THESE CONSTRUCTION DOCUMENTS REPRESENT THE DESIGN INTENT OF THE DESIGN TEAM BASED ON DIMENSIONS OF EXISTING SITE AND/OR FIELD CONDITIONS. ACTUAL CONDITIONS MAY REQUIRE MODIFICATIONS OF THE CONSTRUCTION DETAILS TO ACHIEVE THE DESIGN INTENT. CONTRACTOR SHALL NOTIFY DESIGN TEAM IN WRITING OF ANY DISCREPANCIES RELATED TO EXISTING SITE AND/OR FIELD CONDITIONS PRIOR TO

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RECORD ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS AND TO BRING THEM TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO COMMENCING ANY WORK. ANY DEVIATION FROM THE CONDITIONS SHOWN IN THESE CONSTRUCTION DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE DESIGN TEAM.

DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO COMMENCING ANY WORK.

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY. WORK REQUIRED TO BE DONE BY ONE DOCUMENT AND NOT BY OTHERS SHALL BE DONE AS IF REQUIRED BY ALL.

THE CONTRACTOR AND SUBCONTRACTOR SHALL MAKE NO STRUCTURAL SUBSTITUTIONS, CHANGES, OR MODIFICATIONS WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

CONTRACTORS AND SUBCONTRACTORS SHALL ENSURE THAT ALL WORK IS PERFORMED IN A PROFESSIONAL AND WORKMANLIKE MANNER BY SKILLED MECHANICS OF THE TRADE. SUBCONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK IN A TIMELY MANNER.

UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED, OR OTHERWISE WEAKENED WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.

BUILDER'S SET: THIS SET OF DRAWINGS HAS BEEN PREPARED SUFFICIENT TO OBTAIN A BUILDING PERMIT, ALL MATERIALS AND METHODS OF CONSTRUCTION NECESSARY TO COMPLETE THE PROJECT ARE NOT NECESSARILY DESCRIBED IN THIS "BUILDER'S SET". THE IMPLEMENTATION OF THE DRAWINGS REQUIRES THE CONTRACTOR OR BUILDER TO BE THOROUGHLY KNOWLEDGEABLE WITH THE APPLICATIONS OF CODES AND THE METHODS OF CONSTRUCTION SPECIFIC TO THIS PROJECT AND TYPE OF CONSTRUCTION.

ALL WATERPROOFING, FLASHING, AND DRAINAGE ARE TO BE DESIGNED AND PROVIDED BY THE BUILDER.

COORDINATION BETWEEN DISCIPLINES

ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THESE GENERAL NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY: ERECTION MEANS, METHODS, AND SEQUENCES: TEMPORARY SHORING, FORMWORK, AND BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION." CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE (CBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

IN-KIND DEFINITION:

A REPLACEMENT THAT SATISFIES THE DESIGN SPECIFICATION.

REPLACEMENT OF BUILDING COMPONENTS USING THE SAME MATERIAL AND SIZES AS ORIGINALLY CONSTRUCTED.

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE CURRENT AISC MANUAL OF STEEL CONSTRUCTION AND AISC 360 CURRENT EDITION.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS UNLESS

ALL FABRICATION SHALL BE PERFORMED BY A FABRICATOR CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES, OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

ALL STRUCTURAL STEEL SURFACES SHALL BE SHOP PAINTED. ALL STEEL EXPOSED TO WEATHER SHALL HAVE TWO COATS OF PAINT. ALL EXPOSED STRUCTURAL STEEL SHALL SATISFY AISC REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) UNLESS WAIVED IN WRITING BY ARCHITECT.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 ($F_v = 50 \text{ KSI}$) OTHER SHAPES AND PLATES: ASTM A36 (F_v = 36 KSI) STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (F_y = 35 KSI) STEEL STRUCTURAL TUBING: ASTM A500, GRADE C, (F_v =50 KSI). MACHINE BOLTS (M.B.): ASTM A307, GRADE A HIGH-STRENGTH BOLTS: A325-ASTM F1852, A490-ASTM A490 ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36, CLASS 2A

