

GENERAL NOTES:

1. THE PRIMARY FUNCTION OF THIS STRUCTURE IS TO CARRY PEDESTRIANS, BICYCLISTS, & UP TO OCCASIONAL H-10 VEHICLES AS SPECIFIED IN AASHTO'S LRFD GUIDE SPECIFICATION FOR THE DESIGN OF PEDESTRIAN BRIDGES
2. THIS STRUCTURE NOT DESIGNED FOR FLOOD LOADINGS
3. TAKE DISCRETION WHEN USING DE-ICING AGENTS ON BRIDGE STRUCTURES SO NOT TO VOID MANUFACTURER'S WARRANTY
4. BRIDGE BEARINGS SHALL BE CONSTRUCTED WITH RELATIVE ELEVATIONS SHOWN IN THIS DRAWING SET
5. BRIDGE SHALL BE CAMBERED PER THE CAMBER DIAGRAM TO OFFSET DEFLECTIONS
6. SHOP WELDING SHALL CONFORM TO AWS D1.1
7. ALL STRUCTURAL JOINT SPACING MAY VARY +/- 1" FROM THE DIMENSIONS SHOWN IN THIS DRAWING SET
8. ALL OPEN TUBE ENDS SHALL BE CAPPED UNLESS NOTED OTHERWISE

MATERIALS:

1. HSS SQUARE/RECTANGULAR TUBING SHALL BE ASTM A847
2. OPEN STRUCTURAL SHAPES AND PLATE SHALL BE ASTM A588
3. DECKING SHALL BE 4000PSI-145PCF CONCRETE BY OTHERS
4. ALL STRUCTURAL BOLTS SHALL BE HEAVY HEX HEAD ASTM A325, TYPE 3
5. ALL STRUCTURAL NUTS SHALL BE HEAVY HEX HEAD ASTM 563 DH, TYPE 3
6. ALL STRUCTURAL WASHERS SHALL BE ASTM F436, TYPE 3

FINISH:

1. ALL EXPOSED WEATHERING STEEL SURFACES SHALL BE BLAST-CLEANED IN ACCORDANCE WITH SSPC-SP6

COMPONENT LIABILITY:

1. BRIDGE OFF-LOADING FROM FREIGHT TRUCK AND BRIDGE INSTALLATION BY OTHERS
2. CONCRETE DECK FORM AND POUR SHALL BE BY OTHERS
3. SUPPLY OF ANCHORS AND RELATED HARDWARE SHALL BE BY OTHERS
4. SUPPLY OF BRIDGE TRANSITIONS SHALL BE BY OTHERS

FABRICATION METHODS:

1. BRIDGE SHALL BE FABRICATED BY AN AISC CERTIFIED FABRICATOR. NO SPECIAL INSPECTIONS OUTSIDE OF AWS D1.1 CODE SHALL BE REQUIRED

REFERENCES (LATEST EDITIONS UNLESS SPECIFIED OTHERWISE):

1. AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES
2. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
3. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS
4. AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, 2011, 2nd EDITION
5. AISC PART 16.1 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
6. AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
7. ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
8. AWS D1.1-STEEL STRUCTURAL WELDING CODE
9. GUIDE TO STABILITY DESIGN CRITERIA FOR METAL STRUCTURES, 2010, 6th EDITION

CONCRETE NOTES:

1. ALL PHASES OF WORK PERTINENT TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-LATEST APPROVED EDITION) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS AND SPECIFICATIONS
2. REINFORCED CONCRETE DESIGN PER AASHTO LRFD BRIDGE SPECIFICATIONS
3. ALL STRUCTUAL CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 4000 PSI.PERIODIC SPECIAL INSPECTION SHALL BE REQUIRED FOR PLACEMENT OF REBAR, ANCHORS, & CONCRETE MIX DESIGN
4. CONCRETE MIX DESIGN SHALL MEET THE FOLLOWING REQUIREMENTS
  - COMPRESSIVE STRENGTH AT AGE 28 DAYS AS SPECIFIED ABOVE.
  - LARGE AGGREGATE HARDROCK, 1” MAXIMUM SIZE CONFORMING TO ASTM C-33
  - CEMENT ASTM C-150, TYPE I OR II PORLAND CEMENT
  - MAXIMUM SLUMP 5-INCHES, MAX WATER CEMENT RATIO: 0.45
  - AIR CONTENT 3%-7%
5. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94
6. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 514 AND PROJECT SPECIFICATIONS.
7. ALL REINFORCING BARS, SHEAR STUDS, LAP SPlicing, AND OTHER CONCRETE INSRETS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE PER CRSI MANUAL OF STANDARD PRACTICE AND ACI 315
8. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60
9. REINFORCING WIRE IF APPLICABLE SHALL CONFORM TO ASTM A1065
10. UNLESS NOTED OTHERWISE, CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:
  - CONCRETE POURED IN A STAY-IN-PLACE DECK FORM: 1.5 INCHES CLEAR
  - CONCRETE POURED DIRECTLY AGAINST THE EARTH: 3 INCHES CLEAR
  - FORMED CONCRETE WITH EARTH BACK FILL: 2 INCHES CLEAR
11. FINISHED CONCRETE DECK SHALL BE GIVEN A SKID RESISTANT TEXTURE BY EITHER BURLAP OR CARPET DRAGGING, BROOMING, TINING, OR A COMBINATION OF THESE METHODS AS APPROVED BY THE OWNER AND AS SPECIFIED BY AASHTO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE BRIDGE COMPONENTS FROM CONCRETE SPLATTER AND REQUIRED CLEANING OF THE STRUCTURE RESULTING FROM SPILLS.

