

Martin N. Pohl 07-01-2020
PROJECT ENGINEER DATE



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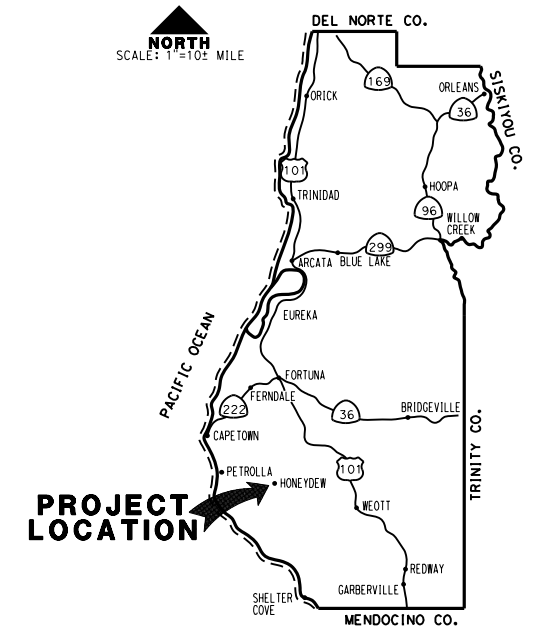
ROAD NAME: MATTOLE ROAD	MILE POST: 0.19
ROAD NO.: 3D010	EA NO.:
PROJECT NO.: BPMP-5904(118)	PPNO.:
CONTRACT NO.: 214118	
PLOT DATE: 07-01-2020	REVISION DATE: 07-01-2020

QUINCY ENGINEERING
DESIGNED BY: MP
DRAWN BY: BM
REVIEWED BY: MK
APPROVED BY:

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
BRIDGE PREVENTIVE MAINTENANCE PROGRAM (04c-0055)
COVER SHEET, VICINITY MAPS

SHEET 1 OF 9

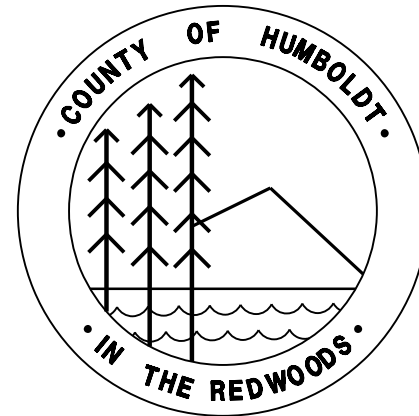
COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS PROJECT PLANS FOR CONSTRUCTION OF BRIDGE PREVENTIVE MAINTENANCE PROGRAM HONEYDEW BRIDGE (04C-0055) ON MATTOLE ROAD (3D010) PM 0.0 PROJECT NO. BPMP 5904 (118) CONTRACT NO. 214118



LOCATION MAP
SCALE: 1"=10± MILE

INDEX OF SHEETS

- 1 COVER SHEET, VICINITY MAPS
- 2 TRAFFIC CONTROL PLANS, DETAILS AND QUANTITIES
- 3 GENERAL PLAN
- 4 TYPICAL SECTION
- 5 FRAMING, RAILING, & BEARING DETAILS
- 6 TRUSS DETAIL NO. 1
- 7 TRUSS DETAIL NO. 2
- 8 CROSS SECTION & REPAIR DETAILS NO. 1
- 9 CROSS SECTION & REPAIR DETAILS NO. 2



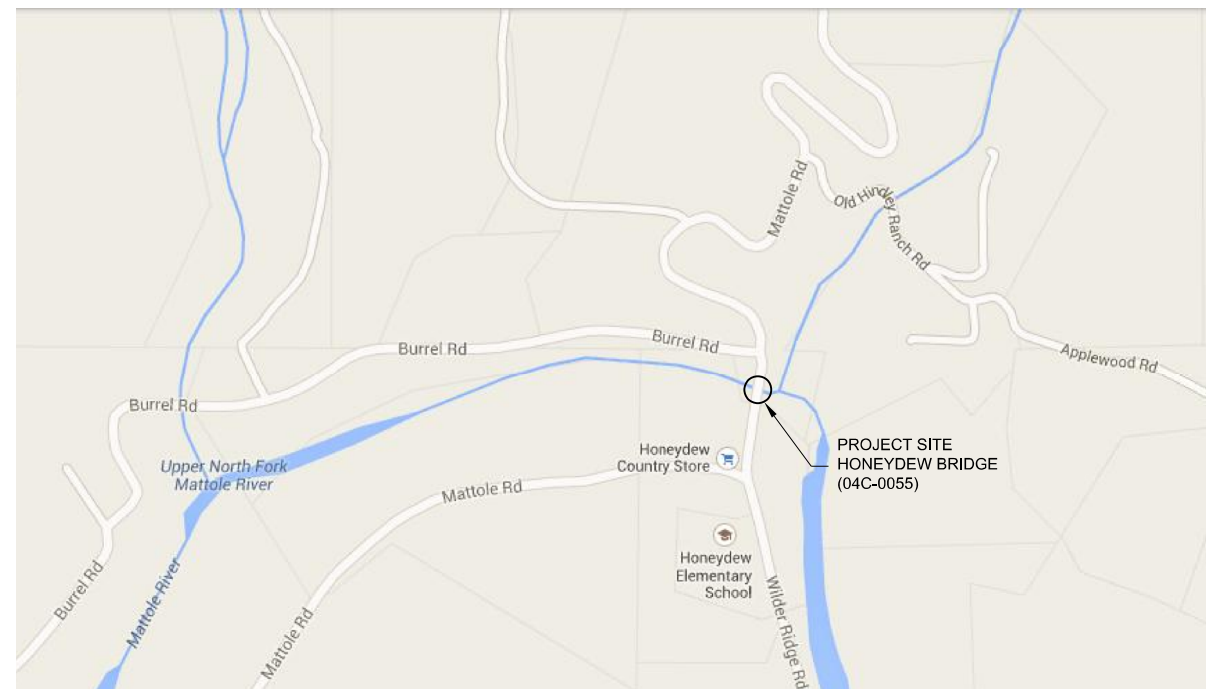
APPLICABLE STANDARD PLANS

REFERENCE TO CALTRANS STANDARD PLANS DATED 2018.
SEE LIST OF APPLICABLE STANDARD PLANS IN SPECIAL PROVISIONS

NOTES

THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE FOR THIS PROJECT.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



VICINITY MAP
NOT TO SCALE

RECOMMENDED

James L. Foster 7/01/2020
DATE



APPROVED

Tony R. Seghetti 7/01/2020
HUMBOLDT COUNTY DATE



ORIGINAL LOW BID PRICE	CONSTRUCTED BY	RESIDENT ENGINEER
	PROJECT COMPLETED / /	CONSTRUCTION COST \$

Notes:

1. Staging areas shown in these plans have been permitted by the County of Humboldt. Alternative sites may be used if the contractor obtains permits at their own cost.

Martin N. Pohl
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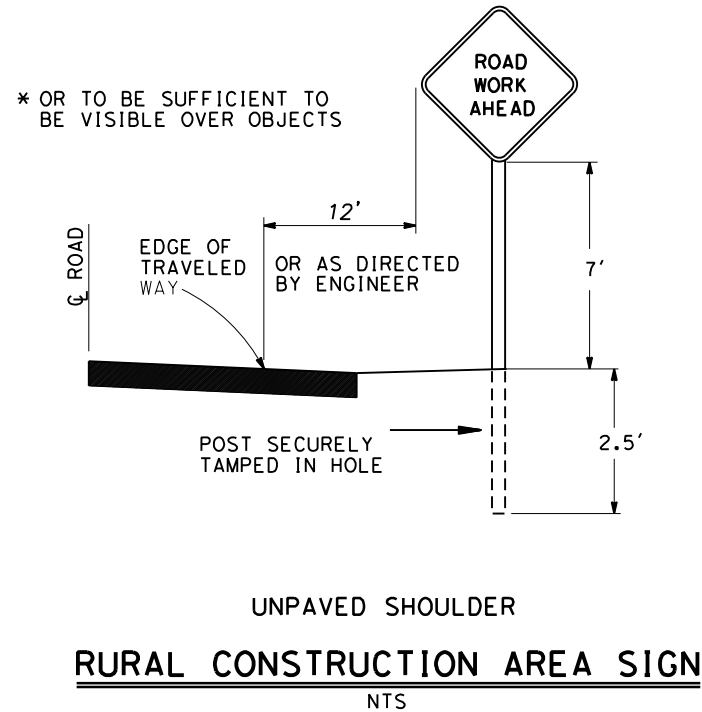
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PROJECT NO.: BPMP-5904(118)	PPNO.:	REVIEWED BY: MK
CONTRACT NO.: 214118		APPROVED BY:
PLOT DATE: 07-01-2020	REVISION DATE: 07-01-2020	



COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
BRIDGE PREVENTIVE MAINTENANCE PROGRAM (04c-0055)
TRAFFIC CONTROL PLAN, DETAILS AND QUANTITIES

