

APPROVED PW CONCEPTUAL DESIGN PERMIT: 20-204576

SITE PLAN

UNIT 1: IMPERVIOUS AREA (UNCOVERED PORTIONS) 379.6 SQ. FT. DRIVEWAY & SIDEWALK 84 SQ. FT. REAR PATIO

-EXISTING 0.5' FRONTAGE ZONE

-EXISTING 0.5' CURB

EXISTING WATER

SERVICE LATERAL

EXISTING WATER S

-EXISTING WATER MĔŤER FOR UNIT 1

-NEW 3/4" WATER METER FOR UNIT 2.

CONTRACTOR TO CONNECT TO THE SHORT

-INSTALL 1" WATER \$ERVICE CONNECTION & LATERAL

STUB-OUT ON THE BACK SIDE OF THE NEW WATER METER BOX.

1. BES STORMWATER FACILITY INSPECTION REQUIRED

AT TIME OF CONSTRUCTION. SEE BES INSPECTION CARD.

To schedule, contact the automated inspection request

(IVR) system at 503-823-7000 and request inspection #487 BES Onsite Stormwater Facility Eval-OR-contact

2. BDS INSPECTOR APPROVAL REQUIRED FOR DOWNSPOUTS

& PRIVATE STORM SEWER PIPING OUTSIDE OF STORM FACILITIES.

BES at 503-823-7761 for assistance.

TO NEW DRIVEWAY GRADE.

MAINTAIN EXISTING WATER SERVICE CONNECTION.

ADJUST WATER METER BOX COVER TO MATCH

EXISTING

EXISTING

SEWER MAIN

SEWER LATERAL

(4) 1.5" Ø CALLERY PEAR (PYRUS CALLERYANA

* MANUAL IRRIGATION FOR THE FIRST YEAR.

100.0

12'x7.2'

CONCRETE

PATIO

PROPOSEĎ ĎUPLÉXÍ

FFE: 151.0'

COVERED PORCH

FAMILY PLAN: 1547-1752/

N. OBERLIN STREET

(ASPHALT)

('ARISTOCRAT') MEDIUM TREE

PROPERTY LINE

[↑] DRIVEWAY

& SIDEWALK

(3) 1.5"ø STREET TREES

BLACK TUPELO (NYSSA SYLVATICA)

149.5'

~STREET

POWER POLE

1.0' ROOF

OVERHANG

NEW 4"Ø ABS SEWER LINE

CONCRETE DRIVEWAY

& SIDEWALK

.WATER LINE:

√3/4"ø PVC

ÚTDOOR I

`AREA | 18.0

EXISTING 2.5'

PLANTER

-0.5' FRONTAGE ZONE

-EXISTING 0.5' CURB

-6.0' SIDEWALK

— 4.0' PLANTER

CONNECTING TO EXISTING CAPPED BRANCH -

AT THE PROPERTY LINE, OR JUST ONSITE

12'x7.2' ⊮

WATER LINE,*/ 3/4"ø PVC+ +

4'ø x 5.0' DEPTH DRYWELL 5.0' MIN. FROM -

PROPERTY LINE TO CENTER & 10.0' FROM

BUILDING TO CENTER (SEE DETAIL AT RIGHT)

4"ø ABS SCH40

RAIN DRAIN

CONCRETE

A PATIO

UNIT 2: IMPERVIOUS AREA (UNCOVERED PORTIONS) 381.6 SQ. FT. DRIVEWAY & SIDEWALK 84 SQ. FT. REAR PATIO

2,106 ROOF AREA

= 3,035.2 SQ. FT. TOTAL IMPERVIOUS AREA

REFERENCE TO ASSOCIATED DEMOLITION PERMIT: RS 20-150480.

396.1 SQ. FT. UNIT 1 DRIVEWAY & SIDEWALK 400.0 SQ. FT. UNIT 2 DRIVEWAY & SIDEWALK

PROJECT LEGAL DESCRIPTION: **PROP. ID:** R292163 **STATE ID:** 1N1E08CC -16800 UNIVERSITY PK, BLOCK 73, NLY 1/2 OF LOT 1-3 SW 1/4 SEC. 8 T.1N. R.1E. W.M.