<u>STUDS</u>

STUDS SHALL BE AS SPECIFIED IN AWS D1.1 CLAUSE 7, WITH MATERIAL AS

REQUIRED IN CLAUSE 7.2.6. TYPE A (F_y = 49 ksi, F_u = 61 ksi) ARE ALLOWED FOR STEEL TO WOOD CONNECTIONS. TYPE B (F_y = 51 ksi, F_{ii} = 65 ksi) SHALL BE USED IN ALL OTHER CONNECTIONS AND ARE ACCEPTABLE FOR WOOD CONNECTIONS

ALL STUDS SHALL BE DRAWN ARC WELDED

WELDING:

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D-1.1. 70 KSI MINIMUM WELD MATERIAL.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING. IF WELDERS ARE NOT CERTIFIED, CONTRACTOR SHALL PAY FOR ANY INSPECTIONS BY TESTING AGENCY THAT WOULD NOT HAVE BEEN REQUIRED IF SHOP WAS CERTIFIED. WITHOUT CERTIFICATION, ALL WELDS SHALL BE CONSIDERED FIELD WELDS.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS, AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE CHARPY V-NOTCH TOUGHNESS RATING PER LATEST EDITION OF AISC 341.

SHOP DRAWINGS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

1. STRUCTURAL STEEL

STRUCTURAL ENGR. BLDG. DEPT.

SPECIAL INSPECTION STEEL SPECIAL INSPECTION SHALL CONFORM TO CURRENT CBC CODE. INSPECTION SHALL BE RESPONSIBILITY OF THE CONTRACTOR.

PLANS & DETAILS LEGEND

SHEET NUMBER DESCRIPTION S-XXX SHEET SEQUENCE NUMBER SUB-GROUP OF DESIGNATORS USED WHEN MORE THAN ONE SHEET OF SAME TYPE IS REQUIRED **DETAIL TYPE DESIGNATOR** 0 - TYPICAL DETAILS 1 - FOUNDATION DETAILS 2 - FRAMING DETAILS

3 - SHEAR DETAILS 4 - STEEL DETAILS 5 - MASONRY DETAILS 6 - CUSTOM DETAILS SHEET TYPE DESIGNATOR 0 - SPECIFICATIONS 1 - FOUNDATION PLANS

2 - FRAMING PLANS 3 - SHEAR PLANS 4 - DETAILS 5 - STRUCTURAL ELEVATIONS 6 - SK DETAILS / CONSTRUCTION ADMIN

STRUCTURAL SHEETS

DETAIL CALL OUT DESCRIPTION

XXX

S-XXX

DETAIL BUBBLE LOCATION OF STRUCTURAL DETAIL OR SECTION DETAIL CUT LINE DETAIL CUT LOOKING IN THE **DIRECTION OF THE SECTION** CUT. THE SECTION IS CONTINUOUS UNO.

> DETAIL NUMBER SPECIFIC TO EACH DETAIL DETAIL LOCATION NUMBER SHEET LOCATION. SEE SHEET NUMBER DESCRIPTION

ABBREVIATIONS

- ANCHOR BOLT ABV - ABOVE

ADDL - ADDITIONAL ADJ - ADJACENT ARCH - ARCHITECTURAL

- ALASKAN YELLOW CEDAR AYC BLKG - BLOCKING

BLW - BELOW - BOUNDARY NAILS BN - BOTTOM OF SHEATHING BTWN - BETWEEN CBC - CALIFORNIA BUILDING CODE

- CONSTRUCTION JOINT - CENTERLINE CL COL - COLUMN

CONC - CONCRETE - CONTINUOUS CONT CVG - CONTINUOUS VERTICAL GRAIN

DIAM - DIAMETER DF - DOUGLAS FIR DFPT - DOUGLAS FIR PRESSURE TREATED

- DEAD LOAD DN - DOWN - EXISTING EΑ - EACH ΕN - EDGE NAIL

- EACH SIDE ES EW - EACH WAY FDN - FOUNDATION

- FINISH FLOOR FOS - FACE OF STUD FRMG - FRAMING

FS - FAR SIDE - GAGE GALV - GALVANIZED - GENERAL CONTRACTOR

- GLUED LAMINATED BEAM GYP - GYPSUM BOARD HD - HOLDOWN

HORIZ - HORIZONTAL HSS - HOLLOW STRUCTURAL SECTION

- INTERNATIONAL BUILDING CODE INTR - INTERMEDIATE INV INVERTED - KIPS

- KING POST - KING STUD - LIVE LOAD - LONG LEG VERTICAL - LONG LEG HORIZONTAL

- LAMINATED STRAND LUMBER LSL - LAMINATED VENEER LUMBER LWT - LIGHTWEIGHT MAX - MAXIMUM

MECH - MECHANICAL MFR - MANUFACTURER MIN - MINIMUM MISC - MISCELLANEOUS - NEW

- NEAR SIDE OC - ON CENTER OCEW - ON CENTER EACH WAY OF - OUTER FACE

OH - OPPOSITE HAND OPNG - OPENING PARA - PARALLEL PERP - PERPENDICULAR PL - PLATE

PLF - POUNDS PER LINEAR FOOT PSF - POUNDS PER SQUARE FOOT - PARALLEL STRAND LUMBER - PRESSURE TREATED

PW - PLYWOOD **REINF - REINFORCEMENT** REQ - REQUIRED SCHED - SCHEDULE

SMS - SHEET METAL SCREW SOG - SLAB ON GRADE STAG - STAGGERED STD HK - STANDARD HOOK STIFF - STIFFENER

SHTG - SHEATHING

SIM - SIMILAR

STL - STEEL SW - SHEARWALL SYM - SYMMETRICAL T&B - TOP & BOTTOM T&G - TONGUE AND GROOVED

THRU - THROUGH

TN - TOE NAIL - TUBE STEEL TYP - TYPICAL UNO - UNLESS NOTED OTHERWISE VERT - VERTICAL

VIF - VERIFY IN FIELD w/ - WITH WWF - WELDED WIRE FABRIC

PROJECT SUMMARY

THE PROJECT IS THE REPAIR OF EXISTING AIRPLANE HANGERS THAT HAD SNOW DAMAGE.

DAMAGE WAS LESS THAN SUBSTANTIAL, SO DAMAGED ELEMENTS ARE REPLACED TO CURRENT CODE, BUT THE BUILDING WILL NOT BE UPGRADED. AFTER DAMAGE REPAIRED THE ROOF WILL BE REPLACE. THE ROOF REPLACEMENT HAS NO INCREASE IN LOADING DO DOES NOT TRIGGER UPGRADE.

SHEET INDEX

SHEET NUMBER	SHEET NAME
S-000	COVER PAGE
S-001	HANGER LAYOUT
S-100	WALL PANEL REPAIRS
S-200	RE-ROOF REPAIR HANGER A-F
S-201	HANGER H REPAIRS
S-800	ROOF FRAMING PLAN

APPLICABLE CODES

(2022 CBC)

(2018 NDS)

(AISC 15 ED.)

2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA EXISTING BUILDING CODE 2018 NATIONAL DESIGN STANDARD STEEL CONSTRUCTION MANUAL, 15 ED.

PROJECT INFORMATION

ERIN BROOMHALL / DOUG GADOW LINCHPIN STRUCTURAL ENGINEERING 530.563.6341 EXT. 807 (ERIN)

(E) METAL BUILDING SNOW LOAD

CURRENT METAL BUILDING APPEARS TO HAVE BEEN DESIGNED FOR A GROUND SNOW LOAD OF 40 PSF / ROOF SNOW LOAD OF 28 PSF.

NOTE: BUILDING LOADING MAY NOT BE INCREASED BY MORE THAN 5% OR SHALL BE UPGRADE TO THE CURRENT BUILDING CODE AND GROUND DESIGN SNOW LOAD OF 180 PSF. THIS IS NOT TRIGGERED.

