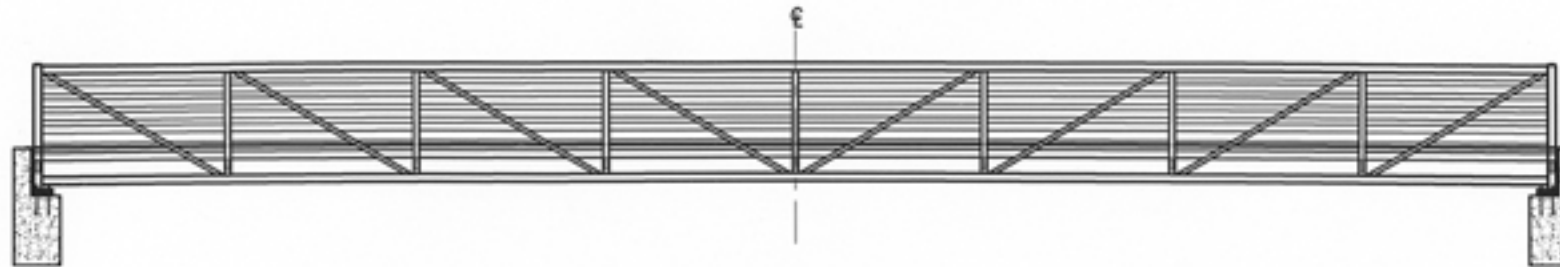


BRIDGE NAME LOCATION



ELEVATION VIEW



CALLOUT LEGEND

DESIGN DATA

- 1) DESIGN OF SUPERSTRUCTURE SHALL BE IN ACCORDANCE WITH AASHTO, AISC, & PROJECT SPECIFICATIONS.
- 2) DESIGN LOADS:
- | LIVE LOAD | WIND LOAD |
|--|--|
| A) A MINIMUM UNIFORM LIVE LOAD OF 85 psf APPLIED TO THE ENTIRE DECK SURFACE; OR | A) A LATERAL WIND LOAD OF 35 psf ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED. |
| B) NO VEHICLE | B) AN UPLIFT WIND LOAD OF 20 psf APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH. |
| C) 1,000 LB POINT LOAD (IN ADDITION TO THE DESIGN VEHICLE, IF ANY, BRIDGE WILL SAFELY ACCOMMODATE ANY VEHICLE WITH WHEEL LOADS LESS THAN OR EQUAL TO THE DESIGN POINT LOAD.) | |

CONSTRUCTION & MATERIAL NOTES:

- 1) THE BRIDGE IS FABRICATED FROM COLD-FORMED WELDED AND SEAMLESS HIGH STRENGTH, LOW-ALLOY STRUCTURAL TUBING WITH IMPROVED ATMOSPHERIC CORROSION RESISTANCE MEETING THE REQUIREMENTS OF ASTM A847, AND PLATES AND STRUCTURAL SHAPES MEETING THE REQUIREMENTS OF ASTM A588, A606, OR A242. (FY = 50,000 PSI).
- 2) THE WELDING PROCESS SHALL BE THE FLUX CORE ARC WELDING PROCESS, UTILIZING E81T1-W2/W2M ELECTRODES.
- 3) WELDED CONNECTIONS SHALL BE AS DETAILED AND NOTED EXCEPT THAT MISCELLANEOUS MEMBERS, INCLUDING STRINGERS SUPPORTED ON TOP OF FLOOR BEAMS, RAILINGS, AND OTHER MEMBERS FOR WHICH WELDS ARE NOT SPECIFICALLY DETAILED, SHALL BE STITCH WELDED TO THE SUPPORTING MEMBER. A STITCH WELD IS DEFINED AS WELD OF APPROXIMATELY 1-1/2" TO 2" IN LENGTH, OF A SUFFICIENT NUMBER TO ADEQUATELY HOLD THE MEMBER IN PROPER POSITION.
- 4) TEN PERCENT OF EACH DIFFERING STRUCTURAL WELD (DIFFERING WELD TO BE DEFINED BY TYPE, SIZE, LENGTH) SHALL BE RANDOMLY TESTED (MAGNETIC PARTICLE). ALL STRUCTURAL WELDS SHALL BE VISUALLY INSPECTED AND CONFORM TO AWS D1.1.
- 5) SHOP SPLICES OF STRUCTURAL TUBULAR MEMBERS, WHEN NEEDED, SHALL BE FULL PENETRATION JOINTS UNLESS DETAILED OTHERWISE. JOINT DETAIL SHALL BE AS SPECIFIED IN THE APPROPRIATE WELD PROCEDURE. ALL OF THESE WELDS SHALL BE TESTED (MAGNETIC PARTICLE). SHOP SPICE LOCATIONS SHALL BE APPROVED BY THE SEALING ENGINEER.
- 6) ALL EXPOSED SURFACES OF STEEL WILL BE SAND BLASTED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION NO. 7 BLAST CLEANING (SSPC-SP7).
- 7) BRIDGE TO BE FABRICATED AND DELIVERED TO THE SITE AS 1 UNIT.
- 8) ANY STEEL TUBING MEMBERS NOT COMPLETELY SEALED SHALL HAVE A 3/8" WEEP HOLE AT THE LOW POINTS OF THE MEMBER, OR SHALL BE OTHERWISE FREE DRAINING.
- 9) BRIDGE DECKING TO BE 3"x12" DOUGLAS FIR-LARCH SELECT STRUCTURAL S1S1E, ACZA TREATED. PLANKS ARE TO BE PLACED ROUGH SIDE UP.

