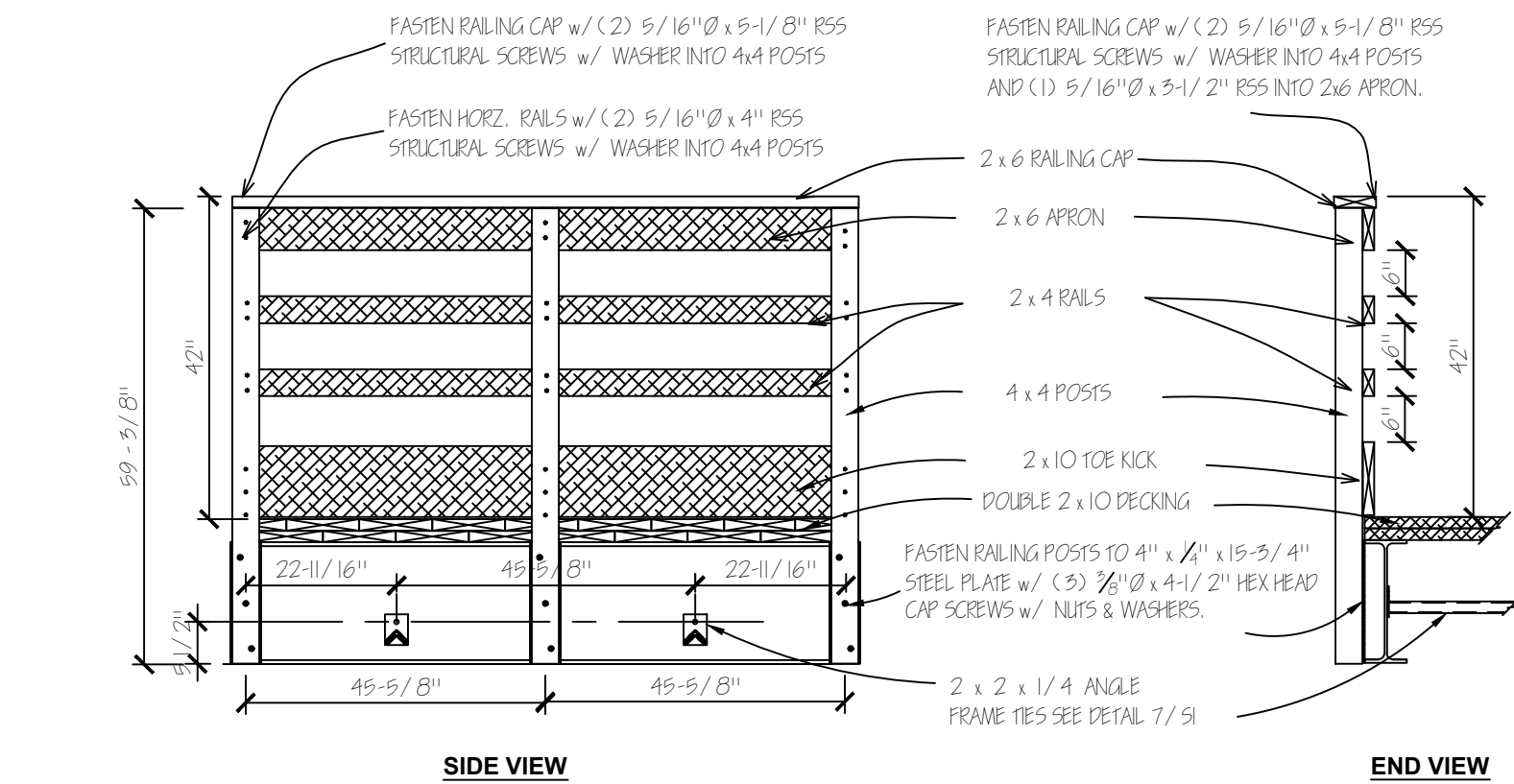


## BRIDGE CROSS SECTION

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

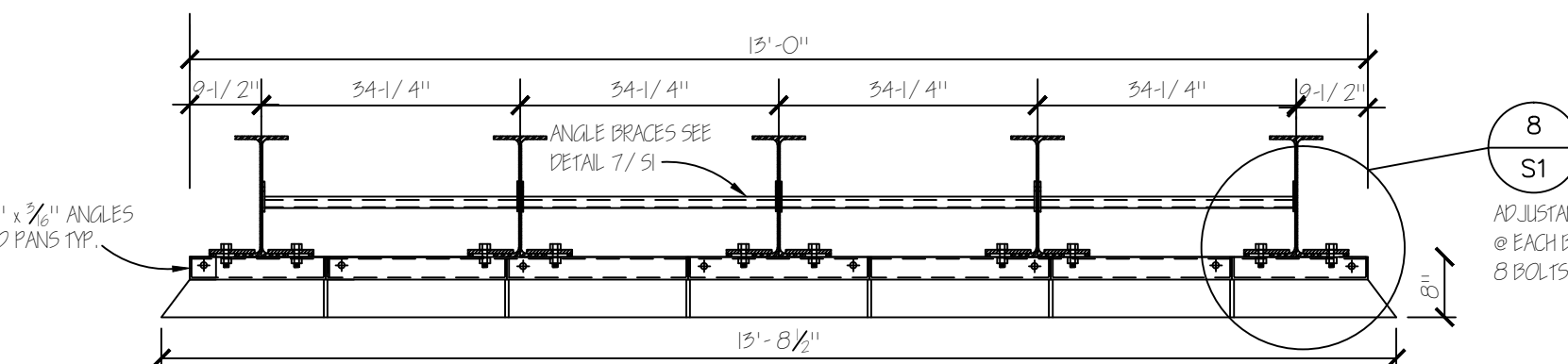
NOTE:  
RAILING DESIGNED FOR PEDESTRIAN TRAFFIC ONLY. IT IS NOT INTENDED OR DESIGNED AS A VEHICLE GUARD RAILING.

NOTES:  
1. FINAL BRIDGE CENTERLINE LOCATION & FOUNDATION ELEVATIONS ARE TO BE LOCATED BY OTHERS AND VERIFIED IN THE FIELD WITH JEFFERSON COUNTY PRIOR TO STARTING BRIDGE ERECTION.  
2. THE CONTRACTOR SHALL PROVIDE 10' WIDE FILTER FABRIC & STONE RIP-RAP BANK PROTECTION @ SIDES & FRONT OF ABUTMENTS PER WIS. DOT SPECIFICATIONS SECTION 606 OR AS APPROVED BY JEFFERSON COUNTY.  
3. ALL ASPECTS OF CONSTRUCTION FOR THIS BRIDGE SHALL MEET THE WISCONSIN DNR REQUIREMENTS FOR STRUCTURES IN A FLOOD WAY. THE BRIDGE ELEVATION SHALL BE SET FOR A MINIMUM CLEARANCE OF 5'-0" ABOVE THE ORDINARY HIGH WATER MARK, OR 1'-0" ABOVE THE 100 YEAR FLOOD ELEVATION, OR AS DIRECTED BY JEFFERSON COUNTY TO COMPLY WITH WISCONSIN DNR REQUIREMENTS.



