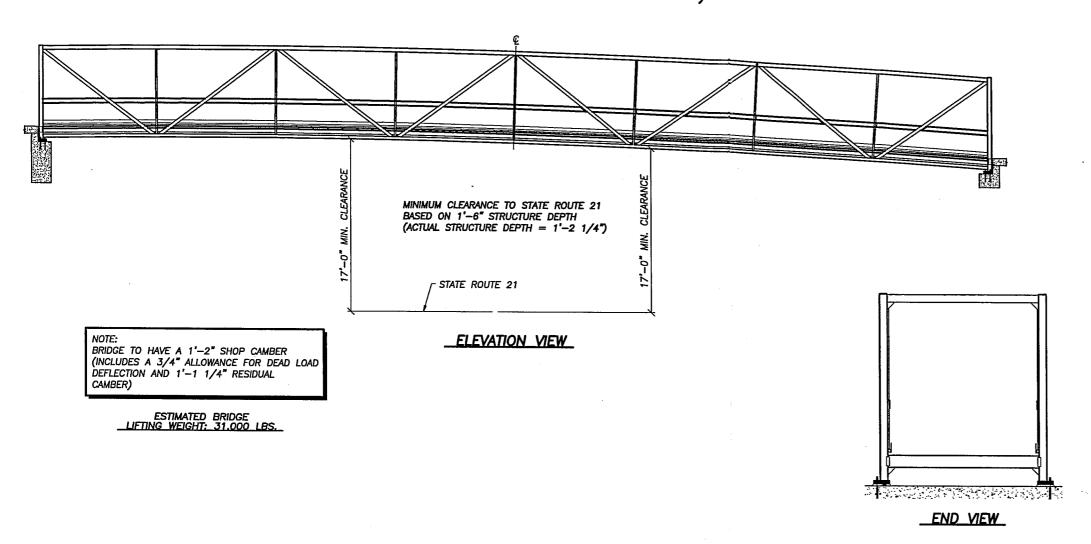
LINCOLN WAY PEDESTRIAN BRIDGE STARK COUNTY, OHIO



DESIGN DATA

- 1) DESIGN OF SUPERSTRUCTURE SHALL BE IN ACCORDANCE WITH AASHTO, AISC, & PROJECT SPECIFICATIONS.
- 2) DESIGN LOADS:
- LIVE LOAD
- A) A MINIMUM UNIFORM LIVE LOAD OF 85 psf APPLIED TO THE ENTIRE DECK SURFACE: OR
- B) 10,000 LB VEHICLE (H5)
- 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.) WIND LOAD
- A) A LATERAL WIND LOAD OF 35 psf ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
- B) AN UPLIFT WIND LOAD OF 20 psf APPLIED AT THE WINDWARD QUARTER POINT IF THE TRANSVERSE BRIDGE

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	7,800					
UNIFORM LIVE	17,500					
VEHICLE	5,000					
WIND		18,000		12,000		
WINDWARD	-18,000					
LEEWARD	9,900					
THERMAL				1,600		
"P" - VERTICAL LOAD FACH BASE PLATE (4 PER BRIDGE)						

- HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE) - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)

TEMPERATURE/LENGTH CHART				
TEMPERATURE	LENGTH			
-40°F	103'-8 1/8"			
70°F	103'-9"			
110°F	103'-9 3/8"			

ENGINEER'S SIGNATURE AND SEAL ARE TO ASSUME DESIGN RESPONSIBILITY FOR THE PREFABRICATED STEEL SUPERSTRUCTURE AS DRAWN AND SUPPLIED BY WHEELER CONSOLIDATED, INDEPENDENT OF ITS FINAL POSITION. THIS DESIGN RESPONSIBILITY IS LIMITED TO THE PREFABRICATED STEEL SUPERSTRUCTURE ONLY AND DOES NOT INCLUDE ANY DESIGN RESPONSIBILITY. PERTAINING TO, BUT NOT LIMITED TO, SUBSTRUCTURE DESIGN OR CAPACITY, HYDRAULICS, SOILS, SCOUR ANALYSIS, PERMITTING PROCEDURES. ERECTION, ROADWAY GEOMETRICS, ETC.