BRIDGE CAMBER

SHOP CAMBER	
DEAD LOAD DEFLECTION	
RESIDUAL CAMBER	

PRELIMINARY BRIDGE WEIGHT

ESTIMATED LIFTING WEIGHT OF BRIDGE	LBS
------------------------------------	-----

TEMPERATURE/LENGTH CHART

TEMPERATURE	LENGTH
-40°F	
70°F	
110°F	

BRIDGE REACTIONS

COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED			
		+ DOWNWARD LOAD - UPWARD LOAD	
LOAD	P lbs	H lbs	L lbs
DEAD			
UNIFORM LIVE			
VEHICLE			
WIND			
WINDWARD			
LEEWARD			
THERMAL			
P - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)			
H - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)			
L - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)			

FILLET WELD CHART

THICKNESS OF THINNEST PIECE	WELD SIZE
NON STANDARD WELDS	
NONE	

WELD PROCEDURES

FILLET	PARTIAL PEN
FC-03	FC-06
FC-04	
	FULL PEN
	FC-05
	FC-09

WELD NOTES:

DO NOT SCALE DRAWINGS

INDEX

- 1) COVER SHEET
- 2) GENERAL PLAN & ELEVATION
- 3) SECTION DETAILS
- 4) END SECTION DETAILS
- 5) MISC. DETAILS

REV.	DESCRIPTION	DATE	INT.
SHEET TITLE:			

