DESIGN LOADS

CODE BODY: IBC 2006

Pg: 35 PSF

ls: 0.8

Ce: 1.0

C₅: .87 C_t: 1.1

Ps: 25 PSF (REQUESTED)

ROOF DEAD LOAD: 5 PSF

CEILING LIVE LOAD: O PSF

CEILING DEAD LOAD: 5 PSF

WIND LOAD: 90 MPH

EXPOSURE: B

lw: 0.87

BUILDING COLORS

| ROOF METAL | DARK BRONZE | WAINSCOT CORNER | DARK BRONZE |
|---------------|--------------|-----------------|--------------|
| GABLES | TAUPE | WAINSCOT CAP | DARK BRONZE |
| SIDES | TAUPE | CORNER | TAUPE |
| WAINSCOT | DARK BRONZE | EAVE/FASCIA | DARK BRONZE |
| SOFFIT | DARK BRONZE | GABLE/RAKE | DARK BRONZE |
| RIDGE CAP | DARK BRONZE | DOOR TRIM | TAUPE |
| PORCH CEILING | DARK BRONZE | PORCH J-TRIM | BRIGHT WHITE |
| COLUMNS | BRIGHT WHITE | PORCH FASCIA | DARK BRONZE |

- 1. SITEWORK: THE SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING.
- 2. BACK FILL: BACK FILL SHALL CONSIST OF GRAVEL, PEAROCK OR CRUSHED STONE 2 FOOT BACK FROM PANEL/FOUNDATION WALL. GRANULAR BACKFILL TO START AT OR BELOW BOTTOM OF FOOTING & EXTEND VERTICALLY TO WITHIN 8" OF GRADE. COVER GRANULAR MATERIAL W/ ASPHALT OR POLYETHYLENE STRIPS PRIOR TO ADDING 8" OF TOP SOIL SLOPE AWAY FROM WALL ½" PER FOOT MIN. 6' FROM WALL.
- 3. CONCRETE WORK: THE CONCRETE WORK SHALL CONSIST OF ALL NECESSARY POUR-IN-PLACE CONCRETE FOOTINGS (OR FOUNDATION) AS PER BUILDING PLANS DESIGNED BY OTHERS THE CONCRETE SHALL MEET A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS. ALL CONCRETE SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05) AND COMMENTARY (ACI 318R-05).
- 4. WOOD FRAMING: ALL WOOD CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF THE 2005 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. UNLESS NOTED OTHERWISE ALL FRAMING LUMBER SHALL BE SPF#2 GRADE.
- 5. TRUSSES: WOOD TRUSSES ARE SHOP/PLANT FABRICATED WITH CONNECTOR PLATES PER SPECIFICATIONS. DESIGN CRITERIA ESTABLISHED BY THE TRUSS PLATE INSTITUTE (ANSI/TPI 1-2002). REFER TO THE BCSI(BUILDING COMPONENT SAFETY INFORMATION) MANUAL FOR WOOD TRUSS TEMPORARY BRACING REQUIREMENTS.
- 6. METAL CONNECTORS: ALL METAL CONNECTORS ARE OF GALVANIZED STEEL AND DESIGN APPROVED TO MEET OR EXCEED REQUIRED STANDARDS.
- 7. ROOFING AND SIDING MATERIAL: THE METAL ROOF AND WALLS SHALL BE EPS FULL FORMED PANEL. THE RIBBED DESIGN HAS \$\frac{3}{4}\text{"} HIGH PRIMARY RIBS 9" O.C. FOR BEAM STRENGTH AND 2 INTERMEDIATE LOW RIBS 3" O.C. FOR ADDITIONAL STIFFENING. THE EPS ROLL FORM PANEL IS MANUFACTURED TO ASTM SPECS. W/ AN 80,000 PSI MIN. YIELD POINT AND AN 82,000 PSI MINIMUM TENSILE STRENGTH. A FOUR-LAYER COLOR-CLAD PROCESS INCLUDES G-60 GALVANIZED ZINC COATING, BONDERIZED COATING, BAKED ON PRIMER COATING, AND A SILICONIZED POLYESTER (WHITE IS POLYESTER ONLY) BAKED-ON PAINT FINISH.
- 8. FASTENERS: ALL ROOF AND WALL METAL SHEATHING SHALL BE FASTENED TO THE BUILDING STRUCTURE W/ TRUE-GRIP SCREWS W/ MILL POINT AND HEX HEAD. THE SCREWS SHALL HAVE A EPDM RUBBER WASHER TO ENSURE WEATHER TIGHTNESS.
- 9. SHORING AND BRACING: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING.



ENERGY PANEL STRUCTURES 102 EAST INDUSTRIAL PARK GRAETTINGER, IA 51342 PHONE: 712/859-3219 FAX: 712/859-3275 WWW.EPSBUILDINGS.COM

- * THIS SET OF PLANS ARE INTENDED TO BE USED BY CONTRACTORS WITH BUILDING CONSTRUCTION KNOWLEDGE.
- * ENERGY PANEL STRUCTURES CAN NOT BE HELD RESPONSIBLE FOR MISUSE OR MISINTERPRETATION OF INFORMATION INCLUDED IN THESE DRAWINGS, OR THE USE OF THIS SET OF PLANS BY PEOPLE WITHOUT BUILDING CONSTRUCTION KNOWLEDGE.
- * SIP PANEL WALL CONSTRUCTION BUILDINGS ARE DESIGNED FOR MINIMAL AIR INFILTRATION. IT IS RECOMMENDED THAT GENERAL CONTRACTOR/OWNER WORKS IN CONJUNCTION WITH A HVAC PROFESSIONAL TO DESIGN A SYSTEM TO INSURE AIR QUALITY AND MOISTURE CONTROL. AIR TO AIR EXCHANGERS ARE RECOMMENDED IN SUCH TYPE STRUCTURES.
- * RESPONSIBILITY OF THIS SET OF PLANS IS LIMITED TO THE BUILDING DESIGN SHOWN ON THE PLANS. BUILDING DESIGN IS BASED ON NUMBER, SIZE AND LOCATION OF OPENINGS SHOWN ON THE PLANS. NO RESPONSIBILITY IS ASSUMED FOR ADDITIONAL OPENINGS NOT SHOWN ON THE PLANS OR CHANGES IN THE LOCATION OF OPENINGS.
- * ALL DOOR AND WINDOW OPENINGS SHOWN ON THIS SET OF PLANS ARE THE ACTUAL SIZE OF THE OPENING PROVIDED. IT IS THE GENERAL CONTRACTOR/OWNER'S RESPONSIBILITY TO VERIFY ALL LOCATIONS AND SIZES OF OPENINGS PRIOR TO CONSTRUCTION.
- * EPS WALL PANELS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY CONCRETE FOUNDATION WALLS.