SHEET 2 OF 9



QUANTITIES

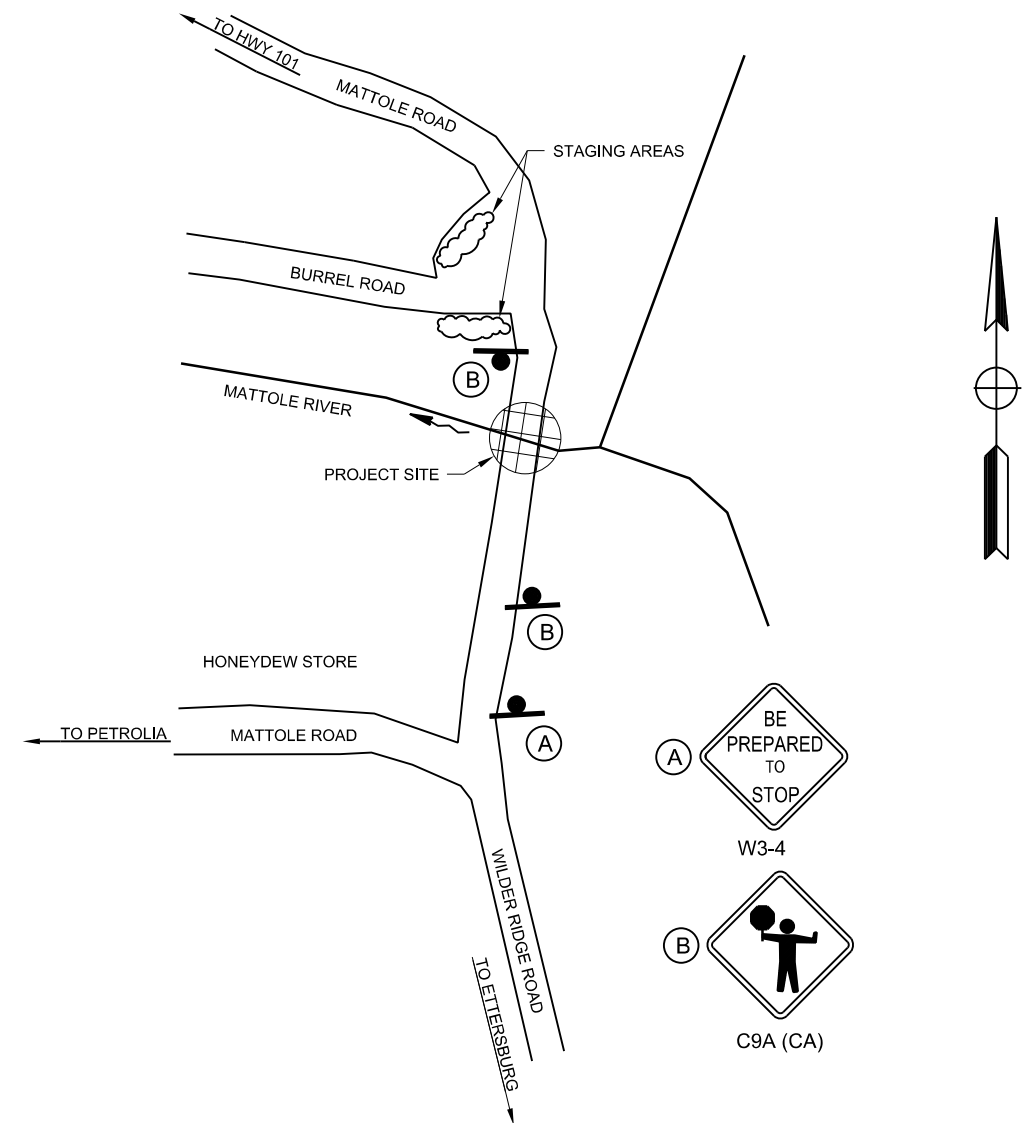
ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY
1	070030	Lead Compliance Plan	LS	1
2	120100	Traffic Control System	LS	1
3	130200	Prepare Water Pollution Control Program	LS	1
4	480300	Temporary Support	LS	1
5	550102	Structural Steel (Bridge)	LB	1,909
6	570120	Treated Lumber and Timber	MFBM	34
7	590115	Clean & Paint Structural Steel	LS	1
8	600148	Repair Bridge Bearing Anchorage	EA	4
9	833020	Wire Fence Panel	LF	816
10	999990	Mobilization	LS	1

ABBREVIATIONS:

(N) NEW
(E) EXISTING

CONSTRUCTION AREA SIGN SUMMARY (04C-0055)

SIGN TYPE	QTY	DESCRIPTION	SIZE	REMARKS	POST SIZE
W3-4	1	BE PREPARED TO STOP	36 x 36	COVERED WHEN NOT IN USE	4" x 4"
C9A (CA)	2	FLAGMAN AHEAD	36 x 36	COVERED WHEN NOT IN USE	4" x 4"



TRAFFIC CONTROL PLAN (04C-0055)

NOT TO SCALE

NOTES

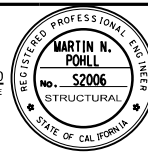
- 1) SIGNS SHALL BE PLACED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
- 2) FINAL PLACEMENT OF SIGNS SHALL BE APPROVED BY RESIDENT ENGINEER.
- 3) ADDITIONAL PORTABLE SIGNS SHALL BE USED AS REQUIRED FOR OTHER ROADSIDE WORK.
- 4) IN ADDITION TO CONSTRUCTION AREA SIGNS AND WHEN DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.

LEGEND:

- ① REMOVE AND REPLACE EXISTING TREATED TIMBER RUNNING PLANKS AND RAILING
- ② MODIFY EXISTING STEEL SLIDE PLATE ASSEMBLY
- ③ REPAIR TRUSS BEARINGS
- ④ REMOVE AND REPLACE TREATED TIMBER TRANSVERSE DECK PLANKS
- ⑤ REPAIR BROKEN PORTAL MEMBER AT U1 AND AT U3 OF SPAN 1
- ⑥ REPLACE PORTION OF STEEL VERTICAL MEMBERS U2-L2 AT BOTH LEFT AND RIGHT TRUSSES OF SPAN 1
- ⑦ RESET STRUCTURE MOUNTED SIGN

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Martin N. Pohl
PROJECT ENGINEER 07-01-2020 DATE



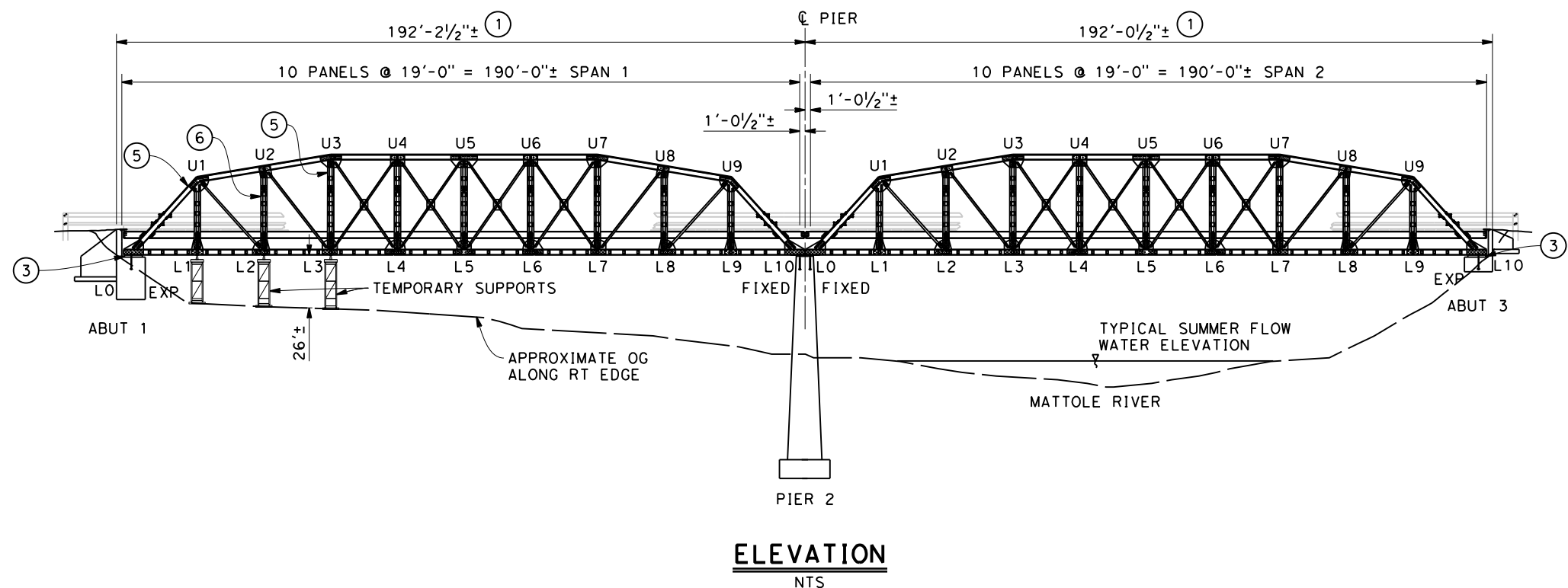
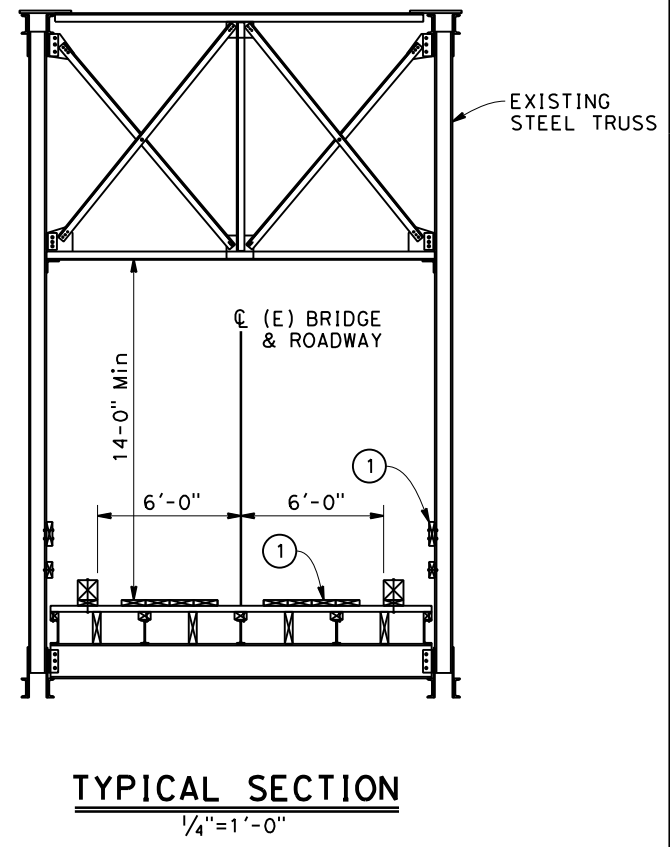
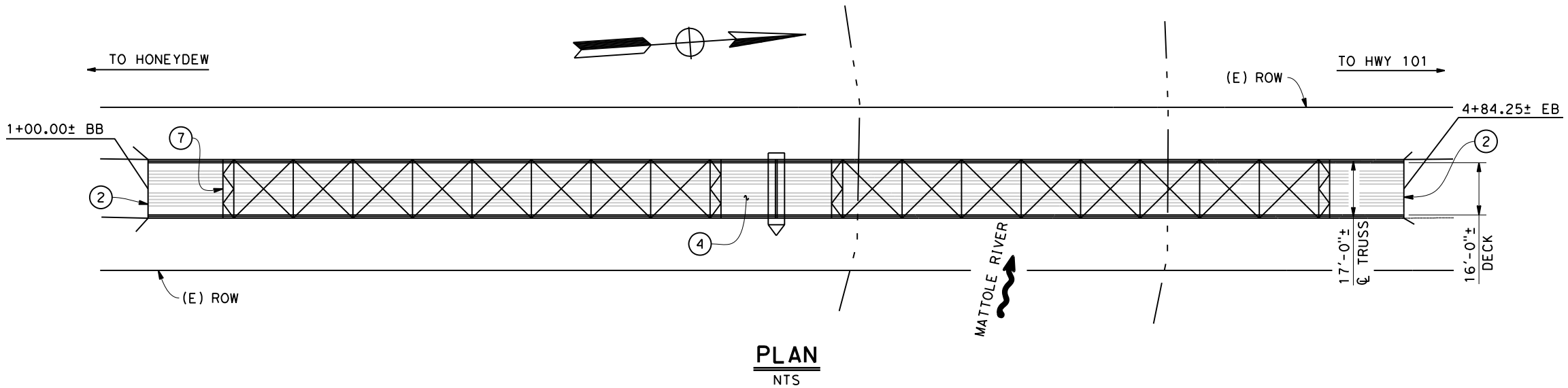
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DRAWN BY: BM
REVIEWED BY: MK
APPROVED BY:

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
BRIDGE PREVENTIVE MAINTENANCE PROGRAM (04c-0055)
GENERAL PLAN

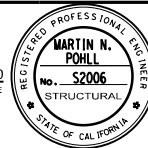
SHEET 3 OF 9



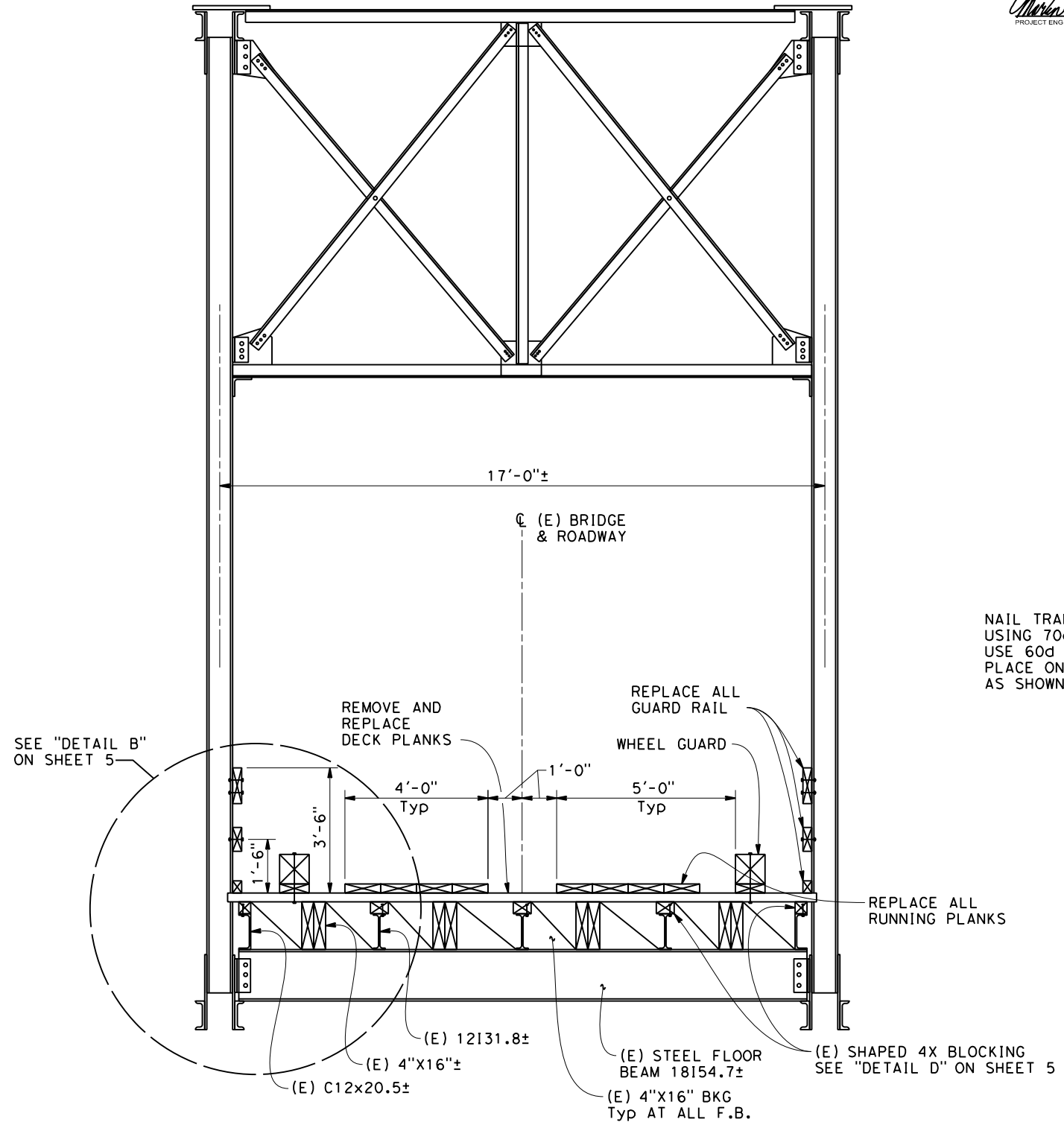
GENERAL NOTES

- STRUCTURAL STEEL:
 PLATES & SHAPES - A709 GRADE 50 (AASHTO M270 GR. 50)
 - fy=50,000 PSI
 ANGLES - fy=36,000 PSI
- STRUCTURAL BOLTS: ASTM F3125 GRADE A325, TYPE 1. THREADS MAY BE INCLUDED IN SHEAR PLANE
 ASTM A307 AT TIMBER. UNLESS NOTED OTHERWISE, ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED.
- TIMBER: DOUGLAS FIR NO. 1 & BTR
 FABRICATION & SURFACE AS SHOWN AND NOTED
 PRESSURE TREATMENT REQUIRED
- WELDING ELECTRODES: fy=70 KSI

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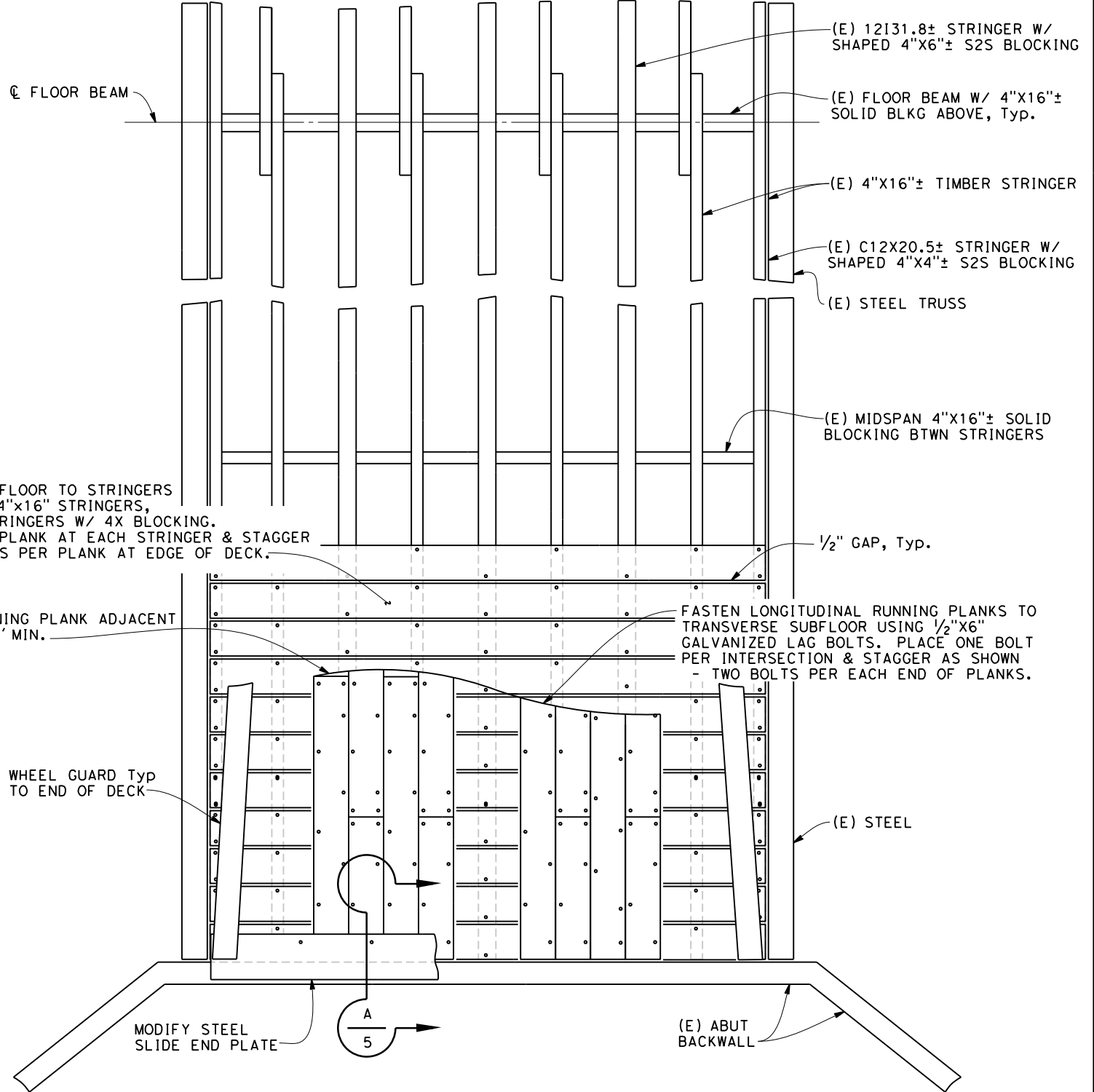


