT AND WASHER.
8. SHOP PAINT: ONE COAT RUST-INHIBITIVE PRIMER. DO NOT PAINT SURFACES TO BE WELDED, OR FAYING SURFACES OF SLIP-CRITICAL CONNECTIONS.
9. ALL BEAM CONNECTIONS ARE SHOP-WELDED / FIELD-BOLTED U.N.O.
10. PROVIDE 4" MINIMUM BEARING AT ALL BEAMS ON MASONRY OR CONCRETE.
11. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE FABRICATION.
12. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN.
13. WOOD FRAMING: 2x10 D.FIR-L No.2 JOISTS @ 18" O.C. BEARING ON TOP PLATE TP1, WITH CLIP ANGLE C&1 AND 2 - 1/2" DIA ASTM A307 BOLTS AT EACH JOIST END. SEE D-402. JOISTS AND SHEATHING BY G.C.
14. THE MEZZANINE DECK IS WOOD FRAMED. NO COMPOSITE STEEL DECK IS USED ON THIS PROJECT.
15. VERTICAL BRACING: 2L4x4x3/8 BRACES BR1 AND BR2 IN THE BAYS NOTED ON E-101, ONE IN EACH ORTHOGONAL DIRECTION, WITH PL 1/2 GUSSETS EACH END. SEE 2/D-401. BRACE WORK POINTS AT THE BEAM AND COLUMN INTERSECTION.
16. MEMBER SIZES SHOWN ARE FOR DRAFTING ILLUSTRATION ONLY AND HAVE NOT BEEN ENGINEERED. THIS SET IS NOT FOR CONSTRUCTION.

 CLEARLINE CAD

SHOP DRAWINGS | DETAILING | CAD AUTOMATION

clearlinecontent.com dylan@clearlinecontent.com KANSAS CITY, MO

CLIENT

SAMPLE CLIENT - STEEL FABRICATOR

PROJECT

SAMPLE PROJECT - MEZZANINE

1400 BALTIMORE AVE, KANSAS CITY, MO

SHEET TITLE

COVER SHEET
GENERAL NOTES AND BILL OF MATERIAL

DRAWN BY

DE

CHECKED BY _____

DF

DATE _____

2026-08-21

JOB NC

CL-2602

SCALE

NONE

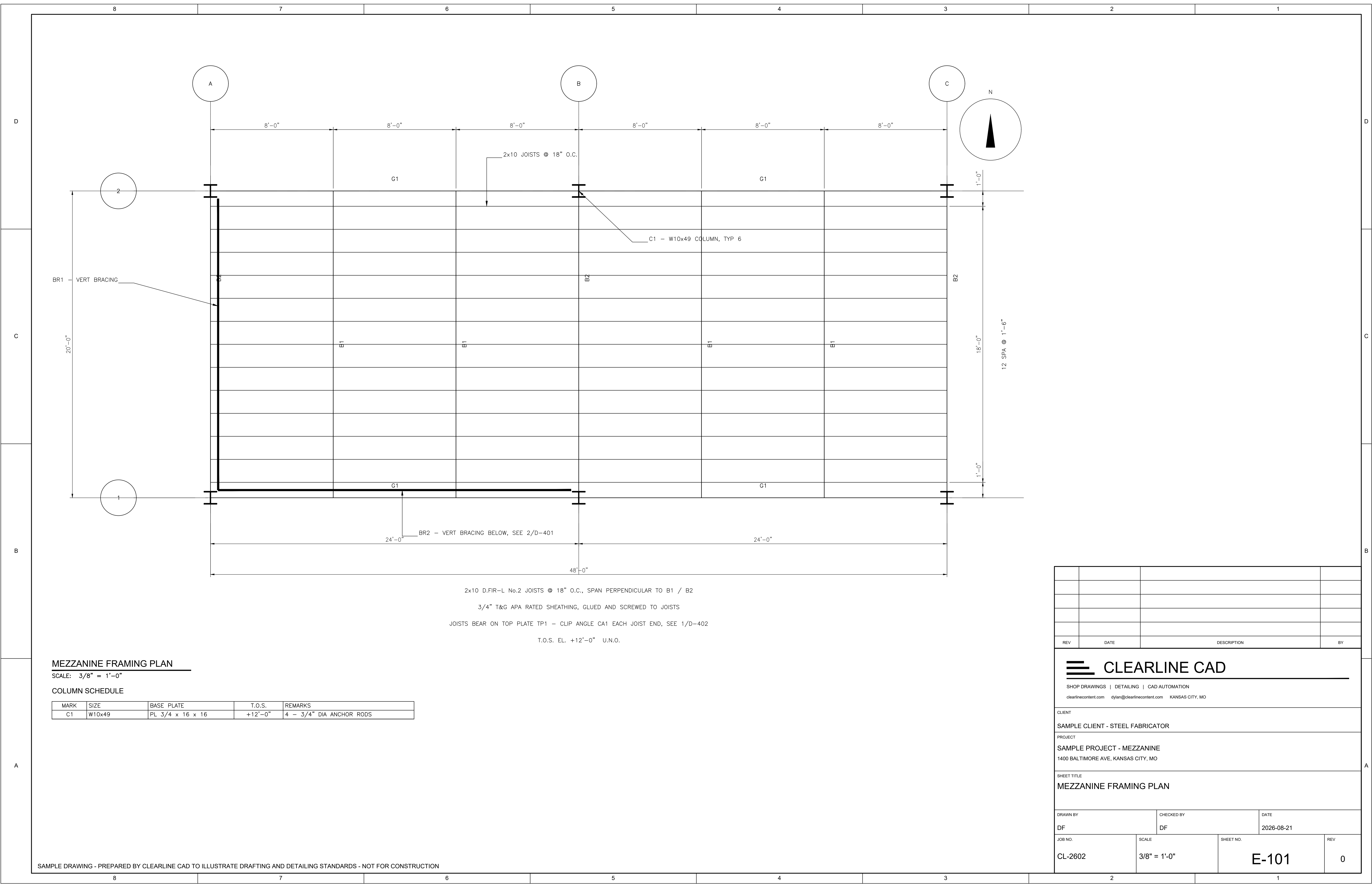
SHEET NO.