COVER SHEET

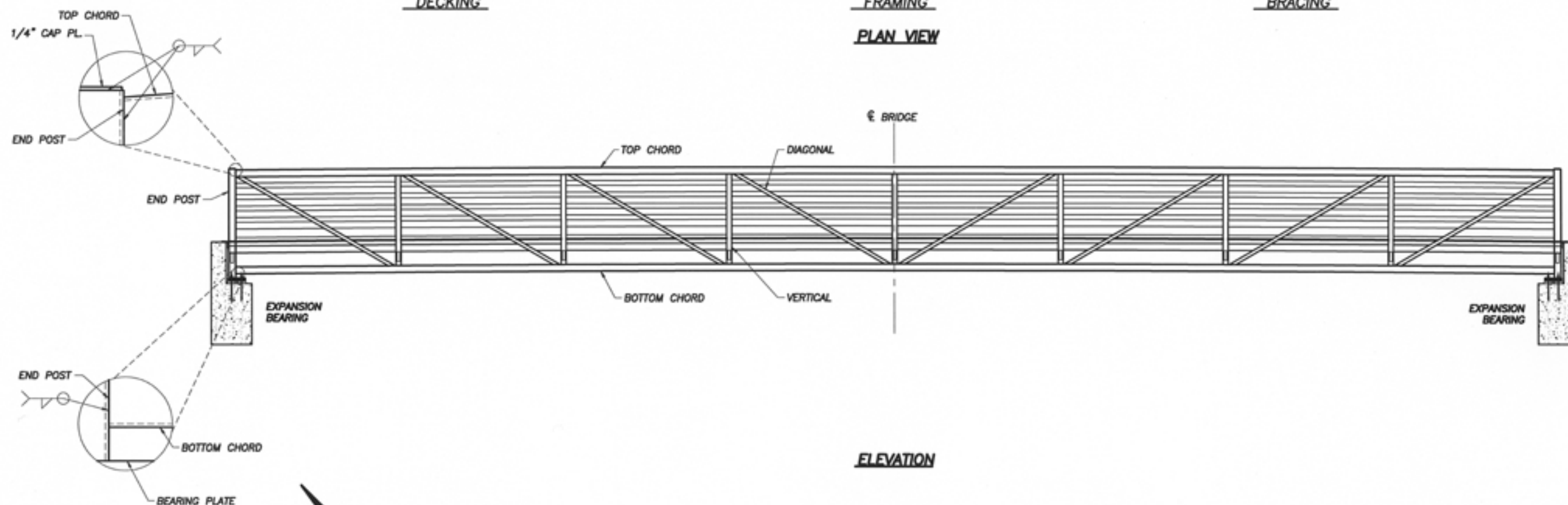
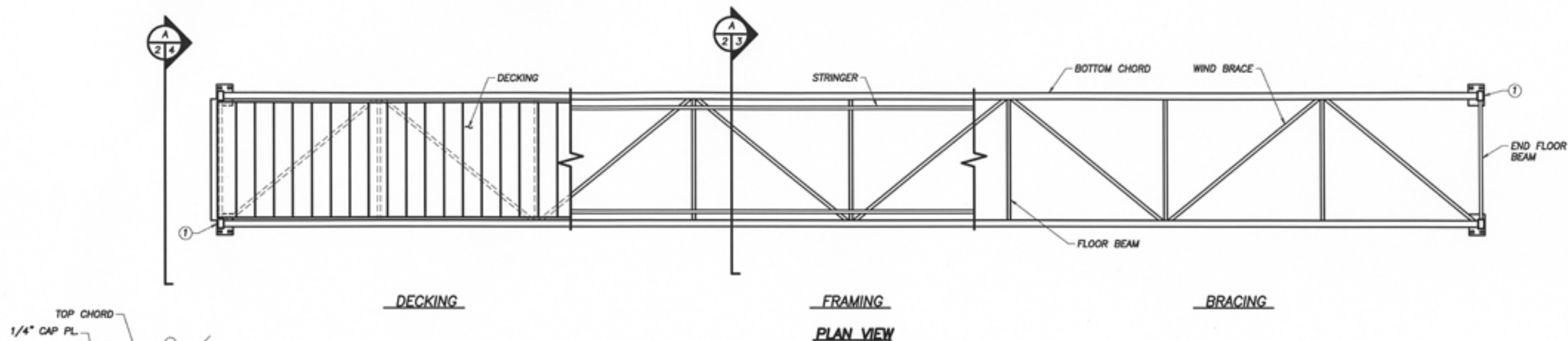
SAMPLE