## RAILING ELEVATION & SECTION

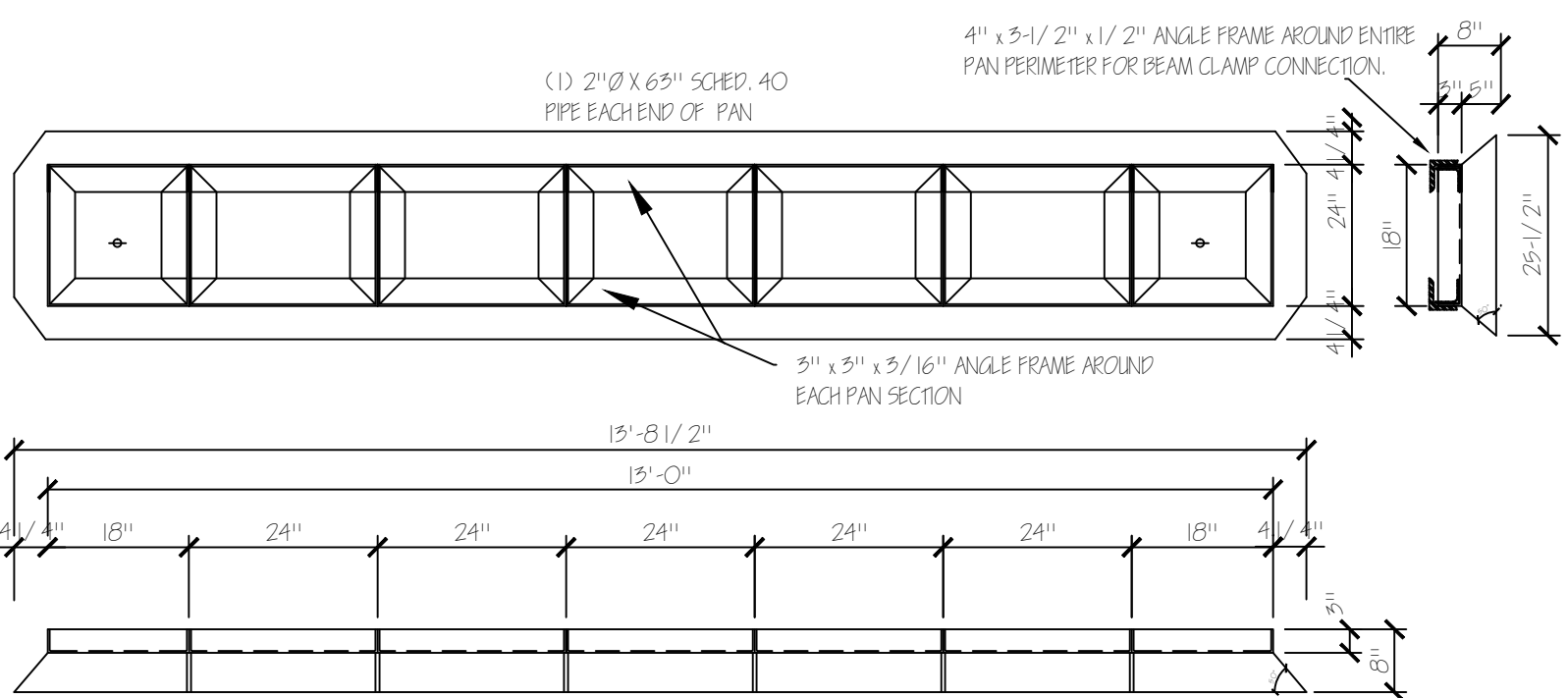
SCALE: 1/2"=1'-0"