S-001

REV

C

SAMPLE DRAWING - PREPARED BY CLEARLINE CAD TO ILLUSTRATE DRAFTING AND DETAILING STANDARDS - NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION	BY
CLEARLINE CAD SHOP DRAWINGS DETAILING CAD AUTOMATION clearlinecontent.com dylan@clearlinecontent.com KANSAS CITY, MO			
CLIENT			
SAMPLE CLIENT - STEEL FABRICATOR			
PROJECT			
SAMPLE PROJECT - MEZZANINE			
1400 BALTIMORE AVE, KANSAS CITY, MO			
SHEET TITLE			
MEZZANINE FRAMING PLAN			
DRAWN BY		CHECKED BY	DATE
DF		DF	2026-08-21
JOB NO.	SCALE	SHEET NO.	REV
CL-2602	3/8" = 1'-0"	E-101	0

D

C

B

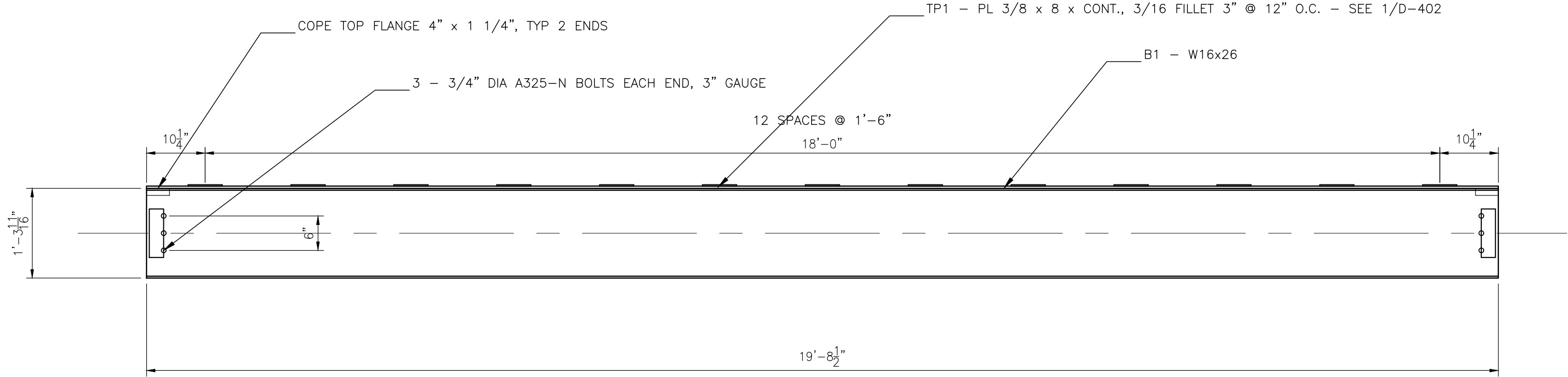
A

D

C

B

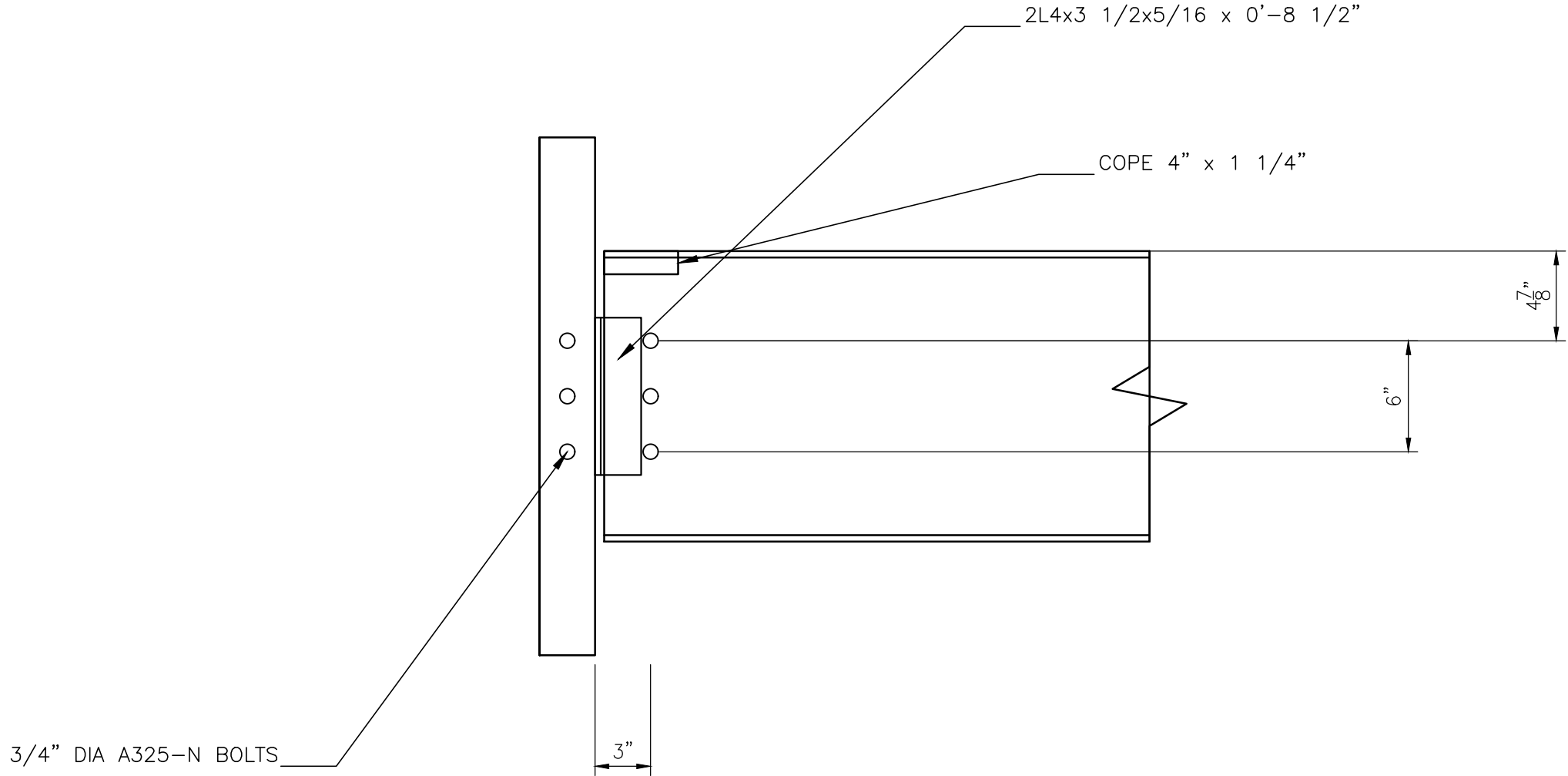
A



1 BEAM B1 - TYPICAL OF 4

BEAM B1

SCALE: 3/4" = 1'-0"



2 BEAM END CONNECTION

BEAM END CONNECTION

SCALE: 1 1/2" = 1'-0"

REV	DATE	DESCRIPTION	BY
CLEARLINE CAD SHOP DRAWINGS DETAILING CAD AUTOMATION clearlinecontent.com dylan@clearlinecontent.com KANSAS CITY, MO			
CLIENT			
SAMPLE CLIENT - STEEL FABRICATOR			
PROJECT			
SAMPLE PROJECT - MEZZANINE			
1400 BALTIMORE AVE, KANSAS CITY, MO			
SHEET TITLE			
BEAM DETAILS			
B1 - W16x26			
DRAWN BY		CHECKED BY	DATE
DF		DF	2026-08-21
JOB NO.	SCALE	SHEET NO.	REV
CL-2602	AS NOTED	B-201	0