NAIL TRANSVERSE SUB-FLOOR TO STRINGERS USING 70d SPIKES ON 4"x16" STRINGERS, USE 60d SPIKES ON STRINGERS W/ 4X BLOCKING. PLACE ONE SPIKE PER PLANK AT EACH STRINGER & STAGGER AS SHOWN - TWO SPIKES PER PLANK AT EDGE OF DECK.

STAGGER RUNNING PLANK ADJACENT END JOINTS 4' MIN.

WHEEL GUARD Typ TO END OF DECK

FASTEN LONGITUDINAL RUNNING PLANKS TO TRANSVERSE SUBFLOOR USING 1/2"x6" GALVANIZED LAG BOLTS. PLACE ONE BOLT PER INTERSECTION & STAGGER AS SHOWN - TWO BOLTS PER EACH END OF PLANKS.



NOTE: FOR RAILING AND DECK SIZES, DETAILS, AND ATTACHMENTS SEE SHEET 5

TYPICAL SECTION THRU BRIDGE

1/2"=1'-0"

DECK LAYOUT PLAN

1/2"=1'-0"

- NOTES:
1. ALL SPIKES TO HAVE DRILLED PILOT HOLES. SEE DETAIL C ON SHEET 5
 2. ALL FASTENERS SHALL BE LOCATED BETWEEN 2" & 3" FROM EDGE OF PLANKS.
 3. EACH TRANSVERSE PLANK SHALL BE ONE PIECE FREE FROM ANY SPLICING.
 4. ALL DECK SPIKES ARE TO BE HOT DIPPED GALVANIZED TWIST SHANK OR RING SHANK.
 5. LAG BOLTS ARE TO BE INSTALLED BY TURNING & NOT STARTED OR DRIVEN BY IMPACT. DRILL PILOT HOLES. SEE DETAIL C ON SHEET 5. LAG BOLTS SHALL BE HOT DIP GALVANIZED.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

TIMBER REHABILITATION SCHEDULE

DESCRIPTION	Net Size	Length	No.	Surface	QTY (Bd Ft)
TRANSVERSE DECK PLANKS	3" x 12"	16.5'	384	S1S	19,008
RUNNER PLANKS	3" x 12"	24'	128	ROUGH	9,216
DECK PLANK HEADER	6" x 10"	16'	2	ROUGH	160
GUARD RAIL TOP	3" x 12"	20'	32	S4S	1,920
	3" x 12"	16'	6	S4S	288
GUARD RAIL MIDDLE	3" x 8"	20'	8	S4S	336
	3" x 8"	16'	8	S4S	1,280
	3" x 8"	16'	8	S4S	256
GUARD RAIL BOTTOM	3" x 8"	14'	6	S4S	168
WHEEL GUARD SPACER BLOCKS	3" x 4"	18'	43	S2S	774
	3" x 12"	24'	6	S1S	432

Martin N. Pohl
PROJECT ENGINEER
07-01-2020 DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN N. POHL
No. S2006
STRUCTURAL
STATE OF CALIFORNIA

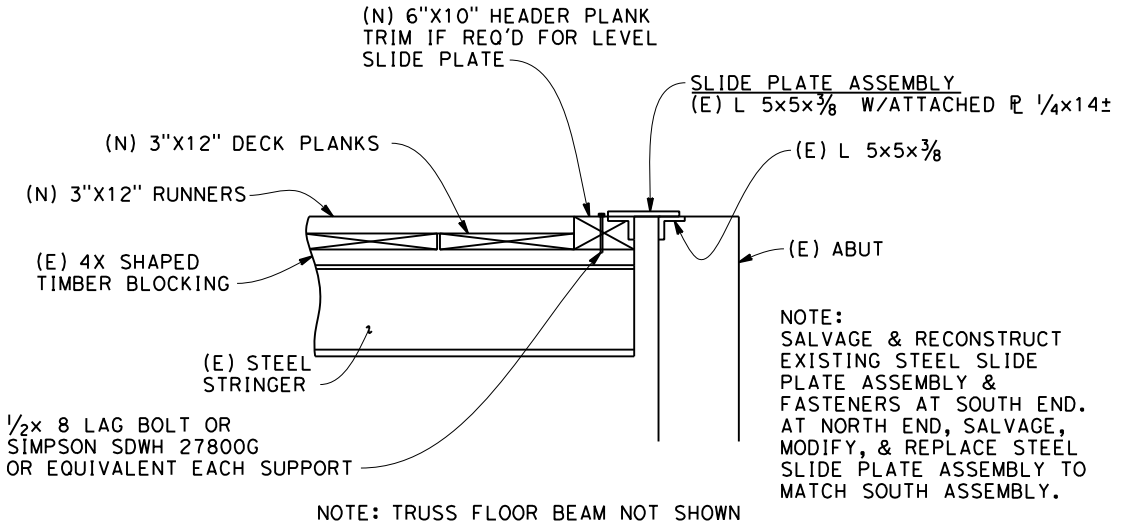
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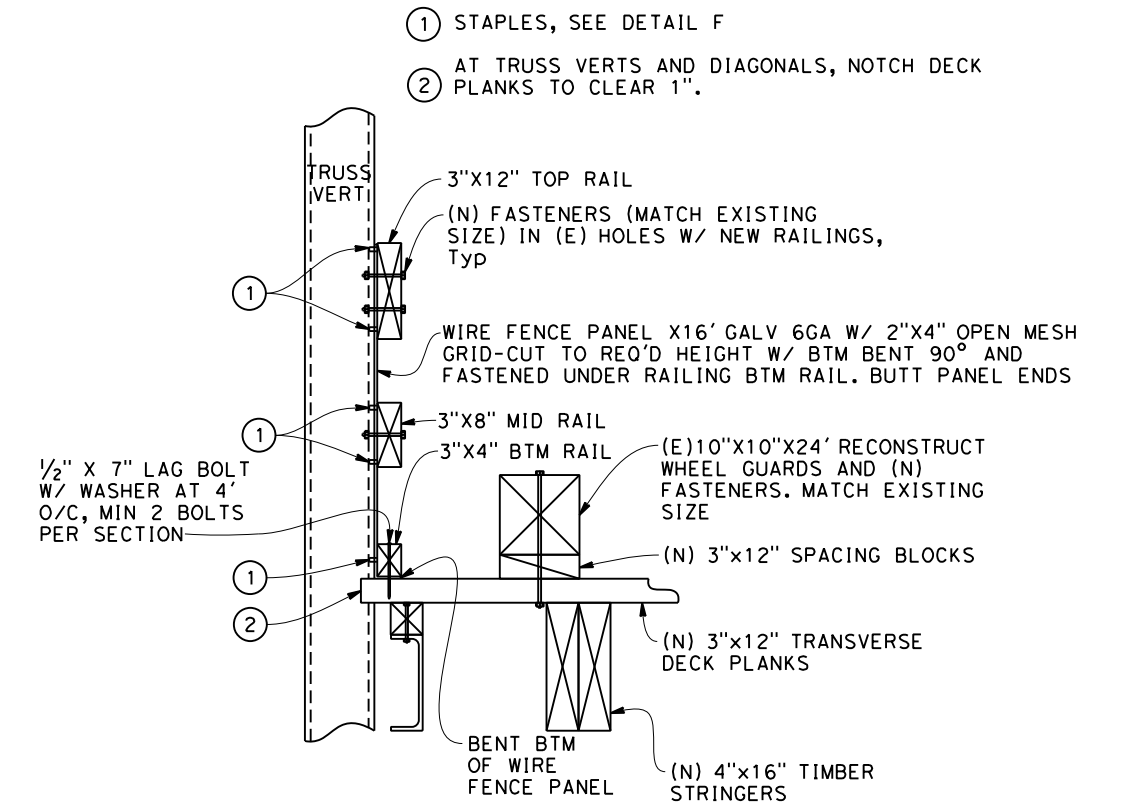
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BRIDGE PREVENTIVE MAINTENANCE PROGRAM (04c-0055)
FRAMING, RAILING, & BEARING DETAILS