ANCHOR & FOUNDATION NOTES:

1. FOUNDATION CONCRETE & REINFORCEMENT SUPPLIED BY OTHERS
2. ANCHOR BOLTS SHALL BE 1" A193-B7 ALL-THREAD ROD
3. SEE FOUNDATIONS SHEETS FOR FOUNDATION NOTES

SHOP DRAWING / SUBMITTAL REVIEW

- ☒ **No Exception Taken**
- ☐ **Exceptions Noted - Resubmit**
- ☐ **Exceptions Noted - Do Not Resubmit**
- ☐ **Provide Additional Information**
- ☐ **Record Information Only**
- ☐ **Rejected**
- ☐ **Void**

Review of submittal is only for the limited purpose of checking for general conformance with the information given and the design concept expressed in the contract documents, not for determining accuracy and completeness of dimensions and details. The contractor shall not be relieved of responsibility for deviations from requirements of the contract documents by the shop drawing review. The contractor is responsible for verifying and determining field measurements, materials, field construction criteria, coordination of trades, and the requirements of the work.

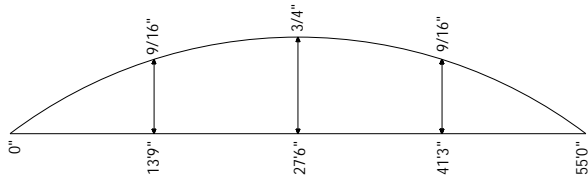
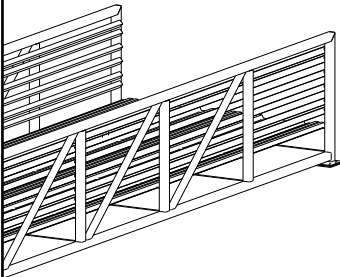
Reviewed By: ddecker

Date: 5/5/2025



shrewsberry

SHREWSUSA.COM



CAMBER DIAGRAM

RESERVES THE RIGHT TO MODIFY THIS STRUCTURE WITHOUT NOTICE. IT IS THE CUSTOMER'S RESPONSIBILITY TO NOTIFY BRIDGE BROTHERS INC. OF ANY DISCREPANCIES OR CHANGES OUTSIDE OF BRIDGE BROTHERS INC SCOPE OF WORK. ANY CHANGES MUST BE PERFORMED BY THE CUSTOMER.

THIS TABLE FOR INTERNAL USE ONLY							
FINISH	DECK	SPLICE	RAILING	HANDRAIL	SET PLATE	ANCHORS	SCOPE
Weathered	Concrete	No	Horizontal 42"	No	UHMW	No	Supply

OPERATOR:

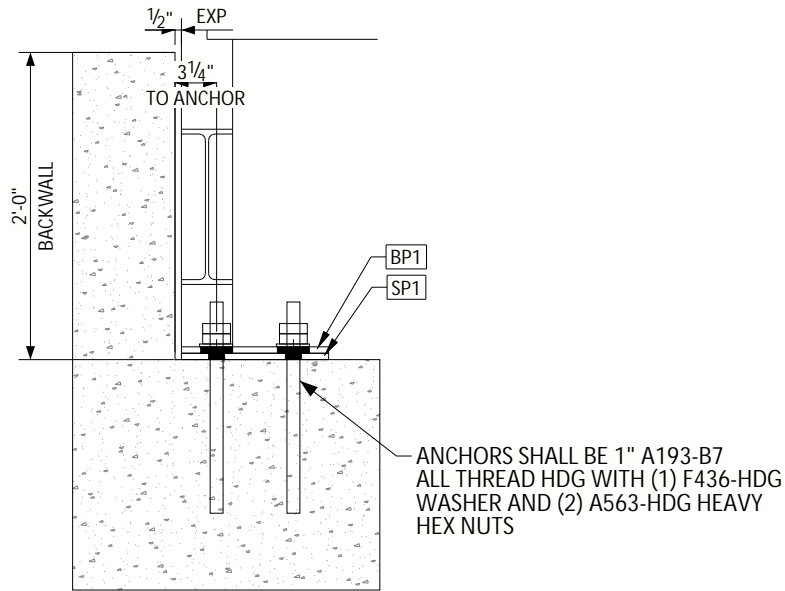
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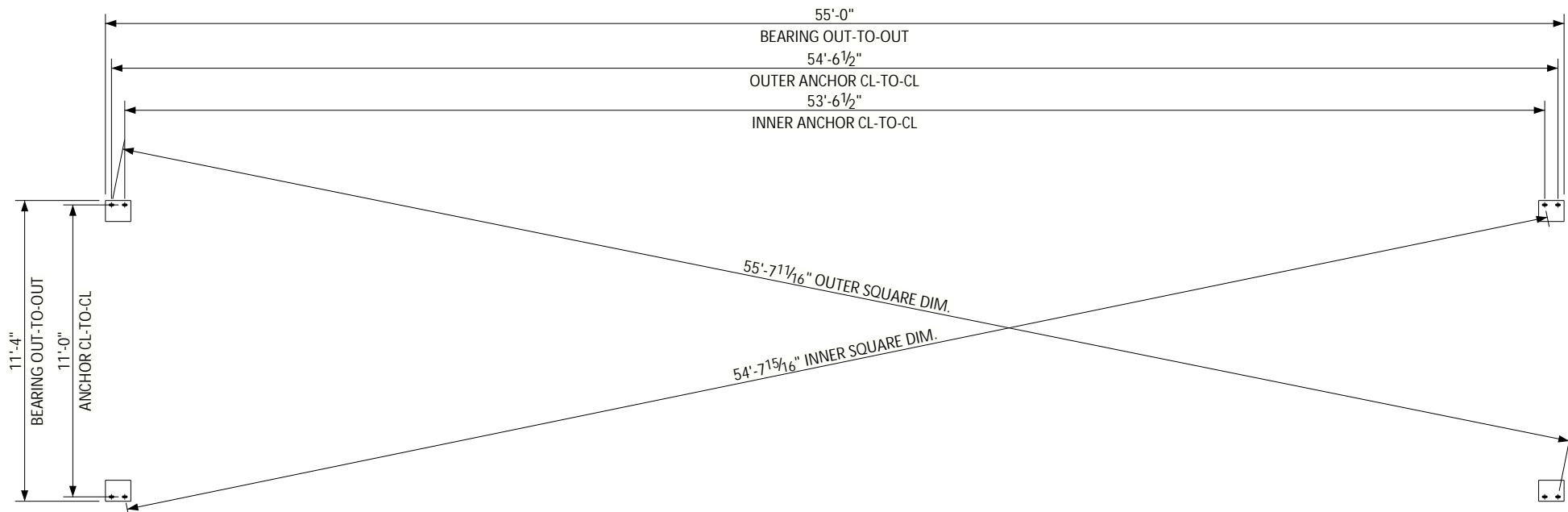
Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

CUSTOMER:  
Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

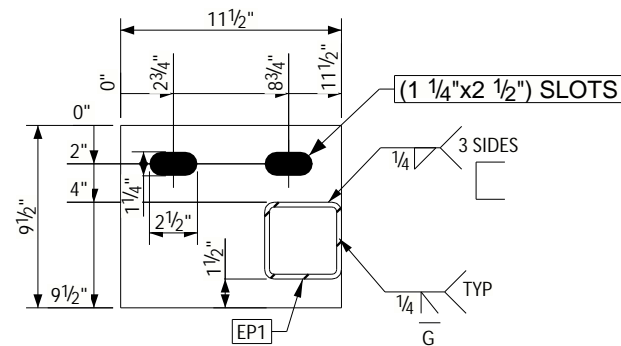
TOLERANCES UNLESS SPECIFIED OTHERWISE XXX = ±1/4"; FRACTIONS = ±1/8"; ANGULAR = 1°		DRAWING NUMBER		0	01/13/2025	FOR APPROVAL
DRAWN BY: AKL		B-1				
CHECKED BY: CRT						
COVER						
DRAWING NOT TO SCALE						
		1	02/19/2025	FOR FABRICATION		
		2	03/05/2025	MATERIAL REVISION		
		3	05/01/2025	RAIL CHANGE		



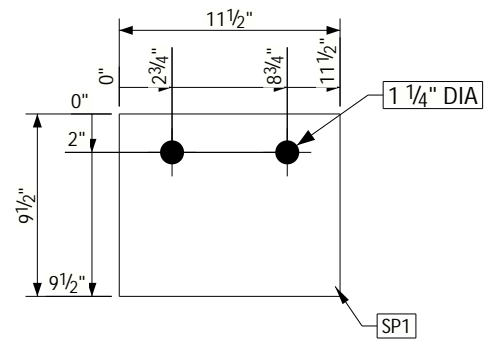
ANCHOR BOLT SECTION VIEW



ANCHOR BOLT PLAN



BEARING PLATE



SETTING PLATE

OPERATOR:

QC:

DATE:



Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

CUSTOMER:  
Geist Montessori Academy  
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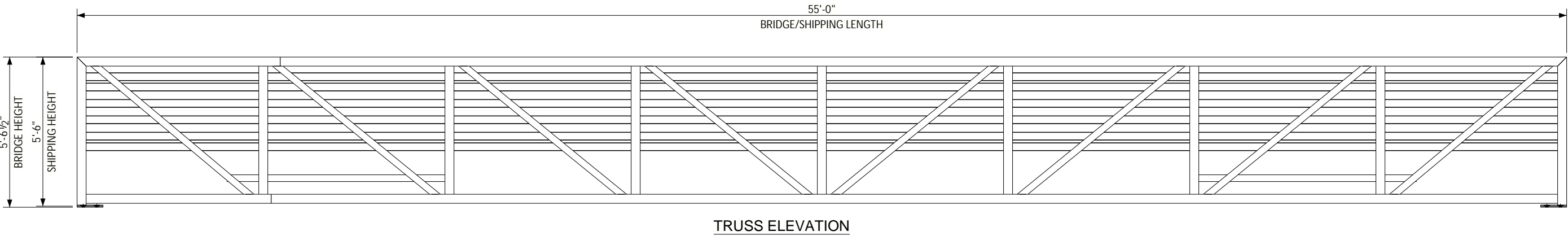
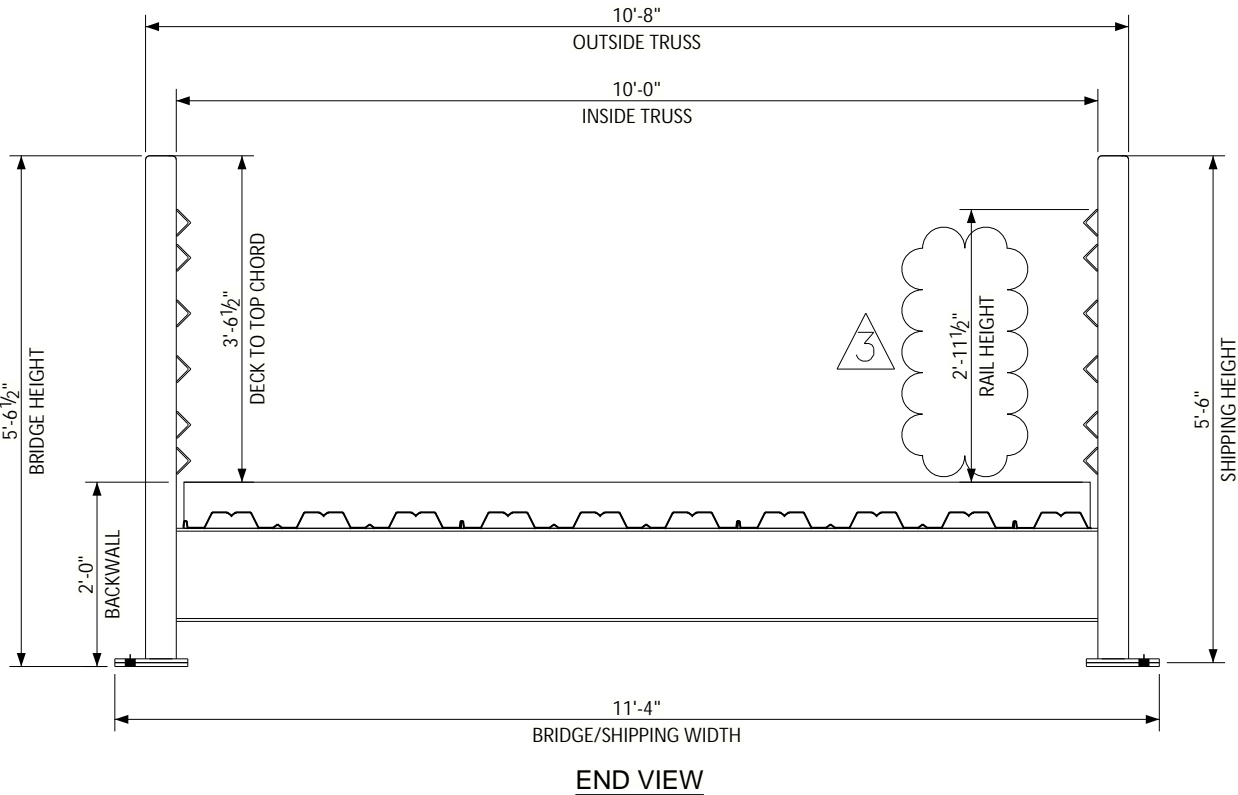
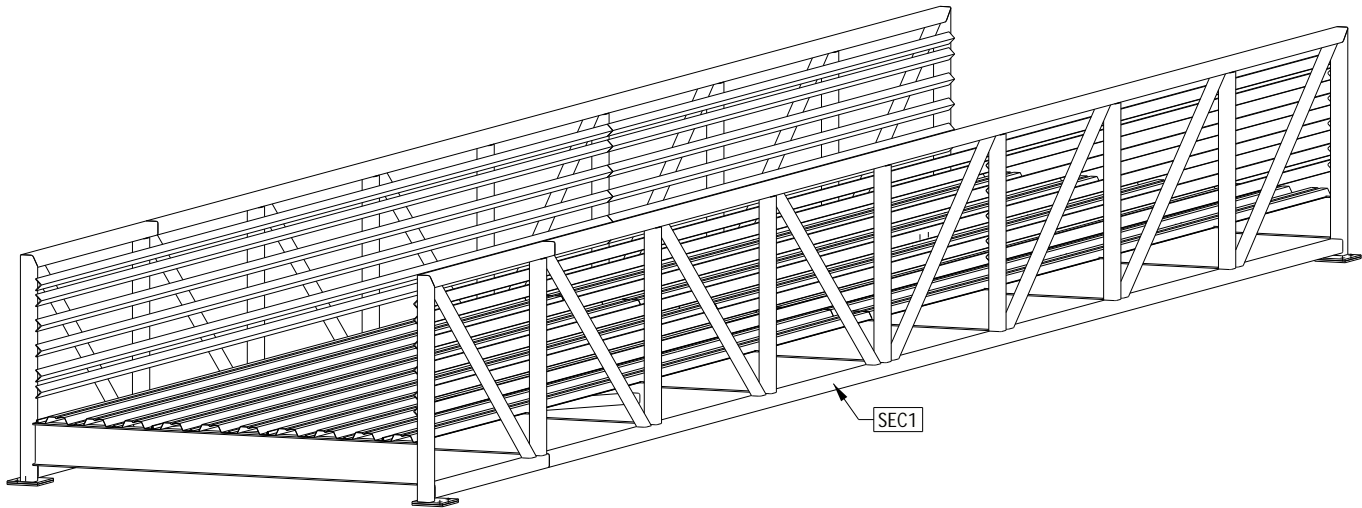
DRAWING NUMBER  
B-2