D

C

B

A

D

C

B

A

8

7

6

5

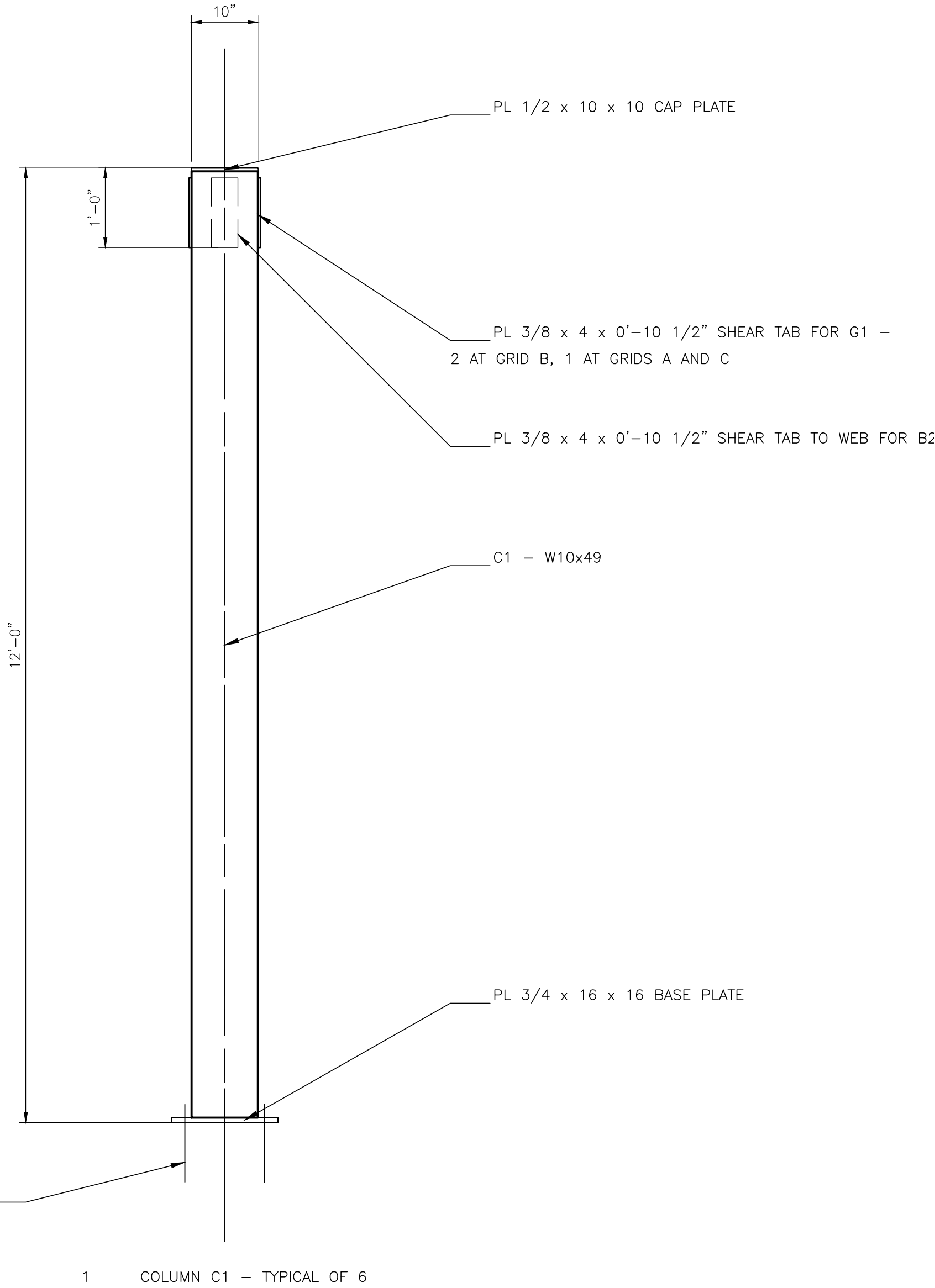
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3

2

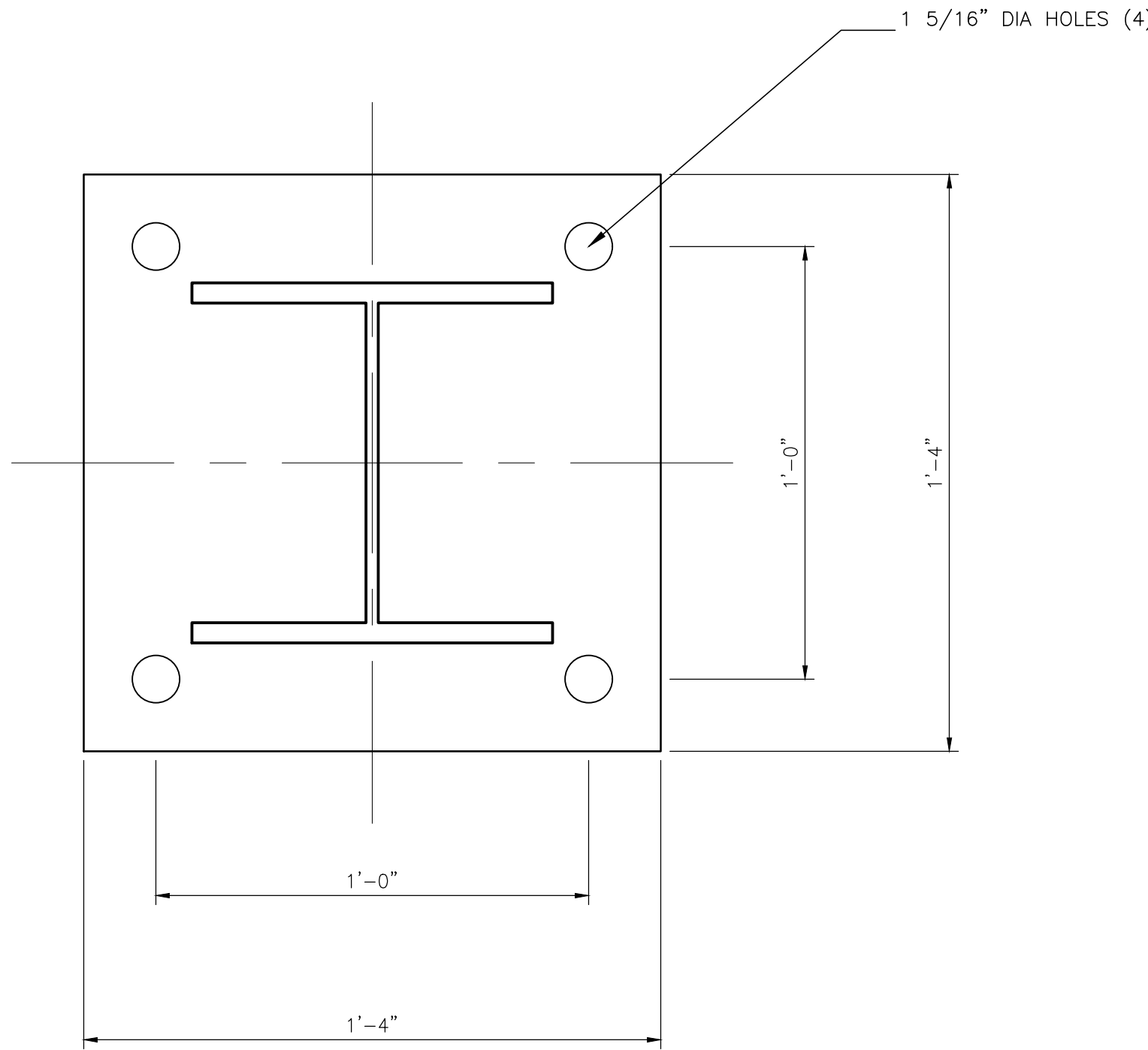
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4 - 3/4" DIA ANCHOR RODS



