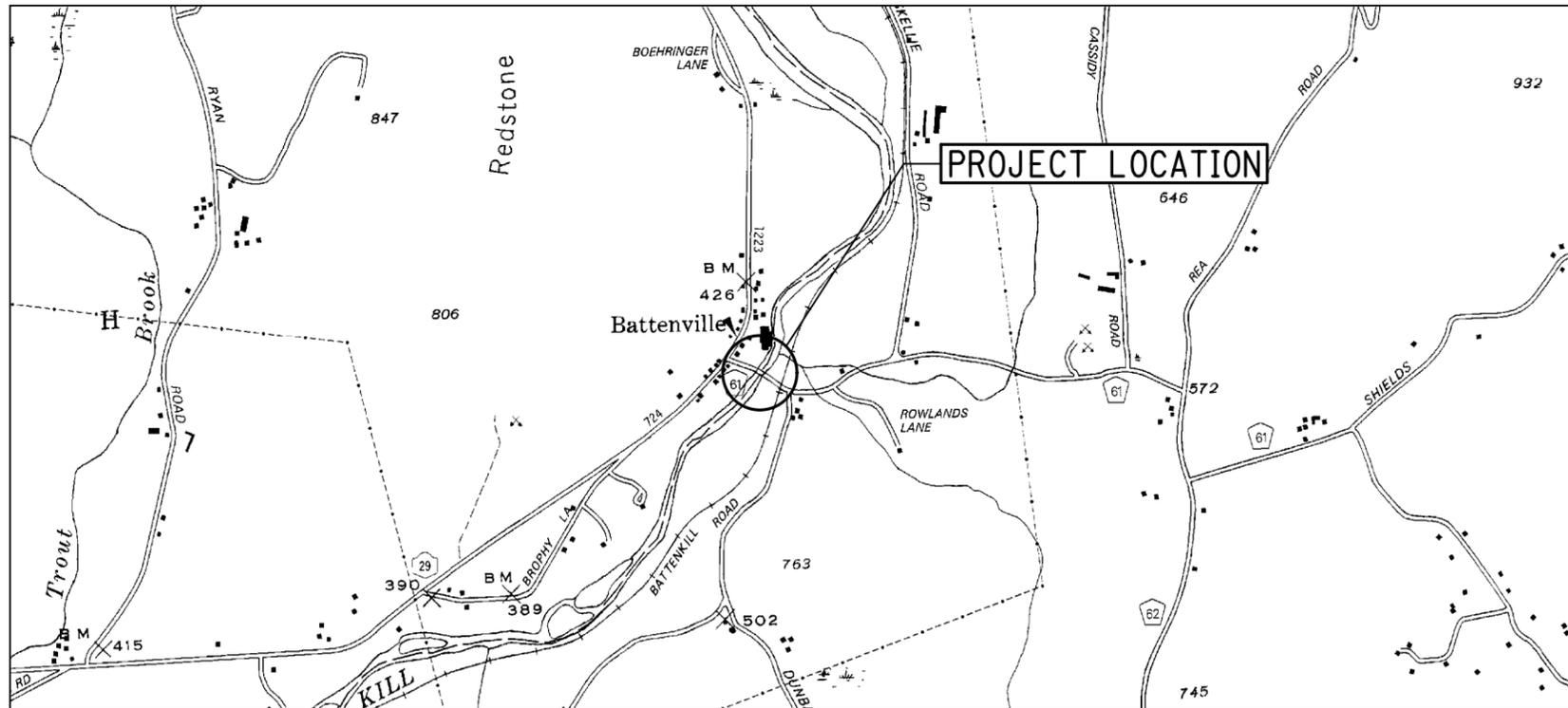


WASHINGTON COUNTY  
DEPARTMENT OF PUBLIC WORKS

YELLOW FLAG REPAIRS OF BIN 3306370  
BATTEN-DUGAN ROAD OVER BATTEN KILL  
TOWN OF GREENWICH



PROJECT LOCATION  
THIS PROJECT IS LOCATED ON BATTEN-DUGAN ROAD, APPROXIMATELY 400 FT FROM THE INTERSECTION WITH STATE ROUTE 29. THE SITE IS APPROXIMATELY 3 MILES EAST OF THE VILLAGE OF GREENWICH.

STANDARD SHEETS

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

BRIDGE DETAIL (BD) SHEETS

THE CONTRACTOR SHALL REFER TO THE LATEST NYSDOT ENGLISH BRIDGE DETAIL (BD) STANDARD SHEETS FOR STANDARD DETAILS FOR THIS PROJECT.

STANDARD SPECIFICATION

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT DOCUMENTS EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT DOCUMENTS.

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES.

MAINTENANCE JURISDICTION

THE OWNERSHIP AND MAINTENANCE RESPONSIBILITY OF THE VARIOUS FEATURES WITHIN THE EXISTING RIGHT OF WAY WILL REMAIN AND WILL REMAIN WITH THE SAME AUTHORITY.

| INDEX |          |  |
|-------|----------|--|
| SHEET | DWG. NO. | DRAWING NAME                                     |
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| 2     | ST-01    | GENERAL NOTES AND PROPOSED REPAIR QUANTITY TABLE |
| 3     | ST-02    | BRIDGE ELEVATION REPAIR PLAN                     |
| 4     | ST-03    | EXISTING GUSSET DETAILS (1 OF 3)                 |
| 5     | ST-04    | EXISTING GUSSET DETAILS (2 OF 3)                 |
| 6     | ST-05    | EXISTING GUSSET DETAILS (3 OF 3)                 |
| 7     | ST-06    | EXISTING CHORD DETAILS                           |
| 8     | ST-07    | PROPOSED REPAIR DETAIL "A"                       |
| 9     | ST-08    | PROPOSED REPAIR DETAIL "B"                       |
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| 14    | ST-13    | PROPOSED REPAIR DETAIL "G"                       |
| 15    | ST-14    | PROPOSED REPAIR DETAIL "H"                       |
| 16    | ST-15    | PROPOSED REPAIR DETAIL "I"                       |
| 17    | ST-16    | PROPOSED REPAIR DETAIL "J"                       |
| 18    | ST-17    | PROPOSED REPAIR DETAIL "K"                       |
| 19    | ST-18    | PROPOSED REPAIR DETAIL "L"                       |
| 20    | ST-19    | PROPOSED REPAIR DETAIL "M"                       |

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PREPARED BY:

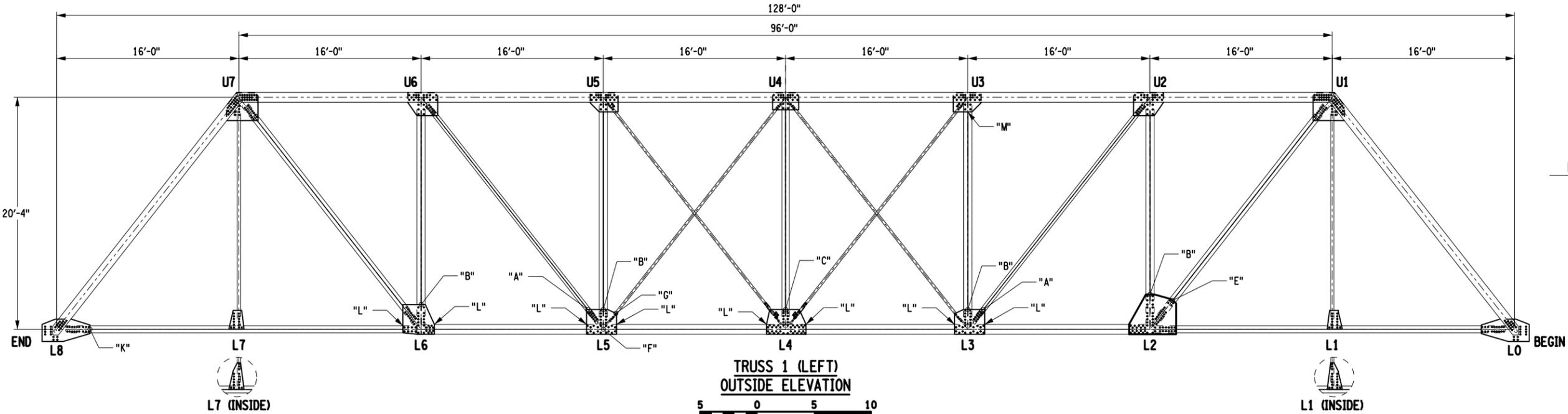
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|                                    |       |           |
|------------------------------------|-------|-----------|
| BATTEN-DUGAN ROAD                  |       |           |
| OVER BATTEN KILL                   |       |           |
| TOWN OF GREENWICH                  |       |           |
| COUNTY: WASHINGTON COUNTY          |       |           |
| FED. ROAD REG. NO.                 | STATE | SHEET NO. |
| 1                                  | N.Y.  | 1         |
| CAPITAL PROJECT IDENTIFICATION NO. |       | N/A       |
| INDEX ON SHEET NO. 1               |       |           |

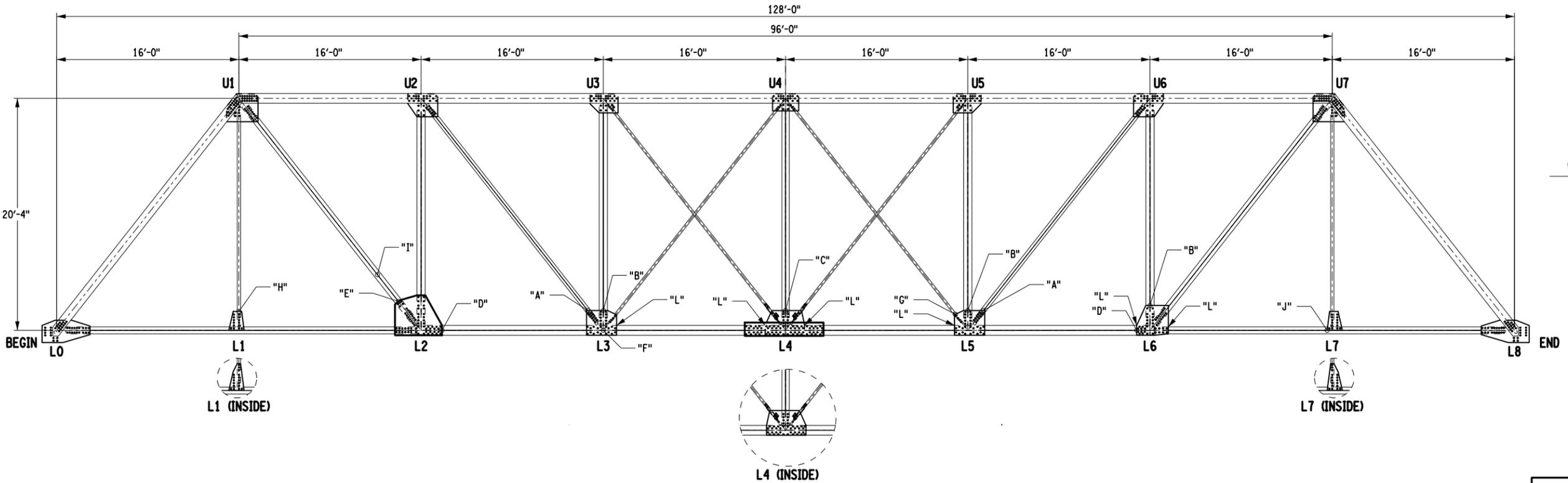


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JFC PROJECT MANAGER  
JFC CHECK  
MAR DRAFTING  
MAR DESIGN  
JFC JOB MANAGER  
JFC DESIGN SUPERVISOR



TRUSS 1 (LEFT)  
OUTSIDE ELEVATION



TRUSS 2 (RIGHT)  
OUTSIDE ELEVATION

AFFIX SEAL: XXXX  
ON: XXXX

ALTERED BY: XXXX  
ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

|   |                                   |
|---|-----------------------------------|
| ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED | CONTRACT NUMBER                   |
| BRIDGE<br>ELEVATION<br>REPAIR PLAN          | DRAWING NO. ST-02<br>SHEET NO. 03 |