ANCHOR LAYOUT

DRAWING NOT TO SCALE

REV.	DATE:	DESCRIPTION
0	01/13/2025	FOR APPROVAL
1	02/19/2025	FOR FABRICATION
2	03/05/2025	MATERIAL REVISION
3	05/01/2025	RAIL CHANGE

ITEM No.	MARK	LENGTH	QTY	WT (LBS/EA)	* -THIS BOM ONLY FOR ITEMS SHIPPED LOOSE.	10839
SEC1	BRIDGE SECTION	55'-0"	1	10347.3		
SP1	SETTING PLATE	0'-11 1/2"	4	1.9		



OPERATOR:		QC:	DATE:	REV.	DATE:	DESCRIPTION
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\*THIS BOM FOR BRIDGE ASSEMBLY PURPOSES ONLY; FOR ITEMS SHIPPED LOOSE, SEE PAGE B-3\*

ITEM No.	MARK	SIZE	LENGTH	GRADE	QTY	WT (LBS\EA)
BC1	BOTTOM CHORD	HSS4X4X1/4	47'-6"	A847	2	544.8
BC2	BOTTOM CHORD	HSS4X4X1/4	6'-9 15/16"	A847	2	78.4
BP1	BEARING PLATE	PL1/2"X9 1/2"	0'-11 1/2"	A588	4	15.5
DP1	DECK	2X20GAX36"	27'-5 1/2"	G60	1	80.1
DP2	DECK	2X20GAX36"	27'-5 1/2"	G60	6	263.6
DP3	DECK	2X20GAX36"	27'-5 1/2"	G60	1	80.1
ED1	END DIAGONAL	HSS3X3X1/4	7'-8"	A847	4	63.7
EP1	END POST	HSS4X4X1/4	5'-5 1/2"	A847	4	62.6
FB1	FLOOR BEAM	W12X19	10'-0"	A588	9	189.6
HAR1	HORIZONTAL ANGLE RAIL	L2-1/2X2-1/2X3/16	34'-2 1/2"	A588	12	104.8
HAR2	HORIZONTAL ANGLE RAIL	L2-1/2X2-1/2X3/16	20'-5 1/2"	A588	12	62.7
MB1	MID BRACING	HSS3X3X1/4	8'-4 1/16"	A588	2	69.3
MB2	MID BRACING	HSS3X3X1/4	8'-5 5/8"	A588	2	70.3
MD1	MID DIAGONAL	HSS3X3X1/4	7'-9 9/16"	A847	12	64.8
MV1	MID VERTICAL	HSS4X4X1/4	4'-8 3/4"	A847	14	54.2
SP1	SETTING PLATE	PL1/2"X9 1/2"	0'-11 1/2"	UHMW	4	1.9
TC1	TOP CHORD	HSS4X4X1/4	47'-5 15/16"	A847	2	544.8
TC2	TOP CHORD	HSS4X4X1/4	7'-5 15/16"	A847	2	86.0

3

OPERATOR:

QC:

DATE:

REV.