COLUMN C1

SCALE: 3/4" = 1'-0"



BASE PLATE PLAN

SCALE: 3" = 1'-0"

8

7

6

5

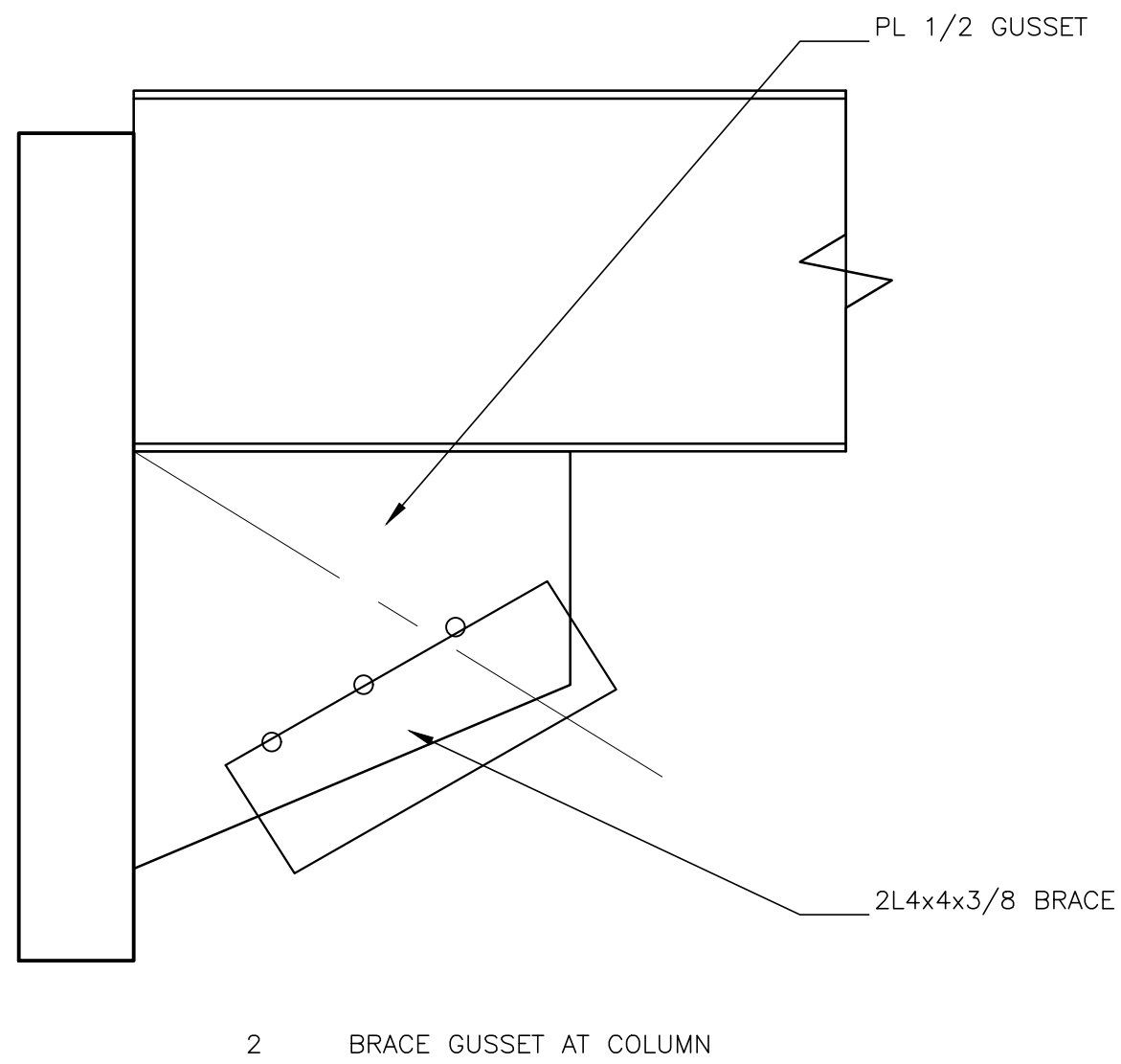
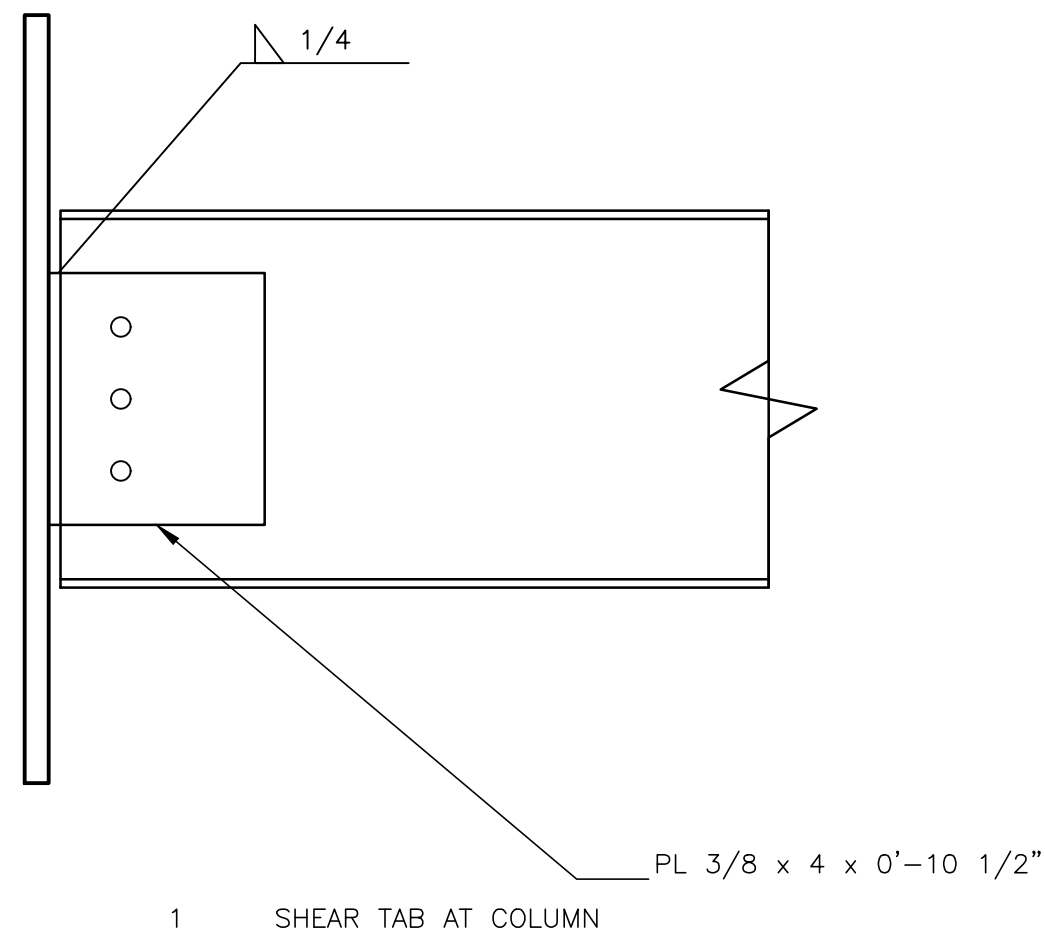