Wheeler
Lumber, LLC

9330 JAMES AVE. S.
BLOOMINGTON, MN 55431


DATE:	TRACKING NO.	SHEET NO.
CHK:	DWN:	ORDER NO.
		1 of 5

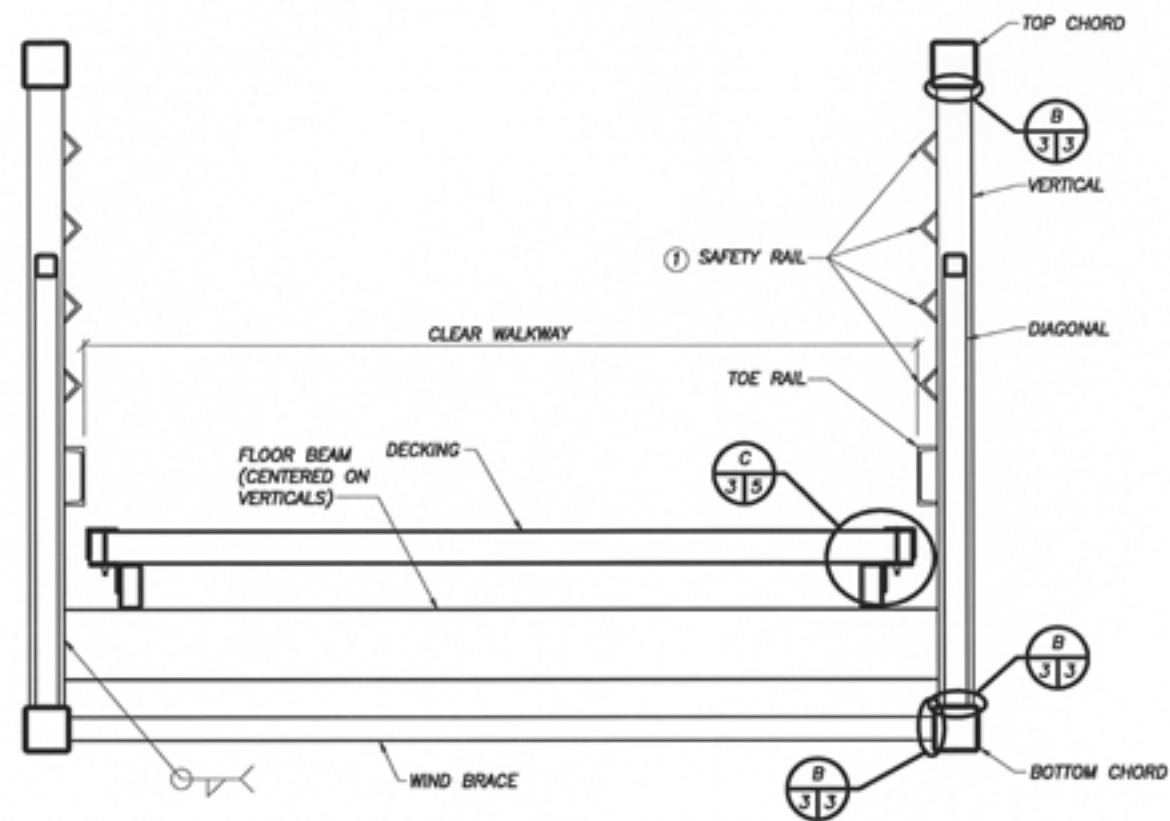


KEY NOTES:

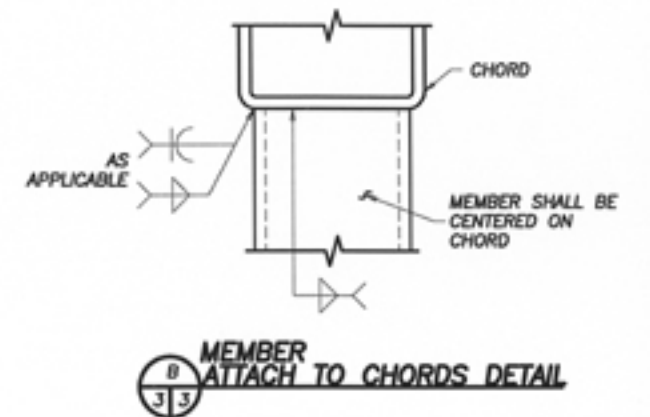
- ① BRIDGE NAME PLATE/ LOAD LIMIT PLATE EA. END. PLATE SHALL STATE, "NO VEHICLE ALLOWED" IF LOAD LIMIT PLATES ARE OBSTRUCTED, ADDITIONAL PLATES WILL BE PROVIDED UPON REQUEST TO WHEELER. THIS END POST TO RECEIVE A 3/8" WEEP HOLE.