DATE:

DESCRIPTION



Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

CUSTOMER:  
Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

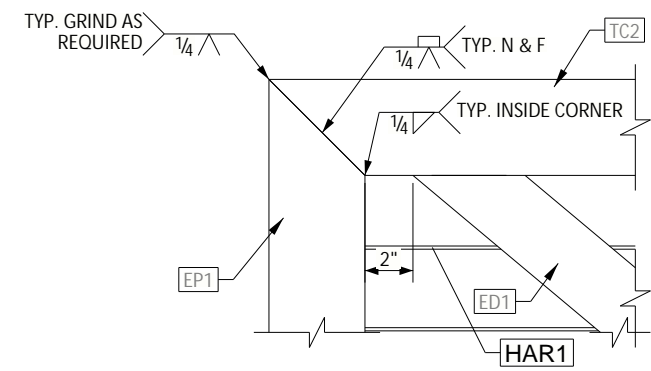
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CHECKED BY: CRT

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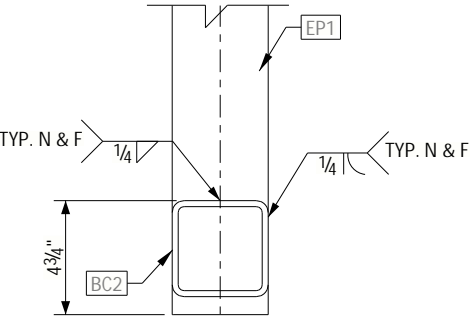
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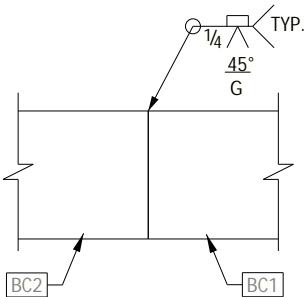
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2	03/05/2025	MATERIAL REVISION
3	05/01/2025	RAIL CHANGE



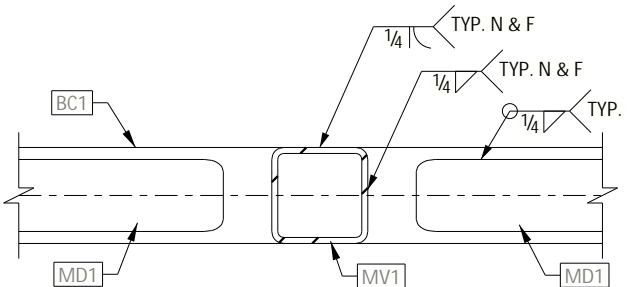
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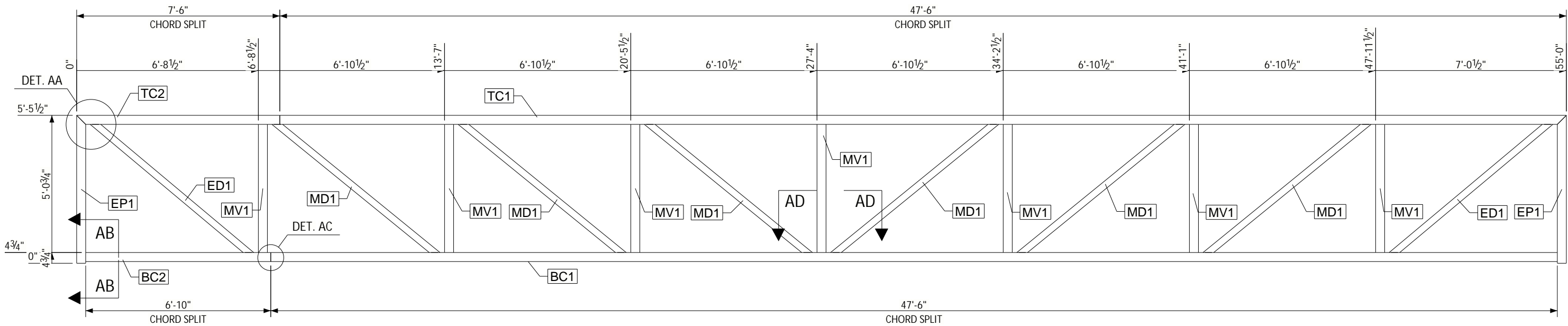
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Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