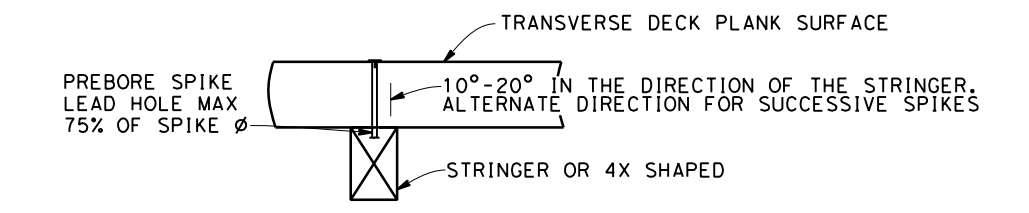
SHEET 5 OF 9



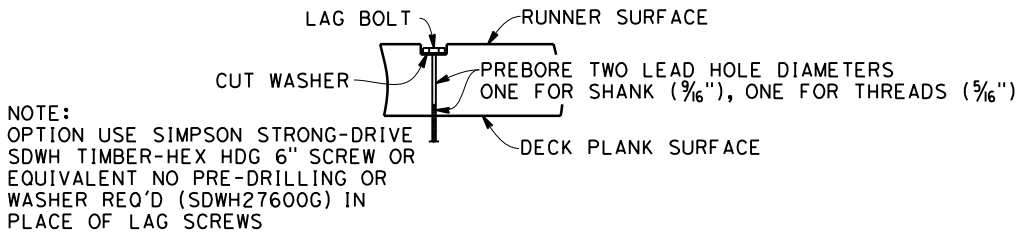
A DECK/ABUTMENT SLIDE PLATE ASSEMBLY DETAIL
NTS



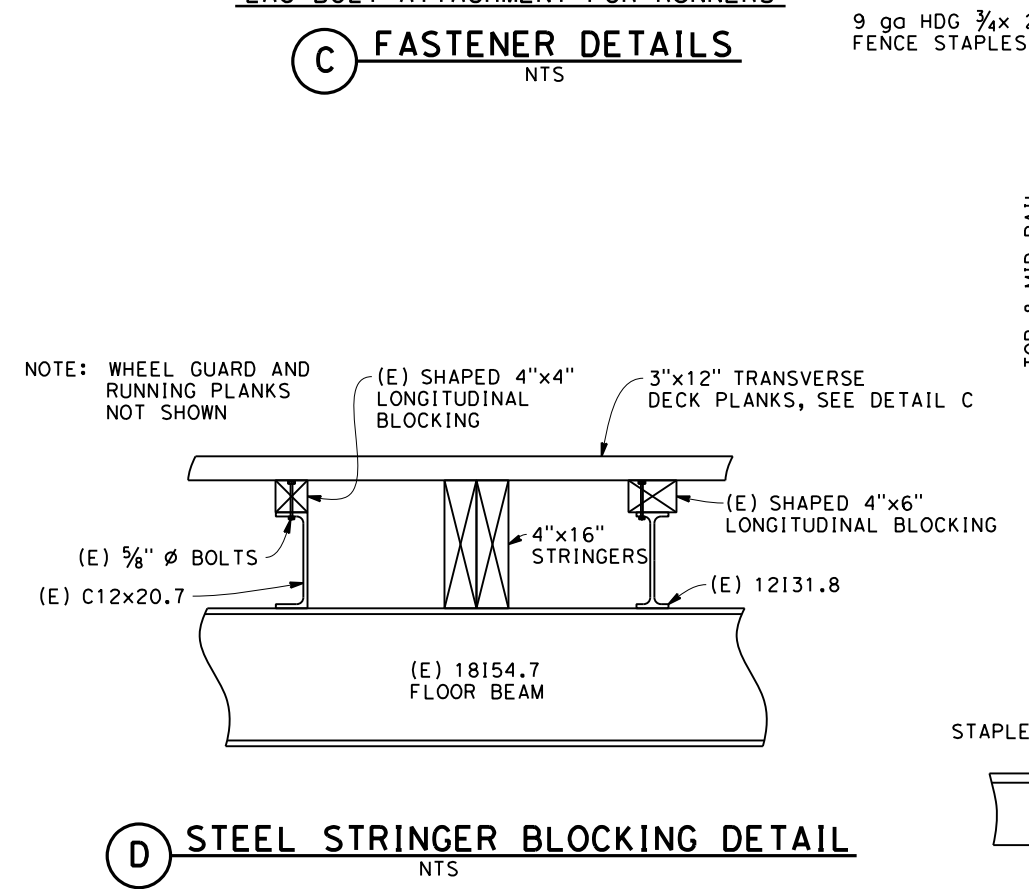
B RAILING BARRIER W/MESH DETAIL
NTS



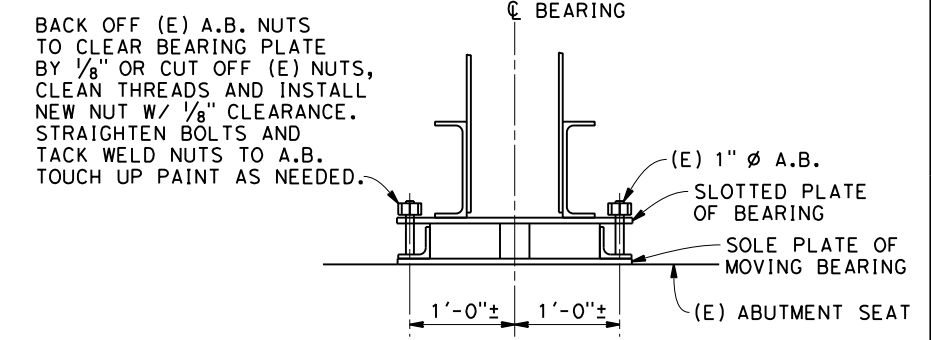
C SPIKE ATTACHMENT FOR DECK PLANKS
NTS



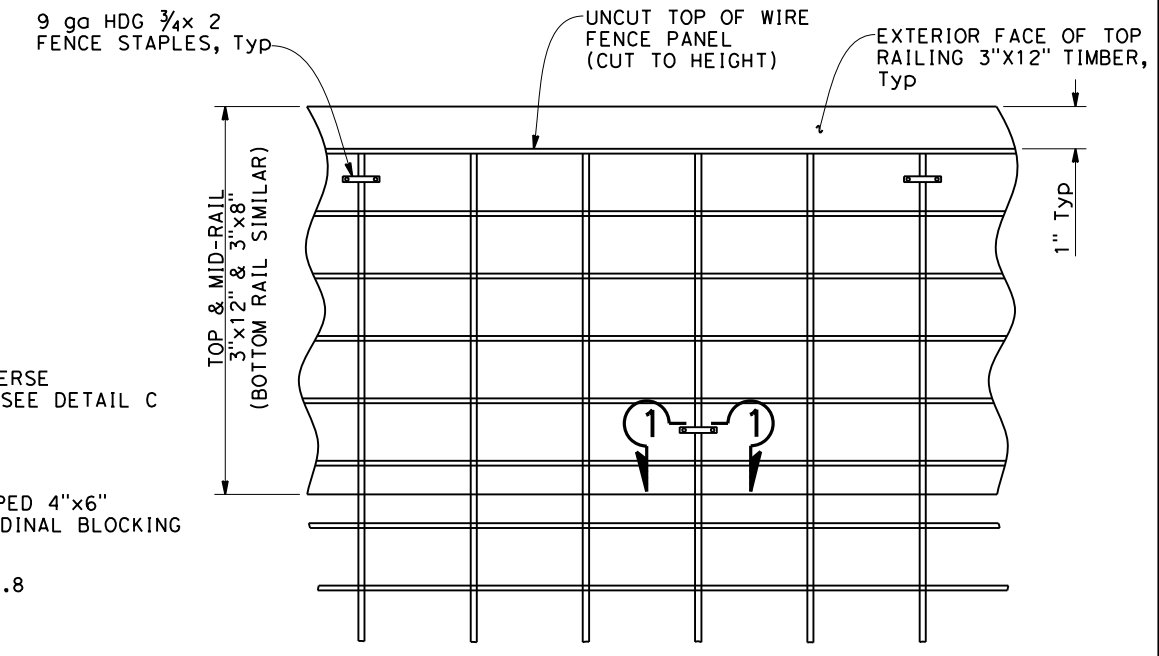
D LAG BOLT ATTACHMENT FOR RUNNERS
NTS



E STEEL STRINGER BLOCKING DETAIL
NTS



F ANCHOR BOLT DETAIL
NTS

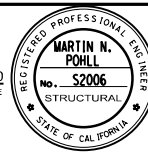


G WIRE FENCE PANEL DETAIL
NTS

NOTES:
1. USE 2 ROWS OF STAPLES ON TOP RAIL AND MID-RAIL USE 1 ROW ON BTM RAIL SPACE STAPLES AT 2' ON CENTER, STAGGER AT DOUBLE ROW.
2. WIRE FENCE PANELS INSTALL ON EXTERIOR FACES OF TIMBER RAILING.
3. PROVIDE WIRE PANEL CONNECTOR HINGE AT BUTT ENDS.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Martin N. Pohl
PROJECT ENGINEER
05-12-2020 DATE