OF OH TOWN RONALD BENSON

INDEX

1) COVER SHEET

- 2) GENERAL PLAN & **ELEVATION**
- END & SECTION
- 4) BEARING DETAILS
- 5) WELD DETAILS
- 6) FENCING DETAILS
- 7) SPLICE DETAILS
- 8) SPLICE DETAILS

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 =
- 2) THE WELDING PROCESS SHALL BE THE FLUX CORE ARC WELDING PROCESS, UTILIZING EBOTI ELECTRODES.
- 3) WELDED CONNECTIONS SHALL BE WELDS OF THE SIZE
 - A) BOTH ENDS OF VERTICALS, DIAGONALS, FLOOR BEAMS AND WIND BRACING SHALL BE WELDED ALL
 - B) BOTTOM OF STRINGERS SHALL BE STITCH WELDED TO TOP OF FLOOR BEAMS.
 - C) MISCELLANEOUS MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.
- 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 CHORDS (WHEN REQUIRED OR AS NECESSARY) SHALL BE FULL PENETRATION JOINTS USING JOINT DETAIL B-U2A-GF. ALL OF THESE WELDS SHALL BE TESTED. THE TOP CHORD TESTING SHALL BE MAG. PARTICLE AND THE BOTTOM CHORD TESTING SHALL BE MAG. PARTICLE.
- 6) ALL EXPOSED SURFACES OF STEEL WILL BE SAND BLASTED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION NO. 6 BLAST CLEANING (SSPC-SP6).
- 7) BRIDGE DECKING TO BE 3"x12" DOUGLAS FIR-LARCH SELECT STRUCTURAL S1S1E, ACZA TREATED.
- 8) RUBRAIL TO BE 2"x6" SOUTHERN YELLOW PINE (S4S).
- 9) BRIDGE TO BE FABRICATED AND DELIVERED TO THE SITE AS 2 UNITS.
- 10) STRINGERS SHALL SPAN A MINIMUM OF 2 BAYS
- 11) SHOP SPLICE LOCATIONS SHALL BE APPROVED BY THE SEALING ENGINEER.
- 12) ALL HARDWARE FOR BOLTING FIELD SPLICES SHALL BE A325 TYPE III EXCEPT NON-STRUCTURAL CONNECTIONS DO NOT REQUIRE A325. ALL BOLTS IN FIELD SPLICE SHALL BE TIGHTENED TO PROVIDE A MIN. BOLT TENSION EQUAL TO PROOF LOAD. PROVISIONS OF AASHTO DIV. II SECT. 11
- 13) THE CHAIN LINK FENCING SHALL BE GALVANIZED AND VINYL COATED, WITH A MAXIMUM OPENING OF 1 INCH. THE VINYL COATING SHALL BE THE SAME COLOR AS USED ON THE VANDAL PROTECTION FENCE.

DO NOT SCALE DRAWINGS

DESCRIPTION DATE

COVER SHEET

103'-9" PEDESTRIAN BRIDGE 8'-0" CLEAR WALKWAY LINCOLN WAY PEDESTRIAN BRIDGE STARK COUNTY, OHIO

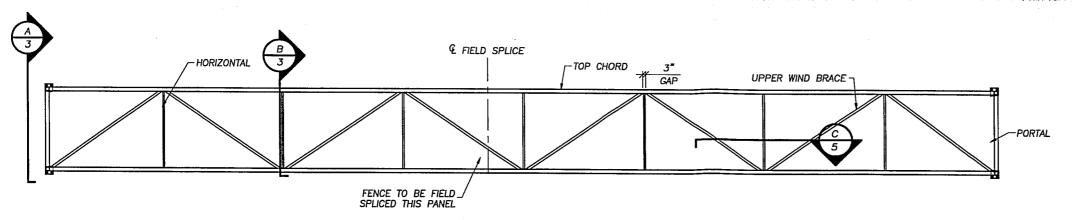


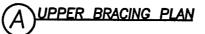
WHEELER CONSOLIDATED 3340 REPUBLIC AVE ST. LOUIS PARK, MN 55426