SUBSTRUCTURE LAYOUT
(BY OTHERS)

SHEET TITLE:			
GENERAL PLAN & ELEVATION			
SAMPLE			
 Wheeler Lumber, LLC 9330 JAMES AVE. S. BLOOMINGTON, MN 55431		SHEET NO. 2 of 5	
DATE:	TRACKING NO.	ORDER NO.	
CHK:	DWN:		




A
2/3 **TYPICAL SECTION VIEW**

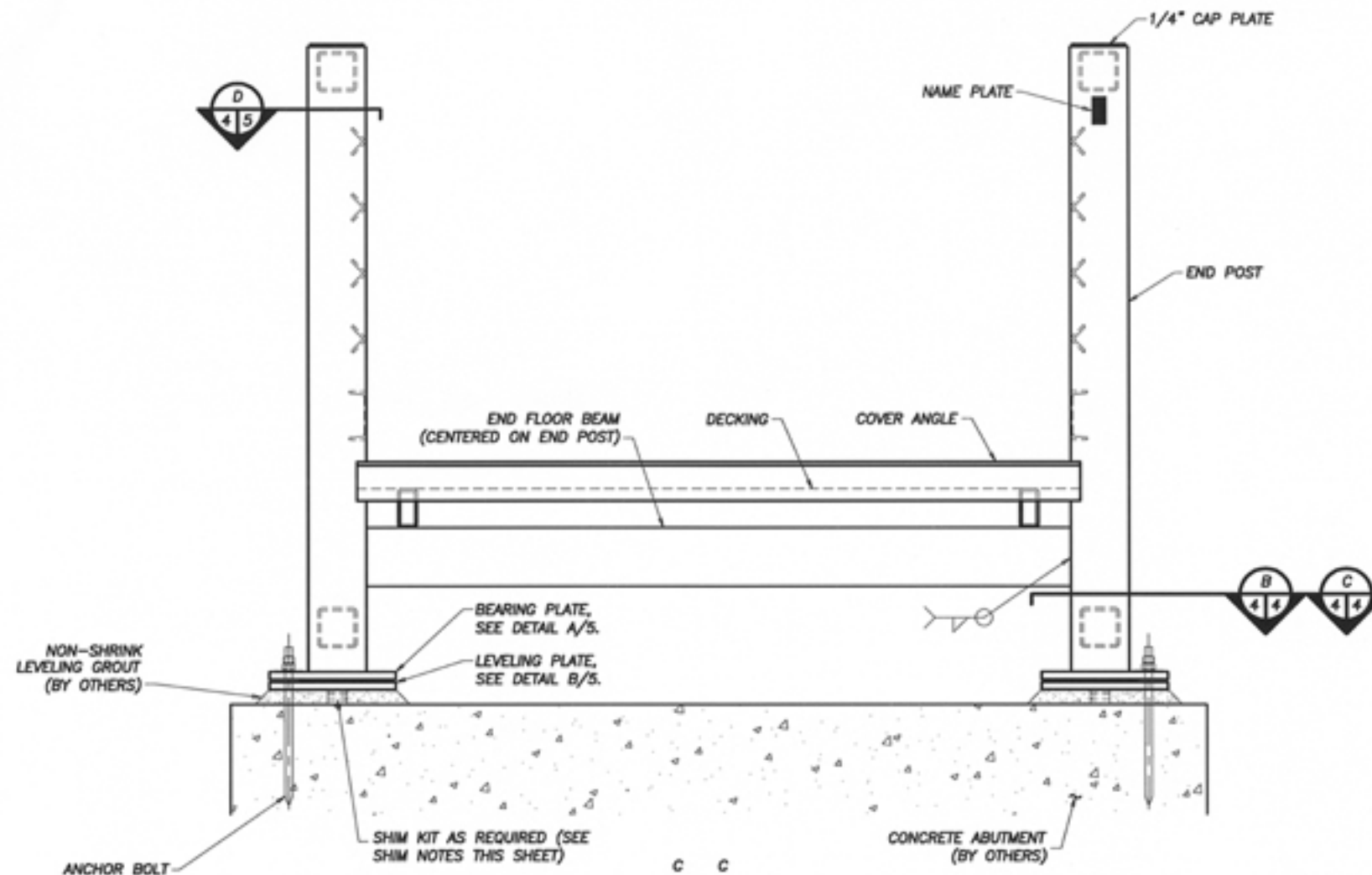


B
3/3 **MEMBER ATTACH TO CHORDS DETAIL**

KEY NOTES:

- ① SAFETY RAIL TO CONTAIN A 4" SPHERE FROM PASSING THROUGH.