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3

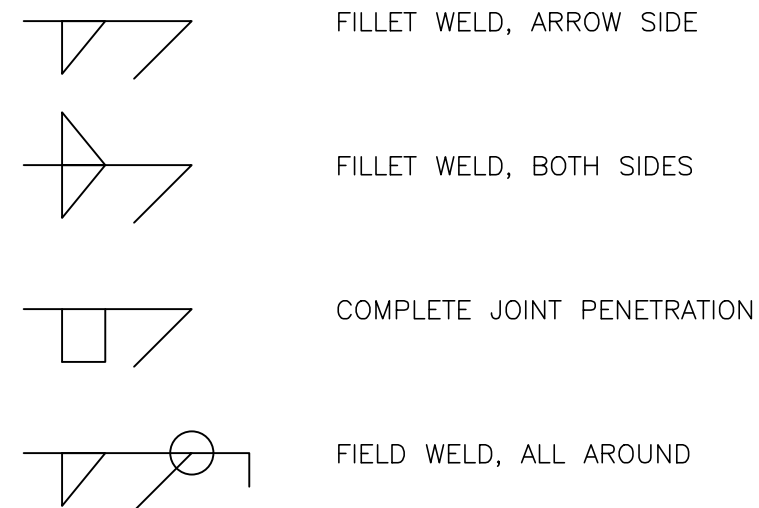
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1