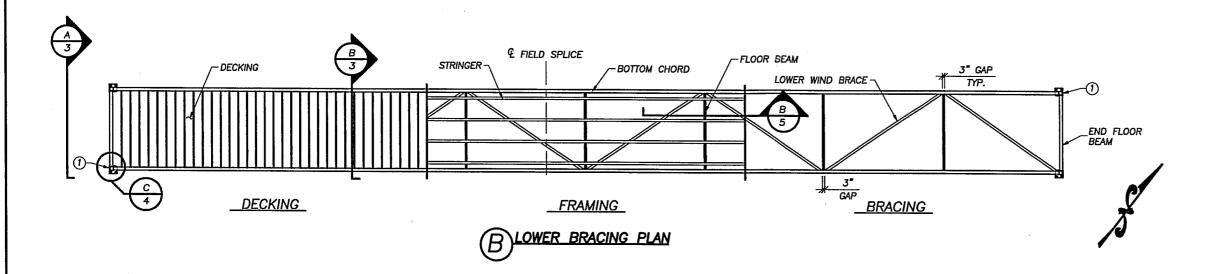
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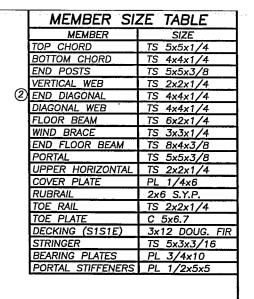
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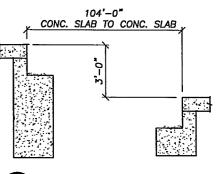
1 of 8



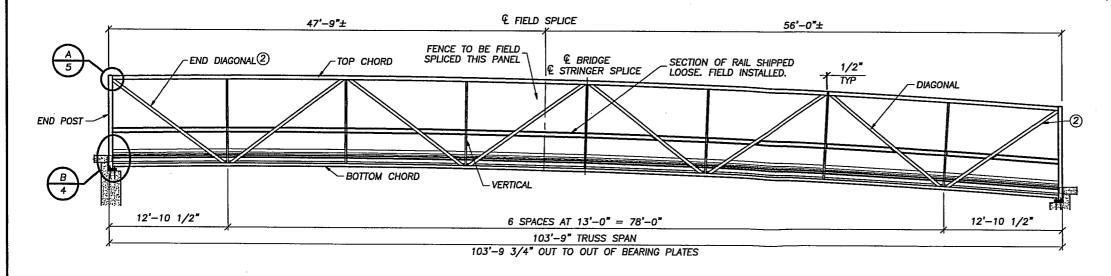








D SUBSTRUCTURE LAYOUT



(C) ELEVATION

KEY NOTES:

- (1) BRIDGE NAME PLATE/ LOAD LIMIT PLATE EA. END. PLATE SHALL STATE, "5 TON VEHICLE LOAD LIMIT."
- ② END DIAGONAL TO BE DOUBLE MITERED AT TOP CHORD CONNECTION.

SHEET TITLE:

GENERAL PLAN & ELEVATION

103'-9" PEDESTRIAN BRIDGE 8'-0" CLEAR WALKWAY LINCOLN WAY PEDESTRIAN BRIDGE STARK COUNTY, OHIO

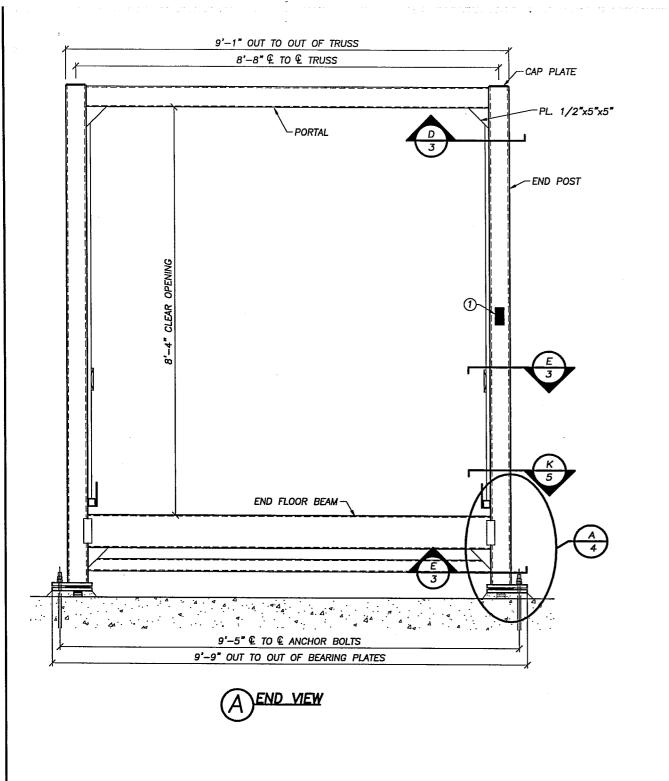


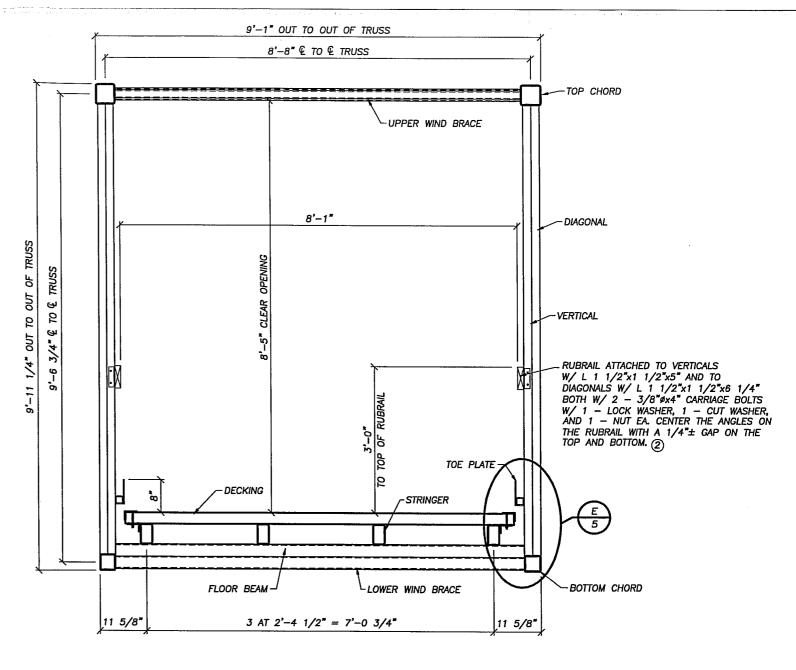
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DATE: 6/03/02 TRACKING
CHK: PME DWN: MJP ORDER N

TRACKING NO. 19994 SHEET NO.

ORDER NO. 08793 2 OF 8

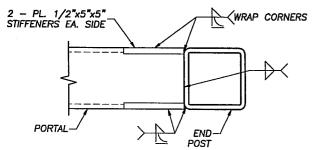


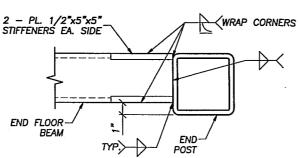


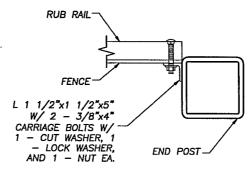
TYPICAL SECTION VIEW

KEY NOTES:

- (1) BRIDGE NAME PLATE/ LOAD LIMIT PLATE EA. END. PLATE SHALL STATE, "5 TON VEHICLE LOAD LIMIT."
- 2 MINIMIZE THE UNSUPPORTED LENGTH AT DIAGONALS (ALWAYS ATTACH TO THE BOTTOM OF THE DIAGONAL).