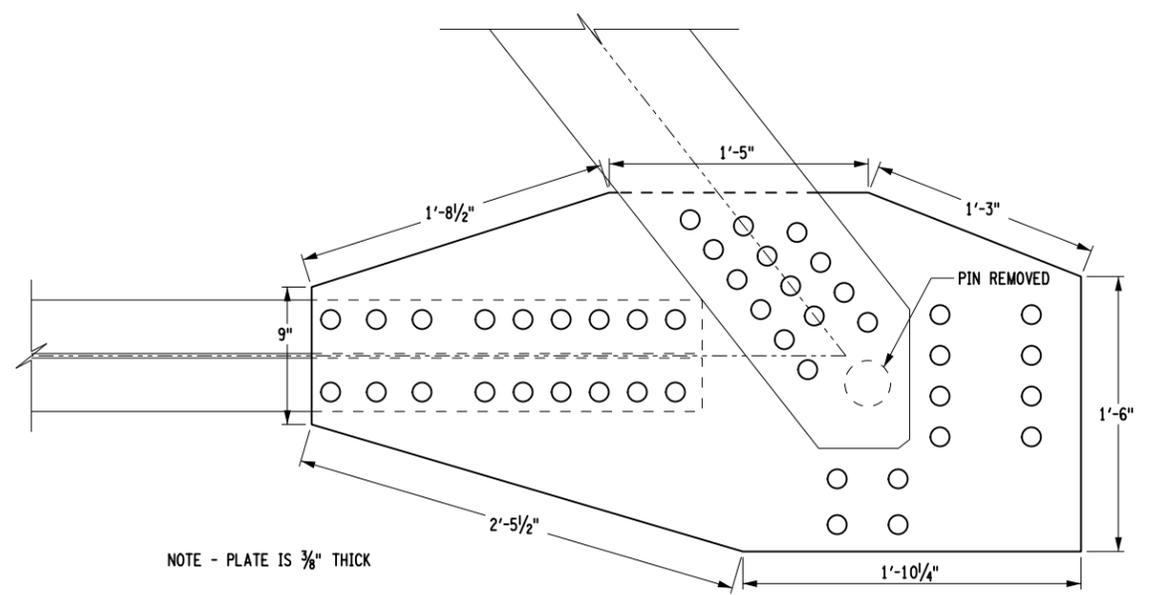
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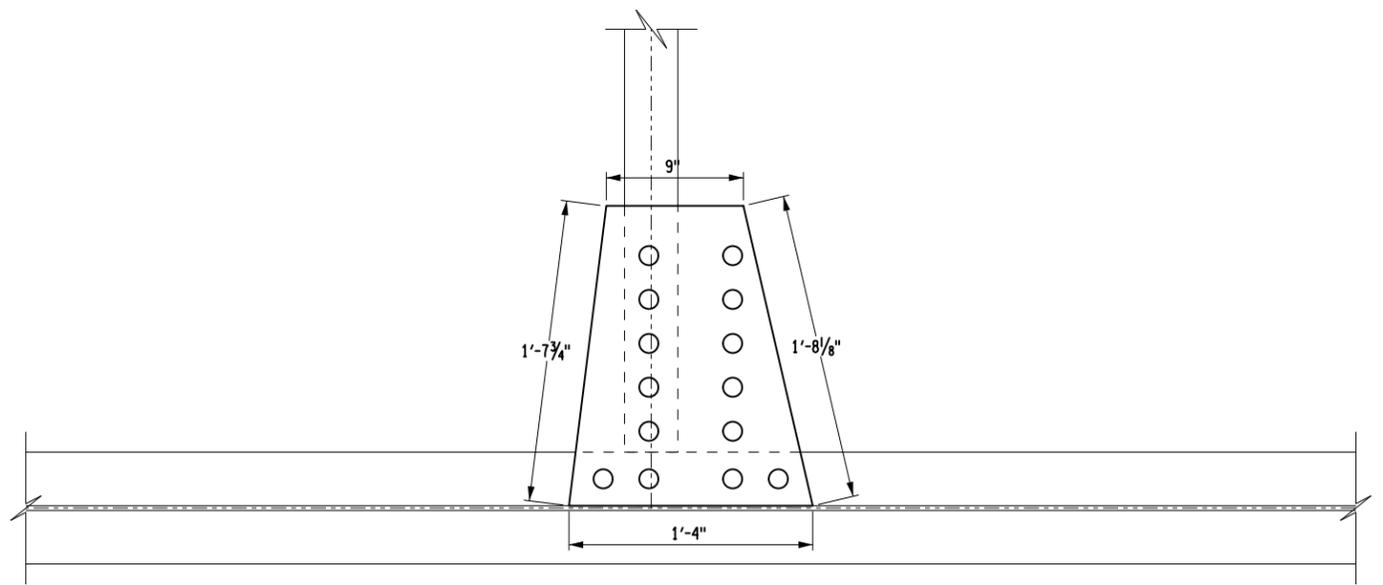
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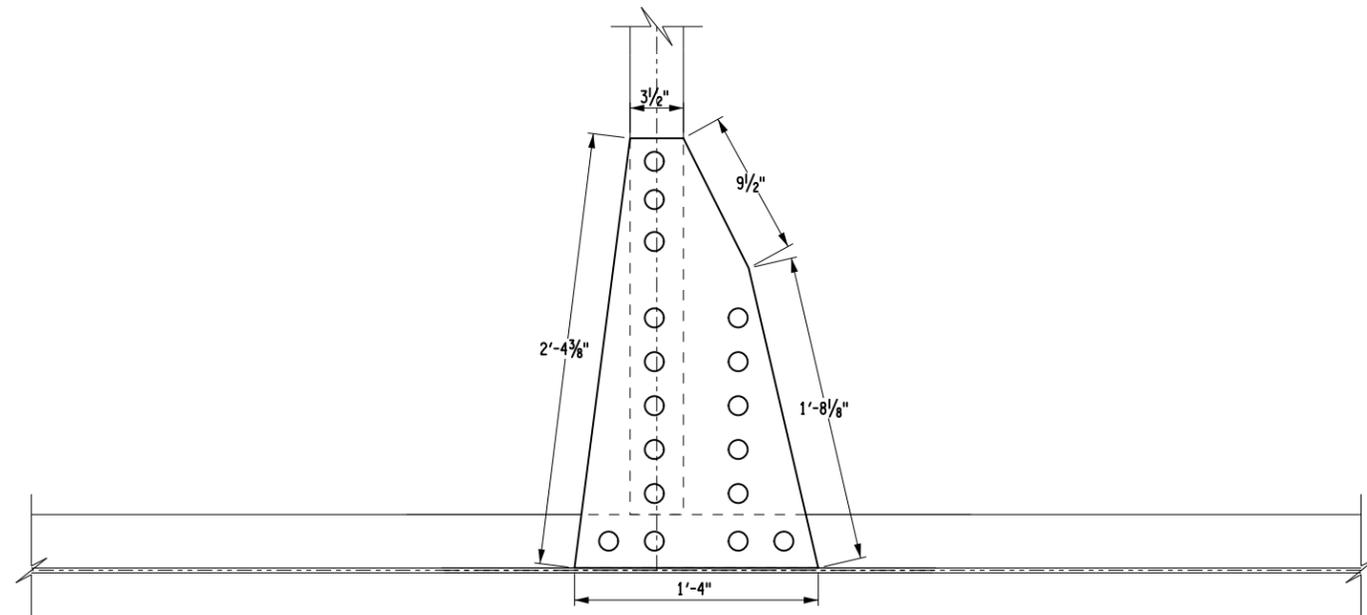
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 MAR DESIGN  
 JFC JOB MANAGER  
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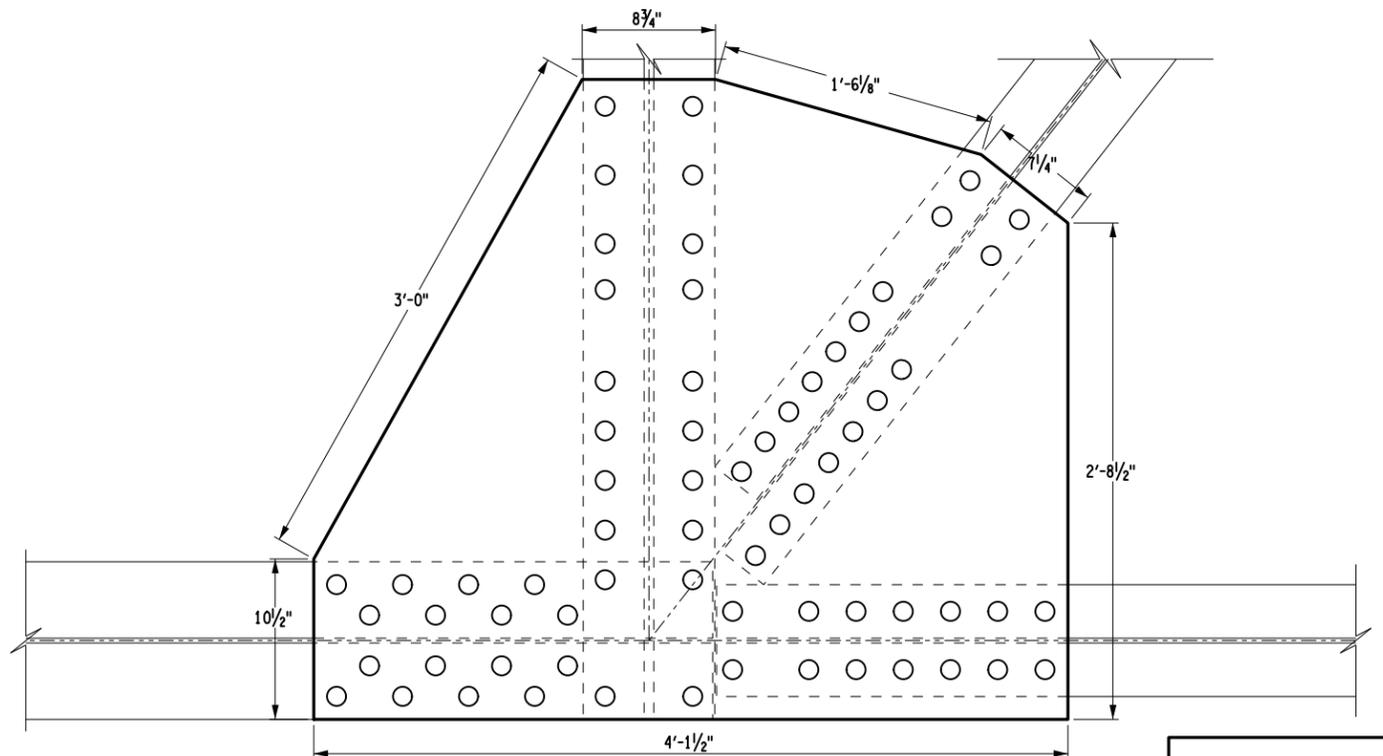
**TRUSS 1 - L0 OUTSIDE**  
 TRUSS 1 - L0 INSIDE, L8 OUTSIDE, L8 INSIDE - SIMILAR  
 TRUSS 2 - L0 OUTSIDE, L0 INSIDE, L8 OUTSIDE, L8 INSIDE - SIMILAR



**TRUSS 1 - L1 OUTSIDE**  
 TRUSS 1 - L7 OUTSIDE - SIMILAR  
 TRUSS 2 - L1 OUTSIDE, L7 OUTSIDE - SIMILAR



**TRUSS 1 - L1 INSIDE**  
 TRUSS 1 - L7 INSIDE - SIMILAR  
 TRUSS 2 - L1 INSIDE, L7 INSIDE - SIMILAR



**TRUSS 1 - L2 OUTSIDE**  
 TRUSS 1 - L2 INSIDE - SIMILAR  
 TRUSS 2 - L2 OUTSIDE, L2 INSIDE - SIMILAR

- NOTES:**
1. ALL DETAILS ARE NOT TO SCALE
  2. ALL DIMENSIONS ARE FIELD MEASURED.
  3. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

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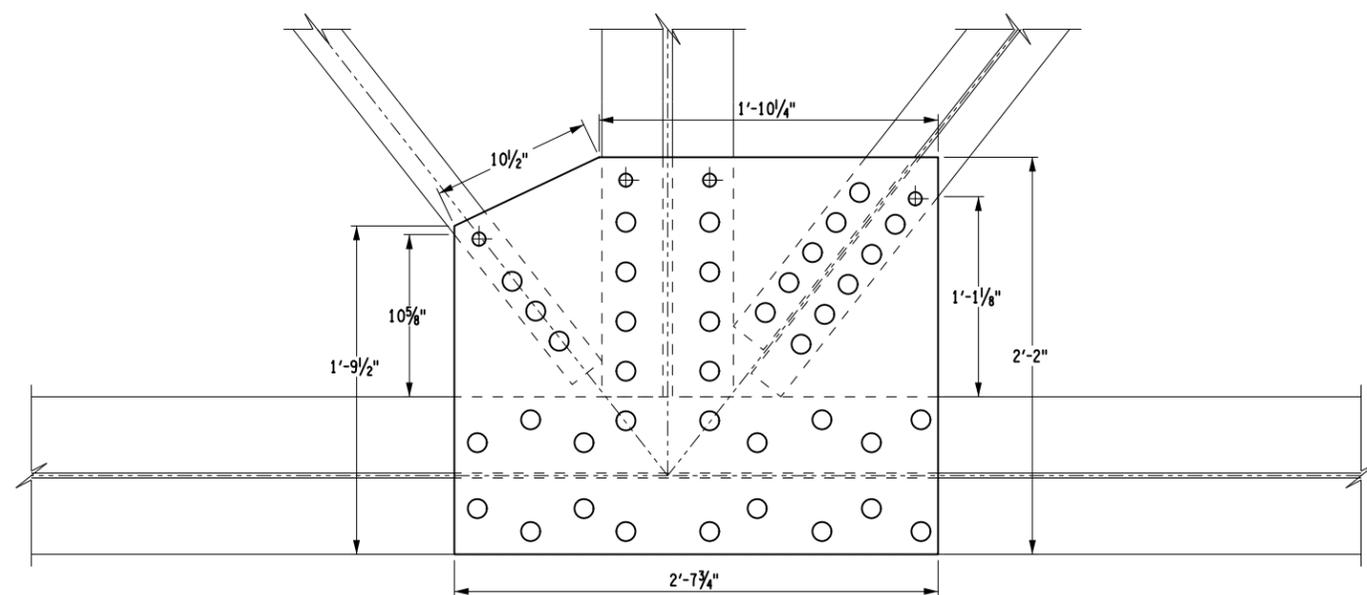
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 EXISTING GUSSET DETAILS (1 OF 3)

CONTRACT NUMBER  
 DRAWING NO. ST-03  
 SHEET NO. 04

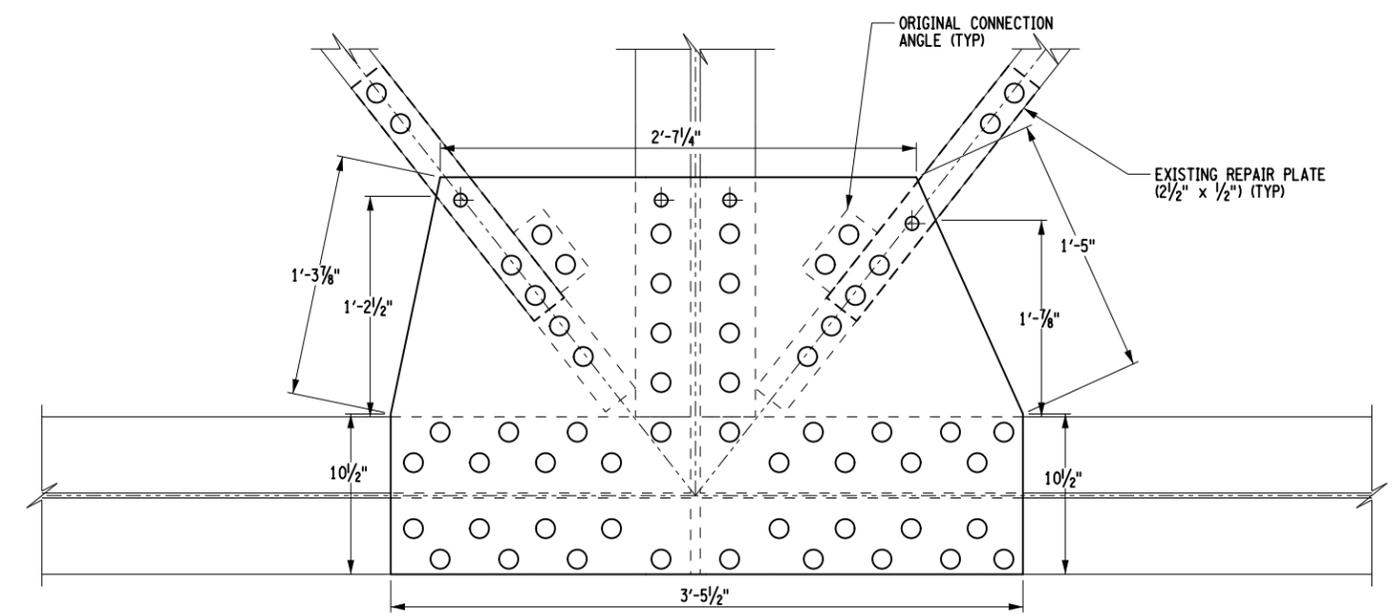


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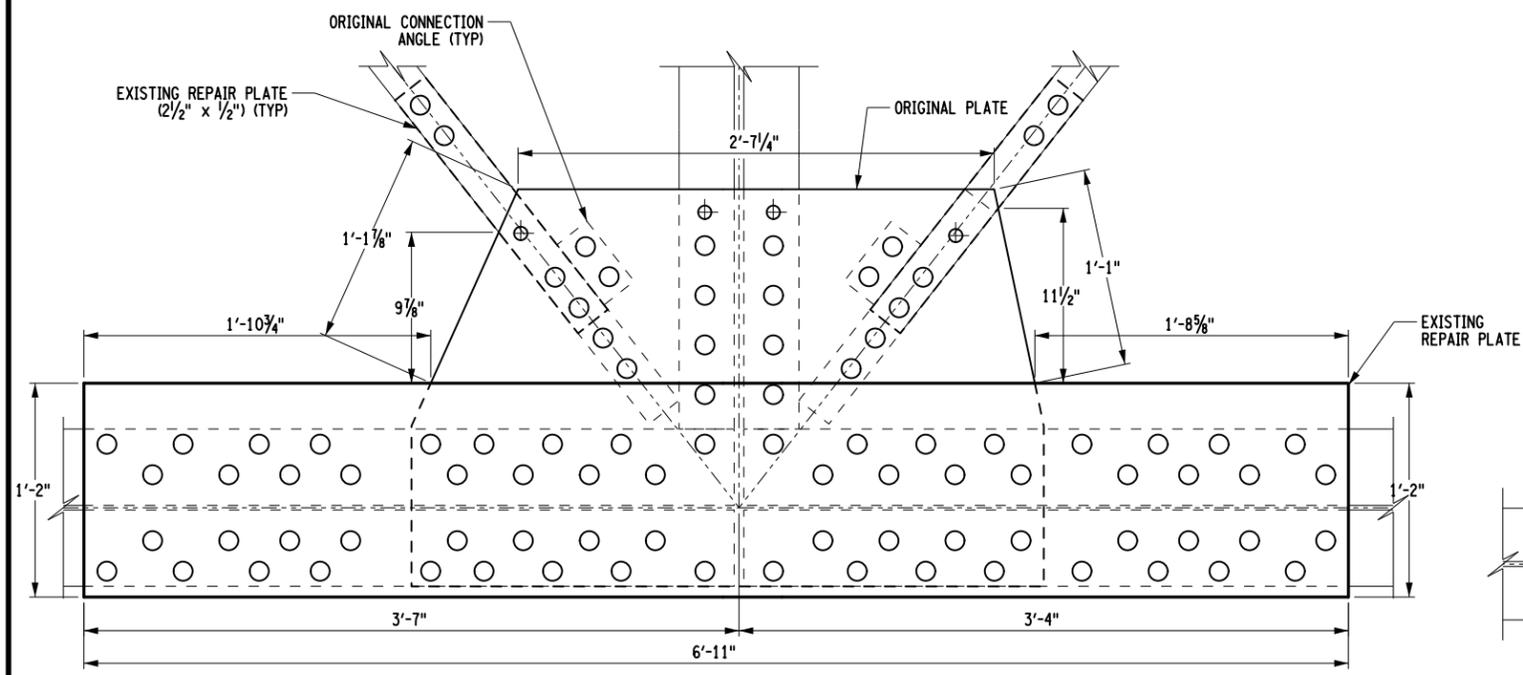
JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