REV	DATE	DESCRIPTION	BY
CLEARLINE CAD SHOP DRAWINGS DETAILING CAD AUTOMATION clearlinecontent.com dylan@clearlinecontent.com KANSAS CITY, MO			
CLIENT			
SAMPLE CLIENT - STEEL FABRICATOR			
PROJECT			
SAMPLE PROJECT - MEZZANINE			
1400 BALTIMORE AVE, KANSAS CITY, MO			
SHEET TITLE			
COLUMN AND BASE PLATE DETAILS			
DRAWN BY		CHECKED BY	DATE
DF		DF	2026-08-21
JOB NO.	SCALE	SHEET NO.	REV
CL-2602	AS NOTED	C-301	0



TYPICAL WELD SYMBOLS



STANDARD BOLT GAUGES AND EDGE DISTANCES

BOLT DIA	STD. HOLE	MIN. EDGE DIST	MIN. SPACING
3/4"	13/16"	1"	2 1/4"
7/8"	15/16"	1 1/8"	2 5/8"
1"	1 1/16"	1 1/4"	3"

TYPICAL CONNECTIONS

SCALE: 1 1/2" = 1'-0"

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CLEARLINE CAD SHOP DRAWINGS DETAILING CAD AUTOMATION clearlinecontent.com dylan@clearlinecontent.com KANSAS CITY, MO			
CLIENT			
SAMPLE CLIENT - STEEL FABRICATOR			
PROJECT			
SAMPLE PROJECT - MEZZANINE 1400 BALTIMORE AVE, KANSAS CITY, MO			
SHEET TITLE			
TYPICAL CONNECTION DETAILS			
DRAWN BY		CHECKED BY	DATE
DF		DF	2026-08-21
JOB NO.	SCALE	SHEET NO.	REV
CL-1902	1 1/2" = 1'-0"	D-401	0