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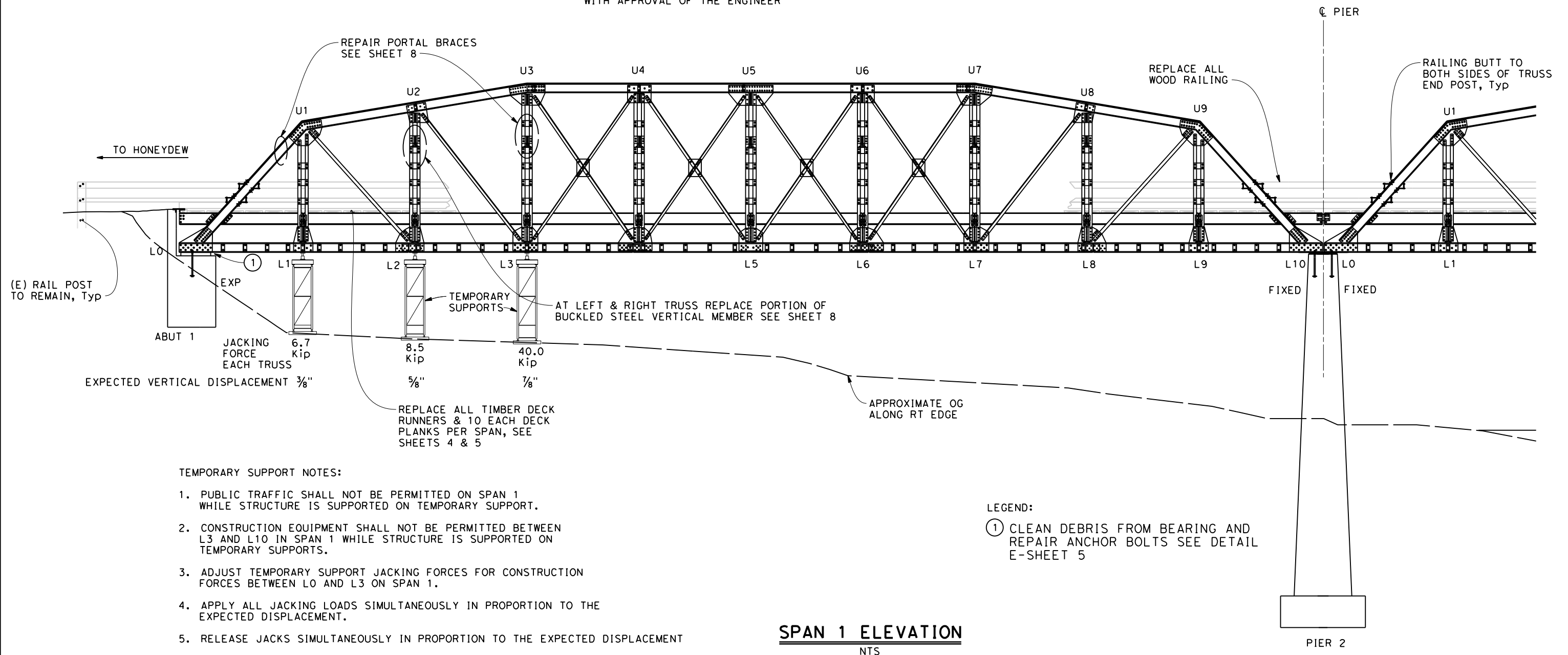
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BRIDGE PREVENTIVE MAINTENANCE PROGRAM (04c-0055)
TRUSS DETAILS NO. 1

SHEET 6 OF 9

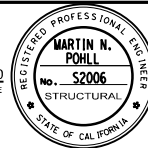
CONSTRUCTION SEQUENCE FOR L2-U2 REPLACEMENT AT SPAN 1

1. CLOSE BRIDGE TO ALL PUBLIC TRAFFIC PER CLOSURE LIMITS IN SPECIFICATIONS
2. JACK ALL SIX TEMPORARY SUPPORT LOCATIONS
3. REMOVE EXISTING BATTENS AND CUT ONE EXISTING C811.5 ON WEST TRUSS
4. INSTALL NEW C8X11.5 AND WELD ENDS
5. CUT REMAINING EXISTING C8X11.5 ON WEST TRUSS
6. INSTALL NEW C8X11.5 AND WELD ENDS
7. INSTALL BATTENS BETWEEN ADJACENT C8X11.5 ON WEST END
8. RELEASE JACKS
9. OPEN BRIDGE TO PUBLIC TRAFFIC PER CLOSURE LIMITS IN SPECIFICATIONS
10. CLOSE BRIDGE TO ALL PUBLIC TRAFFIC PER CLOSURE LIMITS IN SPECIFICATIONS
11. JACK ALL SIX TEMPORARY SUPPORT LOCATIONS
12. REMOVE EXISTING BATTENS AND CUT ONE EXISTING C8X11.5 ON EAST TRUSS
13. INSTALL NEW C8X11.5 AND WELD ENDS
14. CUT REMAINING EXISTING C8X11.5 ON EAST TRUSS
15. INSTALL NEW C8X11.5 AND WELD ENDS
16. INSTALL BATTENS BETWEEN ADJACENT C8X11.5 ON EAST TRUSS
17. RELEASE JACKS
18. OPEN BRIDGE TO PUBLIC TRAFFIC
19. IF BRIDGE CLOSURE TIME LIMIT PERMITS, STEPS 8 TO 11 MAY BE ELIMINATED WITH APPROVAL OF THE ENGINEER



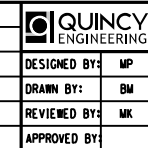
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Martin N. Pohl
PROJECT ENGINEER 05-12-2020 DATE



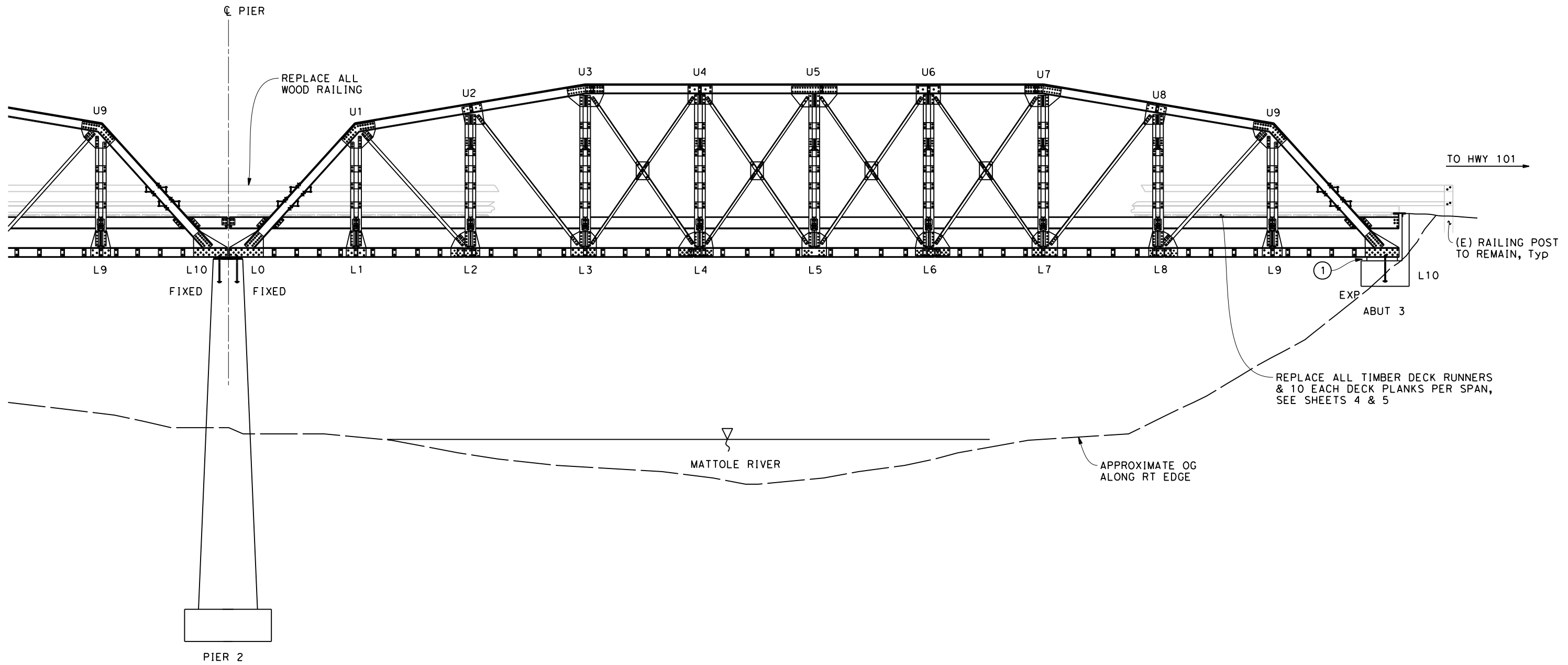
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COUNTY OF HUMBOLDT
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BRIDGE PREVENTIVE MAINTENANCE PROGRAM (04c-0055)
TRUSS DETAILS NO. 2

SHEET 7 OF 9

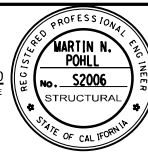


SPAN 2 ELEVATION
1/8" = 1'-0"