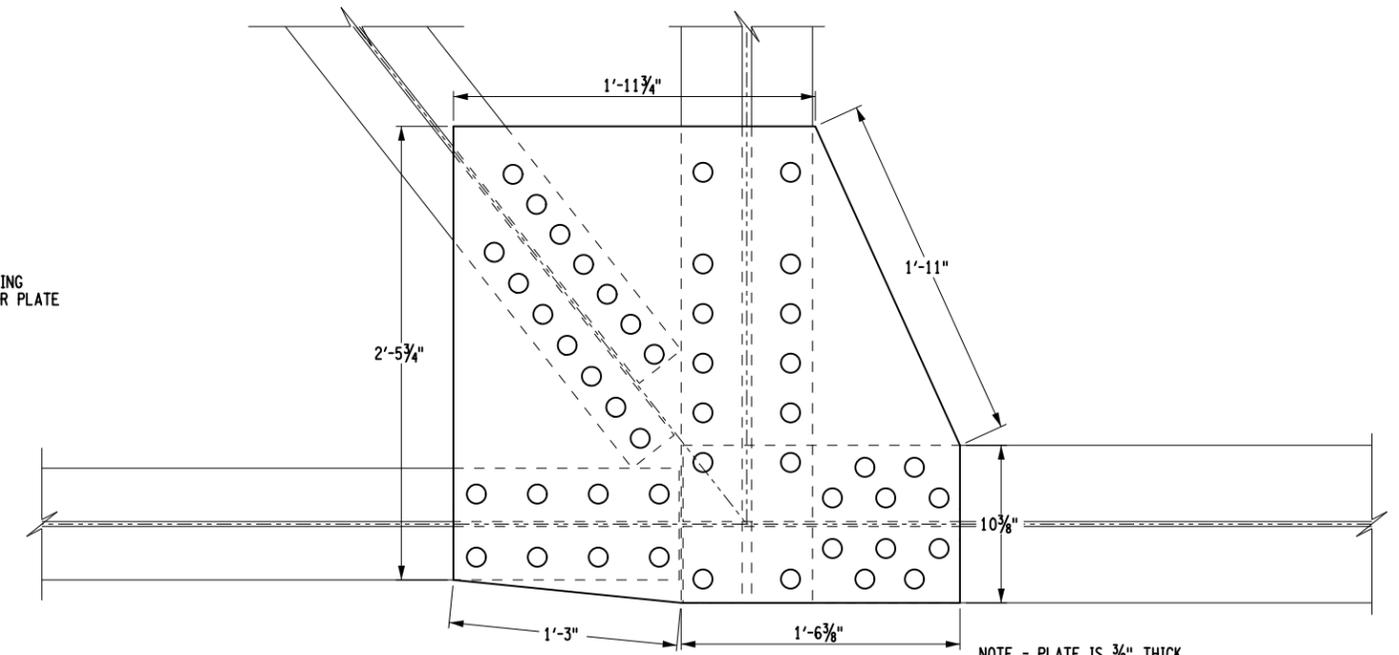
**TRUSS 1 - L3 OUTSIDE**  
 TRUSS 1 - L3 INSIDE, L5 OUTSIDE, L5 INSIDE - SIMILAR  
 TRUSS 2 - L3 OUTSIDE, L3 INSIDE, L5 OUTSIDE, L5 INSIDE - SIMILAR  
 NOTE - PLATE IS 3/8" THICK



**TRUSS 1 - L4 OUTSIDE**  
 TRUSS 1 - L4 INSIDE - SIMILAR  
 TRUSS 2 - L4 INSIDE - SIMILAR  
 NOTE - PLATE IS 3/8" THICK



**TRUSS 2 - L4 OUTSIDE**  
 NOTE - ORIGINAL PLATE IS 3/8" THICK AND IS SIMILAR TO TRUSS 1 L4 OUTSIDE  
 REPAIR PLATE IS 1/2" THICK



**TRUSS 1 - L6 OUTSIDE**  
 TRUSS 1 - L6 INSIDE - SIMILAR  
 TRUSS 2 - L6 OUTSIDE, L6 INSIDE - SIMILAR  
 NOTE - PLATE IS 3/8" THICK

AFFIX SEAL: XXXX  
 ON: XXXX  
 ALTERED BY: XXXX  
 ON: XXXX



- NOTES:**
- ALL DETAILS ARE NOT TO SCALE
  - ALL DIMENSIONS ARE FIELD MEASURED.
  - BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.

|                             |   |           |         |          |
|-----------------------------|---|-----------|---------|----------|
| AS-BUILT REVISIONS          | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES | CULVERTS |
| DESCRIPTION OF ALTERATIONS: | YELLOW FLAG TRUSS REPAIRS                 |           | 3306370 |          |
|                             |   |           |         |          |
|                             | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |         |          |

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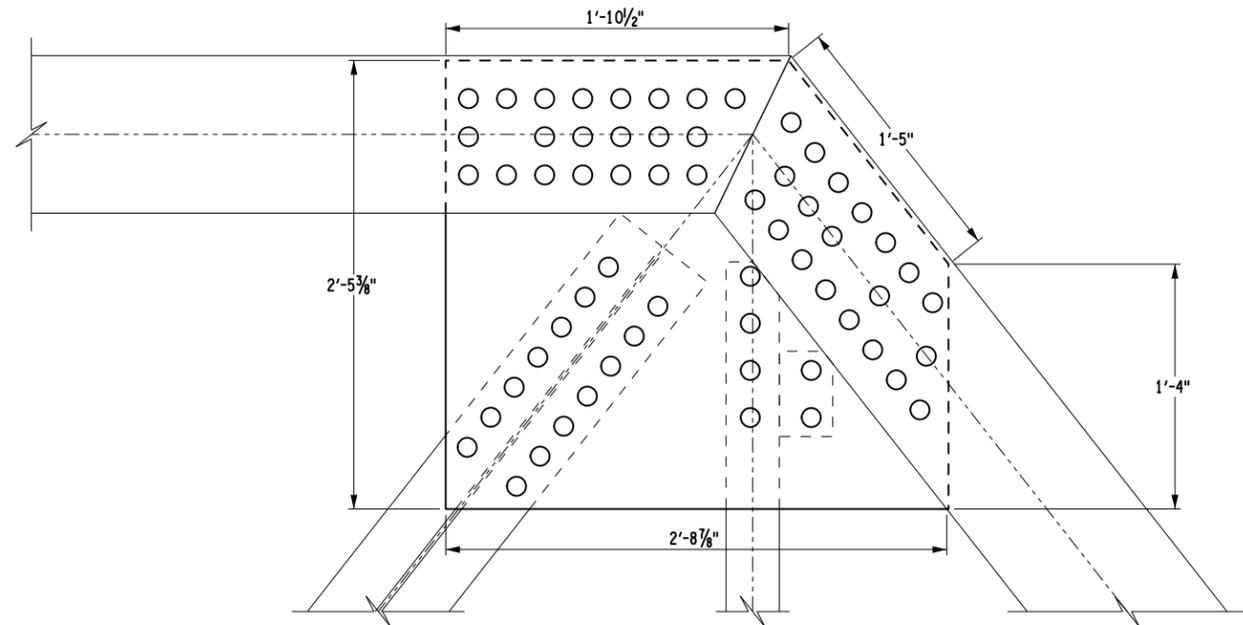
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 EXISTING GUSSET DETAILS (2 OF 3)

CONTRACT NUMBER  
 DRAWING NO. ST-04  
 SHEET NO. 05

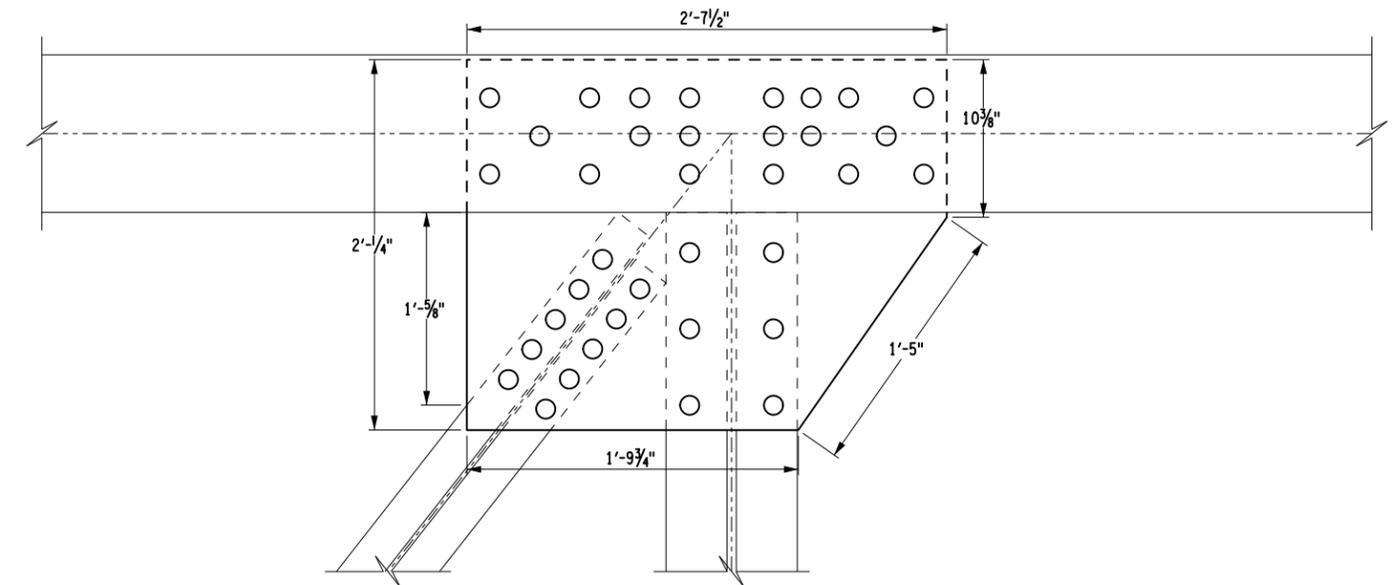


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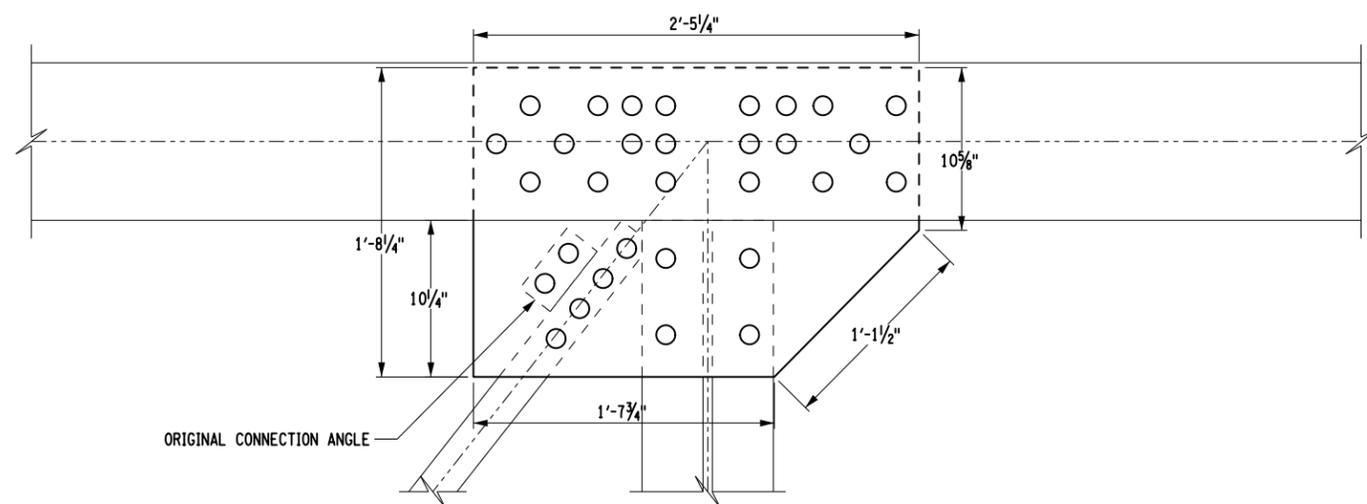
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 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



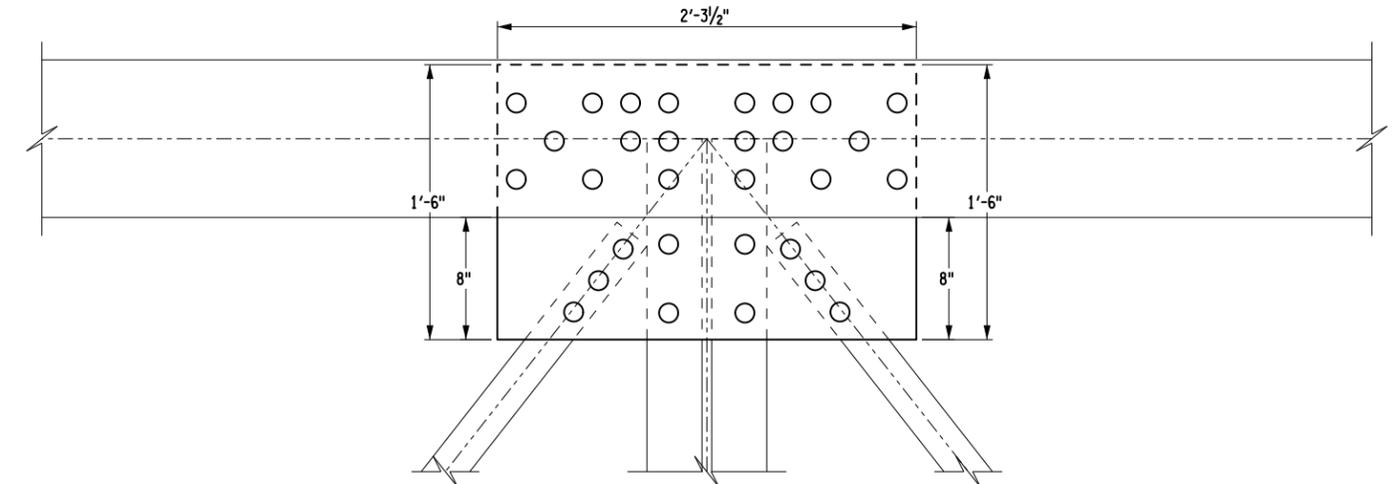
**TRUSS 1 - U1 OUTSIDE**  
 TRUSS 1 - U1 INSIDE, U7 OUTSIDE, U7 INSIDE - SIMILAR  
 TRUSS 2 - U1 OUTSIDE, U1 INSIDE, U7 OUTSIDE, U7 INSIDE - SIMILAR  
 NOTE - PLATE IS 5/16" THICK