SHEET TITLE:			
SECTION DETAILS			
SAMPLE			
<div>  <div> Wheeler Lumber, LLC 9330 JAMES AVE. S. BLOOMINGTON, MN 55431 </div> </div>			
DATE:	TRACKING NO.	SHEET NO.	
CHK:	DWN:	ORDER NO.	3 of 5



END VIEW SECTION

ANCHOR BOLT NOTES:

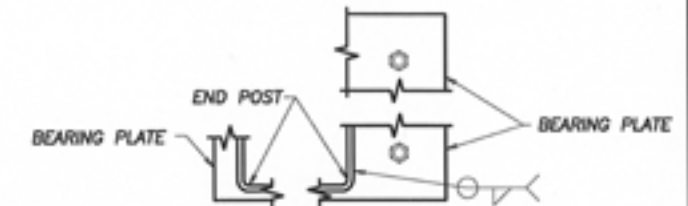
ANCHOR BOLTS SHALL HAVE AN EMBEDMENT DEPTH OF 10 INCHES. THE CHEMICAL ADHESIVE SHALL BE LIQUID ROC 300 OR EQUAL AS APPROVED BY THE SEALING ENGINEER. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ABUTMENT REINFORCEMENT SHALL BE CAREFULLY PLACED TO AVOID ANCHOR RODS, 2\"/>

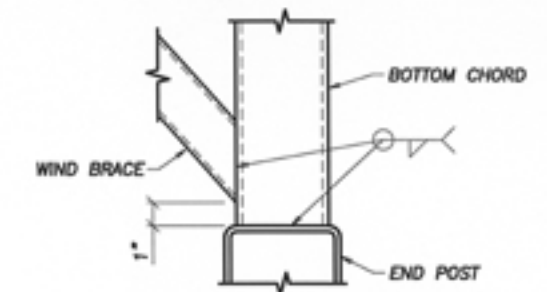
SHIM KIT NOTES:

FINAL ELEVATION ADJUSTMENT OF THE BRIDGE WILL BE MADE WITH TWO INCH BY TWO INCH SQUARE SHIMS (PROVIDED). SHIM PLATES SHALL BE CENTERED ON THE END POST. ALLOW COVER ANGLES TO JUST TOUCH THE TOP OF THE ABUTMENT BACKWALL. DO NOT ALLOW ANY BRIDGE WEIGHT TO REST ON COVER ANGLES.

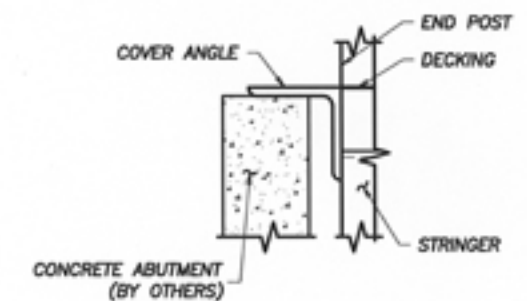
WHEN THE DEAD LOAD REACTION EXCEEDS 20,000 LBS, THE SHIM KIT SHALL BE PLACED ON A 4\"/>



BEARING PLAN



END POST TO BOTTOM CHORD WELD DETAIL



ABUTMENT GAP DETAIL

SHEET TITLE:

END SECTION DETAILS

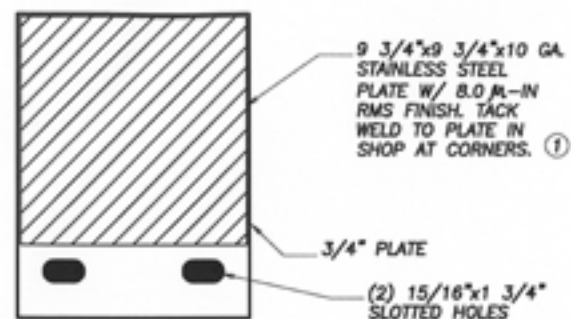
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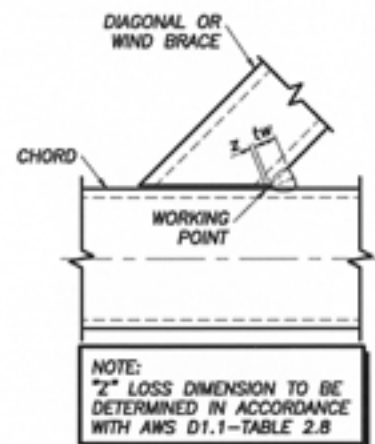
Wheeler
Lumber, LLC