 CONCRETE WALLS TO E DESIGNED TO ABSORB ALL LOADS IMPOSED BY EPS STRUCTURE 100% OF

 MATERIAL/BACKFILL/ETC (IF ANY) STORED AGAINST THEM. CONCRETE WALL TO IMPOSE NO HORIZONTAL LOAD TO

 EPS STRUCTURE.
- * THIS BUILDING IS DESIGNED USING THE ROOF AS A DIAPHRAGM(DEEP THIN BEAM) TO TRANSFER SIDEWALL AND ROOF WIND LOADS TO THE ENDWALL SHEAR WALLS SHOWN. STEEL PANELS ARE AN INTEGRAL PART OF THE BUILDING STRUCTURE AND ANY FUTURE FIELD MODIFICATIONS MADE MAY BE DETRIMENTAL TO THE BUILDING'S STRUCTURAL PERFORMANCE.
- * THIS IS A STRUCTURAL FRAMING PLAN AND IS TO BE USED FOR THAT PURPOSE ONLY, CODES REGARDING FIRE SAFTEY, PERSONAL SAFTEY & INJURY ARE NOT ADDRESSED IN THIS SET OF PLANS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR/OWNER.
- * THE ATTIC OF THIS STRUCTURE MUST BE PROPERLY VENTILATED. CONSULT ON HVAC ENGINEER FOR PROPER SIZING OF EAVE INLETS, RIDGE OPENINGS, END WALL LOUVERS, OR MECHANICAL SYSTEMS. FAILURE TO PROPERLY VENTILATE THE ATTIC MAY CAUSE PARTITION SEPARATE AT ROOF/CEILING, CONDENSATION ON ROOF MATERIALS, LARGER AIR CONDITIONING LOAD, MOLD OR MILDEW, CORROSION OF TRUSS PLATES, PREMATURE DEGRADATION OF STRUCTURAL BUILDING COMPONENTS.
- * THE CEILING SYSTEM PROVIDED HAS NOT BEEN DESIGNED FOR HUMAN TRAFFIC. <u>CONTRACTORS</u> IT IS YOUR RESPONSIBILITY TO WARN OTHER TRADERS.

- * TO MINIMIZE THE POSSIBILITY OF FASTENER POPPING AND CRACKING IN AREAS ADJACENT TO A WALL AND CEILING INTERSECTION, A FLOATING GYPSUM CORNER ANGLE METHOD OF APPLICATION SHOULD BE USED. PLEASE REFER TO THE GYPSUM ASSOCIATION'S SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM PANEL PRODUCTS.
- * THERE MAY BE SOME "BOWING" OF EXTERIOR STRUCTURAL INSULATED PANELS DUE TO A TEMPERATURE AND MOISTURE DIFFERENTIAL BETWEEN INTERIOR AND EXTERIOR OSB SKINS. WHEN THE EXTERIOR SKIN EXPERIENCES COLD TEMPERATURE, ITS MOISTURE CONTENT RISES, WHICH CAUSES THE EXTERIOR SKIN TO EXPAND. THIS MAY CAUSE THE PANEL TO BOW OUT. TO MINIMIZE THE EFFECT, YOU MAY WANT TO CONSIDER.
- A.) HIDE THE "BOW" BY USING FLOATING CORNERS ON THE INTERIOR GYPSUM BOARD.

 B.) MECHANICALLY FASTENING ONE STRUCTURAL INSULATED PANEL TO THE CROSS WALLS. THE CROSS WALLS WALL WILL HAVE TO BE DESIGNED TO RESIST FORCES OF THE BOW, AS WILL THE MECHANICAL FASTENERS.
- * THE INTERIOR OF THIS STRUCTURE IS SEPARATED FROM THE FOAM PLASTIC INSULATION
 WITH A MINIMUM 5%" THICK MATERIAL, TESTED PER ASTM METHOD E119-98 FIRE TESTS
 OF BUILDING CONSTRUCTION AND MATERIALS FOR A MINIMUM 15 MINUTE THERMAL BARRIER REQUIRED

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| В1 | TRUSS INSTALLATION |
| В3 | TRUSS INSTALLATION |
| B10 | TRUSS INSTALLATION |
| | |

GENERAL INFORMATION

DEALER:

QUAIL CONSTRUCTION
4045 HWY 71
SPENCER, IA 51301
PHONE: (712) 580-5100

FAX: (712) 580-5101

OWNER:

TIM STRAUB PETERSON, IA

BUILDING

TYPE:

SOLID CORE

BUILDING USAGE:

STORAGE

BUILDING

DIMENSIONS:

60-0"x80-0"x19-11"

AREA:

4,800 SQ. FT.

DRAWN:

DMM

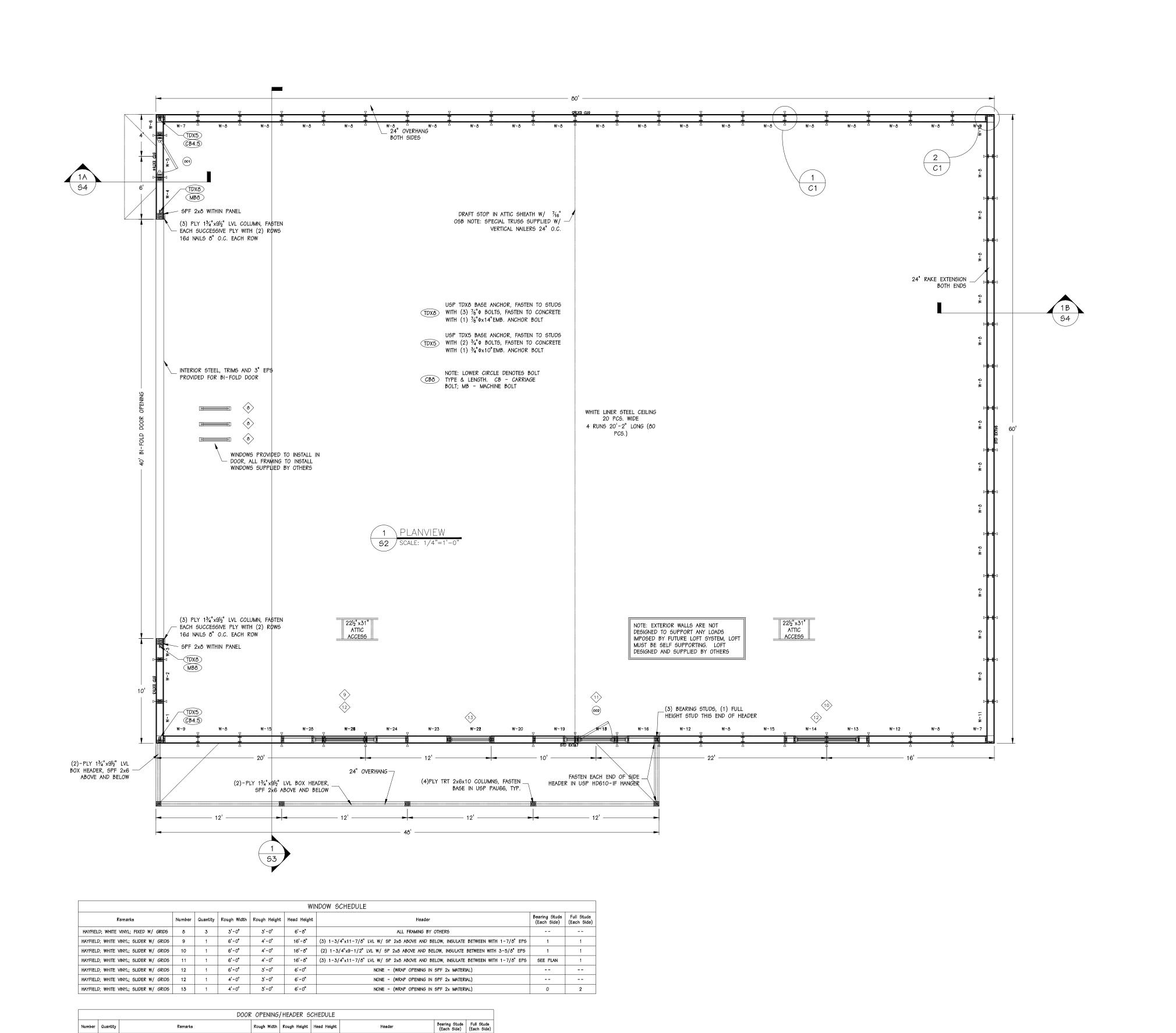
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DATE: 4/26/2011