END AND SECTION DETAILS

103'-9" PEDESTRIAN BRIDGE 8'-0" CLEAR WALKWAY LINCOLN WAY PEDESTRIAN BRIDGE STARK COUNTY, OHIO



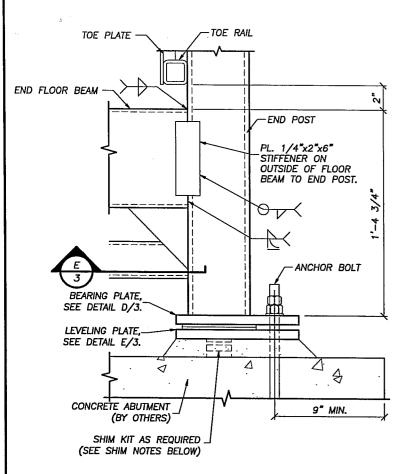
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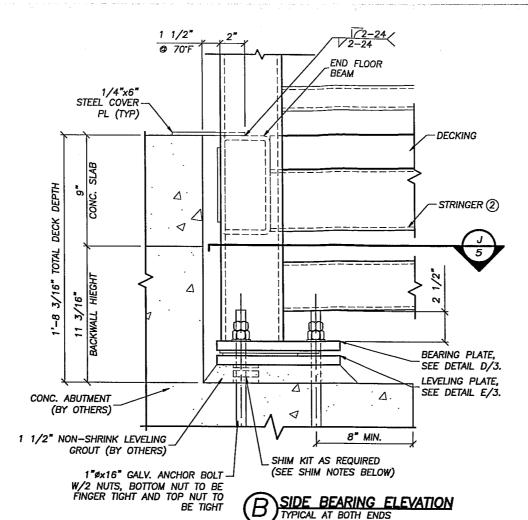
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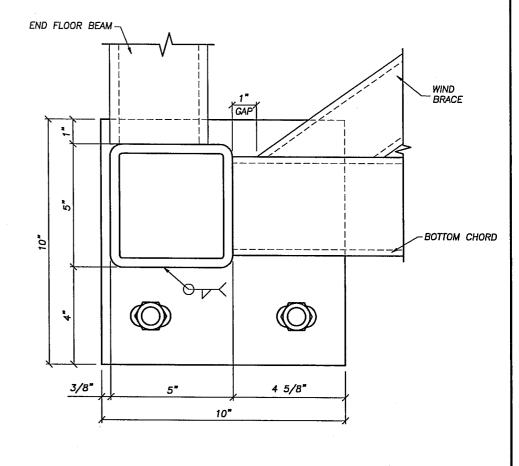
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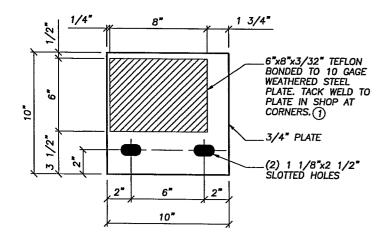
SHEET NO. 3 of 8

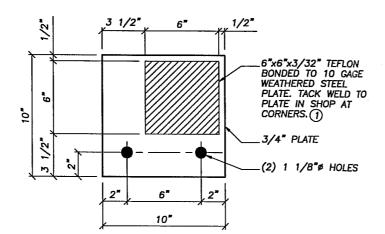












BEARING PLATE



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" CLEARANCE REQUIRED. ANCHORS SHALL BE SURROUNDED BY AT LEAST ONE BAR ON ALL SIDES.

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 PLATES TO JUST TOUCH THE TOP OF THE ABUTMENT BACKWALL, DO NOT ALLOW ANY BRIDGE WEIGHT TO REST ON COVER PLATES.

WHEN THE DEAD LOAD REACTION EXCEEDS 20,000 LBS, THE SHIM KIT SHALL BE PLACED ON A 4"x4"x1/2" PL. (PROVIDED). FOR BRIDGES WITH CONCRETE DECK, THE BEARINGS SHALL NOT BE GROUTED UNTIL AFTER DECK PLACEMENT. IN ALL CASES THE CONTRACTOR SHALL ENSURE STABILITY PRIOR TO GROUTING.

SHEET NOTES:

1. ANY STEEL TUBING MEMBERS NOT COMPLETELY SEALED SHALL HAVE A 3/8" WEEP HOLE AT BOTH ENDS.

KEY NOTES:

- 1 TEFLON TO BE COVERED UP DURING SHIPMENT AND LIFTING TO AVOID DAMAGE TO THE TEFLON PRIOR TO BRIDGE PLACEMENT.
- ② ADJUST ELEVATION OF STRINGER (UP 1/8"±) TO MATCH TOP OF DECKING WITH TOP OF END FLOOR BEAM.