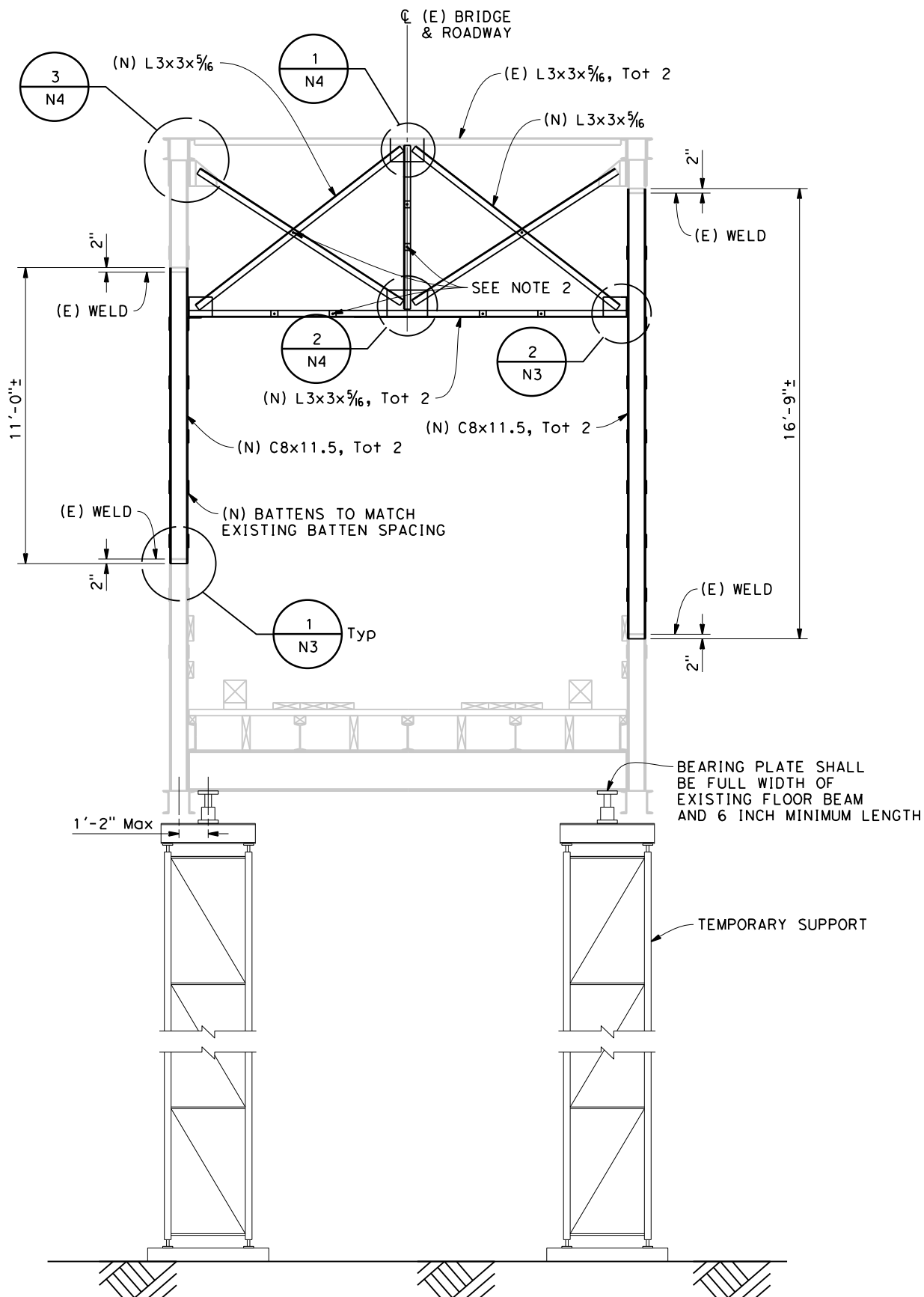
LEGEND:
① CLEAN DEBRIS FROM BEARING AND REPAIR ANCHOR BOLTS SEE DETAIL E-SHEET 5

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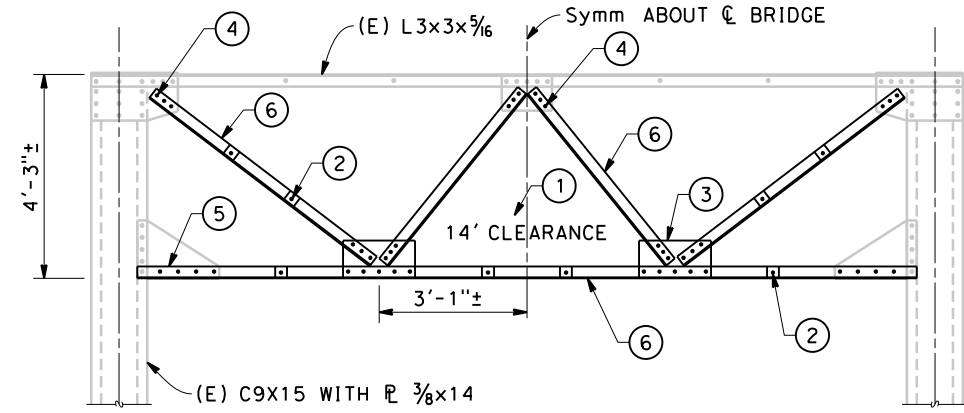
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		DESIGNED BY: MP DRAWN BY: BM REVIEWED BY: MK APPROVED BY:	CROSS SECTION & REPAIR DETAILS NO. 1	



- NOTES:
1. REMOVE AND INSTALL ONE C8x11.5 BEFORE REMOVING AND INSTALLING ADJACENT C8x11.5, SEE "DETAIL 1/N1" ON SHEET 9
 2. FILL $\frac{3}{8} \times 3$ " SQUARE AND $\frac{5}{8}$ " ϕ HSB
 3. FOR DETAILS NOT SHOWN, SEE SHEET 9

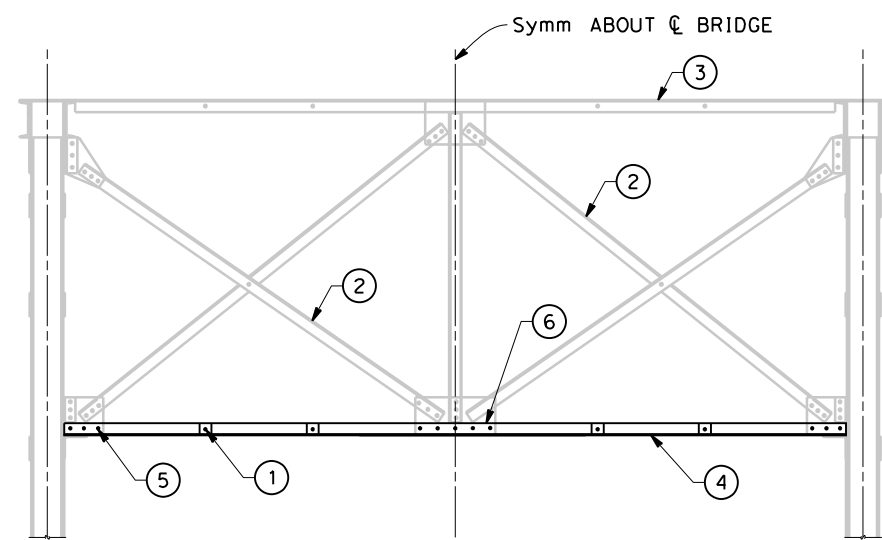
SECTION U2-L2
 $\frac{3}{8}''=1'-0''$
LOOKING NORTH

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



- LEGEND:
- 1 REMOVE AND REINSTALL EXISTING CLEARANCE SIGN
 - 2 FILL $\frac{3}{8} \times 3$ " SQUARE WITH $\frac{5}{8}$ " ϕ HSB
 - 3 NEW GUSSET $\frac{3}{8} \times 9\frac{1}{2} \times 1'-6"$
 - 4 REMOVE EXISTING RIVETS AND REPLACE WITH $\frac{5}{8}$ " ϕ HSB AT NEW ANGLES. EXISTING GUSSET TO REMAIN
 - 5 GRIND EXISTING WELDS TO REMOVE EXISTING L3x3x5/16 TOTAL 2. INSTALL NEW $\frac{5}{8}$ " HSB AT EXISTING GUSSET FOR NEW ANGLES
 - 6 REMOVE EXISTING L3x3x5/16 TOTAL 2 AND REPLACE WITH NEW L3x3x5/16 TOTAL 2

1 PORTAL FRAME U1 REPAIR
P1 $\frac{1}{2}''=1'-0''$



- LEGEND:
- 1 FILL $\frac{3}{8} \times 3$ " SQUARE WITH $\frac{5}{8}$ " ϕ HSB
 - 2 EXISTING L3x3x5/16 TO REMAIN
 - 3 EXISTING L3x3x5/16 TOTAL 2 TO REMAIN
 - 4 REMOVE EXISTING L3x3x5/16 TOTAL 2 AND REPLACE WITH NEW L3x3x5/16 TOTAL 2
 - 5 REMOVE EXISTING RIVETS AND REPLACE WITH $\frac{5}{8}$ " ϕ HSB AT NEW ANGLES. EXISTING GUSSET TO REMAIN
 - 6 GRIND EXISTING WELDS TO REMOVE EXISTING L3x3x5/16 TOTAL 2. INSTALL NEW $\frac{5}{8}$ " HSB AT EXISTING GUSSET FOR NEW ANGLES

1 PORTAL FRAME U3 REPAIR
P2 $\frac{1}{2}''=1'-0''$

- NOTES:
1. ALL BOLTS ARE $\frac{5}{8}$ " ϕ HSB
 2. BOLT GAGE = $1\frac{3}{4}$ ON ANGLE
 3. MINIMUM BOLT SPACE = 2"
 4. MINIMUM BOLT END DISTANCE = $1\frac{1}{8}$ "

NOTES:

1. REMOVE EXISTING PAINT 4" FROM END OF (E) C8x11.5 PRIOR TO WELDING.
2. HOLD BACK SHOP PAINT 4" FROM END OF (N) C8x11.5 FOR WELDING.