## 24" BEARING PAN END VIEW

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

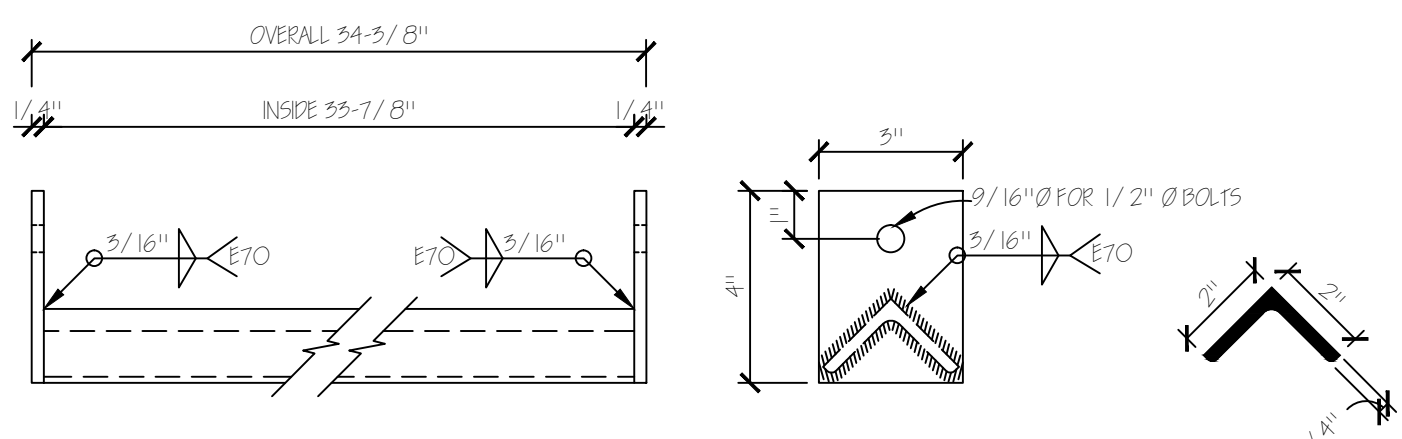
GALVANIZED METAL BEARING PANS COVERED BY U.S. PATENT #6,421,863



## 24" BEARING PAN

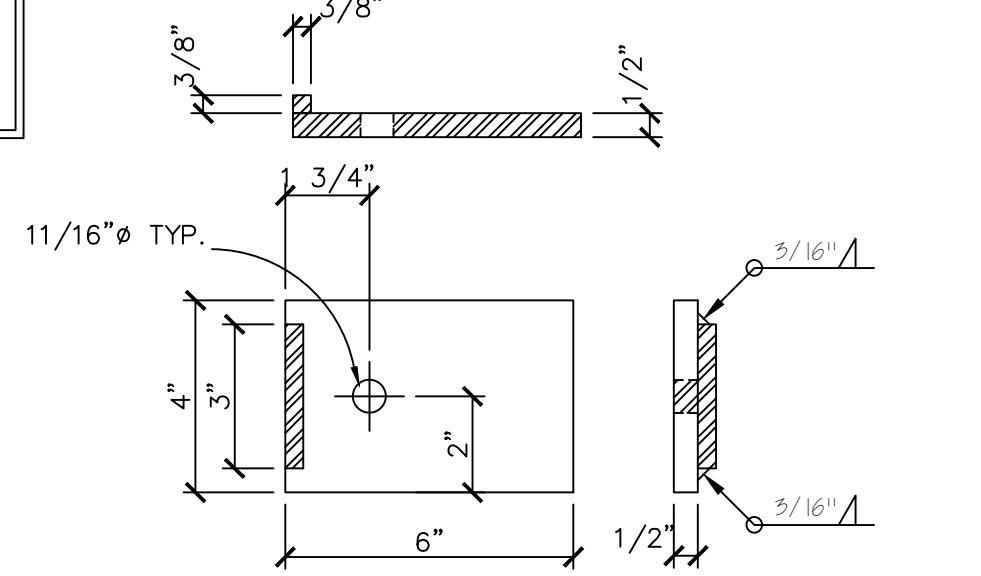
SCALE: 1/2"=1'-0"

GALVANIZED METAL BEARING PANS COVERED BY U.S. PATENT #6,421,863



## FRAME BRACES

SCALE: 3"=1'-0"