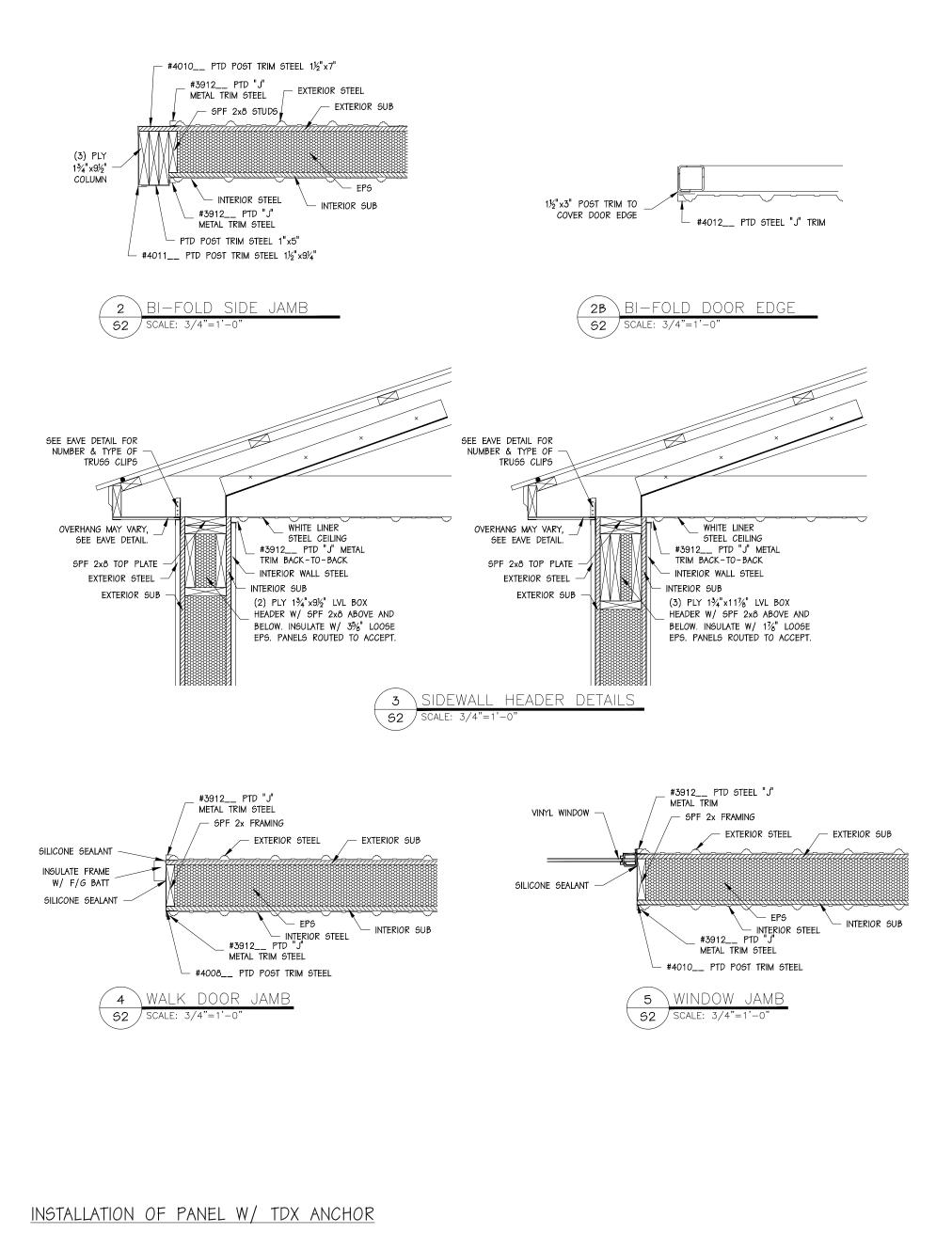
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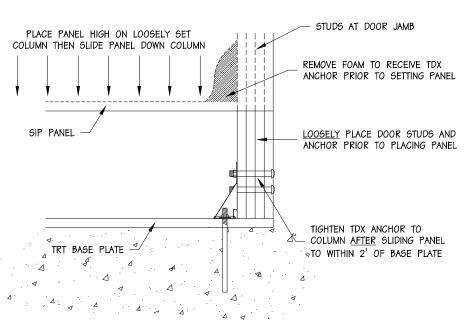
JOB #:

2011/WS/74663



001 1 AJ 7100 WHITE; 22x36 9-LITE; BRUGHED CHROME KEYED LEVER 3'-4 3/8" 6'-9 1/8" 5'-9 1/8" NONE - (WRAP OPENING IN 6PF 2x MATERIAL)

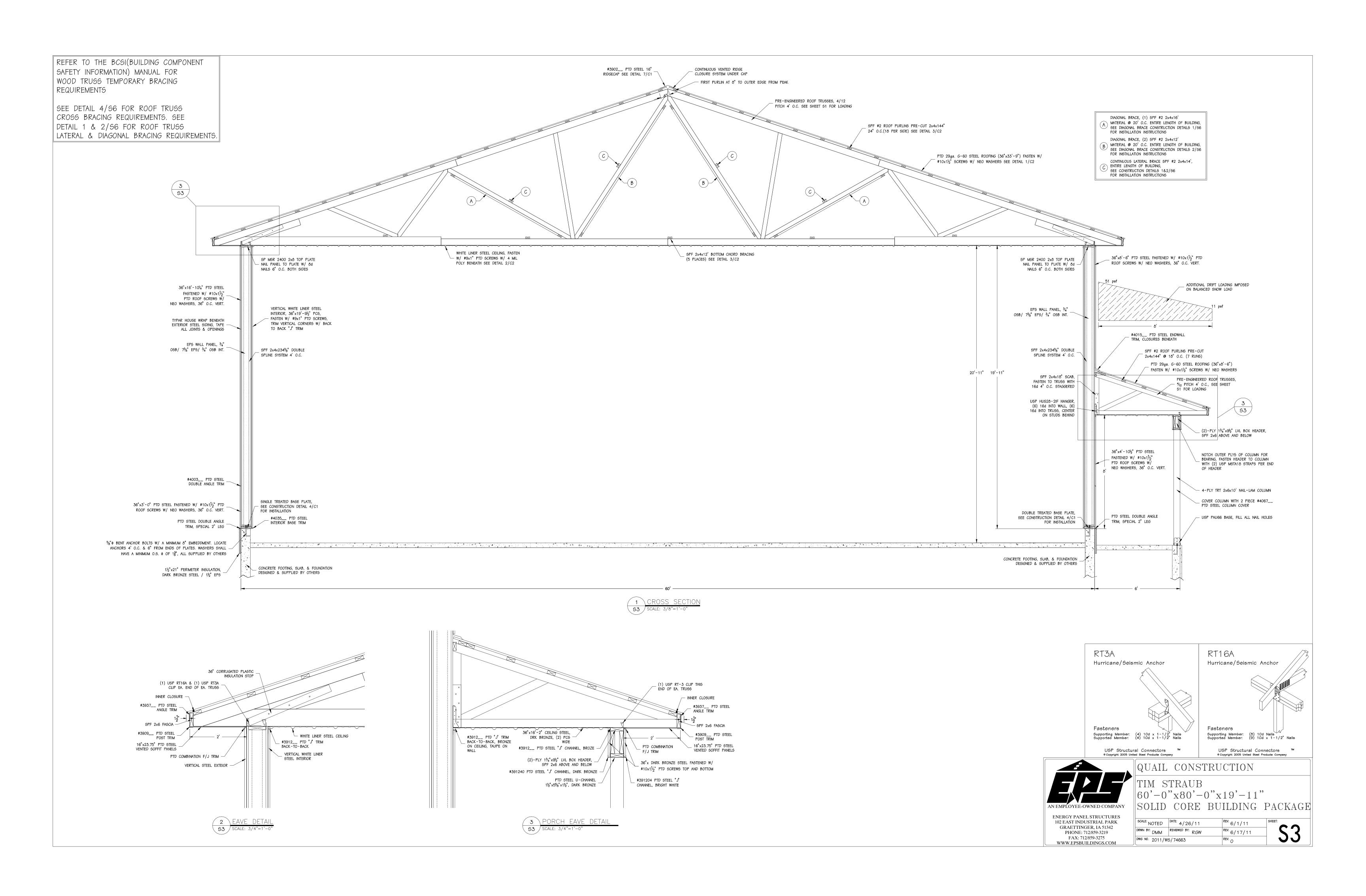


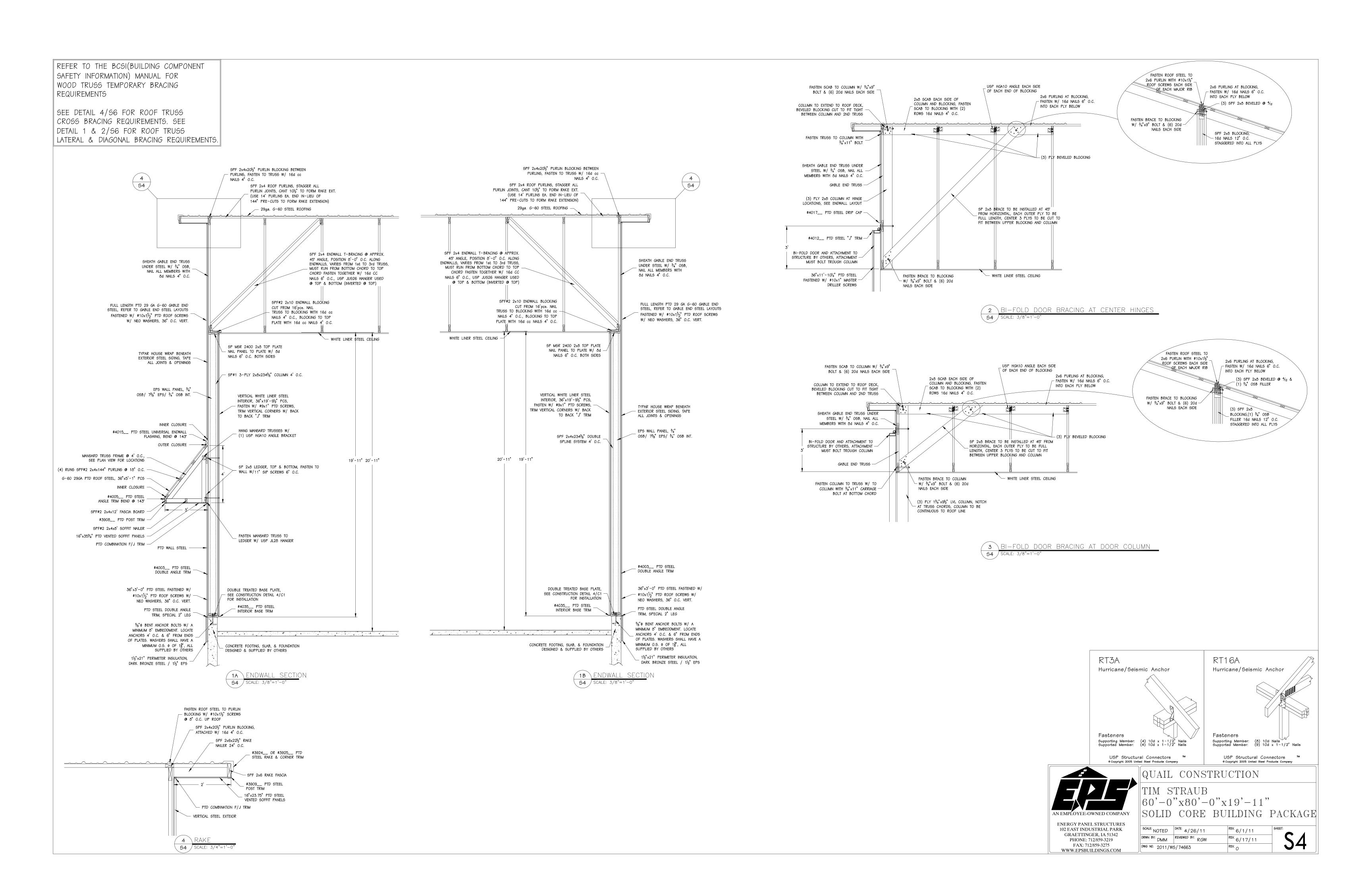


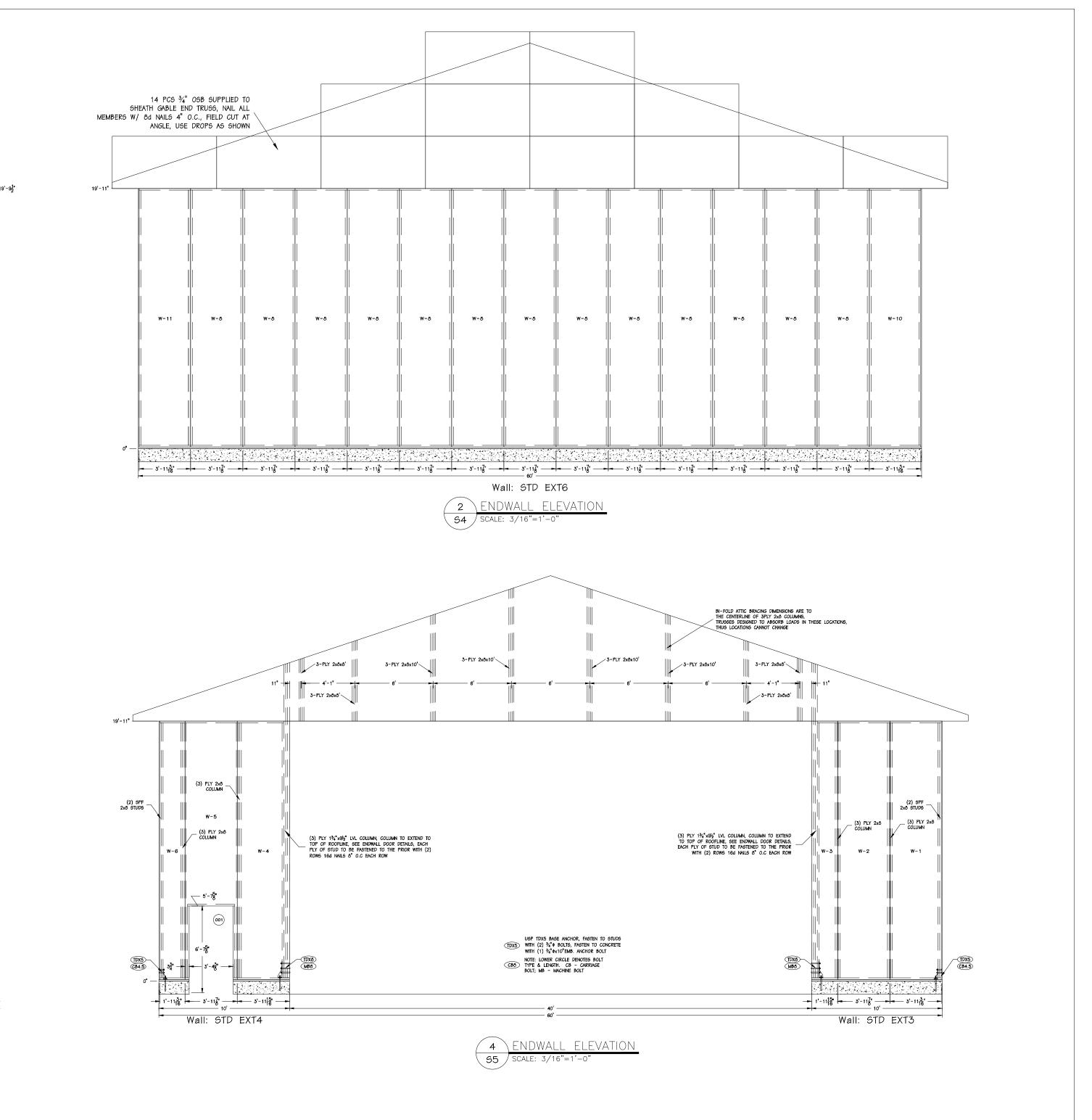
6 SUGGESTED TDX INSTALLATION 62 SCALE: NONE

| | QUAIL | COI |
|--|-------------------------|--------------|
| AN EMPLOYEE-OWNED COMPANY | TIM S 60'-0 SOLID | "x80 |
| ENERGY PANEL STRUCTURES | | |
| 102 EAST INDUSTRIAL PARK | SCALE: NOTED | DATE: 4/26 |
| GRAETTINGER, IA 51342 PHONE: 712/859-3219 | DRWN BY: DMM | REVIEWED BY: |
| FAX: 712/859-3275 WWW.EPSBUILDINGS.COM | DWG NO. 2011/WS | 6/74663 |
| | | |

| QUAIL | CONSTRU | CTION | |
|--------------|-----------------------------|--------------------|---------|
| | TRAUB | -10' 11'' | |
| SOLID | "x80'-0"x CORE BU | II9 – II ILDING | PACKAGI |
| SCALE: NOTED | DATE: 4/26/11 REVIEWED BY: | REV. 6/1/11 | SHEET: |
| DMM | RGW | REV. 6/17/11 | |







QUAIL CONSTRUCTION

TIM STRAUB 60'-0"x80'-0"x19'-11"

GCALE: NOTED DATE: 4/26/11

DRWN BY: DMM REVIEWED BY: RGW

DWG NO. 2011/WS/74663

ENERGY PANEL STRUCTURES

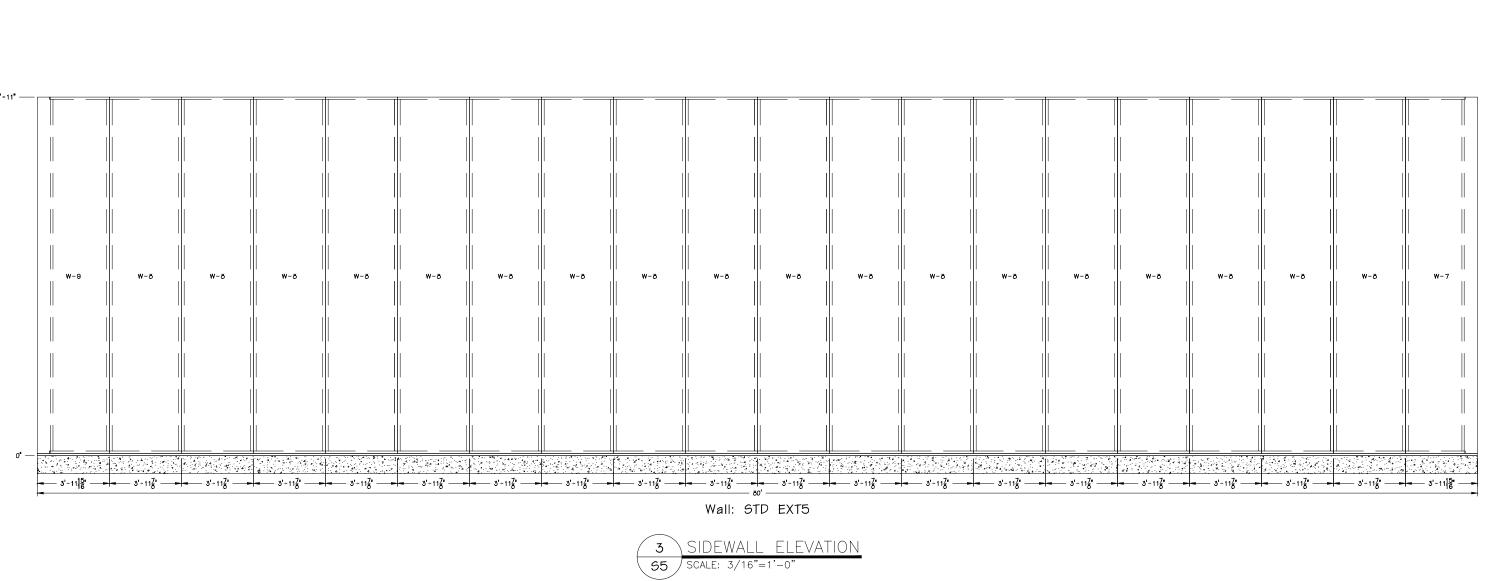
102 EAST INDUSTRIAL PARK

GRAETTINGER, IA 51342

PHONE: 712/859-3219 FAX: 712/859-3275 WWW.EPSBUILDINGS.COM SOLID CORE BUILDING PACKAGE

REV. 6/1/11

REV. 6/17/11



(3) BEARING STUDS & (1) FULL — STUD THIS END OF HEADER

W-18

 $\langle 11 \rangle$

W-17

W-12

w-8

W-15

W-14

W-8

W-12

W-13

12'-62"

FINISH CUTTING
OPENING IN FIELD,
ROUT EPS 1½",
FRAME OPENING
W/ SPF 2x
MATERIAL

| 3'-48' | 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118' | -| 3'-118'