SAMPLE DRAWING - PREPARED BY CLEARLINE CAD TO ILLUSTRATE DRAFTING AND DETAILING STANDARDS - NOT FOR CONSTRUCTION

D

C

B

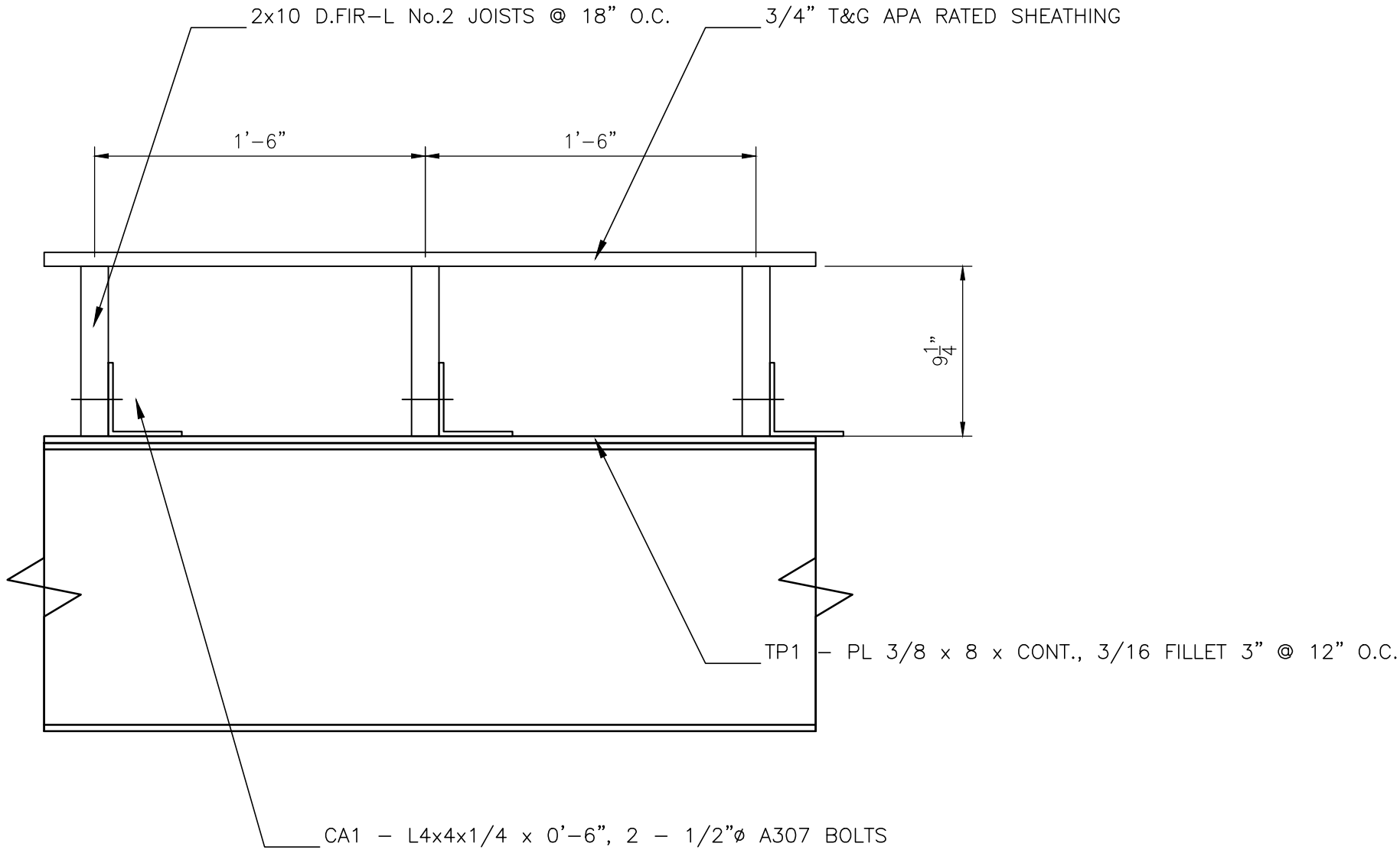
A

D

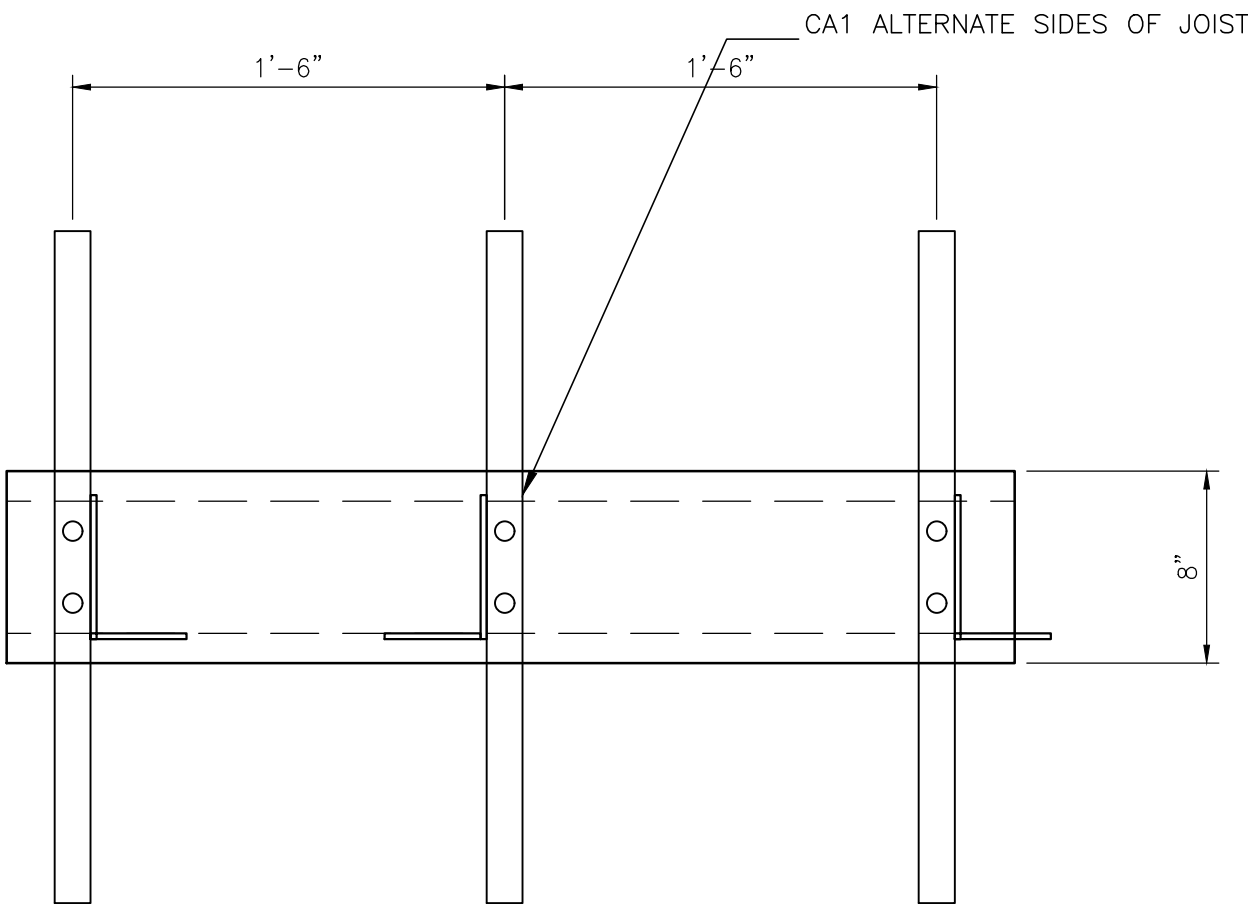
C

B

A



1 WOOD JOIST AT STEEL BEAM - SECTION



2 WOOD JOIST AT STEEL BEAM - PLAN

WOOD FRAMING DETAILS

SCALE: 1 1/2" = 1'-0"

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CLIENT			
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PROJECT			
SAMPLE PROJECT - MEZZANINE			
1400 BALTIMORE AVE, KANSAS CITY, MO			
SHEET TITLE			
WOOD FRAMING			
2x10 JOISTS AT STEEL			
DRAWN BY		CHECKED BY	DATE
DF		DF	2026-08-21
JOB NO.	SCALE	SHEET NO.	REV
CL-2602	1 1/2" = 1'-0"	D-402	0