# ARCHITECTURAL DETAIL DRAWINGS

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**NOTE:**

THE FASTENING DETAILS SHOWN HERE ARE GENERAL REQUIREMENTS. SEE SPECIFIC PANEL DRAWINGS FOR ANY ADDITIONAL OR SPECIAL FASTENING REQUIREMENTS.
FASTENER 4" O.C. INTERIOR AND EXTERIOR. 8D NAIL OR 1 1/2" 16G WIDE CROWN STAPLE

1/2"X1/2" GASKET

END VIEW
(TYPICAL STRUCTURAL & TIMBER)
FASTENER 4" D.C. INTERIOR
AND EXTERIOR. 8d NAIL OR
1 1/2" 16G WIDE CROWN
STAPLE

1/2" X 1/2"

IF NECESSARY DRILL
SMALL HOLE TO IN FILL
JOINT WITH CAN FOAM TO
ASSURE GOOD SEAL

END VIEW
(TYPICAL STRUCTURAL & TIMBER)
WALL PANEL TO PANEL CONNECTION

END VIEW
(TYPICAL STRUCTURAL & TIMBER)

FASTENER 4" O.C. INTERIOR AND EXTERIOR.
8d NAIL OR 1 1/2" 16G WIDE CROWN STAPLE

1/2"X1/2" GASKET

CUTTING PLATE FACTORY INSTALLED WITH 16d, 8" O.C.
NOTES:
- FILL ANY GAPS IN PANEL JOINT WITH FOAM.
- INSTALL RIDGE VENT ON PITCH <12/12.
TYPICAL STRUCTURAL DETAILS

FIRST FLOOR CONNECTION
SIDE MOUNT, (WRAP FLOOR)

NOTE:
DRILL THROUGH BAND JOIST TO ACCESS ELECTRICAL BOX

3/4" VERTICAL CONDUIT FEED
CONTINUOUS SILL PLATE SUPPLIED WITH PANELS FASTENED PER CODE
1/2" FROM OUTSIDE EDGE OF SUBFLOOR

4X4 ACCESS BOX

6" PANEL SCREW
16" ON CENTER

FASTENER 4" D.C.
INTERIOR AND EXTERIOR
5D NAIL OR 1 1/2" 16G
WIDE CROWN STAPLE

1/2" X 1/2" GASKET

TREATED PLATE
BY OTHERS

1/2" ANCH. BOLT
ACCORDING TO CODE

NOTE:
TREAT SILL AND FOUNDATION WITH INSECTICIDE.

R&R AND FLOOR JOIST BY OTHERS

TERMITE SHIELD AND SILL SEALER BY OTHERS

FOUNDATION WALL BY OTHERS
TYPICAL STRUCTURAL DETAILS

FIRST FLOOR CONNECTION

FLOOR DECK MOUNT

3/4" VERTICAL CONDUIT FEED

FASTENER 4" O.C.
INTERIOR AND EXTERIOR,
8d NAIL OR 1 1/2" 16G
WIDE CROWN STAPLE

CONTINUOUS SILL PLATE SUPPLIED
WITH PANELS FASTENED PER CODE
1/2" FROM OUTSIDE EDGE OF
SUBFLOOR

1/2"X1/2" GASKET
FLEXIBLE CONDUIT NIPPLE
(SITE DRILL & INSTALL)
TERMITE SHIELD
BY OTHERS

SILL/SILL SEALER AND
SUB FLOOR BY OTHERS

FOUNDATION WALL BY OTHERS

NOTE:
TREAT SILL AND FOUNDATION WITH
INSECTICIDE, BOTH SKINS TO BARE
ON SUB FLOOR IN STRUCTURAL
APPLICATIONS.
FIRST FLOOR CONNECTION
CONCRETE SLAB MOUNT

NOTE:
TREAT SILL AND FOUNDATION WITH INSECTICIDE.
SECOND FLOOR CONNECTION
PLATFORM FRAMING

NOTE:
FIELD INSTALLED TOP PLATE SHALL STAGER OVER PANEL JOINT.

FIELD INSTALLED TOP PLATE FASTENED WITH 16d NAILS (2) 6" O.C. (OPTIONAL DESIGN AS REQ'D)

FASTEN JOIST TO TOP PLATE OF PANEL WITH (3) 8d TOE NAILS. (OPTIONAL DESIGN AS REQ'D)

FIELD INSTALLED TOP PLATE

CONTINUOUS SILL PLATE SUPPLIED WITH PANELS FASTENED PER CODE 1/2" FROM OUTSIDE EDGE OF SUBFLOOR

1/2" X 1/2" GASKET

FIELD INSTALLED TOP PLATE

1/2" O.C.
INTERIOR AND EXTERIOR,EV
8d NAIL OR 1 1/2" 16G
WIDE CROWN STAPLE
SECOND FLOOR CONNECTION

TOP MOUNT FLOOR JOIST HANGER

NOTE:
ATTACH JOIST HANGER'S PER MANUFACTURERS RECOMMENDATION'S

FASTENER 4" O.C.
INTERIOR AND EXTERIOR
8D NAIL OR 1 1/2" 16G
WIDE CROWN STAPLE

FACTORY INSTALLED
TOP PLATE

1/2" X 1/2" GASKET

NAIL FLOOR PLATE TO
SHEATHING EVERY 12"
WITH 16d NAIL'S

EXTEND SHEATHING TO EXT.
FACE OF PANEL. ATTACH TO
TOP PLATE USING 2 EA-1/4"
BEAD OF CONSTRUCTION
ADHESIVE AND 1 1/2" # 8
DRYWALL SCREW'S 16" O.C.
(OR EQUIVALENT)

TOP MOUNT FLOOR JOIST
HANGERS BY OTHERS
SECOND FLOOR CONNECTION

BALLOON FRAMING, LEDGER ATTACHMENT

FLOOR SHEATHING SHALL BE ATTACHED TO LEDGER WITH A SINGLE 1/4" DIA. BEAD OF CONSTRUCTION ADHESIVE AND SCREWED USING 2" DECK SCREWS EVERY 6"

4X4 ELECT. ACCESS BOX CENTERED IN MOLDED IN NAILER

FACTORY MOLDED 2X NAILER

1/2"X1/2" GASKET

LEDDER SHALL BE GLUED AND SCREWED GLUED CONSTRUCTION ADHESIVE, 1/4" DIA. BEADS SPACED 2" APART, SCREW #10 CABINET SCREWS X 3.5" LONG USING 6" ALTERNATING PATTERN
NOTE:
ALL JOIST HANGER FASTENERS MUST
PENETRATE 1 1/2” PAST OSB SKINS. FOLLOW
ALL MANUFACTURERS RECOMMENDATIONS FOR
FASTENING JOISTS AND JOIST HANGERS.
WALL CORNER CONNECTION

6" PANEL FASTENER 16" ON CENTER START 2" FROM TOP

1/2" X 1/2" GASKET

FILL GAP WITH CAN FOAM

MOLDED IN 2X PLATE
TYPICAL WALL SECTION

NOTE:
FIELD INSTALLED TOP PLATE SHALL STAGER OVER PANEL JOINT.
TOP PLATE CONNECTION @ CORNER

SECTION

0" PANEL SCREW
16" ON CENTER

FILL GAP WITH CAN FOAM

1/2" X 1/2" GASKET

PLAN

NAIL TOP PLATE TO 2X MOLDED IN PANEL WITH 16D NAILS (3)
8" PANEL SCREW WITH 2" PANEL WASHERS @ 16" O.C. INTO TOP PLATE OF WALL

THERMOCORE ROOF PANEL TYPICAL

1/2"X1/2" GASKET

FACTORY MOLDED 2X

FILL ANY GAP WITH CAN FOAM

FACTORY MOLDED IN TOP PLATE

THERMOCORE WALL PANEL TYPICAL
8" PANEL SCREW WITH 2"
PANEL WASHER @ 16" O.C.
INTO TOP PLATE OF WALL

FACTORY MOLDED
2X MATERIAL

1/2" X 1/2" GASKET

FACTORY MOLDED
IN TOP PLATE

FILL ANY GAP
WITH CAN FOAM

THERMOCORE ROOF
PANEL TYPICAL

THERMOCORE WALL
PANEL TYPICAL
NOTE:
BE SURE ALL PANEL SCREWS PENETRATE NAILERS

PANEL SCREW WITH 2” PANEL WASHER @ 16” O.C. ALONG NAILER

DORMER RIDGE OR SHED ROOF

FILL ANY GAP WITH CAN FOAM

MAIN ROOF

2X NAILER FACTORY MOLDED TO OUTSIDE SKIN

1/2” X 1” GASKET
NOTE:
STRUCTURAL SUPPORT MEMBERS MAX. OF 6'-0" FROM CENTER OF RIDGE SUPPORT MEMBERS RUN PARALLEL TO RIDGE.
RIDGE (12/12 ROOF SLOPE)

8" PANEL SCREW WITH 2" PANEL WASHER @ 16" O.C.

FACTORY MOLDED 2X FLUSH WITH PANEL

BEAD CAN FOAM AS NEEDED

1/2"X 1" GASKET

ROOF PANEL TYPICAL

* RIDGE BEAM REQUIRED PER ENGINEERS SPECIFICATIONS, BY OTHERS

12/12 PITCH

NOTE:
STRUCTURAL SUPPORT MEMBERS MAX. OF 6"-O" FROM CENTER OF RIDGE SUPPORT MEMBERS RUN PARALLEL TO RIDGE.
TYPICAL STRUCTURAL DETAILS

MID SPAN ROOF FASTENING

NOTE:
PANEL MUST BARE 3" MIN. ON SUPPORT BEAM.
WALL AT ROOF TRUSS

PRE-ENGINEERED ROOF TRUSSES, BY OTHERS

CONNECTION OF ROOF TRUSSES TO PANELS AS DESIGNED BY OTHERS

FIELD INSTALLED TOP PLATE, FASTEN WITH 16d NAILS (2) 6" O.C. (OPTIONAL, DESIGN AS REQ'D)

FACTORY MOLDED IN TOP PLATE

THERMOCORE WALL PANEL TYPICAL
TYPICAL STRUCTURAL DETAILS

POST POCKET IN PANEL

TOP VIEW

OUTSIDE

INSIDE

OUTSIDE OSB SKIN

MOLDED IN 2X

CONTINUOUS FACTORY SUPPLIED BOTTOM PLATE FASTENED WITH 16d NAILS AT 16" O.C. INTO FLOOR JOIST.
TOP VIEW

OUTSIDE

INSIDE

MOLDED IN 2X

OUTSIDE OSB SKIN

OUTSIDE OSB SKIN

STRUCTURAL SUPPORT MOLDED IN PANEL SIZED BY ENGINEER

NOTE:
BEAMS MAY PASS THROUGH PANEL.
BEAM SIZE AND FASTENING TO BE DETERMINED BY OTHERS

CONTINUOUS FACTORY SUPPLIED BOTTOM PLATE FASTENED WITH 10d NAILS AT 16" O.C. INTO FLOOR JOIST.
TYPICAL STRUCTURAL DETAILS

OPENING WITH HEADER

DETAIL A

LUMBER HEADER

WINDOW OPENING

KING POST

CRIPPLES

GROOVE FOR SILL PLATE,
SEE FIRST FLOOR CONNECTION DETAILS

DETAIL B

1/2" X 1/2" GASKET

INTERIOR

EXTERIOR

CRIPPLES

KING STUD

NAIL 2X TO FACE OF CRIPPLE
TO CREATE TONGUE THAT
INSERTS INTO GROOVE OF PANEL
SECTION BELOW WINDOW OPENING
FACTORY MOLDED IN R.O.

FACTORY MOLDED IN GROOVE

FOUNDATION STRAPPING PER LOCAL CODE
STRAPPING BY OTHERS

NOTE:
~ATTACHED TO FOUNDATION PER LOCAL CODE.
~SHEAR WALLS ARE DESIGNED AND LOCATED BY OTHERS
FIRST FLOOR CONNECTION

FLOOR DECK MOUNT

1/2" x 1/2" GASKET

FLEXIBLE CONDUIT NIPPLE
(SITE DRILL & INSTALL)

TERMITE SHIELD
BY OTHERS

5/8" x 2" DRYWALL SPACER
(OPTIONAL) BY OTHERS

3/4" VERTICAL CONDUIT FEED

CONTINUOUS SILL PLATE
SUPPLIED WITH PANELS
FASTENED PER CODE 1/2"
FROM OUTSIDE EDGE OF
SUBFLOOR

FOUNDATION WALL
BY OTHERS

SILL/SILL SEALER
AND SUB FLOOR BY OTHERS

NOTE:
TREAT SILL AND FOUNDATION
WITH INSECTICIDE.
TYPICAL TIMBERFRAME DETAILS

FIRST FLOOR CONNECTION
SIDE MOUNT, (WRAP FLOOR)

NOTE:
DRILL THROUGH BAND JOIST TO ACCESS ELECTRICAL BOX

5/8" x 2" DRYWALL SPACER (OPTIONAL) BY OTHERS

3/4" VERTICAL CONDUIT FEED

4" X 4" ACCESS BOX

RIW AND FLOOR JOIST BY OTHERS

TERMITE SHIELD AND SILL SEALER BY OTHERS

FOUNDATION WALL BY OTHERS

NOTE:
TREAT SILL AND FOUNDATION WITH INSECTICIDE.
NOTE:
Panel fastener should penetrate through spacer.
TYPICAL TIMBERFRAME DETAILS

INSIDE WALL CORNER CONNECTION

PLAN VIEW AT INSIDE CORNER

SECTION VIEW A

THERMOCORE WALL PANEL

PANEL FASTENER 16" O/C
START 2" FROM TOP OF PANEL

TIMBERFRAME BY OTHERS

MOLDED IN 2X SUPPLIED BY FACTORY
DRYWALL SPACE

THERMOCORE WALL PANEL

5/8"x2" DRYWALL SPACER (OPTIONAL) BY OTHERS
FASTEN PANEL WITH 9” PANEL SCREW AND 2” PANEL WASHER @ 16” O.C. IN ALL TIMBER’S.

INTERIOR FINISH (TYP.) BY OTHERS

FACTORY MOLDED 2X MATERIAL

THERMCORE ROOF PANEL

5/8” DRYWALL SPACER (OPTIONAL) BY OTHERS

CAN FOAM BEAD AS NEEDED

1/2” X 1” GASKET

THERMCORE WALL PANEL

NOTE:
FOR PANEL’S OVER 2X INTERIOR FINISH MATERIAL USE 10” PANEL SCREW
9" PANEL FASTENER
AND 2" PANEL WASHER
Ø 1/8" D.C. INTO
TIMBER FOR BOTH PANELS.

INTERIOR FINISH (TYP.)
BY OTHERS

BEAD OF CAN FOAM PRIOR
TO INSTALL.

THERMOCORE
ROOF PANEL

VALLEY RAFTER BY OTHERS

1/2"X 1" GASKET

NOTE:
FOR PANEL'S OVER 2X INTERIOR FINISH
MATERIAL USE 10" PANEL SCREW
TYPICAL TIMBERFRAME DETAILS T-7

RIDGE (LESS THAN 12/12 ROOF SLOPE)

NOTE:
FOR PANEL’S OVER 2X INTERIOR FINISH
MATERIAL USE 10” PANEL SCREW
RIDGE (12/12 ROOF SLOPE)

12/12 PITCH

NOTE:
FOR PANEL'S OVER 2X INTERIOR FINISH MATERIAL USE 10" PANEL SCREW
NOTE:
ALL COLD ROOF APPLICATION SHALL BE FIELD INSTALLED BY OTHERS.

SECTION A
ROOF PANEL
WALL PANEL
ROOF SHEATHING
2X2 @ 24" O.C.

SECTION B
2X @ 24" O.C.
TYPICAL ROOF DETAILS

COLD ROOF DETAIL, SQUARE EAVE

FACTORY SQUARE 2X EAVE

NOTE:
ALL COLD ROOF APPLICATION SHALL
BE FIELD INSTALLED BY OTHERS.
FACTORY PLUMB EAVE

NOTE:
ALL COLD ROOF APPLICATION SHALL
BE FIELD INSTALLED BY OTHERS.
TYPICAL ROOF DETAILS

VARIOUS FRAMING OPTIONS

RAFT SYSTEM
Panels supported by rafters spanning from the ridge beam to the eave walls.

RIDGE BEAM SYSTEM
Panels supported by the ridge beam and the eave walls.

TRUSS SYSTEM
Panels supported by roof trusses.
PANEL CONNECTION TO STEEL I JOIST

Panels applied to steel I joist with 3/16" thick and less steel flange.

Panels applied to steel I joist with steel flange greater than 3/16".

Steel drill point panel screw w/ 2" panel washer @ 16" o.c. to penetrate steel flange of bar joist.

Thermocore insulated roof panel.

Structural steel bar joist.

Panel screw w/ 2" panel washer @ 16" o.c. into 2x sleeper.

Thermocore insulated roof panel.

2x nailer on bar joist by others.

Structural steel bar joist.
TYPICAL STEEL DETAILS

PANEL CONNECTION TO STEEL GIRT

THERMOCORE WALL PANEL
(MAXIMUM PANEL SIZE 8"WX24"L)

STRUCTURAL STEEL GIRT BY OTHERS MIN. 8" O.C.

STEEL DRILL POINT PANEL
SCREW @ 16" O.C. TO PENETRATE STEEL FLANGE OF GIRT

*PANELS APPLIED TO STEEL GIRT WITH 3/16" THICK OR LESS STEEL FLANGE.

THERMOCORE WALL PANEL
(MAXIMUM PANEL SIZE 8"WX24"L)

STRUCTURAL STEEL GIRT BY OTHERS MIN. 8" O.C.

PANEL SCREW @ 16" O.C. INTO 2X4 SLEEPER

2X4 SLEEPER ATTACHED TO GIRT BY OTHERS

*PANELS APPLIED TO STEEL GIRT WITH STEEL FLANGE GREATER THAN 3/16"
PANEL CAN MOUNT DIRECTLY TO STEEL 3/16" OR LESS IN THICKNESS.

STRUCTURAL STEEL GIRT BY OTHERS MIN. 8' O.C.

THERMOCORE WALL PANEL

STRUCTURAL STEEL I BEAM
TYPICAL STEEL DETAILS

PANEL CONNECTION TO SLAB

WITH 2X NAILERS

1 1/2" SPACE FOR 2X NAILER FOR STEEL GREATER THAN 3/16"

CONTINUOUS BOTTOM PLATE FASTENED PER CODE

P.T. SILL PLATE (BY OTHERS) RIPPLED TO PANEL WIDTH—RIPPLED SIDE FACING INTERIOR FASTENED TO SLAB ACCORDING TO CODE.

1/2" X 1/2" GASKET

1/2" ANCH. BOLT ACCORDING TO CODE

STRUCTURAL STEEL I BEAM

FASTENER 4" O.C. INTERIOR AND EXTERIOR, 8d NAIL OR 1 1/2" 16G WIDE CROWN STAPLE

FOUNDATION DESIGN PER LOCAL CODE, BY OTHERS

NOTE:
TREAT SILL AND FOUNDATION WITH INSECTICIDE.
TYPICAL STEEL DETAILS

PANEL CONNECTION TO SLAB

NO 2X NAILERS

Panel can mount directly to steel if steel is 3/16" & less

Continuous factory bottom plate fastened per code

1/2” X 1/2” gasket

P.T. SILL PLATE (BY OTHERS) RIPPED TO PANEL WIDTH - RIPPED SIDE FACING INTERIOR FASTENED TO SLAB ACCORDING TO CODE.

1/2” ANCH. BOLT according to code

Structural steel I beam

Fastener 4" O.C. Interior and exterior. 8d nail or 1 1/2” 16g wide crown staple

Foundation design per local code, by others

NOTE:
Treat sill and foundation with insecticide.
TYPICAL DETAILS

APPENDIX B-1 — PANEL RIGGING

THROUGH HOLE METHOD

PINNED STRAP

* ROOF

WALL

18"

WALL

ROOF — EAVE OVERHANG

ROOF — RIDGE
PINNED HOOK METHOD

CURVED LOCKING PIN

BLIND METHOD

SLOT PATTERN;
CUT SLOTS BY DRILLING 3 EACH 1” DIA. HOLES IN A ROW
STRAP TO CRANE

IF WINDOWS WEAKEN PANEL TOO MUCH FOR INITIAL CRANE LIFT, SCREW 2X STRONGBACKS TO OUTER FACE OF PANEL

2/3 L

2X BLOCKING

PANEL PIVOTS ALONG EDGE, USE 2X BLOCKING

TENSION IN BOTTOM SKIN (BAD)

COMPRESSION IN BOTTOM SKIN (GOOD)

2/3 LENGTH
TYPICAL DETAILS

APPENDIX B–4 – FLYING ROOF PANEL

ADD STRAPS TO ADJUST PITCH AS REQUIRED BETWEEN THESE POINTS AND CRANE HOOK.

PINNED STRAP
OFFSET PIN SO IT FALLS OUT WHEN STRAP IS LOOSENED

FLYING ROOF PANELS

RIDGE
PINNED STRAP
EAVE OVERHANG

BLIND HOOKS
TYPICAL DETAILS

APPENDIX C-1 SOFFIT DETAIL

OPTION A - PLUMB EAVE (OPTIONAL)

- ROOF PANEL
- 1X8 T&G KNOTTY PINE
- GASKET
- PLUMB 2X INSTALLED IN PLANT
- 1X8 CEDAR GUTTER BD.
- 1/2" FIELD APPLIED ANGLED SOFFIT
- 1X6 TRIM BLOCK
- FIELD APPLIED SIDING
- WALL PANEL

OAK Rafter

6X8 OAK
APPENDIX C–2 SOFFIT DETAIL

OPTION B – SQUARE EAVE (STANDARD)
EXAMPLE PANEL DRAWING
SHOWING COMMON BOX PLACEMENT

INTERIOR BOX (SWITCH HGT.)

EXTERIOR BOX (SWITCH HGT.)

CONDUIT (TO LIGHT IN CEILING)

INTERIOR BOX (COUNTERHEIGHT)

EXTERIOR BOX (LIGHT)

INTERIOR OUTLET BOX

EXTERIOR OUTLET BOX

INTERIOR BOX (PH/CATV)

STANDARD HEIGHTS

OUTLET BOX

1' - 2"  OUT  1' - 2"

SWITCH/COUNTERHEIGHT BOX

3' - 10"

DOOR

6' - 0"

EXTERIOR ENTRY LIGHT

6' - 0"

INTERIOR WALL SCONCE

TYPICAL ELECTRIC SYMBOLS

4x4 SQUARE BOX (OUTLET/SWITCH)

ROUND BOX (LIGHT)

INTERIOR

EXTERIOR

OUT

OUT

CONDUIT (ROUTES WIRE THROUGH PANEL)

ROUND BOX W/ BLOCKING FOR HEAVY FIXTURES 50IB MAX.
(ROOF PANEL ONLY, THERMOCORE MUST BE NOTIFIED WHEN THIS CONDITION APPLIES IN EACH SITUATION)