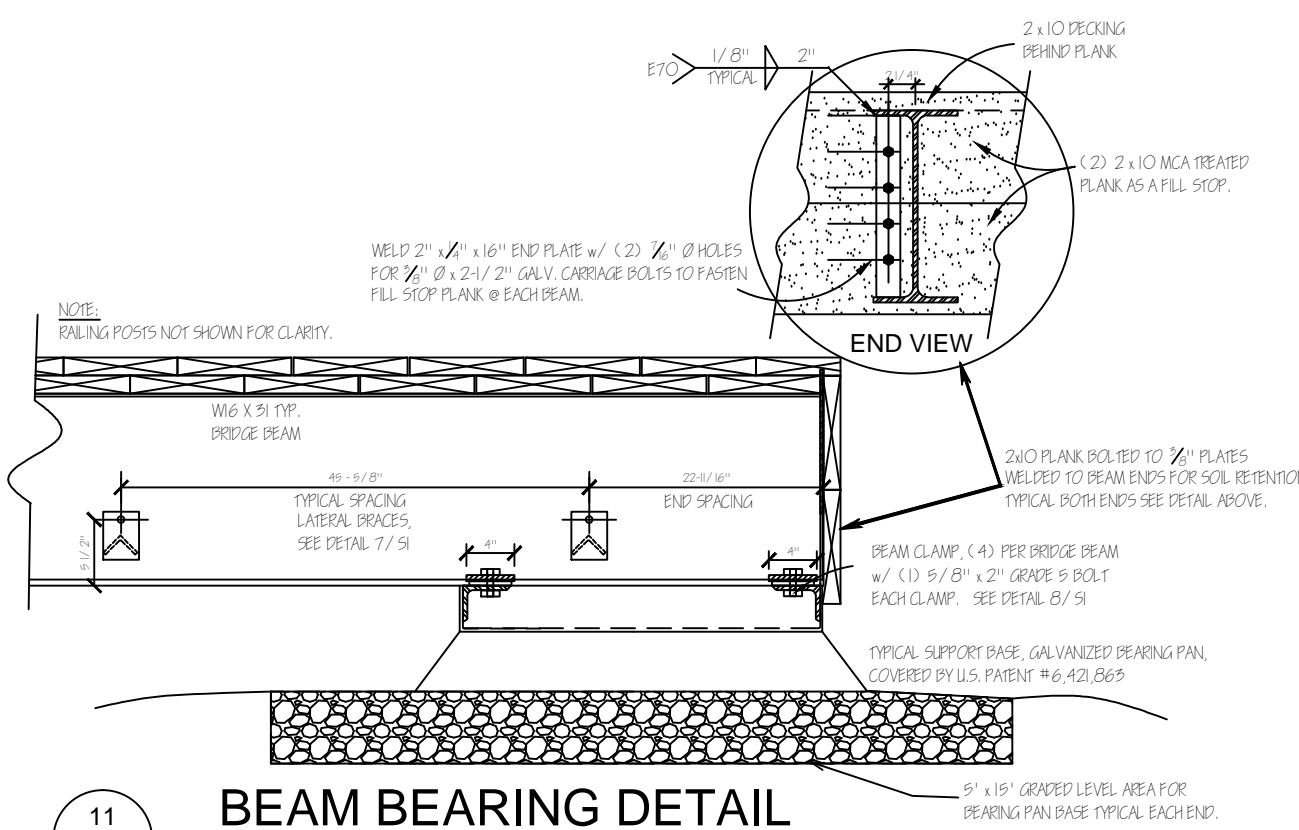
## BEAM CLAMP

SCALE: 3"=1'-0"



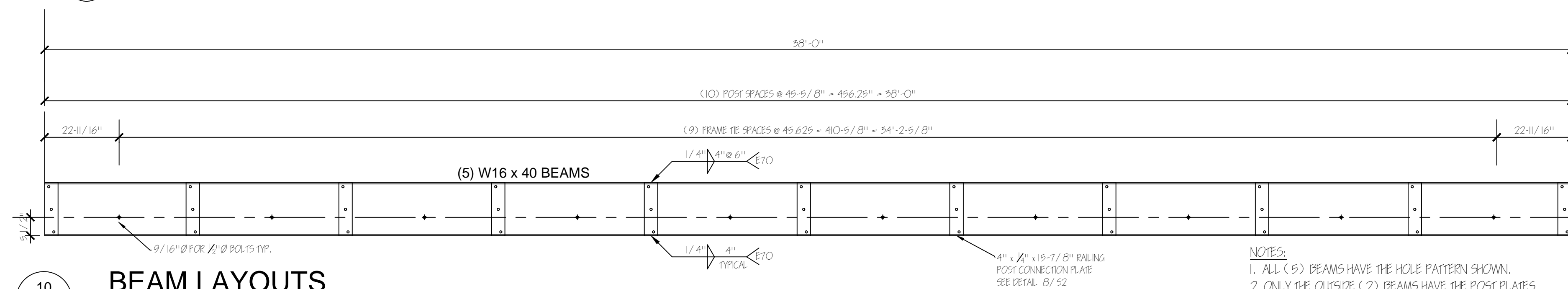
## HANDRAIL POST PLATES

SCALE: 1"=1'-0"



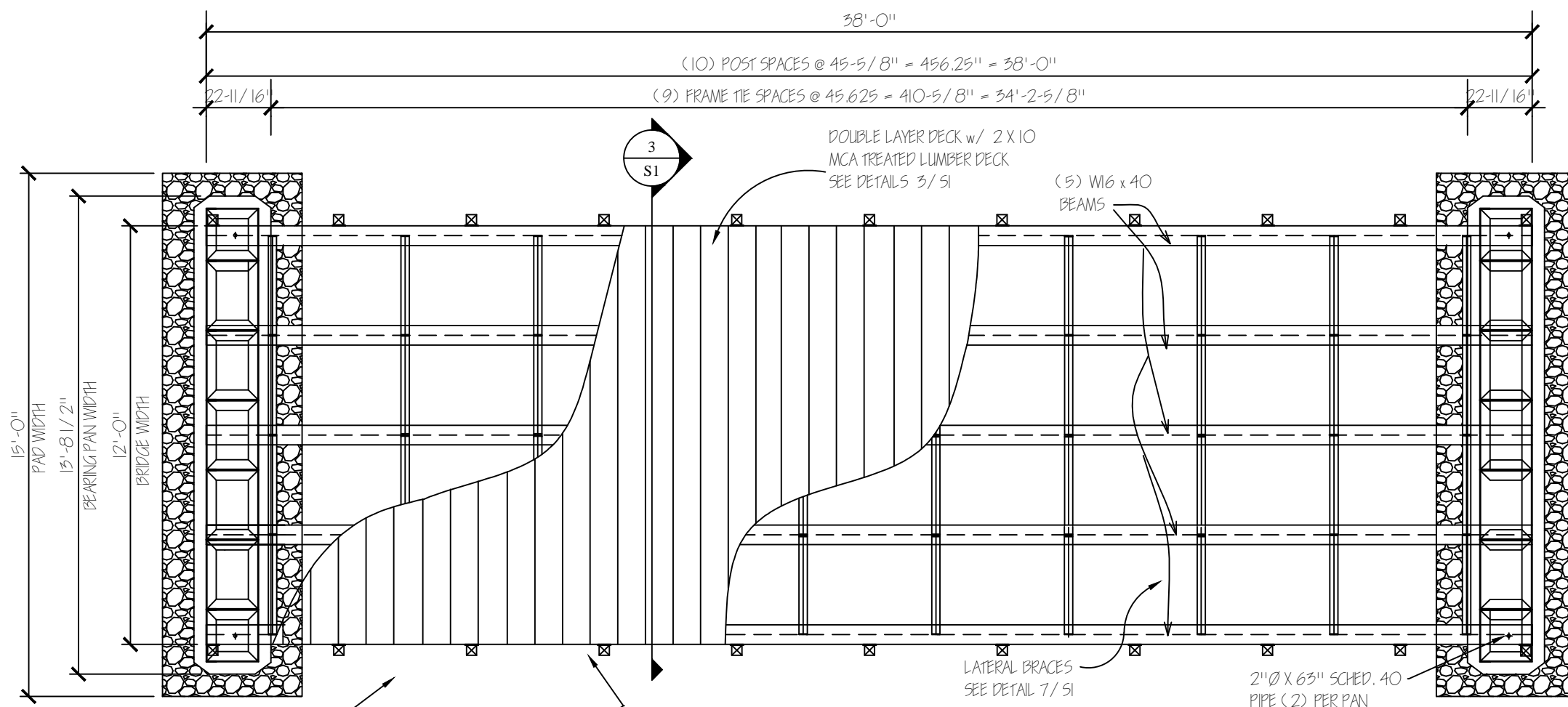
## BEAM BEARING DETAIL

SCALE: 1"=1'-0"



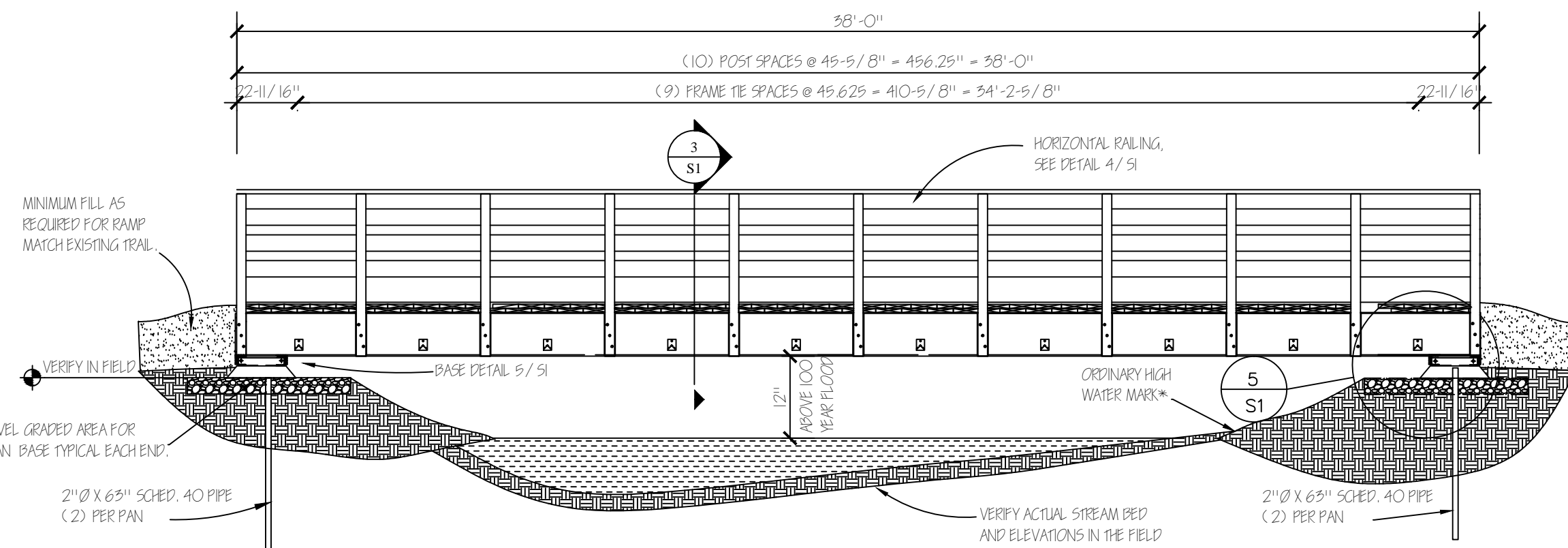
## BEAM LAYOUTS

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



## PLAN VIEW

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



## ELEVATION

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

\*ORDINARY HIGH WATER MARK\*  
THE ORDINARY HIGH WATER MARK IS THE POINT ON THE BANK OR SHORE UP TO WHICH THE PRESENCE AND ACTION OF THE WATER IS SO CONTINUOUS AS TO LEAVE A DISTINCT MARK EITHER BY EROSION, DESTRUCTION OF TERRESTRIAL (LAND) VEGETATION, OR OTHER EASILY RECOGNIZED CHARACTERISTIC.

NO.	DESCRIPTION	DATE	BY
01	FOR FABRICATORS REVIEW OF RAILING & FRAME TIE LAYOUT.	12/ 02/ 22	JFH
02	FOR FABRICATION & CONSTRUCTION	12/ 02/ 22	JFH

## NOTES

### GENERAL NOTES:

- THIS BRIDGE IS DESIGNED ON THE BASIS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES' BRIDGE GUIDELINES FOR NEW AND REPLACEMENT SNOWMOBILE AND ALL-TERRAIN VEHICLE BRIDGES. PUBLICATION PUB-CF-006 DATED 2014, WITH THE FOLLOWING: DESIGN LOADS:  
DEAD LOAD ON DECKING = 8.9 PSF  
DEAD LOAD SUPPORTED BY BRIDGE = 24.2 PSF  
LIVE LOAD #1 ON ENTIRE DECK = 60.0 PSF  
LIVE LOAD #2 ON ENTIRE DECK = 30.0 PSF  
SNOW LOAD = 50.0 PSF  
WIND LOAD = 90.0 MPH  
VEHICLE LOAD = 25,000.0 LBS  
LOAD COMBINATIONS:  
LC#1 = DL + 20 (LL#1 + SL)  
LC#2 = DL + 75 (LL#2 + SL + VL)  
2. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS OR METHODS OR FOR SUPERVISION OF CONSTRUCTION.  
3. ALL DIMENSIONS ARE TO BE CROSS CHECKED WITH EXISTING FIELD DIMENSIONS AND APPROVED SHOP DRAWINGS FOR THE VARIOUS MATERIALS AND BUILDING COMPONENTS. ALL DIMENSIONAL DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.  
4. ALL WORK IS TO BE PERFORMED IN A SAFE AND WORKMAN LIKE MANNER IN COMPLIANCE WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ALL STATE OF WISCONSIN AND JEFFERSON COUNTY, WI BUILDING CODES AND ZONING ORDINANCES AS THEY MAY PERTAIN TO THIS PROJECT.  
5. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS OR METHODS OR FOR SUPERVISION OF CONSTRUCTION.

### SITE WORK:

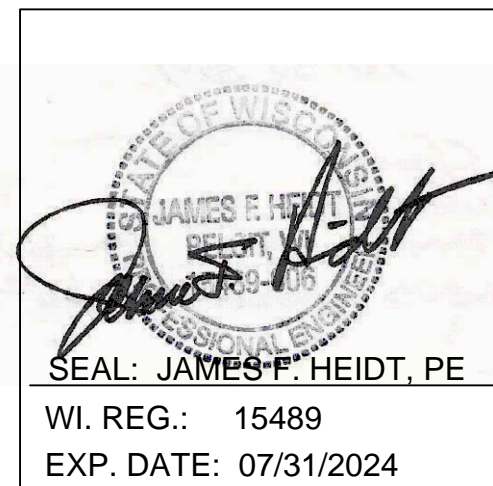
- THE CONTRACTOR IS TO VERIFY ALL CONDITIONS AT THE SITE, PARTICULARLY THE LOCATION OF ANY UNDERGROUND UTILITIES BEFORE EXCAVATION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED NET SOIL BEARING CAPACITY OF 1,800 PSF.
- THE BEARING ELEVATION OF THE BRIDGE SHALL BE SET BY THE BRIDGE OWNER AT AN ELEVATION SUCH THAT THE MINIMUM BOTTOM CHORD ELEVATION OF THE BRIDGE SHALL BE AT LEAST 5.0' ABOVE ORDINARY HIGH WATER MARK, OR AS DETERMINED BY JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS OR THE WISCONSIN DNR.

### STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL USED IN THE FABRICATION AND ERECTION OF THIS BRIDGE SHALL MEET ASTM A572/592 GRADE 50 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI.
- FASTENERS USED IN THE FABRICATION AND ERECTION OF THIS BRIDGE SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS: SAE J429-GRADE 5, SAE J429-GRADE 8 AND ASTM A307-A FOR THEIR RESPECTIVE USES. FASTENERS AND CONNECTORS IN CONTACT WITH TREATED LUMBER SHALL BE HOT-DIP GALVANIZED. DECK SCREWS SHALL BE EVERCOE #8 x 3" DECK MATE SQUARE DRIVE BY PHILLIPS FASTENER PRODUCTS CO.
- WELDING, WHEN REQUIRED, SHALL MEET THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE.
- ALL STRUCTURAL STEEL SHALL BE PRIME PAINTED AFTER FABRICATION WITH A MINIMUM THICKNESS OF 1.4 MIL. OF SHERWIN WILLIAMS TT-P664 RUST INHIBITING AND LACQUER RESISTANT PRIMER.
- ALL STRUCTURAL STEEL SHALL BE FINISHED PAINTED AFTER FABRICATION, BUT PRIOR TO ASSEMBLY, WITH TWO (2) COATS OF SHERWIN WILLIAMS INDUSTRIAL ENAMEL, VOC-COMPLYING OIL-BASED ENAMEL PAINT IN A GLOSS FINISH. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR SURFACE PREPARATION, PRIME PAINTING AND FINISH PAINTING. COLOR TO BE SELECTED BY THE OWNER FROM MANUFACTURER'S STANDARD COLOR CHARTS.

### DIMENSION LUMBER:

- ALL STRUCTURAL DIMENSION LUMBER INSTALLED IN THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE 2001 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (2001 NDS), AND SHALL BE STAMPED WITH A MINIMUM EQUIVALENT GRADE OF 2400 MSR 2.0E66, SOUTHERN PINE OR SPRUCE-PINE-FIR SPECIES.
- ALL WOOD USED IN THIS BRIDGE SHALL BE MICRONIZED COPPER AZOL E (MCA) PRESERVATIVE TREATED TO A MINIMUM RETENTION OF 0.06 POUNDS PER CUBIC FOOT FOR ABOVE GROUND LUMBER AND 0.16 POUNDS PER CUBIC FOOT FOR LUMBER IN GROUND CONTACT, PER THE CHEMICAL MANUFACTURER'S INSTRUCTIONS.
- THE MOISTURE CONTENT OF ALL STRUCTURAL FRAMING LUMBER, PLYWOOD AND FABRICATED WOOD PRODUCTS SHALL NOT EXCEED 19% AT THE TIME OF INSTALLATION. JOBSITE STORAGE OF ALL WOOD PRODUCTS SHALL PROTECT WOOD MATERIALS FROM DAMAGE DUE TO THE ELEMENTS. NO WARRIED LUMBER SHALL BE USED IN THE CONSTRUCTION OF THE BRIDGE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING DURING HANDLING AND ERECTION OF THE BRIDGE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL FINAL BRACING, AS SHOWN ON THE SHOP DRAWINGS.



SEAL: JAMES F. HEIDT, PE  
WI. REG. #: 15489  
EXP. DATE: 07/31/2024

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PROJECT:

Trail Bridges & Finishing  
606 Delco Drive  
P.O. Box 270  
Clinton, Wisconsin 53525  
Phone = 608-676-2282  
Fax = 608-676-2283

**CUSTOM**  
MANUFACTURING INC.

CLIENT:

JAMES F. HEIDT, PE, LLC  
CIVIL & STRUCTURAL ENGINEERING  
2543 LAUNDALE DR. BELLEVUE, WISCONSIN 53511  
PHONE: 608-766-0700, CELL: 608-617-7116, FAX: 608-766-0701, E-MAIL: JHEIDT@AOL.COM

DRAWN: JFH

DATE: 12/ 01/ 22

SCALE: AS SHOWN

JOB NO. 22-129

SHEET NO.

S1