CUSTOMER:  
Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

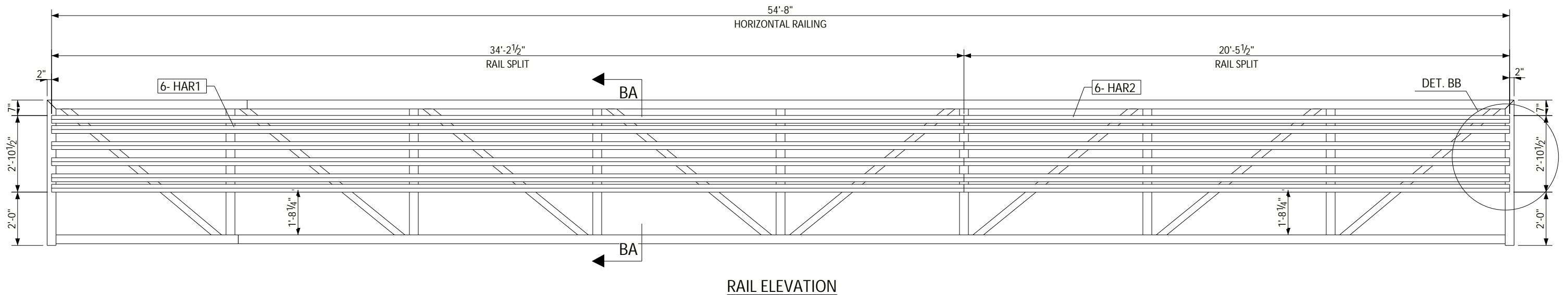
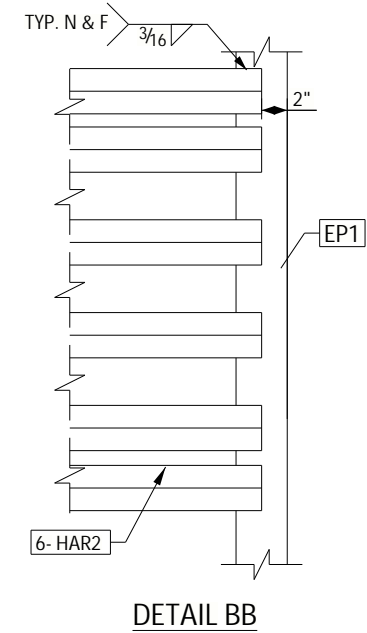
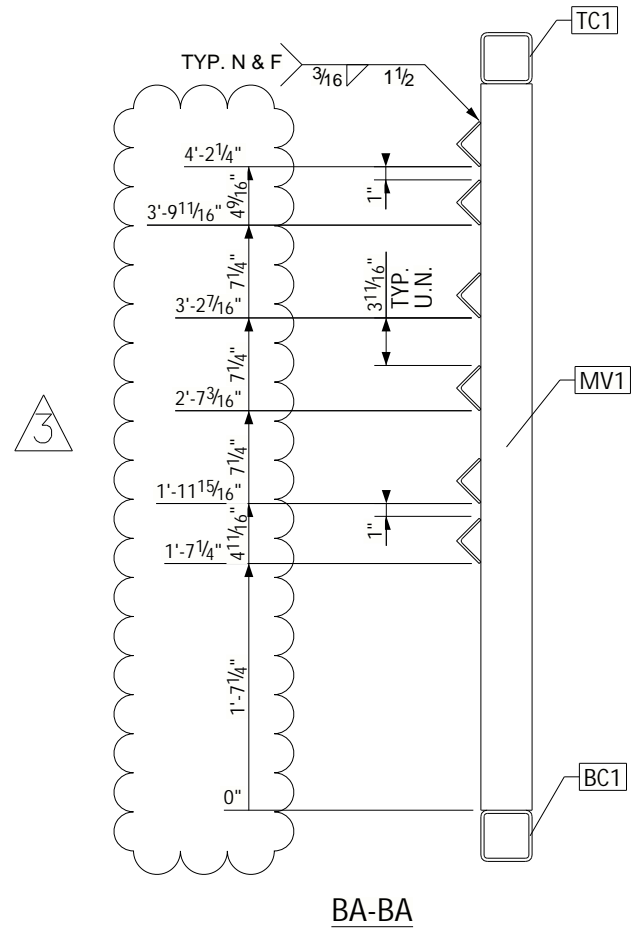
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CHECKED BY: CRT

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1	02/19/2025	FOR FABRICATION
2	03/05/2025	MATERIAL REVISION
3	05/01/2025	RAIL CHANGE



OPERATOR:

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DATE:



Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

CUSTOMER:  
Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

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XXX = ±1/4"; FRACTIONS = ±1/8"; ANGULAR = 1°  
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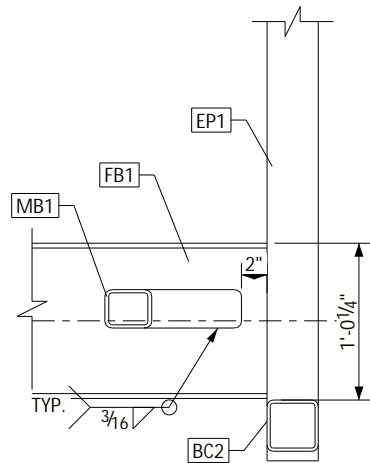
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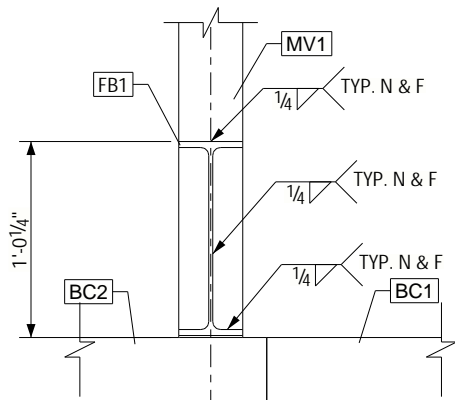
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2	03/05/2025	MATERIAL REVISION
3	05/01/2025	RAIL CHANGE

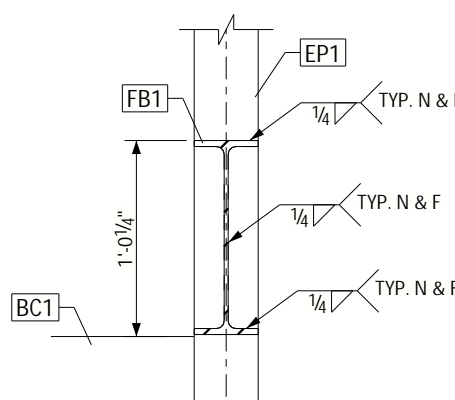




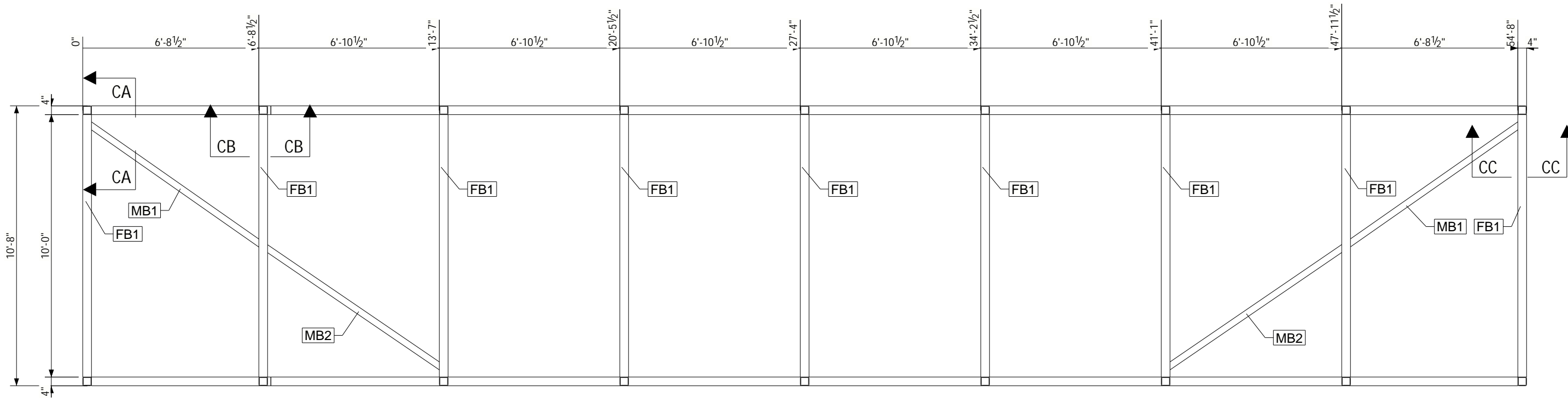
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FLOOR PLAN

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DATE:

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DATE:

DESCRIPTION



Geist Montessori Academy  
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1	02/19/2025	FOR FABRICATION
2	03/05/2025	MATERIAL REVISION
3	05/01/2025	RAIL CHANGE



www.bridgebrothers.com

The logo for Bridge Brothers features a large, stylized letter 'B' on the left. To the right of the 'B' is a vertical line, followed by the words 'BRIDGE' and 'BROTHERS' stacked vertically in a bold, sans-serif font.

**AISC** CERTIFIED FABRICATOR  
**AWS** **ECWF**  
 CERTIFIED WELDING FABRICATOR

CUSTOMER:  
Geist Montessori Academy  
6058 W CR900 N McCordsville, IN 46055

		REV.	DATE:	DESCRIPTION	
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DECK		3	05/01/2025	RAIL CHANGE	
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