Martin N. Pohl
PROJECT ENGINEER
05-12-2020 DATE

REGISTERED PROFESSIONAL ENGINEER
MARTIN N. POHL
No. 52006
STRUCTURAL
STATE OF CALIFORNIA

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CONTRACT NO.: 214118	REVISION DATE: 05-11-2020	APPROVED BY:
PLOT DATE: 05-11-2020		

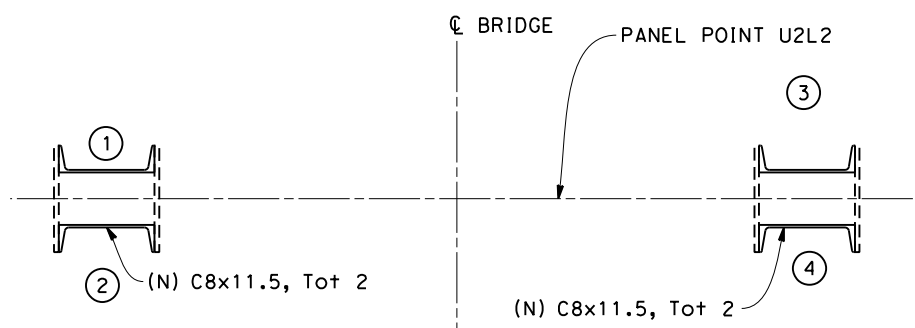
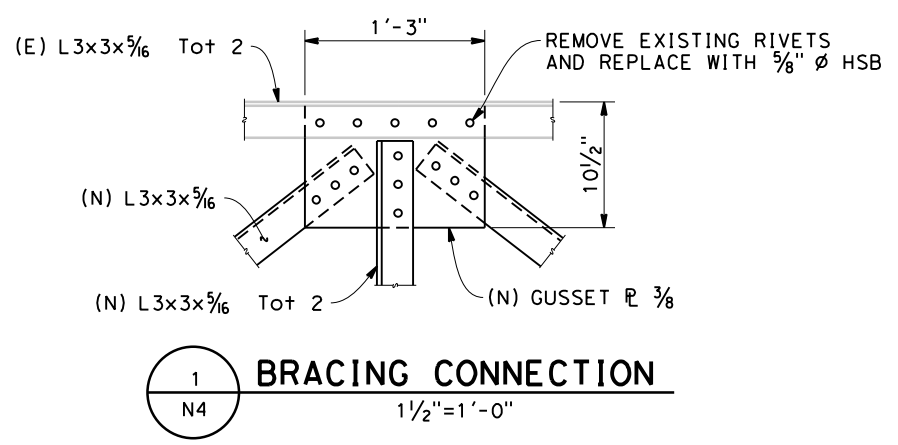
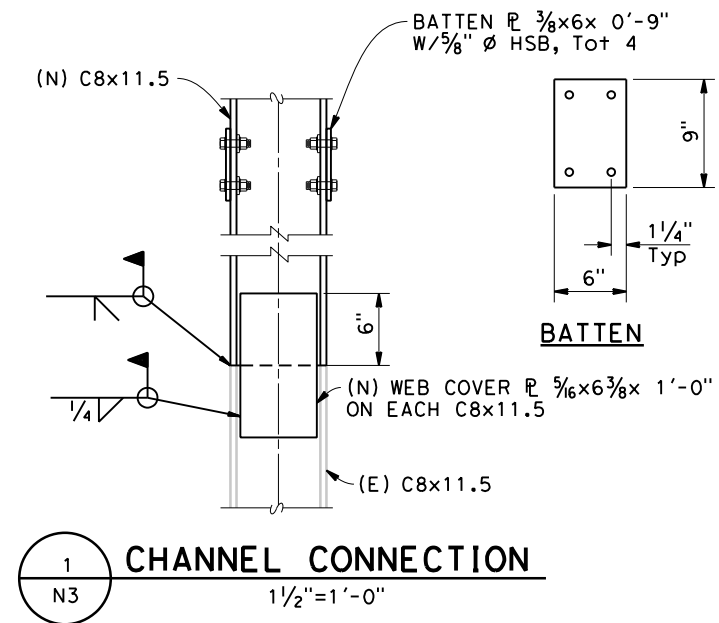
QUINCY ENGINEERING

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

BRIDGE PREVENTIVE MAINTENANCE PROGRAM (04c-0055)

CROSS SECTION & REPAIR DETAILS NO. 2

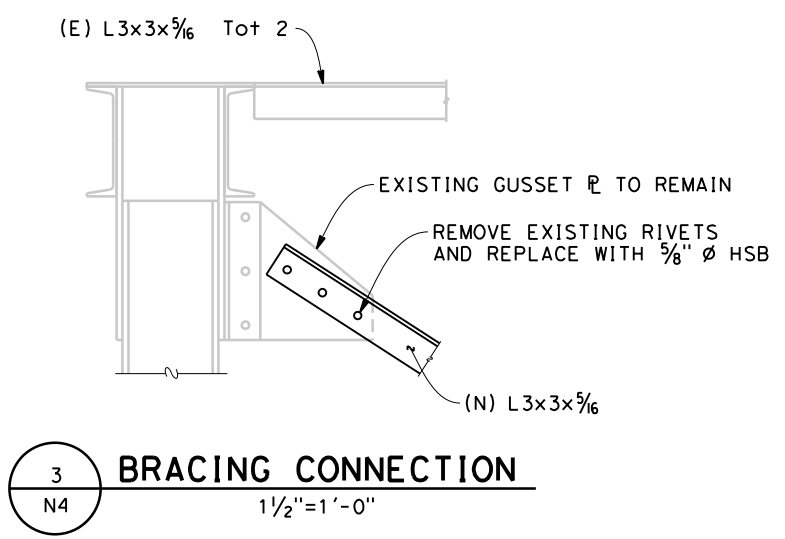
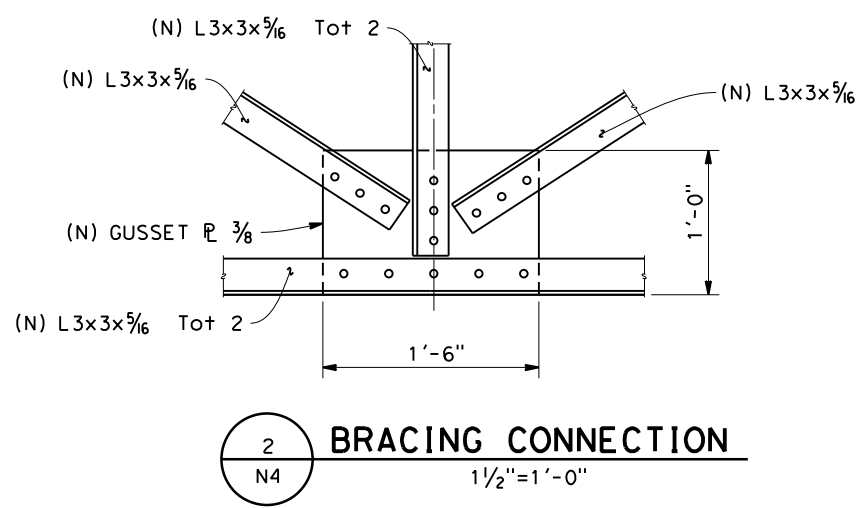
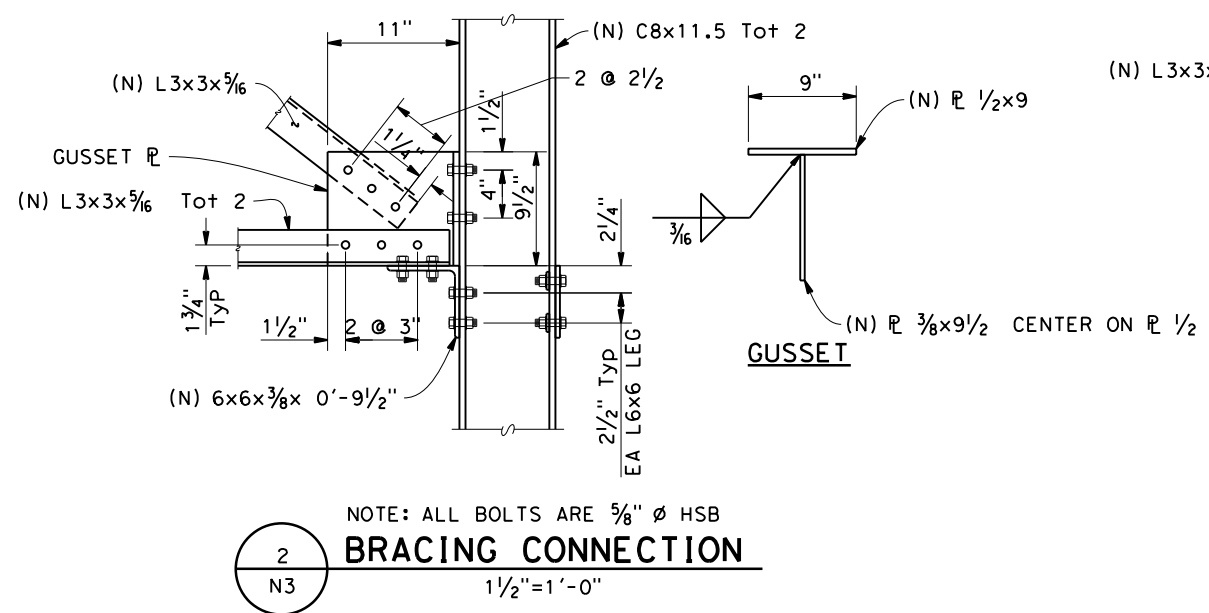
SHEET 9 OF 9



SEQUENCE:

- 1 CUT BATTENS AT CHANNELS 1 AND 2
- 2 CUT AND REMOVE EXISTING CHANNEL 1
- 3 INSTALL AND WELD NEW CHANNEL 1
- 4 CUT AND REMOVE EXISTING CHANNEL 2
- 5 INSTALL AND WELD (N) CHANNEL 2
- 6 INSTALL BATTENS BETWEEN NEW CHANNELS 1 AND 2
- 7 REPEAT FOR CHANNELS 3 AND 4

NOTE: BOTH NEW C8x11.5 ON ONE SIDE (CHANNEL 1 AND 2 OR 3 CHANNEL AND 4) SHALL BE INSTALLED AND NEW BATTENS BETWEEN CHANNELS SHALL BE INSTALLED PRIOR TO OPENING SPAN 1 TO PUBLIC TRAFFIC OR CONSTRUCTION LOADS.



NOTES:

1. ALL BOLTS ARE $\frac{5}{8}"$ \varnothing HSB
2. BOLT GAGE = $1\frac{3}{4}$ ON ANGLE
3. MINIMUM BOLT SPACE = 2"
4. MINIMUM BOLT END DISTANCE = $1\frac{1}{8}"$
5. FIELD VERIFY GUSSET DIMENSIONS, SLOPE OF ANGLES AND EXISTING RIVET LOCATIONS.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL