

# SY42 FIELD STUBBING REPAIR DETAIL

REFER TO ALPINE ENGINEER'S SEALED DESIGN FOR ORIGINAL SPAN, LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN ON THIS DETAIL.

\* THIS REPAIR ALLOWS FOR A SINGLE SPAN, TWO BEARING, NON-CANTILEVERED, SY42 TRUSS TO BE SHORTENED A MAXIMUM OF 6" FROM ONE OR BOTH ENDS. TRUSSES SHALL SUPPORT A MAXIMUM TRIBUTARY LOAD AREA OF 2'-0" WITH NO OTHER UNIFORM OR CONCENTRATED LOADS.

\*\* (2) 4x2 #3 FIELD-APPLIED BLOCKS. SCRIBE TO CUT FOR TIGHT FIT. ATTACH TO TRUSS WHERE SHOWN.

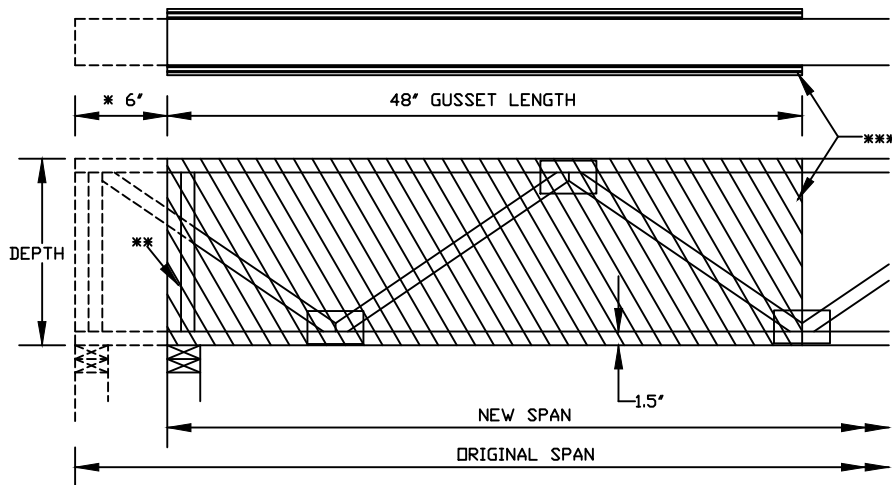
\*\*\* REPAIR TRUSS USING 1/2" APA RATED 32/16 OR 3/4" APA RATED 48/24 SHEATHING (REFER TO CHART) NAILED TO BOTH FACES OF TRUSS. SIZE GUSSETS AS SHOWN. USE 8d BOX (0.113" DIA. x 2.5") NAILS IN 1 ROW AT 2" O.C. NAIL INTO ALL MEMBERS IN CONTACT WITH GUSSETS.

DAMAGED TRUSSES MUST BE CAREFULLY EVALUATED TO DETERMINE THE EXTENT OF DAMAGE AND THE FEASIBILITY OF REPAIR. IN SOME CASES THE PRUDENT SOLUTION IS TO SCRAP THE DAMAGED TRUSSES AND REBUILD. INTERNAL WOOD FIBER DAMAGE AND EXCESS CONNECTOR STRESS FROM BENDING OR SHOCK CANNOT BE READILY DETECTED. THEREFORE, IT IS VITAL THAT THE TRUSS FABRICATOR AND BUILDING CONTRACTOR CONSIDER THE CAUSE OF THE DAMAGE IN THEIR DECISION WHETHER TO REPAIR OR REBUILD.

TRUSSES MUST BE INSPECTED BY THE TRUSS MANUFACTURER OR LOCAL BUILDING DEPARTMENT AFTER THE COMPLETION OF REPAIRS TO ASSURE COMPLIANCE WITH ITWBCG DESIGNS AND SPECIFICATIONS.

A CHASE OPENING, IF PRESENT, MUST BE LOCATED AT CENTERLINE OF TRUSS SPAN. TRUSS MAY BE CUT BACK UP TO 6" AT EACH END, UNLESS OTHERWISE SPECIFIED ON ENGINEER'S SEALED DESIGN.

REPAIR WORK SHOWN ON THIS DRAWING APPLIES ONLY TO THOSE SECTIONS OF THE TRUSS REPORTED BY THE TRUSS MANUFACTURER TO HAVE BEEN DAMAGED. A QUALIFIED THIRD PARTY INSPECTOR SHALL CHECK TRUSSES TO DETERMINE THE EXTENT OF ANY FURTHER DAMAGE, IF ANY, AND VERIFY THAT REPAIRS HAVE BEEN PERFORMED AS INDICATED ON THIS DRAWING.



1/2" 32/16 RATED SHEATHING	
MAXIMUM NEW SPAN	MINIMUM DEPTH
35-01-00	20"
31-07-00	18"
28-00-00	16"
24-04-00	14"
20-08-00	12"
16-11-00	10"

3/4" 48/24 RATED SHEATHING	
MAXIMUM NEW SPAN	MINIMUM DEPTH
40-03-08	20"
36-03-08	18"
32-03-08	16"
28-03-08	14"
24-03-08	12"
20-03-08	10"

13389 Lakefront Drive  
Earth City, MO 63045

**\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING  
\*\*\*IMPORTANT\*\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:  
ALPINE: [www.alpineitw.com](http://www.alpineitw.com) TPI: [www.tpinet.org](http://www.tpinet.org) SBCA: [www.sbcindustry.org](http://www.sbcindustry.org) ICC: [www.iccsafe.org](http://www.iccsafe.org)

TC LL	40 PSF
TC DL	10 PSF
BC DL	5 PSF
BC LL	0 PSF
TOT. LD.	55 PSF
DUR. FAC.	1.00
SPACING	24.0"

REF	STUB SY42
DATE	10/01/14
DRWG	REPSY42A1014