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W-23

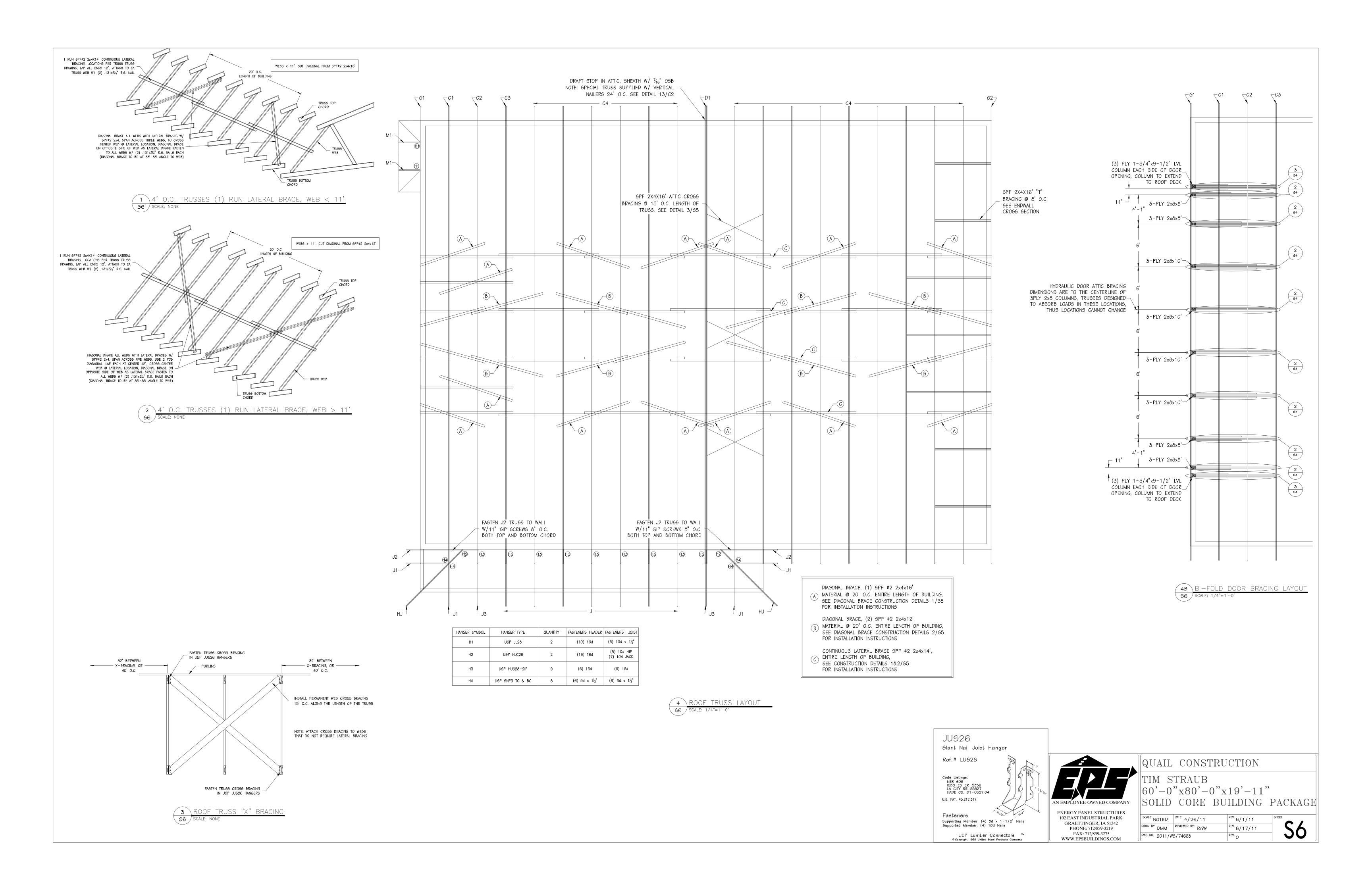
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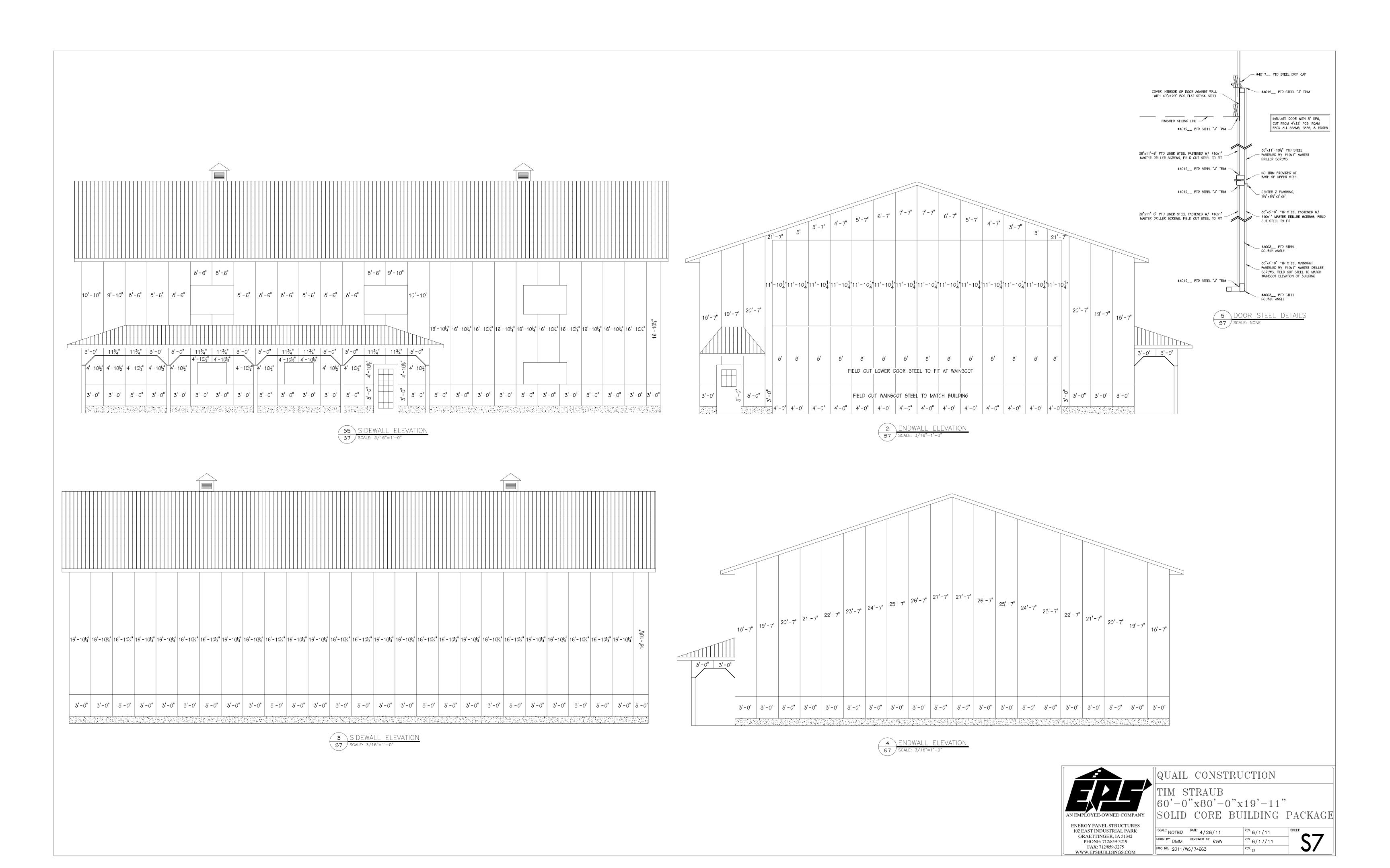
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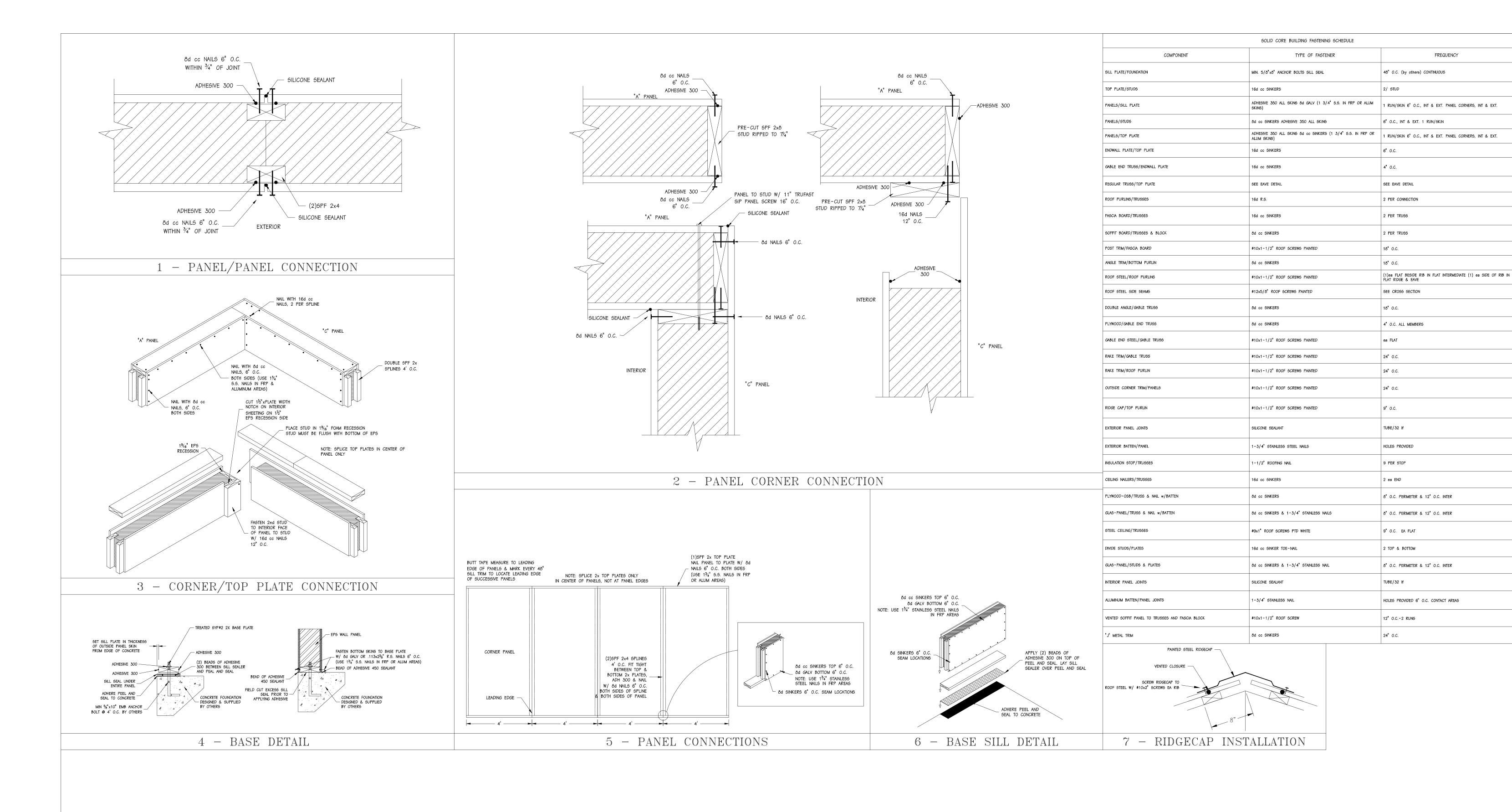
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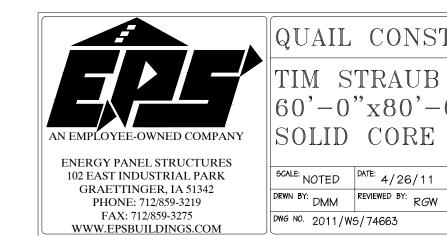
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W-28







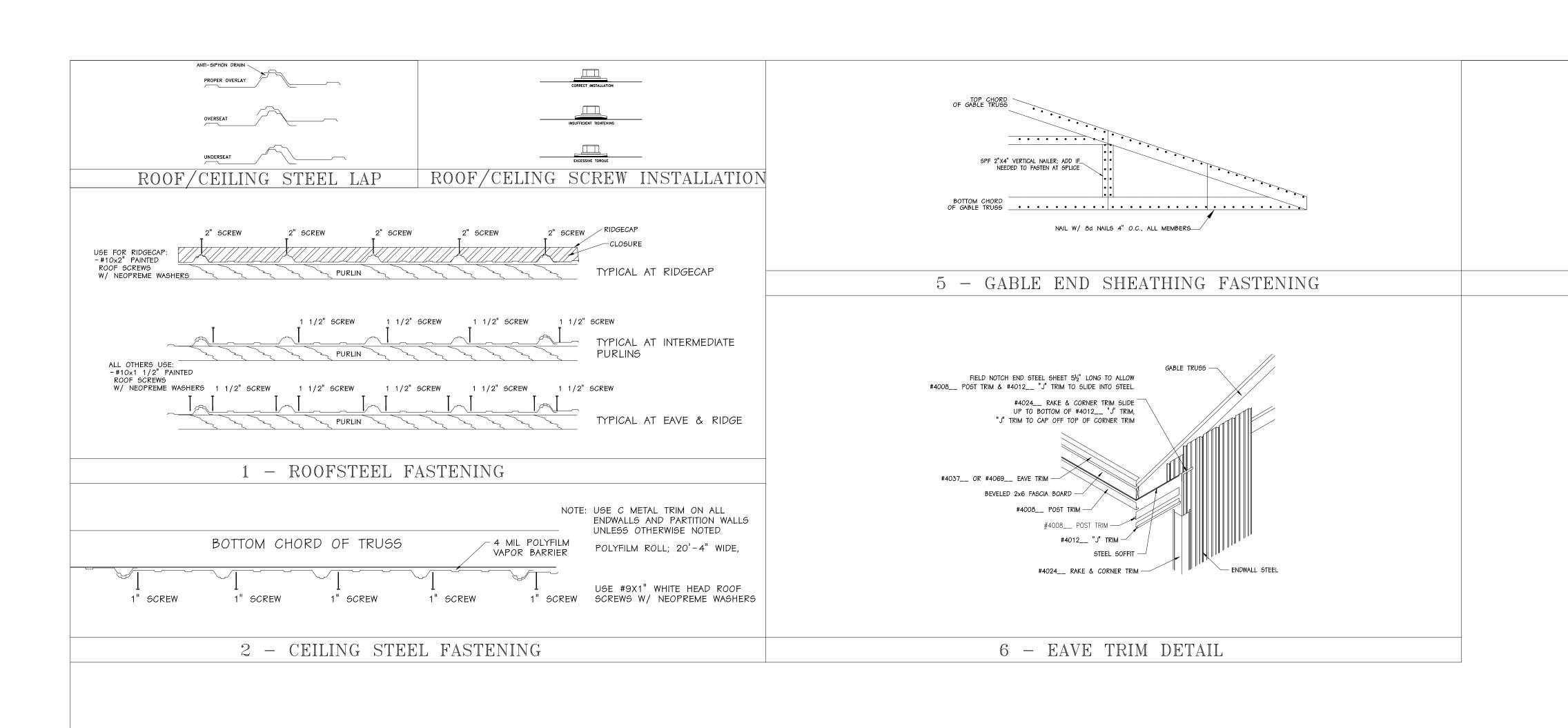


QUAIL CONSTRUCTION

TIM STRAUB
60'-0"x80'-0"x19'-11"
SOLID CORE BUILDING PACKAGE

6CALE: NOTED DATE: 4/26/11 REV. 6/1/11

REV. 6/17/11





DRWN BY: DMM REVIEWED BY: RGW

DWG NO. 2011/WS/74663

REV. 6/17/11

GRAETTINGER, IA 51342

PHONE: 712/859-3219

FAX: 712/859-3275

WWW.EPSBUILDINGS.COM

AT FOUNDATION CORNER; NOTCH

CORNER & FASTEN BEND INSULATION AROUND

FOUNDATION / 45° WEDGE IN EPS

ALIGN ONE EDGE OF NOTCHED /
TRT SILL PLATE EPS W/ CONCR & FASTEN

NOTE: INSTALL PERIMETER INSULATION BEFOR SETTING SILL PLATE

_ 3" NYLON DRIVE

► ADHESIVE 300

FOUNDATION RIVET 4pcs./10'pcs.

TRT 2x SILL PLATE ADHESIVE 300

SET SILL PLATE IN THICKNESS OF OUTSIDE PANEL SKIN — FROM EDGE OF CONCRETE DRILL THROUGH INSUL & CONCRETE;

REMOVE NYLON NAIL, & REPLACE W/

10 - PERIMETER INSULATION DETAILS