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BLOOMINGTON, MN 55431

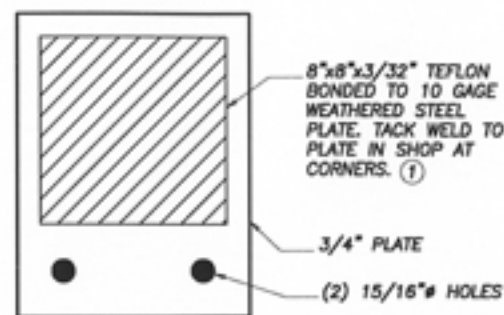
DATE:	TRACKING NO.	SHEET NO.
CHK:	DWN:	ORDER NO.
		4 of 5



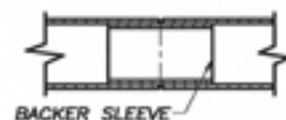
A BEARING PLATE
4 5 4 THUS



**TYPICAL SKEWED MEMBER
STANDARD WELD DETAIL**

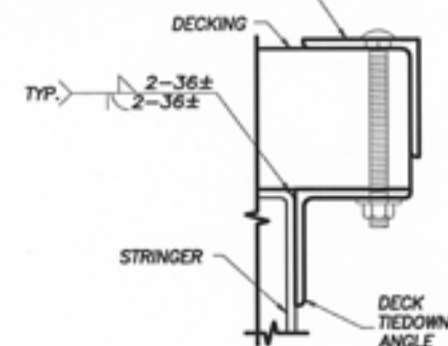


B LEVELING PLATE
4 5 4 THUS

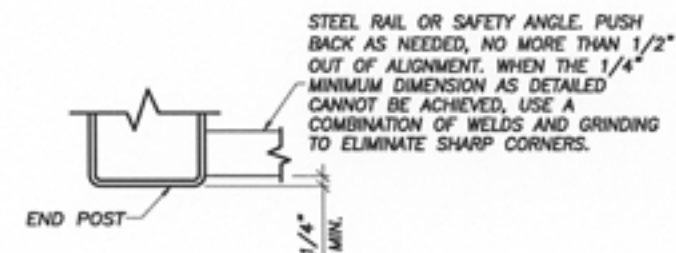


**TYPICAL SHOP SPLICE
WITH BACKER SLEEVE**

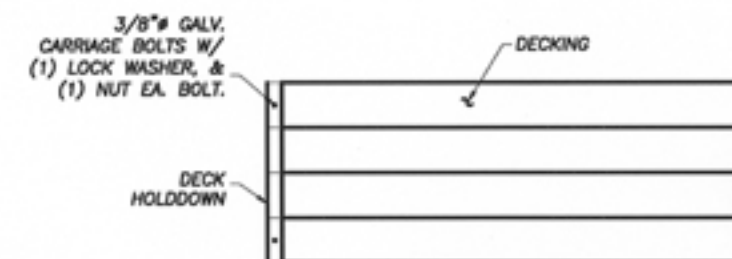
DECK HOLDDOWN ANGLE, SEE "DECK LAYOUT DETAIL" ON THIS SHEET FOR BOLTING INFORMATION.



**C SECTION AT EDGE
DECK ATTACHMENT**
4 5 4 THUS



**D STEEL RAIL TO END
POST ATTACHMENT DETAIL**
4 5 4 THUS



DECK LAYOUT DETAIL

KEY NOTES:

- ① TEFLON AND STAINLESS TO BE COVERED UP DURING SHIPMENT AND LIFTING TO AVOID ANY DAMAGE TO EITHER PRIOR TO BRIDGE PLACEMENT.

SHEET TITLE:

MISC. DETAILS

SAMPLE



Wheeler
Lumber, LLC

9330 JAMES AVE. S.
BLOOMINGTON, MN 55431

DATE:	TRACKING NO.	SHEET NO.
CHK:	OWN:	ORDER NO.
		5 of 5