**TRUSS 1 - U2 OUTSIDE**  
 TRUSS 1 - U2 INSIDE, U6 OUTSIDE, U6 INSIDE - SIMILAR  
 TRUSS 2 - U2 OUTSIDE, U2 INSIDE, U6 OUTSIDE, U6 INSIDE - SIMILAR  
 NOTE - PLATE IS 5/16" THICK



**TRUSS 1 - U3 OUTSIDE**  
 TRUSS 1 - U3 INSIDE, U5 OUTSIDE, U5 INSIDE - SIMILAR  
 TRUSS 2 - U3 OUTSIDE, U3 INSIDE, U5 OUTSIDE, U5 INSIDE - SIMILAR  
 NOTE - PLATE IS 5/16" THICK



**TRUSS 1 - U4 OUTSIDE**  
 TRUSS 1 - U4 INSIDE - SIMILAR  
 TRUSS 2 - U4 OUTSIDE, U4 INSIDE - SIMILAR  
 NOTE - PLATE IS 5/16" THICK

AFFIX SEAL: XXXX  
ON: XXXX

ALTERED BY: XXXX  
ON: XXXX



- NOTES:**
- ALL DETAILS ARE NOT TO SCALE
  - ALL DIMENSIONS ARE FIELD MEASURED.
  - BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.

|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

|   |  |  |  |  |
|---|--|--|--|--|
| ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED |  |  |  |  |
| EXISTING GUSSET DETAILS (3 OF 3)            |  |  |  |  |

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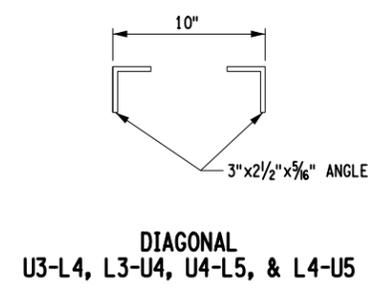
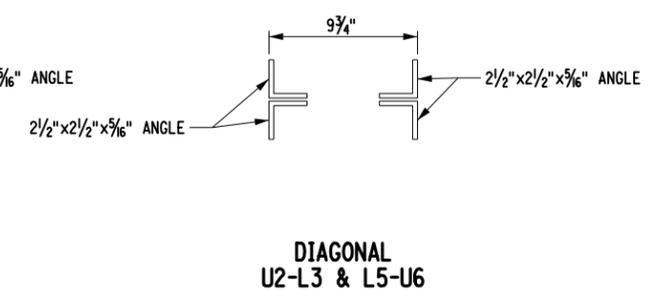
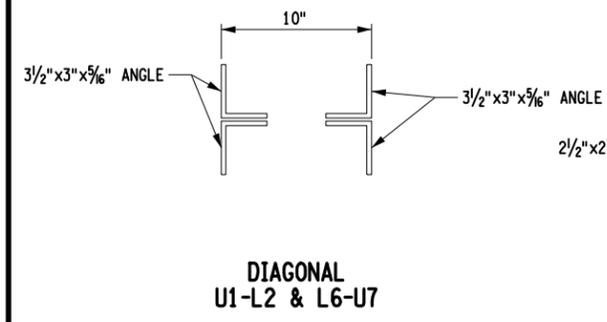
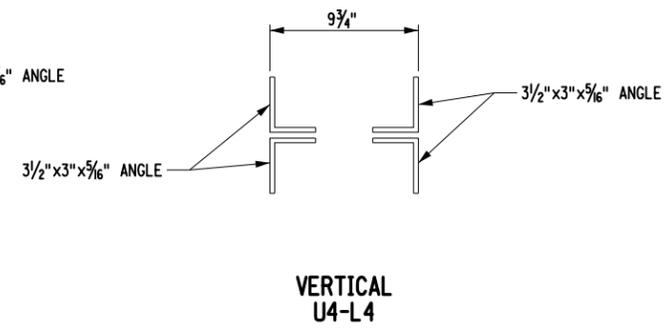
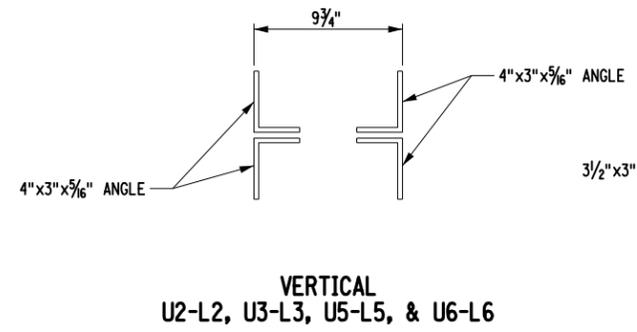
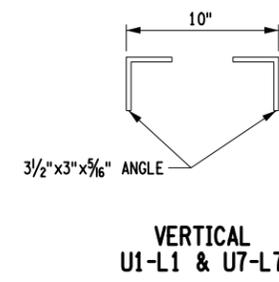
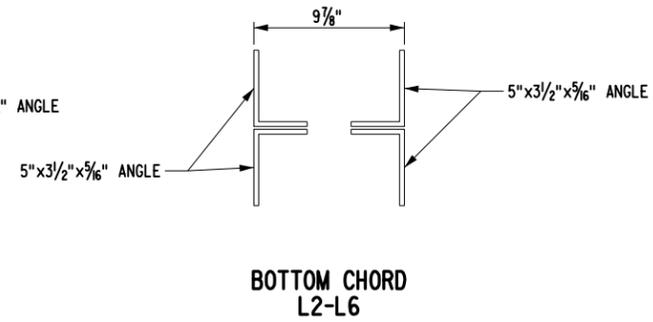
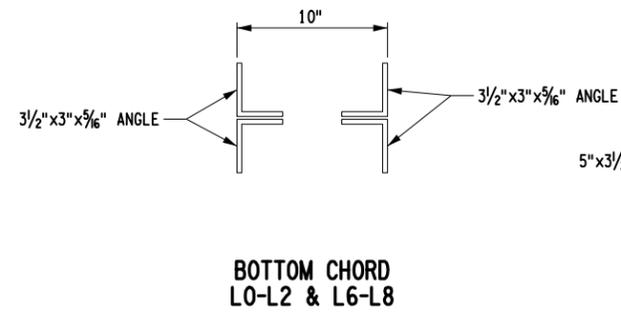
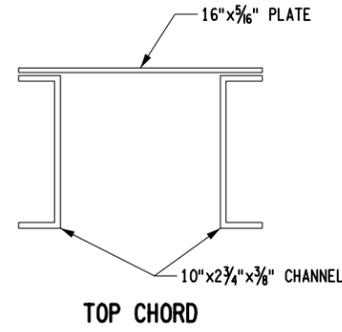


CONTRACT NUMBER  
 DRAWING NO. ST-05  
 SHEET NO. 06

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- NOTES:**
1. DETAILS ARE NOT TO SCALE.
  2. DIMENSIONS ARE BASED ON PAST NYSDOT INSPECTIONS AND FIELD MEASUREMENTS.

AFFIX SEAL: XXXX ON: XXXX  
ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

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ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
**EXISTING  
CHORD DETAILS**

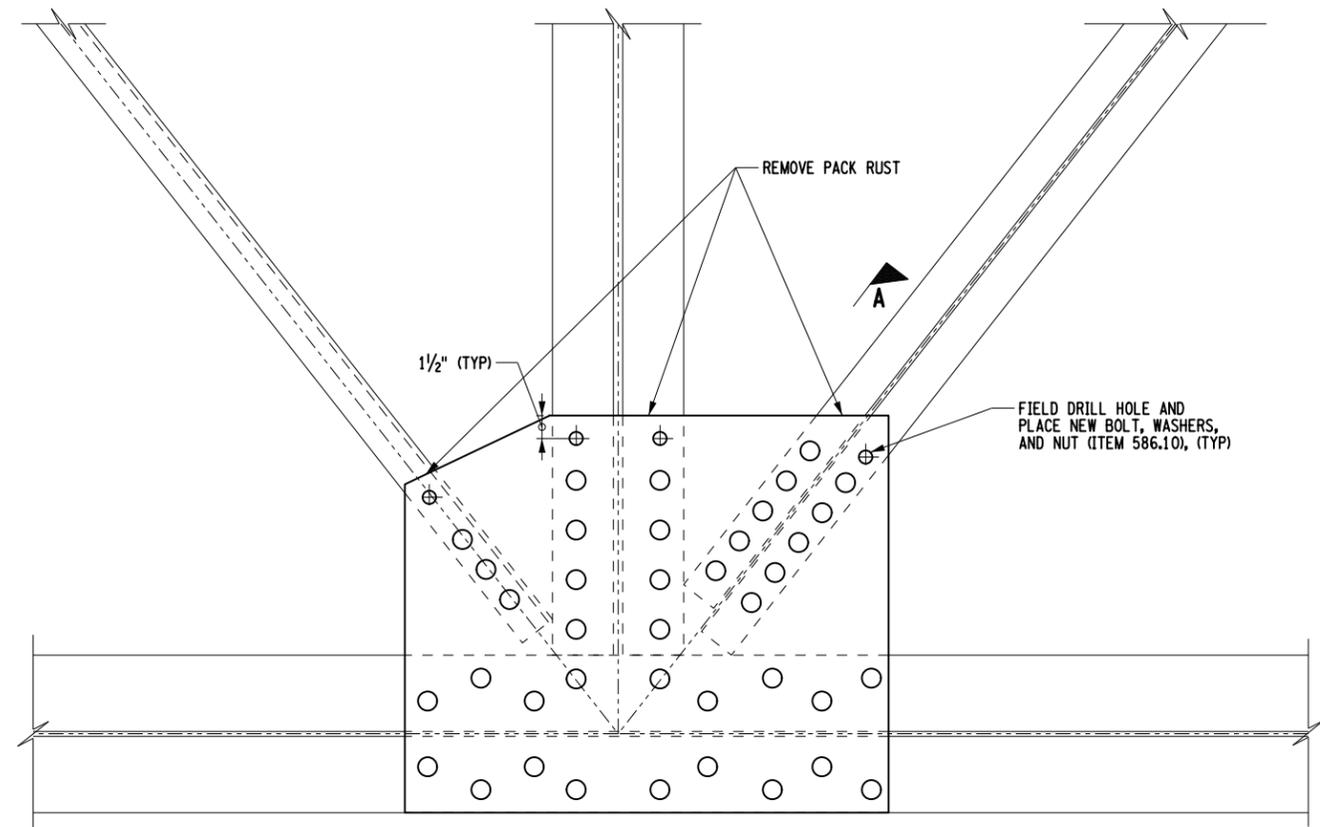
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DRAWING NO. ST-06  
SHEET NO. 07



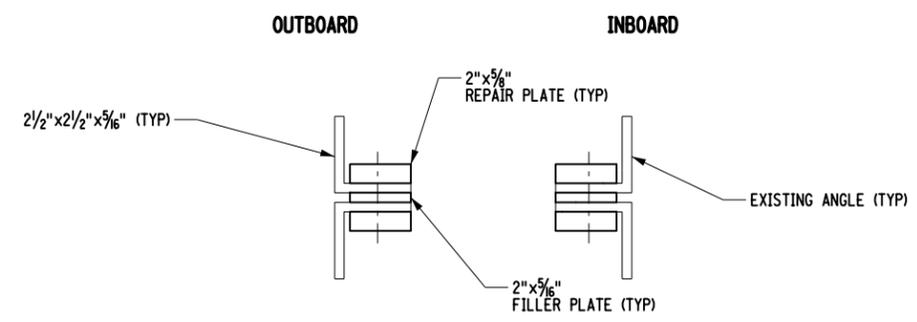
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DATE/TIME = 7/21/2017  
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JFC CHECK  
MAR DRAFTING  
JFC CHECK  
MAR DESIGN  
JFC DESIGN  
JFC JOB MANAGER  
JFC DESIGN SUPERVISOR

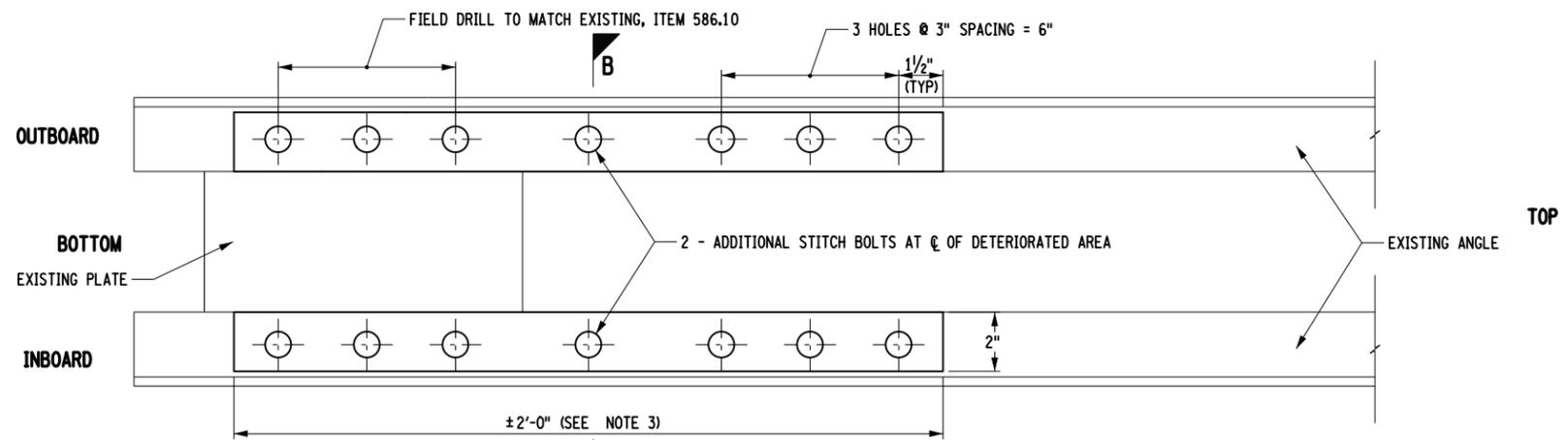
JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



**TRUSS 1 - L3**  
 (TRUSS 1 - L5; TRUSS 2 - L3 & L5 SIMILAR)  
 NOT TO SCALE



**SECTION B-B**  
 NOT TO SCALE



**SECTION A-A**  
 NOT TO SCALE

- NOTES:**
1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
  2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
  3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
  4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
  5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
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ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 PROPOSED REPAIR  
 DETAIL "A"

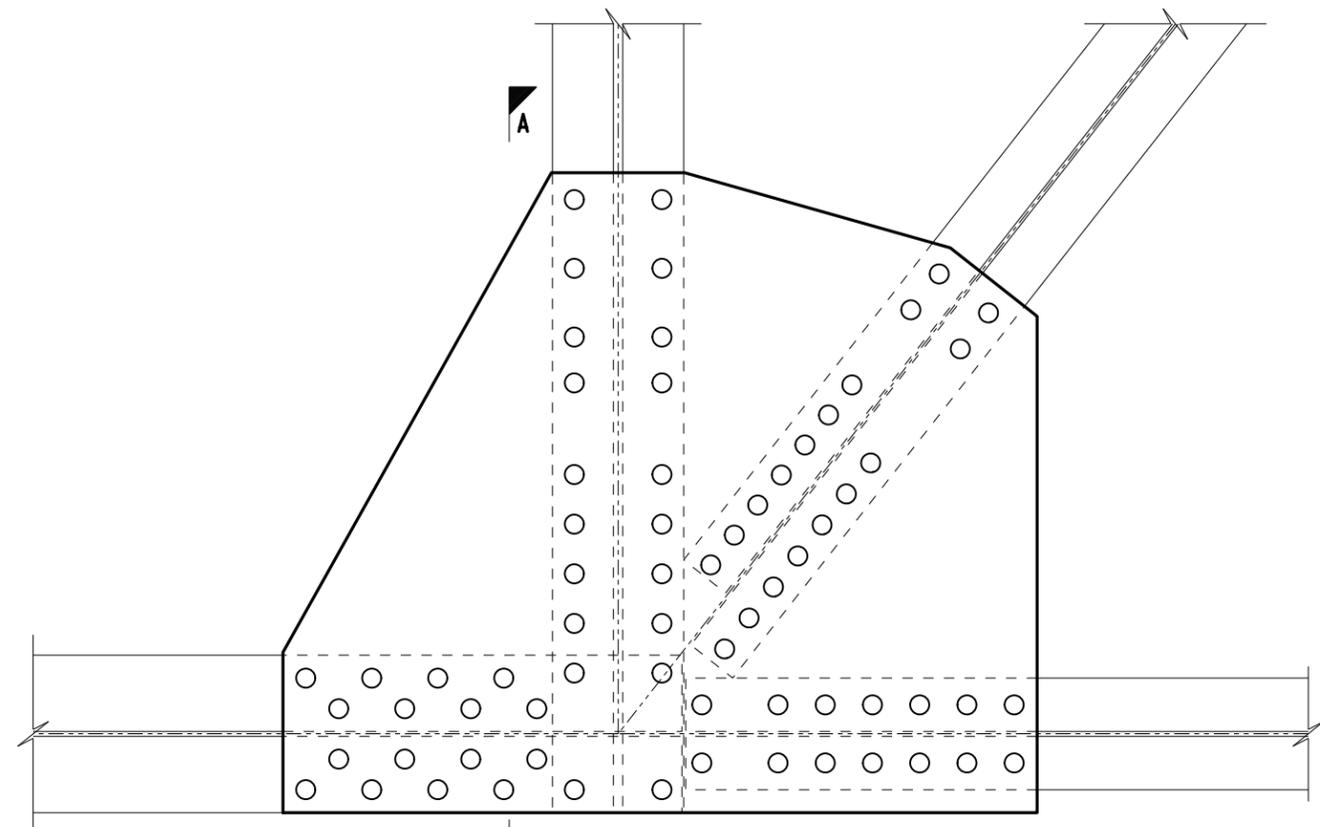
CONTRACT NUMBER  
 DRAWING NO. ST-07  
 SHEET NO. 08

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

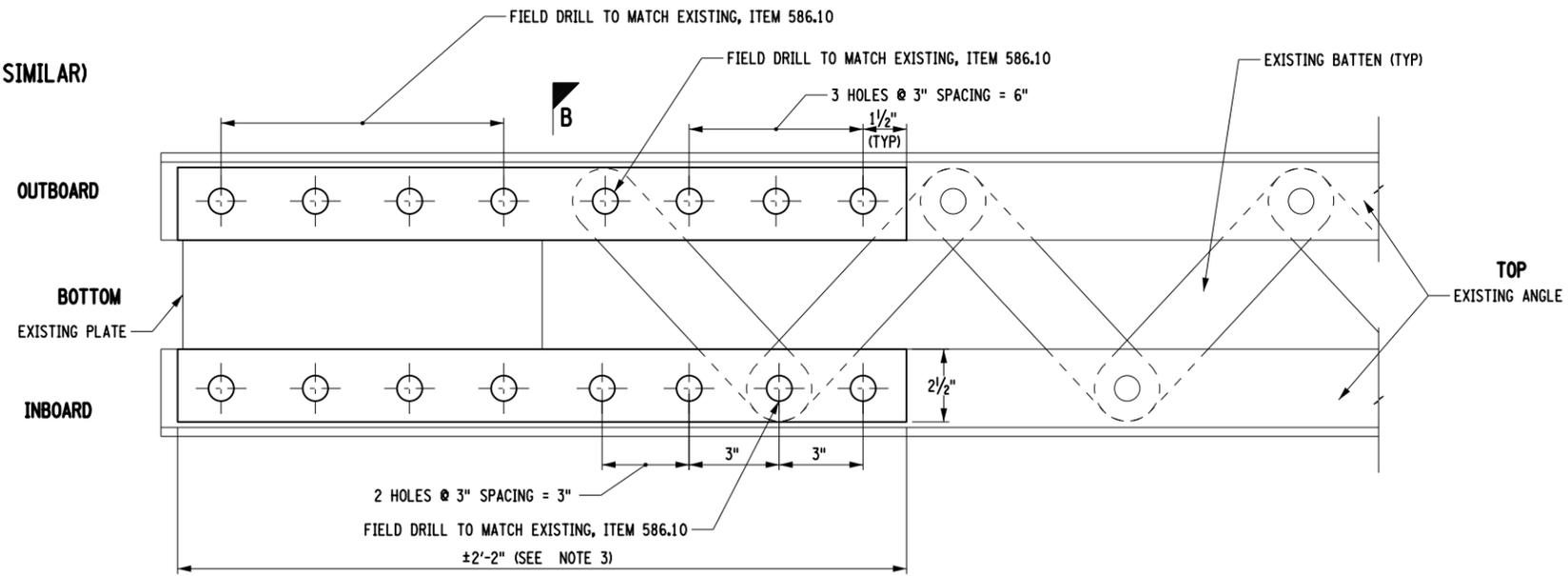
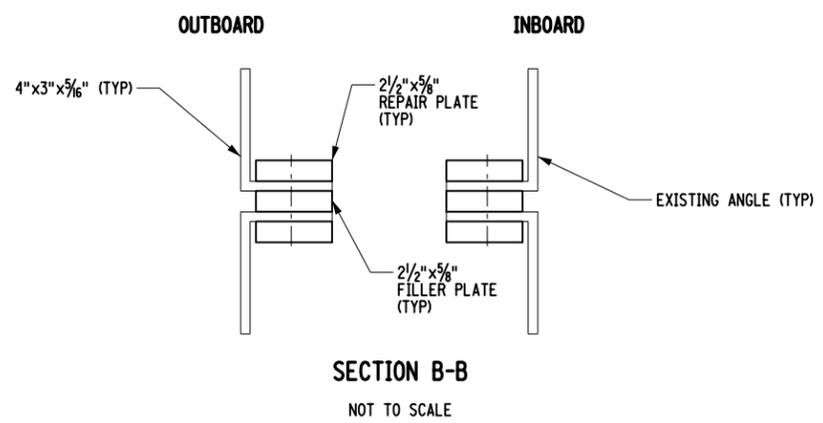


FILE NAME =  
 DATE/TIME = 7/21/2017  
 USER = devmb

JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



**TRUSS 1 - L2**  
 (TRUSS 1 - L3, L5, & L6; TRUSS 2 - L3, L5, & L6 SIMILAR)  
 NOT TO SCALE



- NOTES:**
1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
  2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
  3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
  4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
  5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |   |                                   |
|---|---|-----------|--------------------|----------|---|-----------------------------------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS | ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED | CONTRACT NUMBER                   |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |   |                                   |
|   |   |           |                    |          |   | DRAWING NO. ST-08<br>SHEET NO. 09 |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |   |                                   |

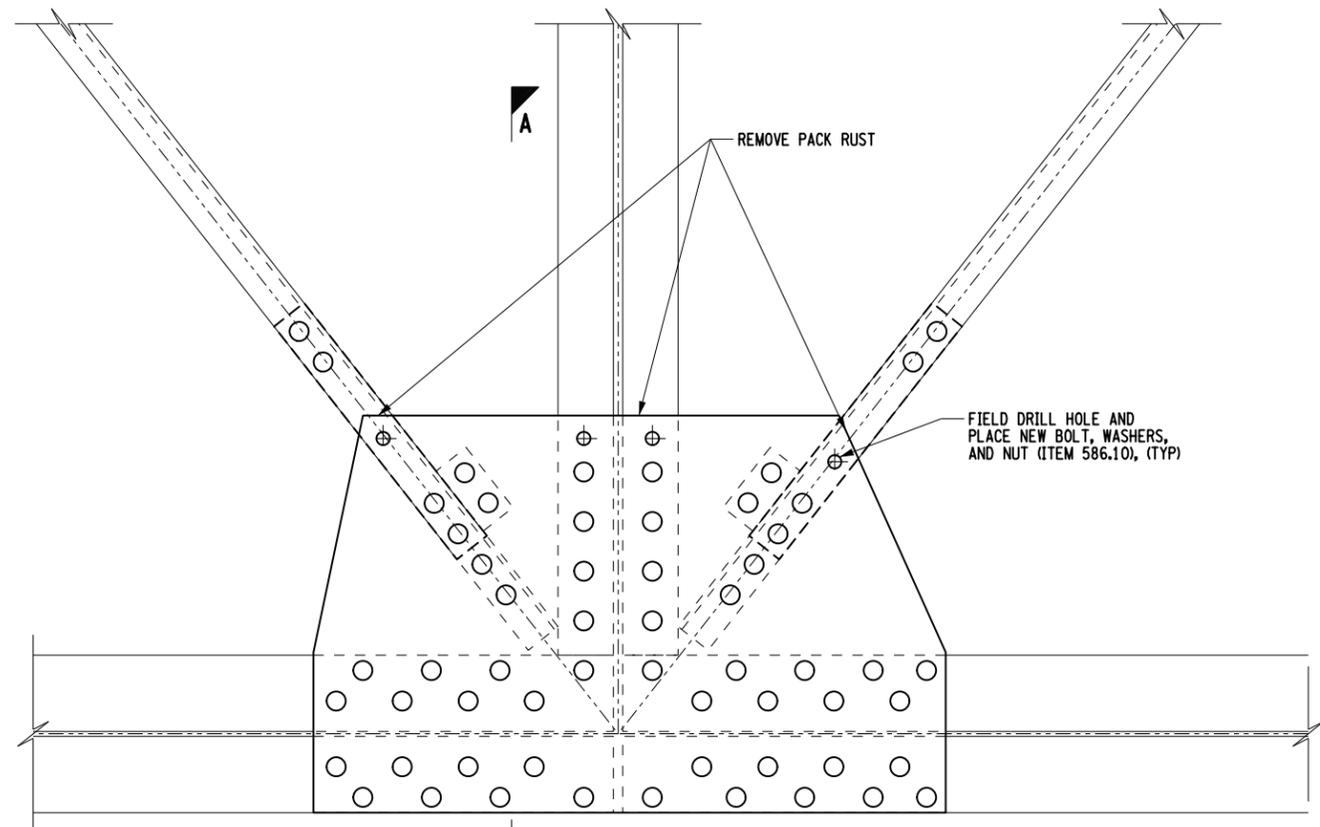
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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 Fax: 315-455-0667  
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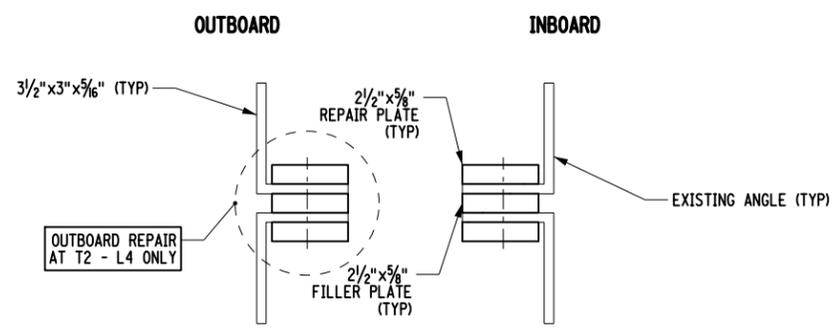


FILE NAME =  
 DATE/TIME = 7/21/2017  
 USER = devmb

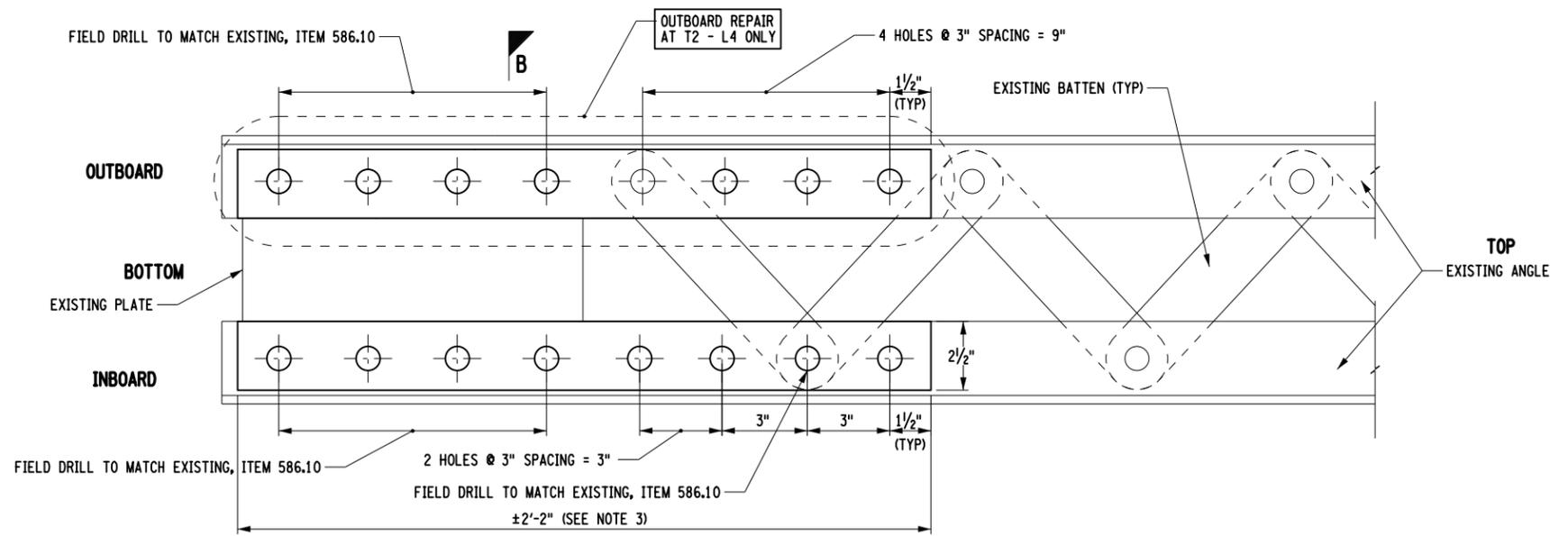
JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



**TRUSS 1 - L4  
(TRUSS 2 - L4 SIMILAR)**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE

- NOTES:**
1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
  2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
  3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
  4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
  5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

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ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
**PROPOSED REPAIR  
 DETAIL "C"**

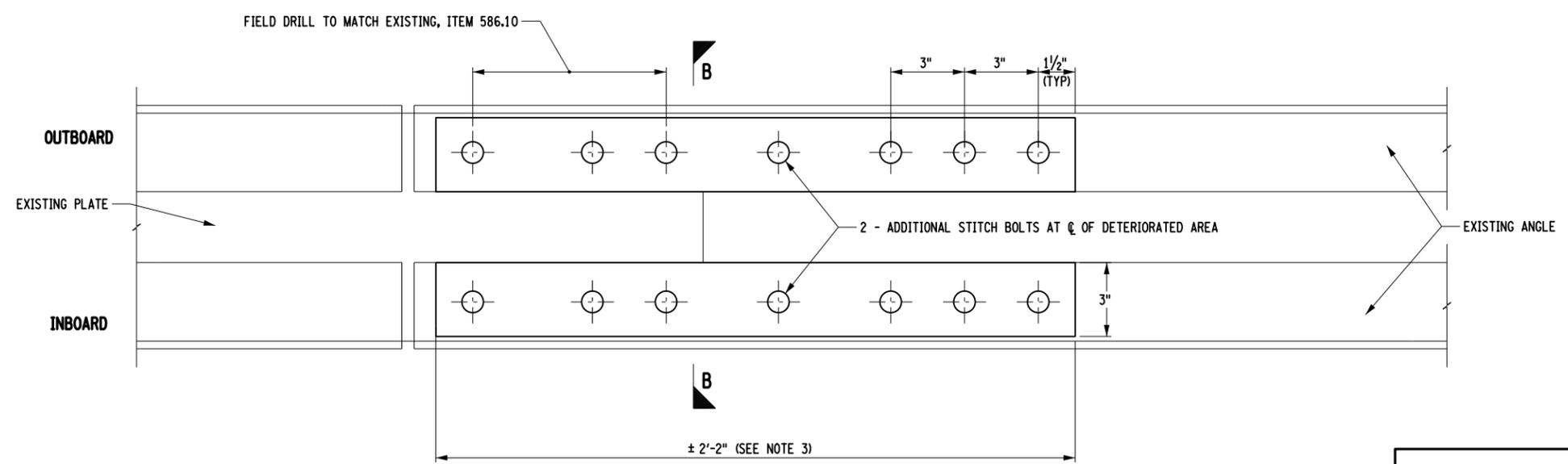
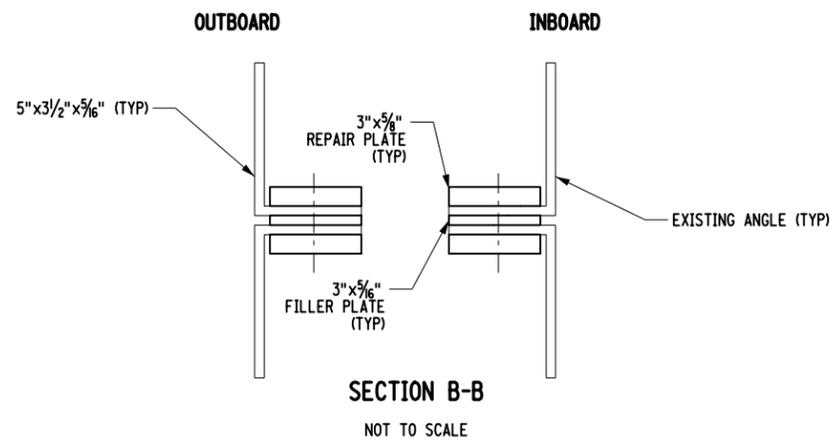
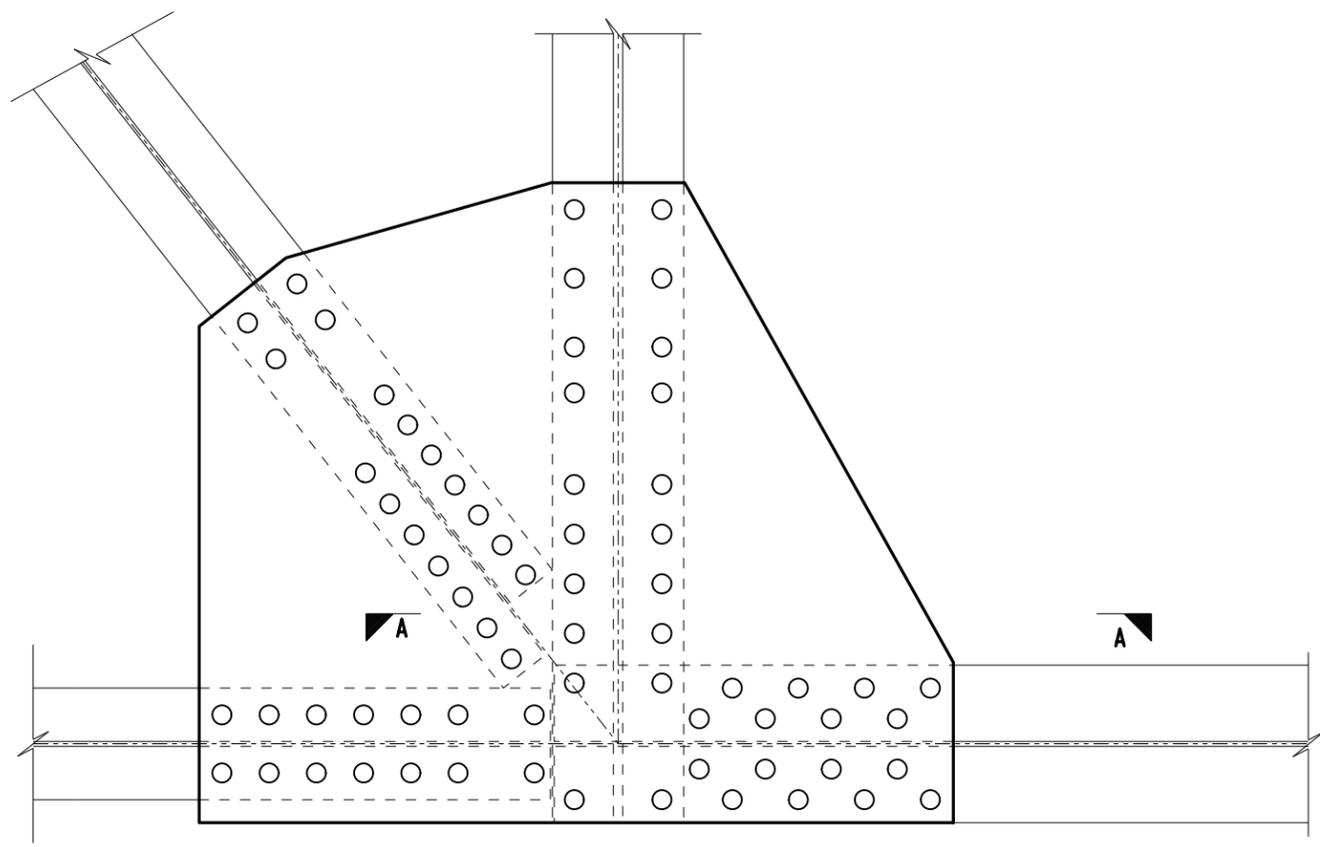
CONTRACT NUMBER  
 DRAWING NO. ST-09  
 SHEET NO. 10

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



FILE NAME =  
 DATE/TIME = 7/21/2017  
 USER = devmb

JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



- NOTES:**
1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
  2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
  3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
  4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
  5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

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NOTE - VERTICAL MEMBERS NOT SHOWN FOR CLARITY  
 ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED  
 PROPOSED REPAIR  
 DETAIL "D"

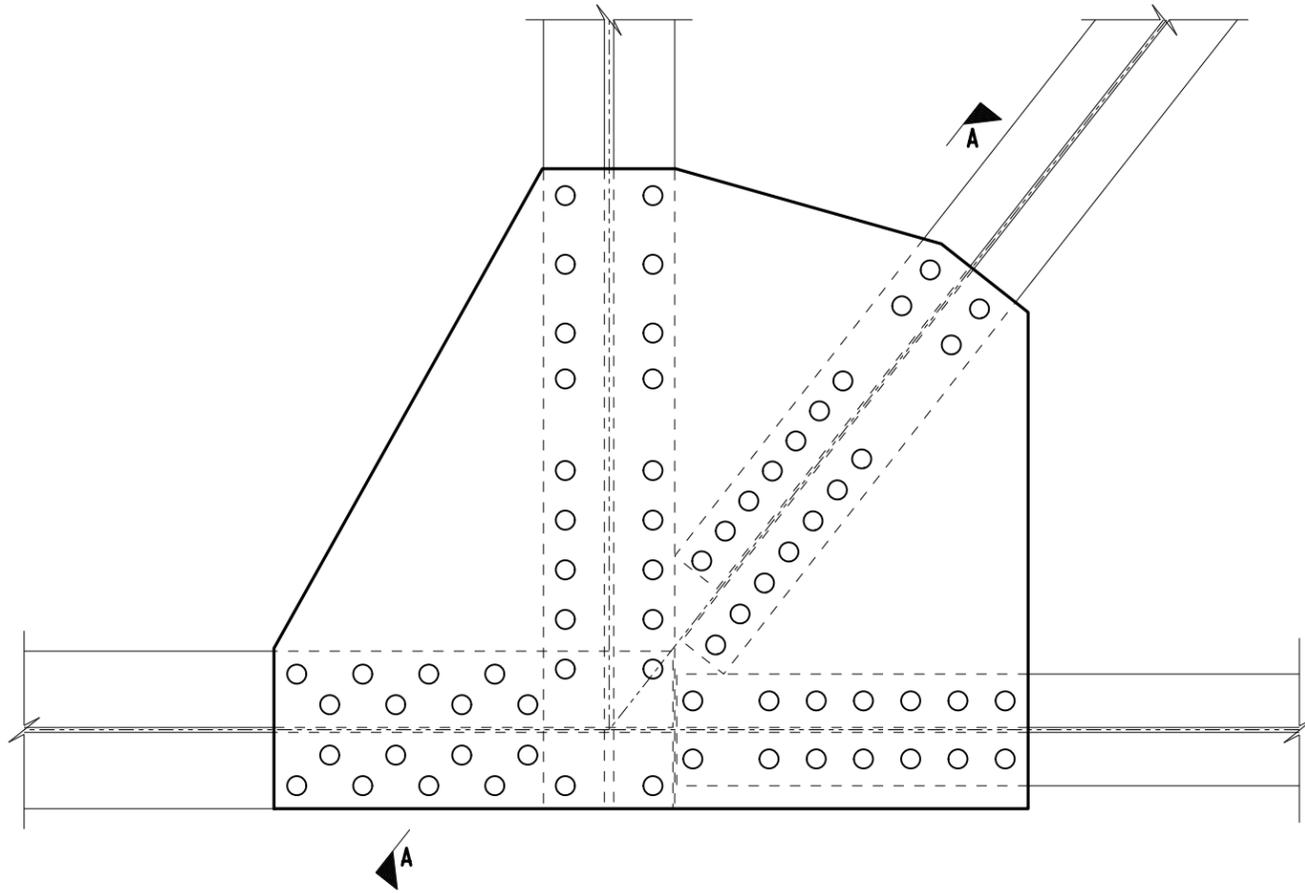
CONTRACT NUMBER  
 DRAWING NO. ST-10  
 SHEET NO. 11

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

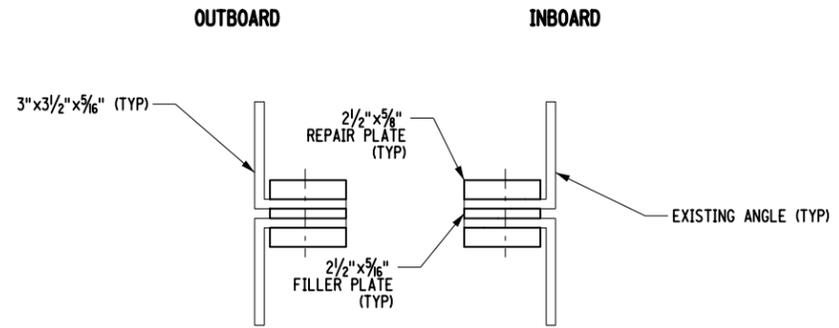


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 USER = devmb

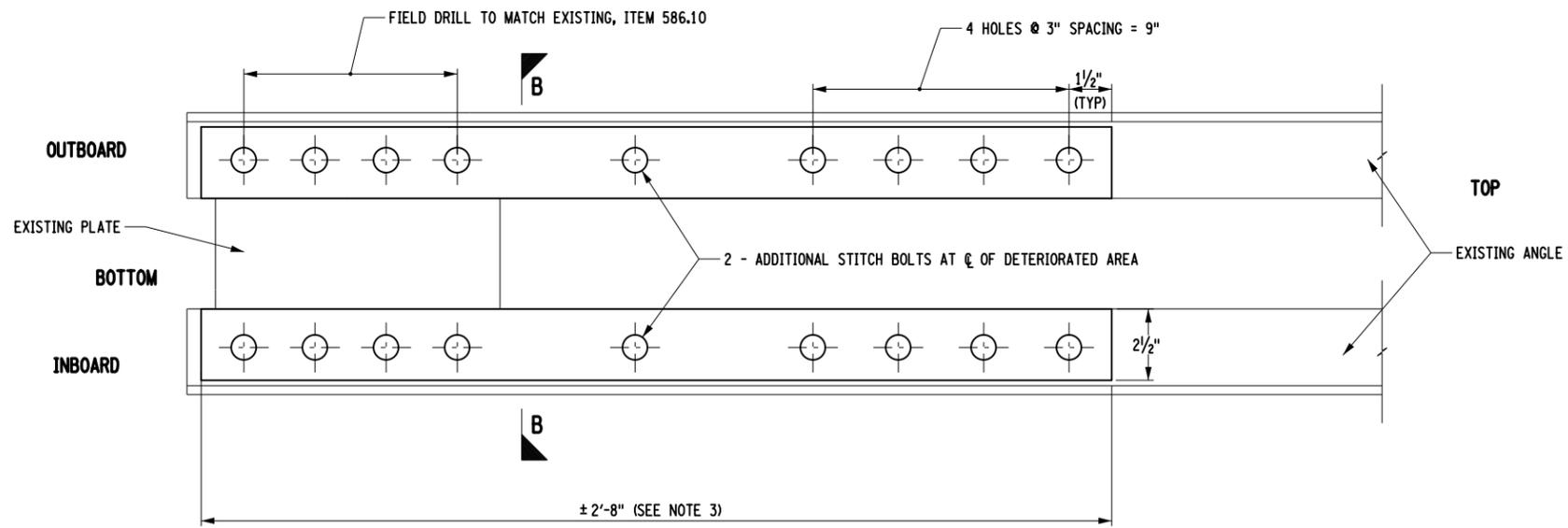
JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



**TRUSS 1 - L2  
(TRUSS 2 - L2 SIMILAR)**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE

**NOTES:**

1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

|   |  |                                   |
|---|--|-----------------------------------|
| ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED |  | CONTRACT NUMBER                   |
| PROPOSED REPAIR<br>DETAIL "E"               |  | DRAWING NO. ST-11<br>SHEET NO. 12 |

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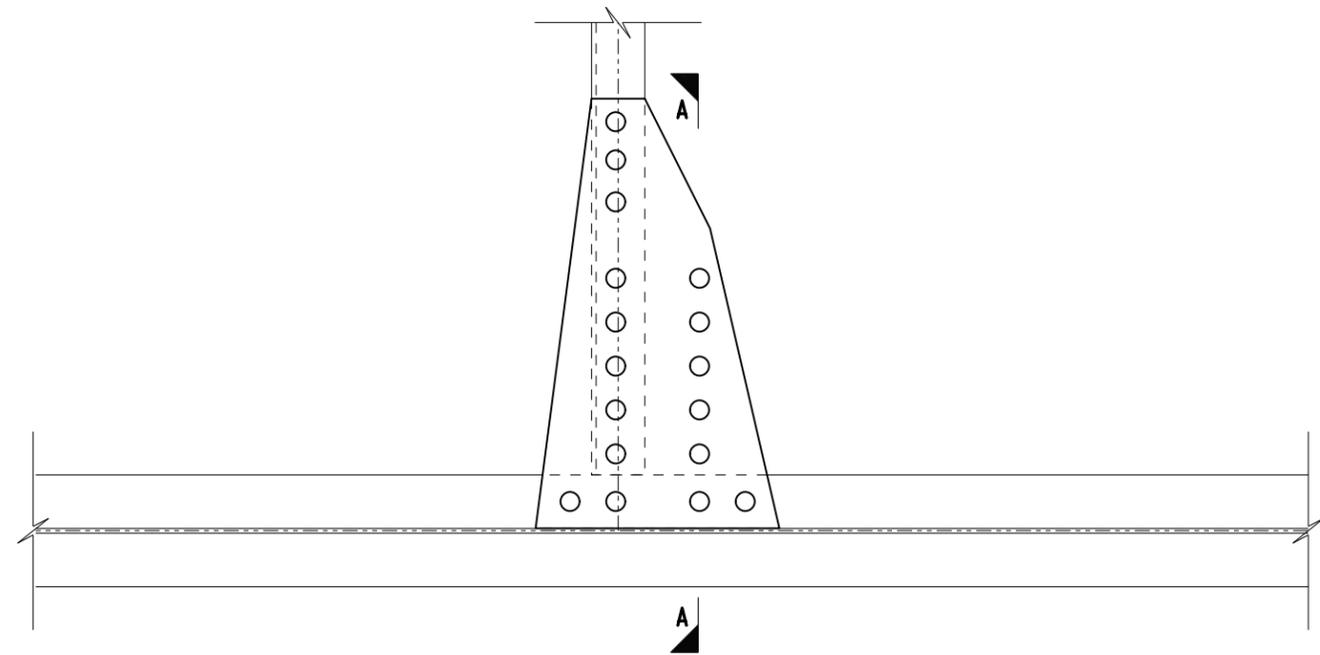


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 USER = devmb

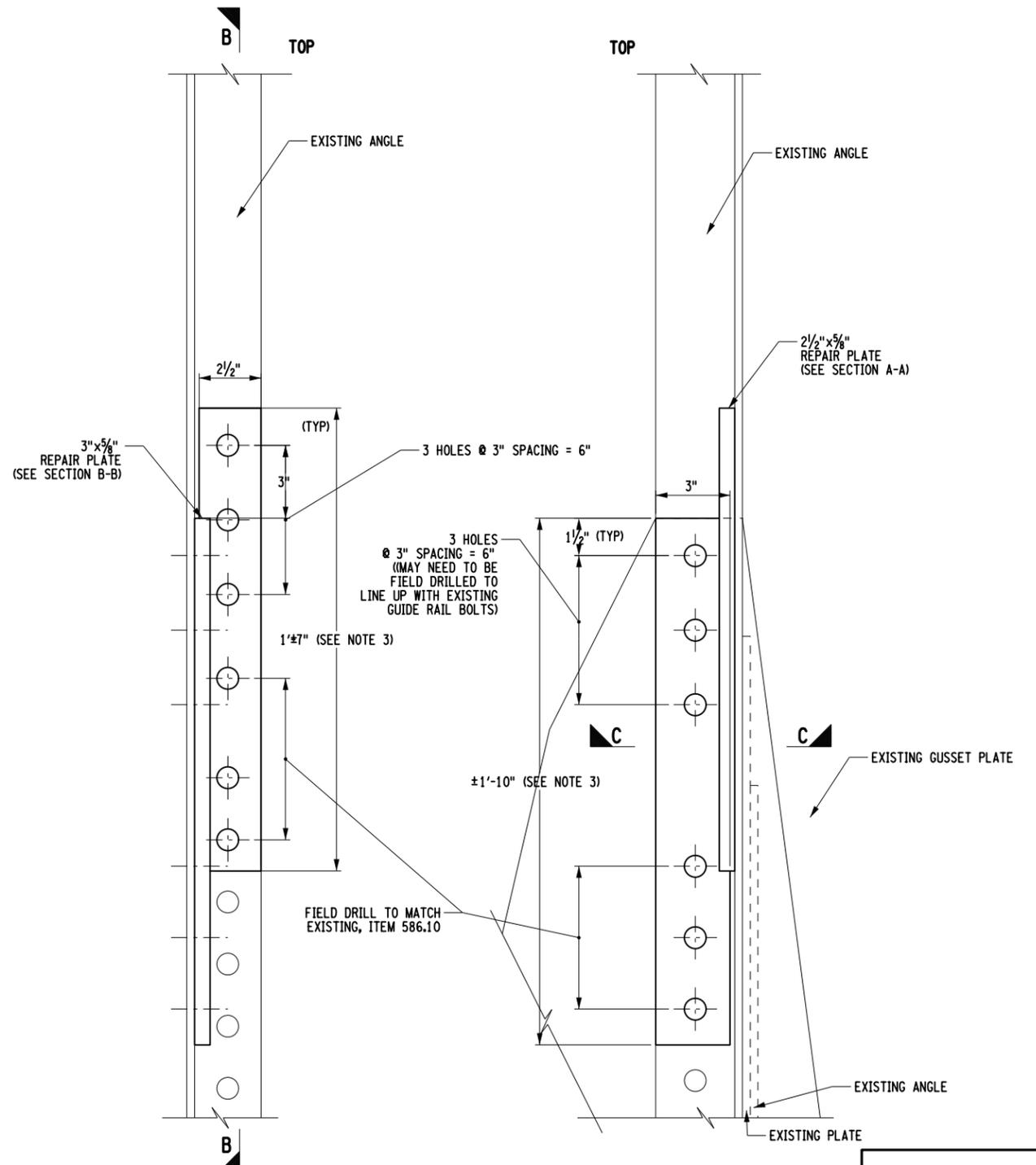




JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC CHECK  
 JFC JOB MANAGER  
 JFC DESIGN SUPERVISOR



**TRUSS 2 - L1 (INBOARD VIEW)**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE

**SECTION C-C**  
NOT TO SCALE

- NOTES:**
1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
  2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM A325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
  3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
  4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
  5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

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ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 PROPOSED REPAIR  
 DETAIL "H"

CONTRACT NUMBER  
 DRAWING NO. ST-14  
 SHEET NO. 15

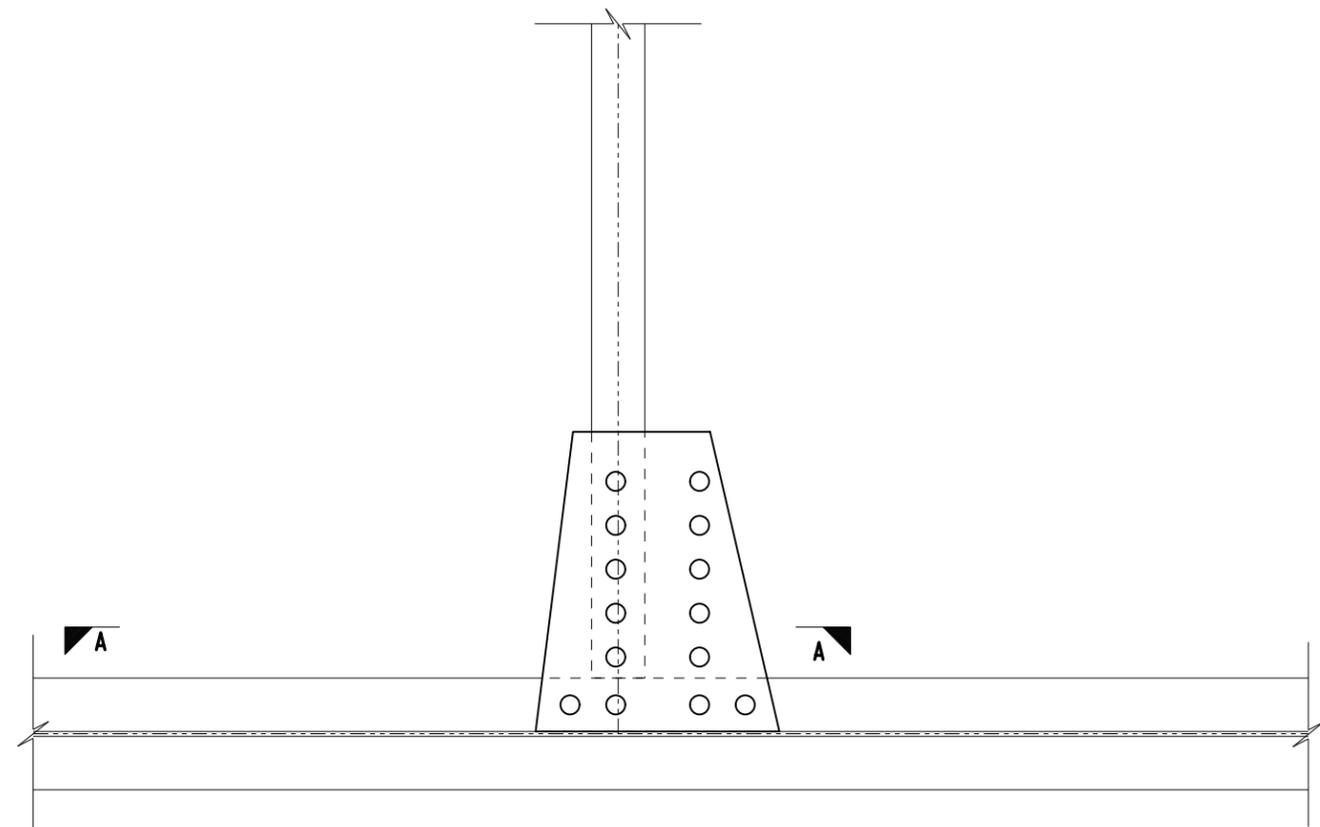
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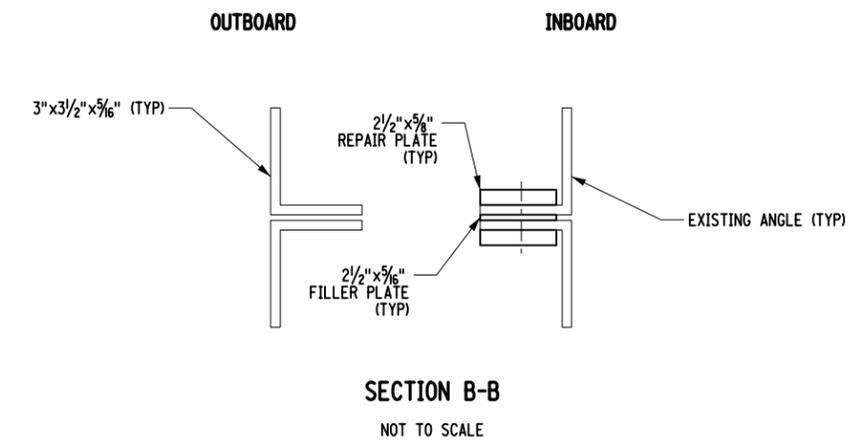
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 USER = devmb



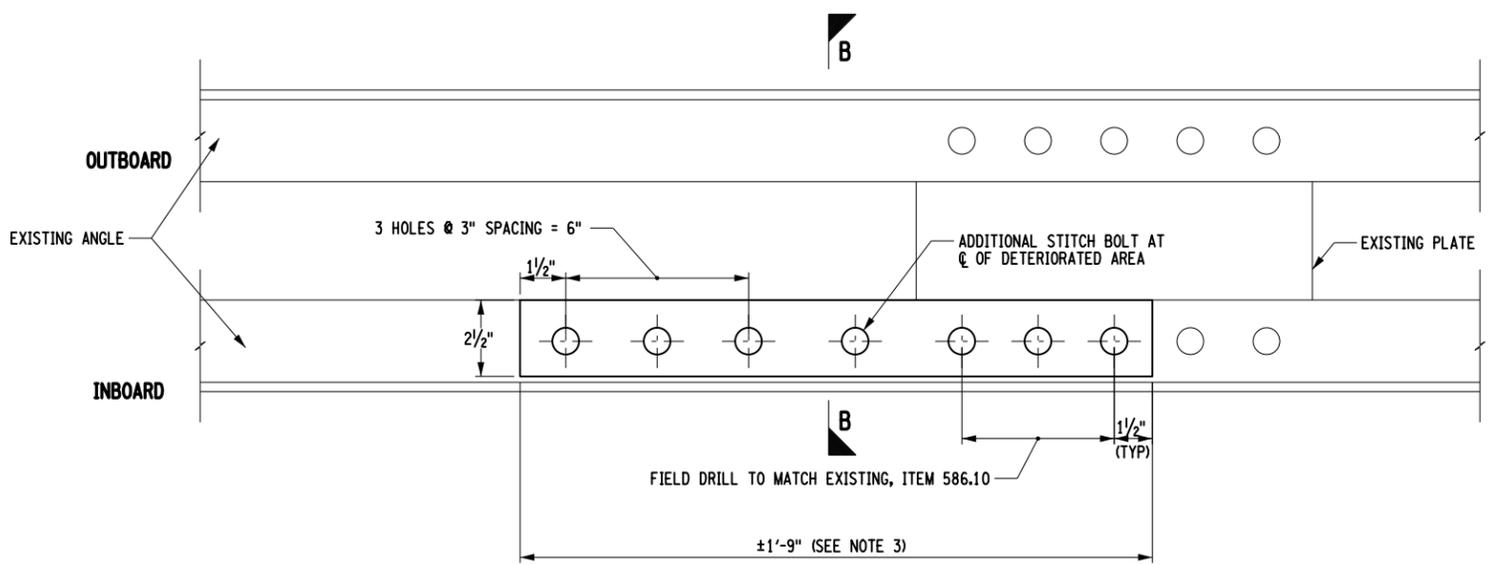
JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



**TRUSS 2 - L7**  
NOT TO SCALE



- NOTES:**
1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
  2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
  3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
  4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
  5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.



**SECTION A-A**  
NOT TO SCALE

NOTE - VERTICAL MEMBERS NOT SHOWN FOR CLARITY

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

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ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 PROPOSED REPAIR  
 DETAIL "J"

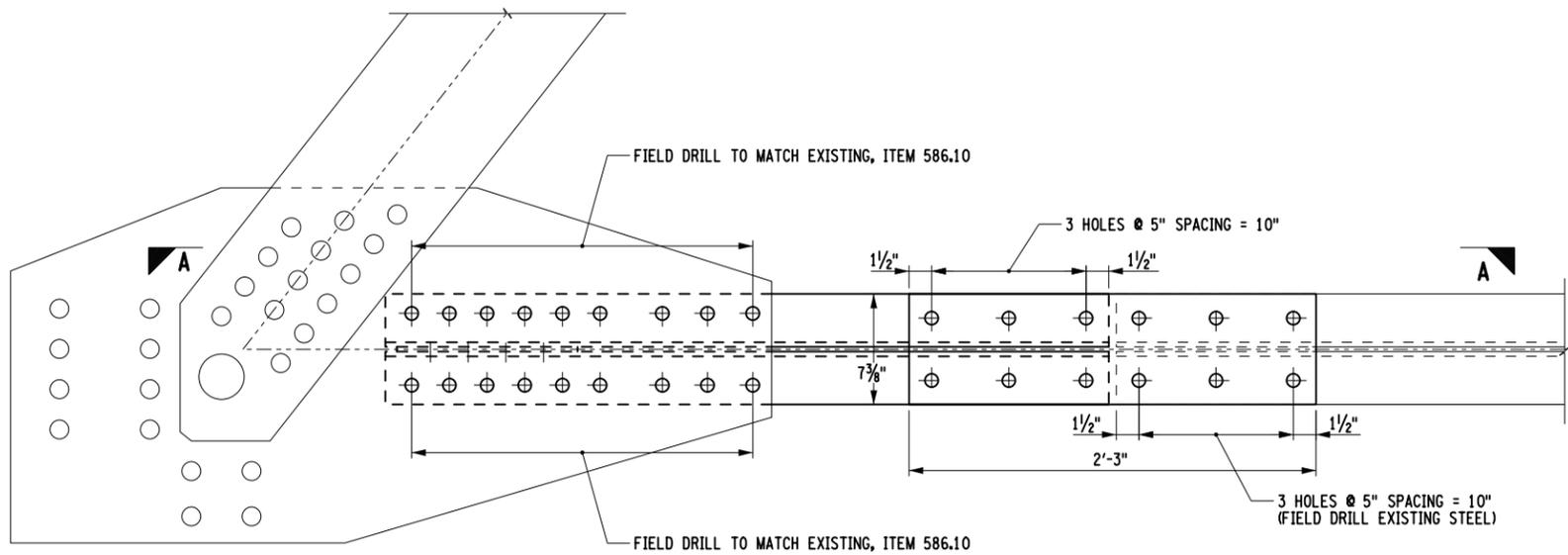
CONTRACT NUMBER  
 DRAWING NO. ST-16  
 SHEET NO. 17

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



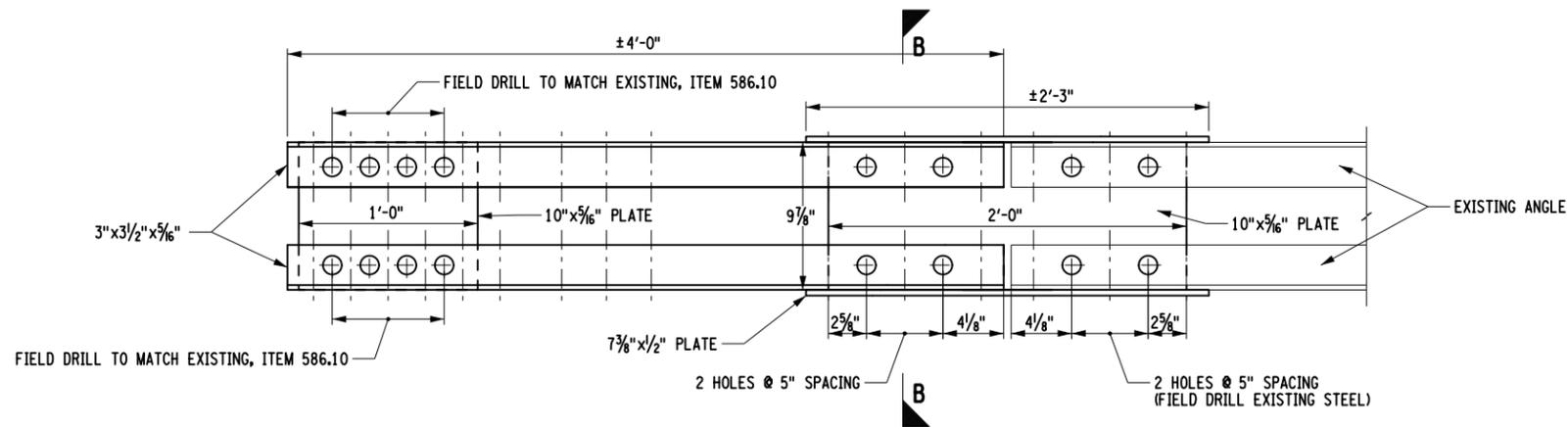
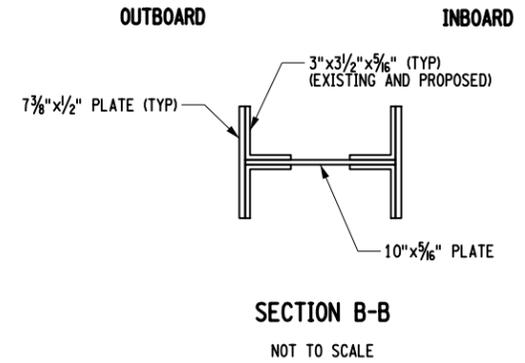
FILE NAME =  
 DATE/TIME = 7/21/2017  
 USER = devmb

JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



**TRUSS 1 - L8**

NOT TO SCALE



**SECTION A-A**

NOT TO SCALE

**NOTES:**

1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

AFFIX SEAL: XXXX  
ON: XXXX

ALTERED BY: XXXX  
ON: XXXX



AS-BUILT REVISIONS  
DESCRIPTION OF ALTERATIONS:

BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL

PIN

BRIDGES  
3306370

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

CONTRACT NUMBER

YELLOW FLAG TRUSS REPAIRS

PROPOSED REPAIR  
DETAIL "K"

DRAWING NO. ST-17

SHEET NO. 18

COUNTY: WASHINGTON COUNTY

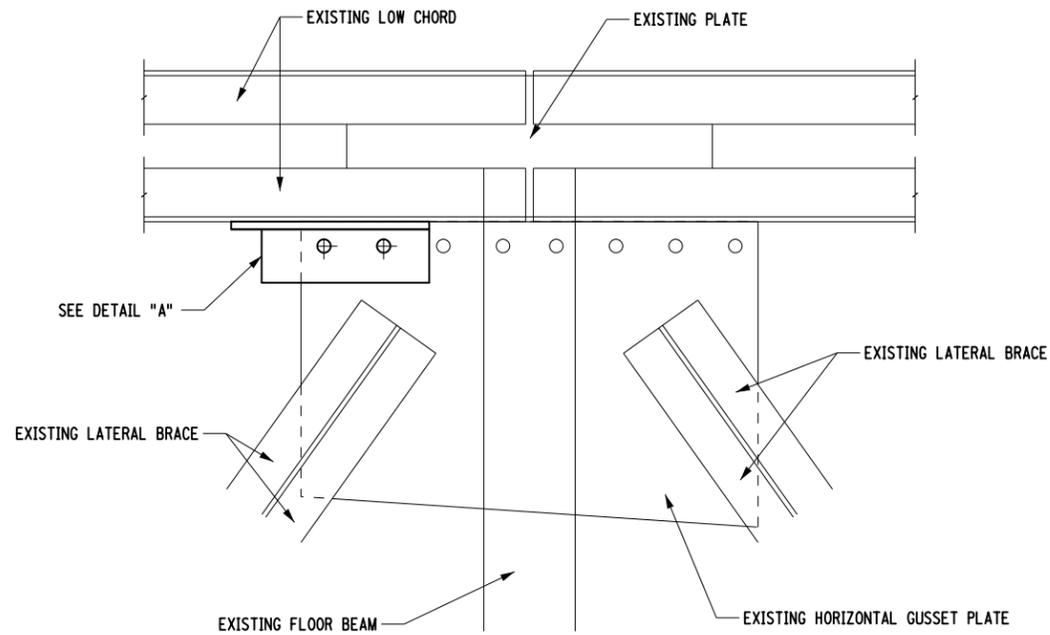
REGION: 1

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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Syracuse, New York 13212  
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Fax: 315-455-0067  
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FILE NAME =  
 DATE/TIME = 7/21/2017  
 USER = devmb



**TYPICAL PLAN**  
NOT TO SCALE

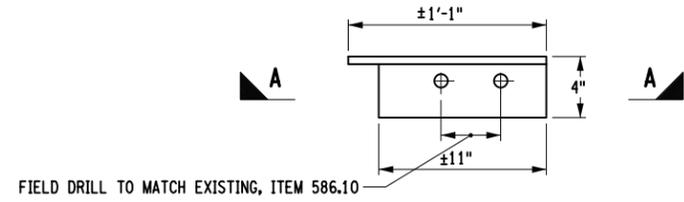
NOTE: EXISTING HOLES NOT SHOWN FOR CLARITY

- TRUSS 1**  
 L-3 (BEGIN AND END)  
 L-4 (BEGIN AND END)  
 L-5 (BEGIN AND END)  
 L-6 (BEGIN AND END)

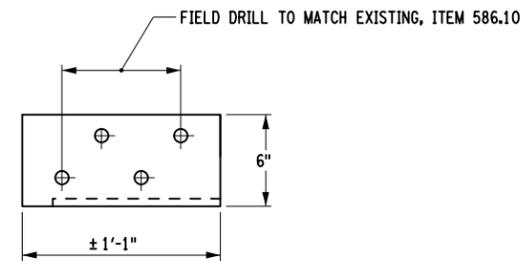
- TRUSS 2**  
 L-3 (END)  
 L-4 (BEGIN AND END)  
 L-5 (BEGIN)  
 L-6 (BEGIN AND END)

**NOTES:**

1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM 325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.



**DETAIL "A"**



**SECTION A-A**

AFFIX SEAL: XXXX ON: XXXX  
 ALTERED BY: XXXX ON: XXXX



|                             |   |           |                 |          |
|-----------------------------|---|-----------|-----------------|----------|
| AS-BUILT REVISIONS          | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES 3306370 | CULVERTS |
| DESCRIPTION OF ALTERATIONS: | YELLOW FLAG TRUSS REPAIRS                 |           |                 |          |
|                             |   |           |                 |          |
|                             |   |           |                 |          |
|                             | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                 |          |

**C&S COMPANIES**  
 C&S Engineers, Inc.  
 499 Col. Elisen Collins Blvd.  
 Syracuse, New York 13212  
 Phone: 315-455-2000  
 Fax: 315-455-9087  
 www.cscos.com



ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 PROPOSED REPAIR  
 DETAIL "L"

CONTRACT NUMBER  
 DRAWING NO. ST-18  
 SHEET NO. 19

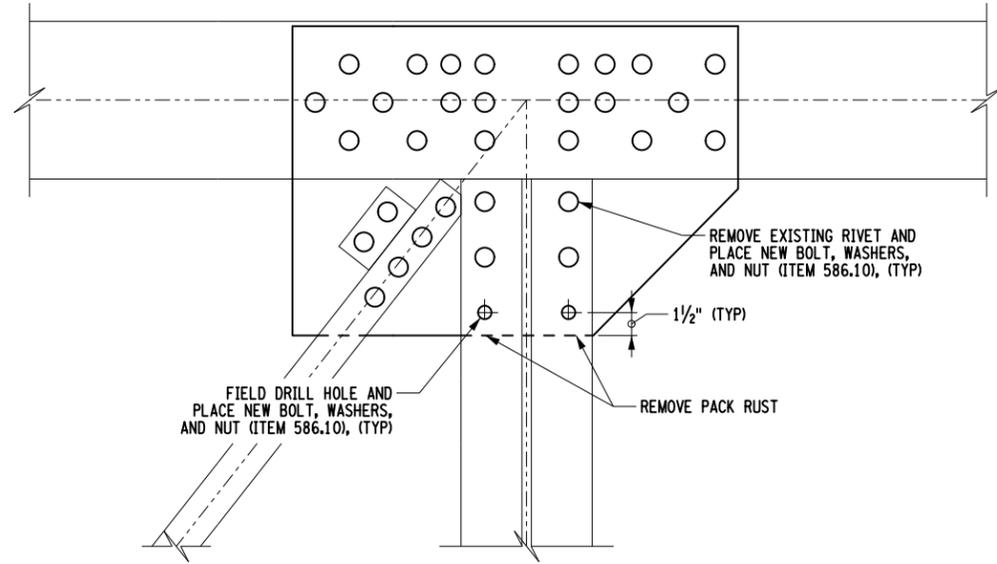
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



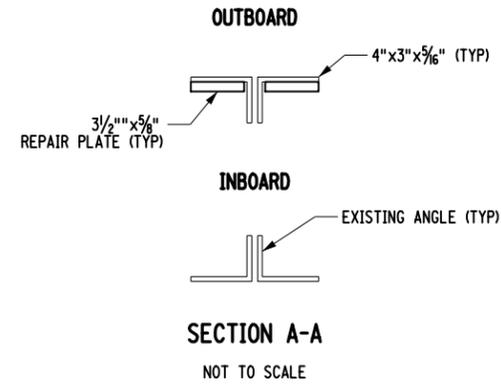
FILE NAME =  
 DATE/TIME = 7/21/2017  
 USER = devmb

JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR

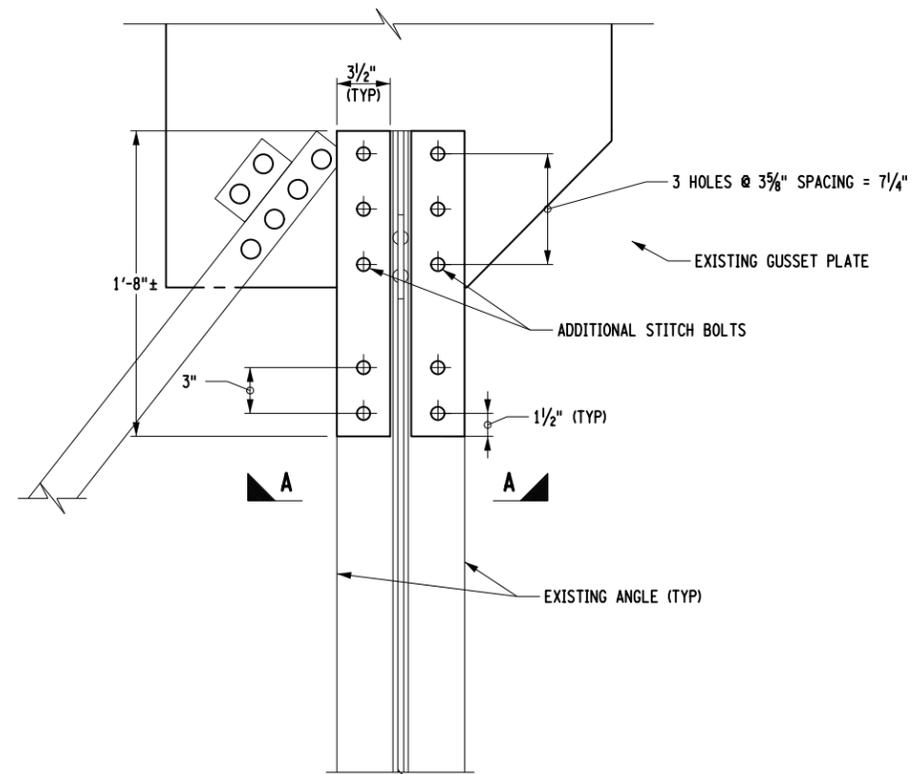
JFC PROJECT MANAGER  
 JFC CHECK  
 MAR DRAFTING  
 JFC CHECK  
 MAR DESIGN  
 JFC JOB MANAGER  
 JRF DESIGN SUPERVISOR



**TRUSS 1 - U3 (INBOARD VIEW)**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE



**ELEVATION**  
NOT TO SCALE

**NOTES:**

1. ALL STEEL REPAIRS, FASTENERS, SHOP DRILLING, ETC. SHALL MEET STANDARD SPECIFICATION 564.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 STEEL UNLESS OTHERWISE NOTED. BOLTS SHALL BE ASTM A325M HIGH STRENGTH BOLTS. NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.
3. THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL REPAIRS. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.
4. BOLT LINES SHALL MATCH EXISTING IN ORDER TO MAINTAIN STEEL MEMBER EDGE DISTANCES.
5. REFER TO DWG ST-01 FOR GENERAL NOTES AND FOR PAINTING NOTES.

**NOTES:**

1. ALL DETAILS ARE NOT TO SCALE
2. ALL DIMENSIONS ARE FIELD MEASURED.
3. BOLT/RIVET HOLE LOCATIONS ARE APPROXIMATE.

AFFIX SEAL: XXXX  
ON: XXXX

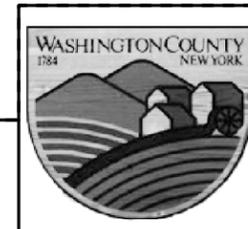
ALTERED BY: XXXX  
ON: XXXX



|   |   |           |                    |          |
|---|---|-----------|--------------------|----------|
| AS-BUILT REVISIONS<br>DESCRIPTION OF ALTERATIONS: | BATTEN-DUGAN ROAD BRIDGE OVER BATTEN KILL | PIN       | BRIDGES<br>3306370 | CULVERTS |
|   | YELLOW FLAG TRUSS REPAIRS                 |           |                    |          |
|   |   |           |                    |          |
|   | COUNTY: WASHINGTON COUNTY                 | REGION: 1 |                    |          |

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ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

PROPOSED REPAIR  
DETAIL "M"

CONTRACT NUMBER

DRAWING NO. ST-19  
SHEET NO. 20



FILE NAME =  
DATE/TIME = 7/21/2017  
USER = devmb