DESIGN CRITERIA

(FOR ADDITIONAL ZEE -PURLINS ONLY)

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD	CONCENTRATED LOADS
ROOF	5 PSF	20 PSF	

SNOW:

P_q = 180 PSF (GROUND SNOW LOAD) $P_f = .7P_aC_eC_t I = 125 PSF (FLAT ROOF SNOW LOAD)$ $I_s = 1.0$, $C_e = 1.0$, $C_t = 1.1$, $C_s = 1.0$



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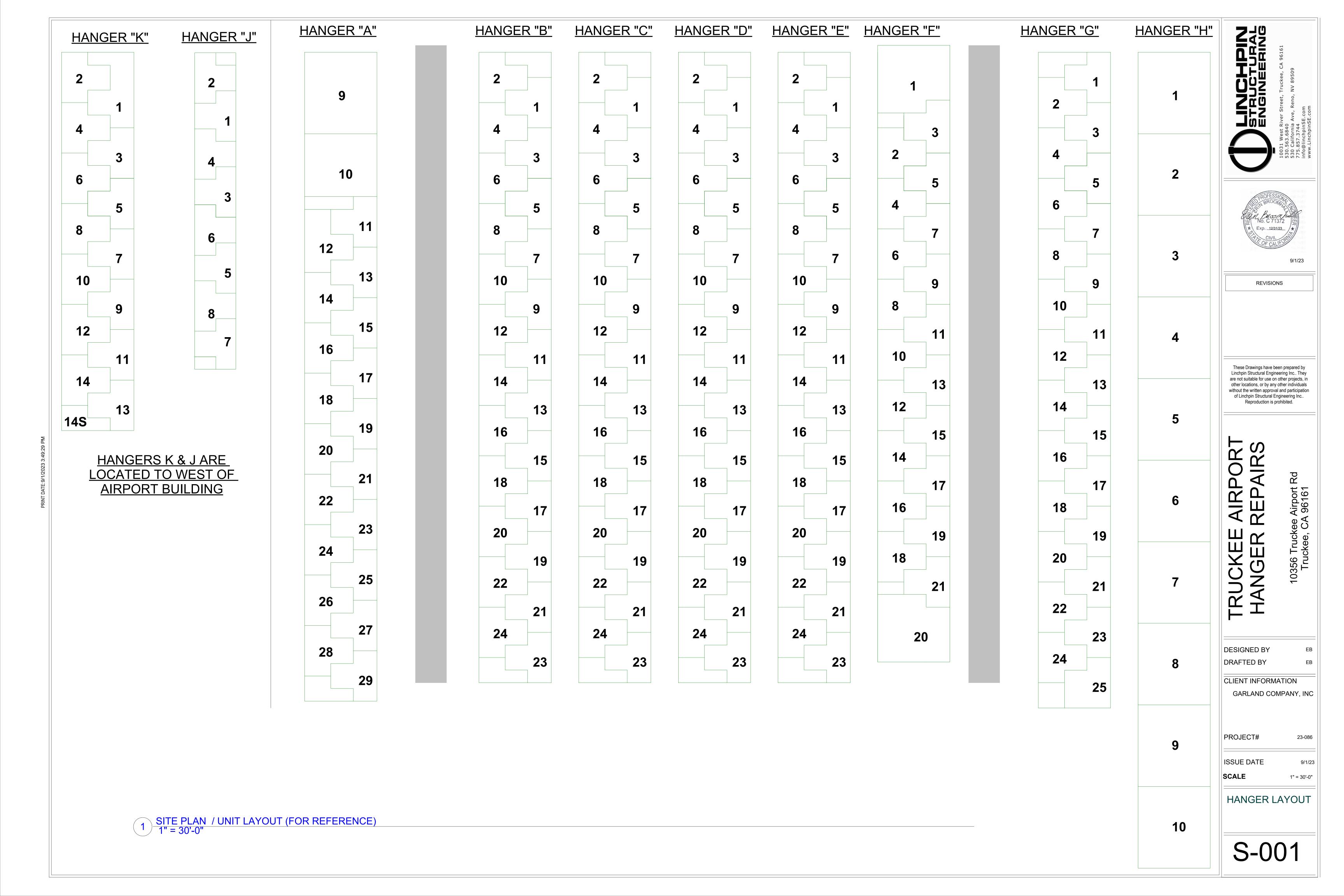
1" = 1'-0"

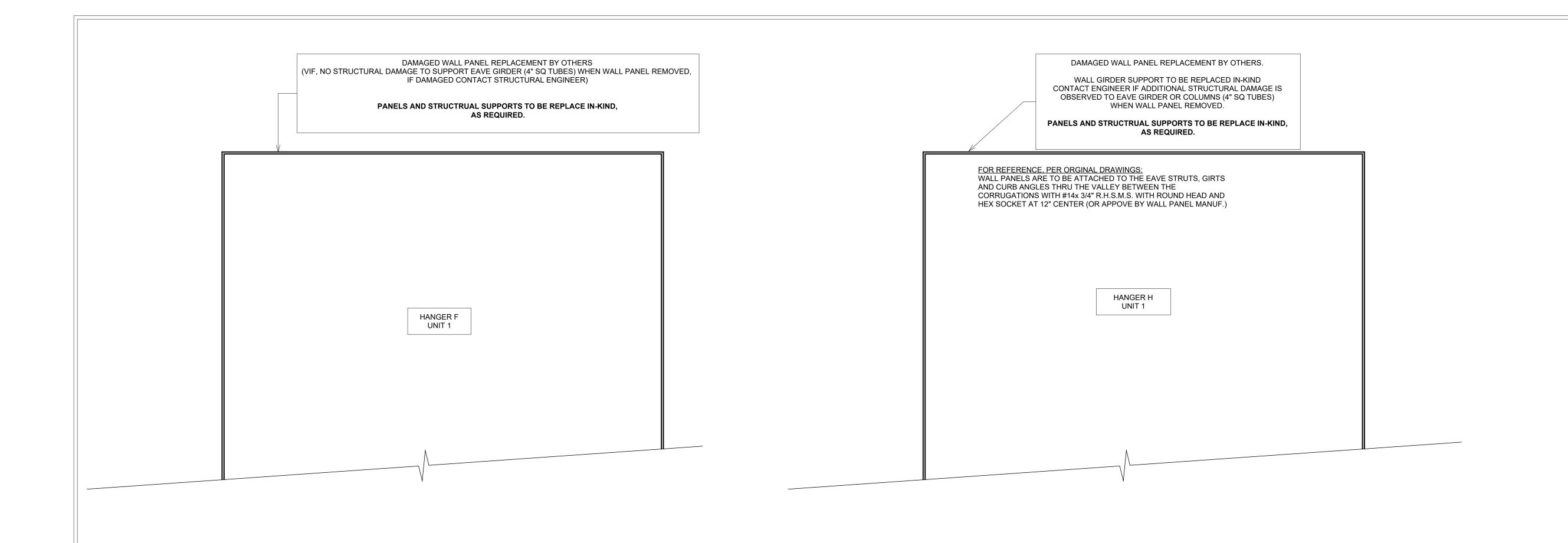
ISSUE DATE

PROJECT#

SCALE

COVER PAGE





WALL PANEL & STRUCTURAL SUPPORT REPAIRS

1/8" = 1'-0"

INTERIOR WALL PANELS TO BE REPAIRED

HANGER A, UNIT 26: (3) PANELS

HANGER A, UNIT 28: (2) PANELS

HANGER C, UNIT C9: (1) WALL PANEL

HANGER C, UNIT C11: (1) WALL PANEL

CONTRACT ENGINEER IF WALL PURLIN OR TIE RODS ARE DAMAGED

STRUCTURA STRUCTURA ENGINEERIN 10031 West River Street, Truckee, CA 96161 530.563.6840 530.California Ave, Reno, NV 89509



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E AIRPORT REPAIRS

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WALL PANEL REPAIRS

S-100

HANGER A-F "GENERAL" NOTES:

- STRUCTURAL REPAIRS REQUIRED. NOTE ADDITIONAL LOCATIONS MAY OCCUR. IF MORE THAN 2 ADJACENT ZEE PURLINS ARE DAMAGED, DECREASE THE SPACING TO 16" OC BY ADDING ADDITIONAL 8" ZEE PURLIN (14 GAGE) 3-1/2" FLANGES BETWEEN THE REPLACED PURLINS.
- BRACING PLAN (BELOW) REQUIRED FOR ALL UNITS. REPLACE (E) DAMAGED ROOF PANEL W/ FREE-FLOATING STANDING SEAM PANELS (SHOP DRAWINGS REQUIED FOR APPROVAL)

HANGER A:

UNITS 24-29 HAVE SIGNIFICANTLY MORE DAMAGED ZEE PURLINS DUE TO LIMITED EXPOSURE OF THESE UNITS, TREES FROM ADJACENT PROPERTY LIMITING MELT OF ROOFS. THUS, REPLACE ALL PURLINS W/ 8" ZEE PURLIN (14 GAGE) 3-1/2" FLANGES AT 16" OC.

UNIT 17: REPLACE (1) DAMAGED ROOF ZEE PURLIN UNIT 24: (4) DAMAGED ROOF ZEE PURLINS, SEE NOTE

UNIT 28: (10) DAMAGED ROOF ZEE PURLINS, SEE NOTE UNIT 27: (9) DAMAGED ROOF ZEE PURLIN, SEE NOTE ABOVE

* FOR WALL DAMAGE AT UNITS A26 & 28, SEE SHEET S-100

IN UNIT 23: ROOF PANEL DAMAGED TO BE REPLACED

HANGER C:

HANGER B:

UNIT 7, REPLACE (1) DAMAGED ROOF ZEE PURLIN UNIT 9 & 11: SEE WALL PANEL (SHEET S-100) UNIT 21: REPLACE (1) DAMAGED ROOF ZEE PURLIN UNIT 24: REPLACE (1) DAMAGED ROOF ZEE PURLIN

HANGER D:

UNIT 23: REPLACE (2) DAMAGED ROOF ZEE PURLINS

<u>HANGER E:</u>

UNIT 13: REPLACE (2) DAMAGED ROOF ZEE PURLINS

HANGER F:

NO REPAIRS NOTED, U.N.O.

HANGER G:

NO REPAIRS NOTED, U.N.O.

HANGER H:

SEE SHEET S-201: FOR DAMAGE & REPAIRS REQUIRED.

HANGER J *:

UNIT 1: REPLACE (1) DAMAGED ROOF ZEE PURLIN UNIT 3: REPLACE (4) DAMAGED ROOF ZEE PURLINS UNIT 5: REPLACE (3) DAMAGED ROOF ZEE PURLINS

HANGER K *:

UNIT 1: REPLACE (1) DAMAGED ROOF ZEE PURLIN UNIT 3: REPLACE (4) DAMAGED ROOF ZEE PURLINS UNIT 5: REPLACE (3) DAMAGED ROOF ZEE PURLINS

UNIT 7: REPLACE (2) DAMAGED ROOF ZEE PURLINS UNIT 11: REPLACE (2) DAMAGED ROOF ZEE PURLINS

UNIT 9: CONTRACTÓR TO INSPECT UNIT, UNIT WAS UNABLE TO BE INSPECTED DURING LINCHPIN INSPECTION.

UNIT 13: REPLACE (1) DAMAGED ROOF ZEE PURLIN

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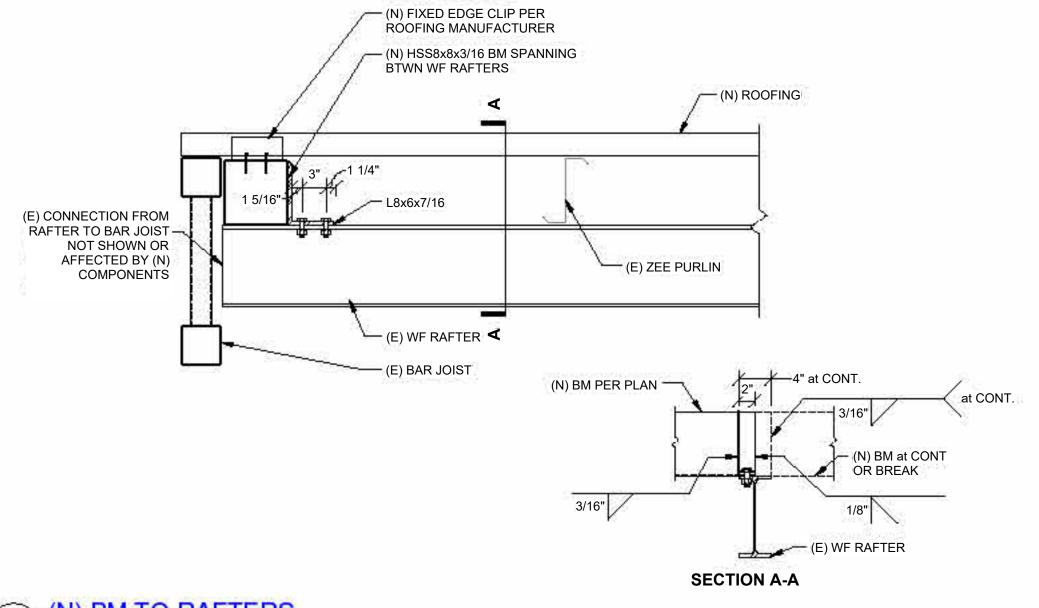
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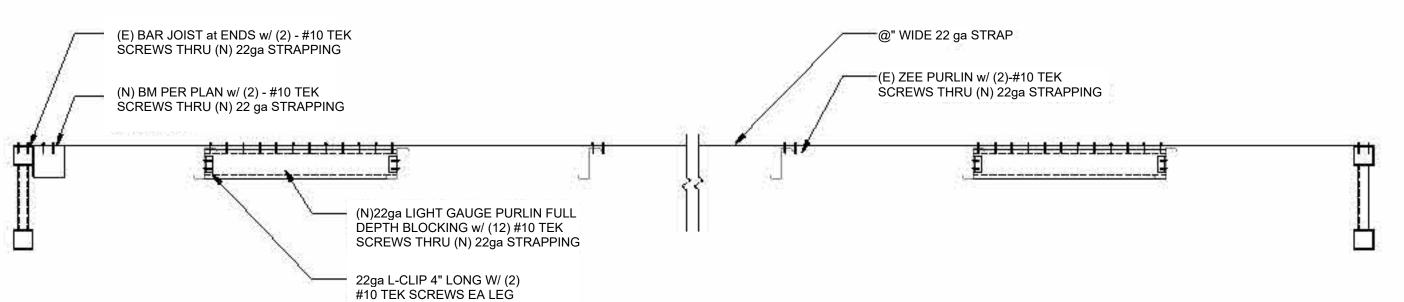
SCALE 1" = 1'-0"

RE-ROOF REPAIR HANGER A-F

S-200







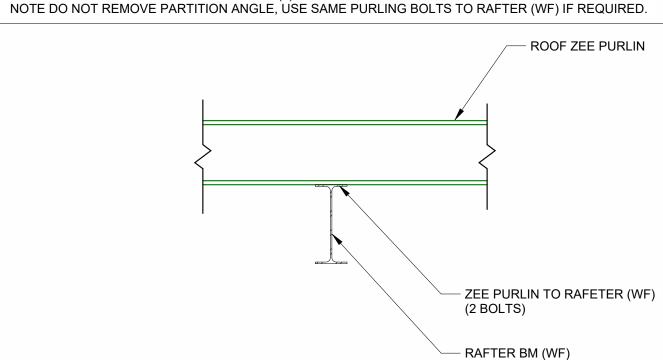
BRACING DETAIL

ROOFING ATTACHMENT: (SHOP DRAWINGS REQUIED FOR APPROVAL)

REPLACEMENT OF ROOF ZEE PURLIN ATTACHMENT: ROOF ZEE-PURLIN TO RAFTER (WF): USE (2) 1/2" x1-1/2" HEX HD

(CONTACT ENGINEER IF ALTERNATIVE REQUESTED OR NOT WHAT IS CURRENTLY INSTALLED) PER ZEÈ PURLIN TO ZEE PURLIN LAP: USE (4) 1/2" x 1-1/2" HEX HD

BRACING PLAN



ZEE PURLING TO RAFTER BM
1" = 1'-0"



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HANGER H

REPAIRS

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