BEARING CONNECTION

EU ET WELD	OLIADT
FILLET WELD	CHARI
THICKNESS OF THINNEST PIECE	WELD SIZE
1/4" OR LESS	1/4"
3/8" OR GREATER	5/16"
NON STANDARD	WELDS
NONE	

WELD PROCEDURES				
FILLET	PARTIAL PEN			
FC-03	FC-06			
FC-04				
	FULL PEN			
	FC-05			

WELD NOTES:

NON-STRUCTURAL WELDS INCLUDE RAILING, TOE PLATES, COVER PLATES, & TIE DOWNS. FILLET WELDS AT THESE LOCATIONS SHALL BE 3/16."

MATCHED EDGES OF ANY MEMBERS SHALL HAVE PARTIAL PENETRATION

THE RADIUS OF ANY MEMBER SHALL BE BUILT UP AS REQUIRED TO OBTAIN FULL WELD THROAT THICKNESS.

SHEET TITLE:

BEARING DETAILS

103'-9" PEDESTRIAN BRIDGE 8'-0" CLEAR WALKWAY LINCOLN WAY PEDESTRIAN BRIDGE STARK COUNTY, OHIO



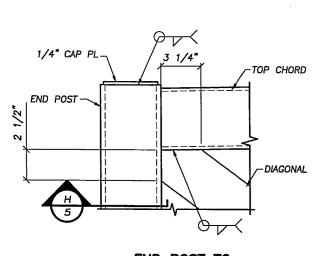
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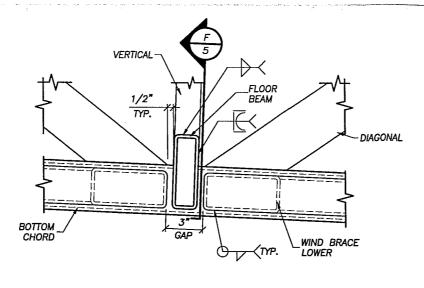
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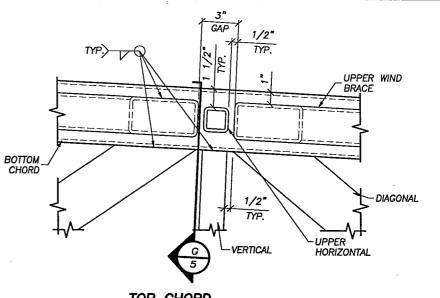
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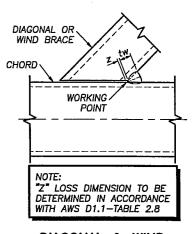
SHEET NO. ORDER NO. 08793

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END POST TO CHORD WELD DETAIL

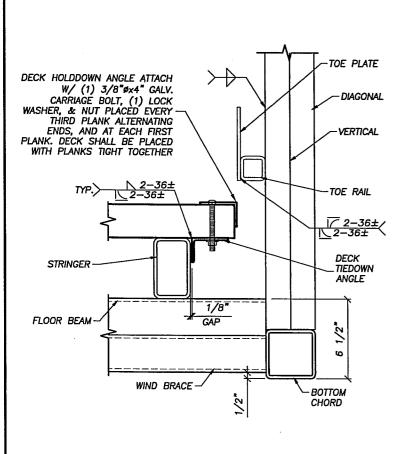
BOTTOM CHORD ASSEMBLY WELD DETAIL

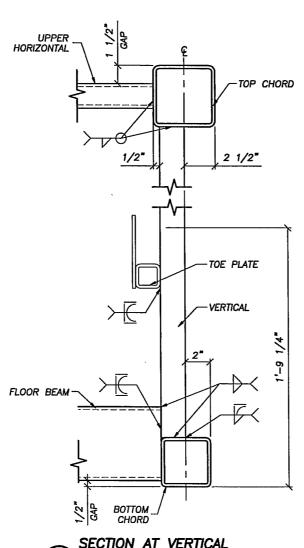
TOP CHORD ASSEMBLY WELD DETAIL

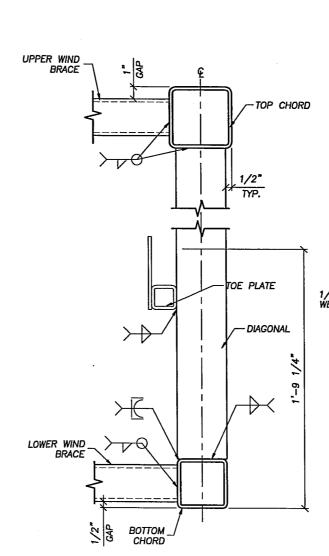
DIAGONAL & WIND BRACE WELD STANDARD

END POST

TOE RAIL







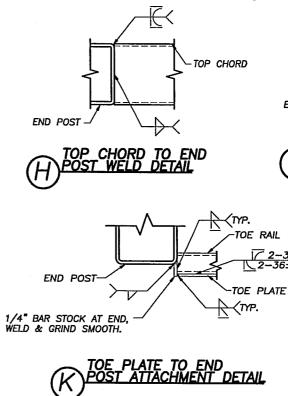


PLATE TO END T<u>ATTACHMENT DETAIL</u>

SHEET TITLE:

WELD DETAILS

103'-9" PEDESTRIAN BRIDGE 8'-0" CLEAR WALKWAY LINCOLN WAY PEDESTRIAN BRIDGE STARK COUNTY, OHIO



WHEELER CONSOLIDATED 3340 REPUBLIC AVE ST. LOUIS PARK, MN 55426

DATE: 6/03/02 CHK: PME DWN: MJP

TRACKING NO. T9994 ORDER NO. 08793

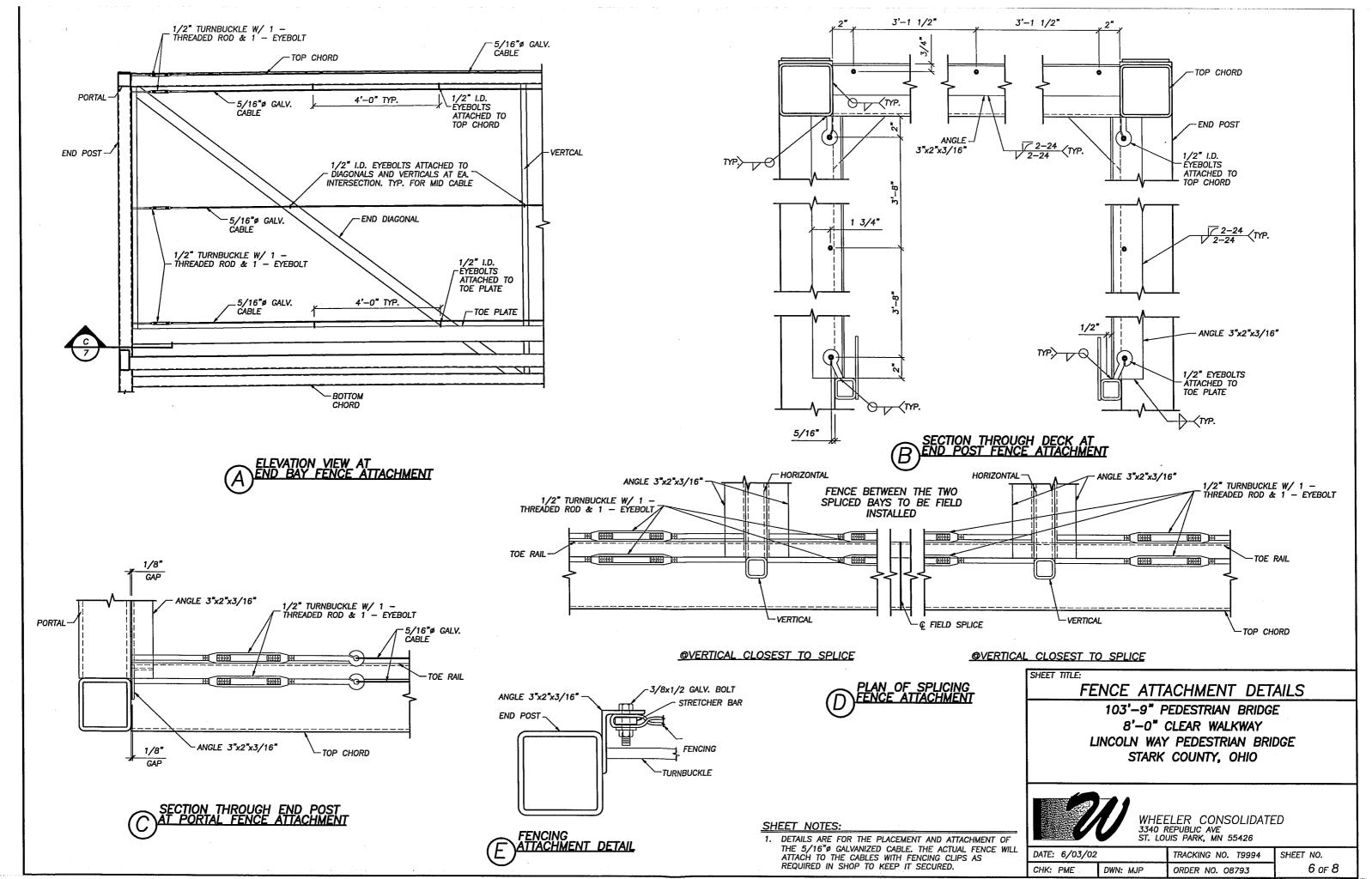
SHEET NO. 5 of 8

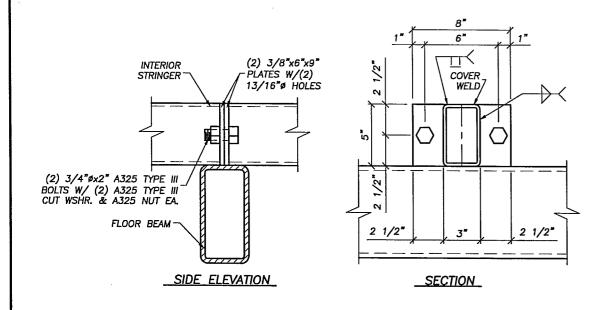
-BOT. CHORD

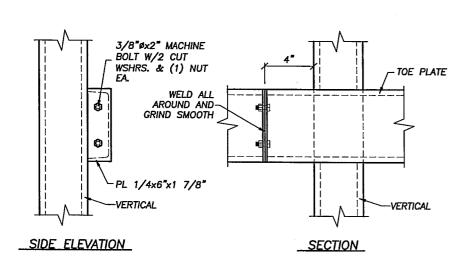
BOTTOM CHORD TO END POST WELD DETAIL

SECTION AT VERTICAL ATTACHMENT DETAIL

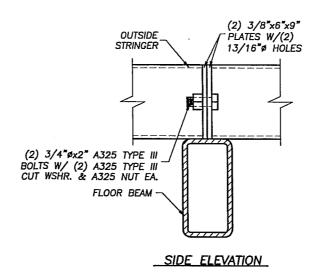
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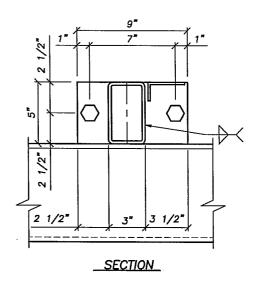


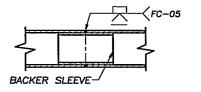




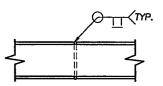




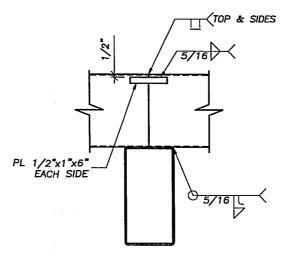












CONTINOUS STRINGER SPLICE DETAIL SHALL BE USED WHEN STRINGER IS NOT CONTINUOUS OVER MINIMUM OF TWO BAYS SHEET TITLE:

SPLICE DETAILS

103'-9" PEDESTRIAN BRIDGE 8'-0" CLEAR WALKWAY LINCOLN WAY PEDESTRIAN BRIDGE STARK COUNTY, OHIO



WHEELER CONSOLIDATED 3340 REPUBLIC AVE ST. LOUIS PARK, MN 55426

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DATE: 6/03/02		TRACKING NO. T9994	SHEET NO.
CHK: PME	DWN: MJP	ORDER NO. 08793	7.0F8