> PROPOSED PROJECT FOR: SENTAUR INC.

ROOF AREA: FLATWORK AREA:

SCALE: 1" = 10.0' 796.1 SQ. FT DATE: 7-16-20, REV. 9-10-20, 1-6-21, (2) COVERED FRONT PORCHES 168.0 SQ. FT. 1-20-21 172.8 SQ. FT. TOTAL=1,136.9 SQ. FT.

4,468.5 SQ. FT 1,894.0 SQ. FT 42.4 % LOT COVERAGE

500 NW 20TH ST STE 203 (o) PHONE: 503-663-1100

MULTNOMAH COUNTY **PROJECT ADDRESS:** 7314 N FISKE AVE PORTLAND, OR 97203

(2) DRIVEWAYS & SIDEWALKS REAR PATIOS (2) 12' x 7.2'

LOT COVERAGE: LOT AREA **BUILDING AREA** (NOT INCLUDING OVERHANGS)

ZONE: R5, OVERLAY: N/A PLAN DISTRICT: N/A

JOB# 20-40 GRESHAM, OREGON 97030 EMAIL: brian@massiehd.com



CODE COMPLIANCE

Date: 02/08/21

Permit #: 20-172950-000-00-RS

- SURFACE MOUNTED INCANDESCENT

- ─ WALL MOUNTED INCANDESCENT
- RECESSED INCANDESCENT
- EXHAUST FAN VENTED TO EXTERIOR
- CEILING MOUNTED DUPLEX OUTLET
- ⇒ SPLIT-WIRED OUTLET, WIRE TO SWITCH

- (SD) 110V SMOKE ALARM / DETECTOR WITH
- CM 110V CARBON MONOXIDE ALARM / IN EACH BEDROOM OR WITHIN

ZZZZZ INTERIOR BEARING WALL

■ BEARING POINT LOCATION, PROVIDE 2 x STUDS, MIN, OF BEAM

NOTES:

1. 1. VENT RANGE HOOD, DRYER, LAUNDRY & BATH FANS TO

IN ADDITION, WHEN NOT PROVIDED WITH NATURAL VENTILATION, TOILET ROOMS WITHOUT BATHING OR SPA FACILITIES SHALL HAVE A MECHANICAL VENTILATION SYSTEM DESIGNED TO EXHAUST A MINIMUM OF 50 CFM.

2. METAL GAS FIREPLACE TO BE INSTALLED

B. PROVIDE 18" HIGH PLATAFORM FOR WATER HEATER

LATERAL DESIGN:

BP= BRACE PANEL, METHOD # 3, 48" WIDTH w/8d @ 6" O/C EDGES & 12" O/C FIELD, 3/8" MIN. SHEATHING (FOR BP. AT INTERIOR

ABP2 = ALTERNATE BRACE PANEL,

IBP AT COMMON WALL= INTERIOR BRACE PANEL AT COMMON WALL, METHOD #5, 48" WIDTH W/6d COOLER COATED NAILS, 1 7/8" LONG, 0.0920 SHANK, 1/4" HEADS @ 7" O.C. MAX., 5/8" TYPE 'X' SHEETROCK (PER TABLE R702.3.5, 2008 ORSC) (SEE DETAIL PG.7)

\$ SINGLE-POLE SWITCH

\$ THREE-WAY SWITCH

▲ TELEPHONE OUTLET

BATTERY BACKUP-INNERCONNECT

DETECTOR WITH BATTERY BACKUP-15 FEET OUTSIDE OF EACH BEDROOM DOOR

STRUCTURAL BEAM, SEE INCLUDED CALCULATIONS FOR BEAM DATA

WIDTH, UNLESS NOTED

OUTSIDE. BATH ROOMS WITH BATHING FACILITIES SHALL HAVE A MECHANCIAL VENTILATION SYSTEM DESIGNED TO EXHAUST A MINIMUM OF 80 CFM INTERMITTENT OR 20 CFM CONTINUOUS CONTROLLED BY A DE-HUMIDISTAT TIMER OR SIMILAR MEANS OF AUTOMATIC CONTROL.

PER MANUFACTURES SPECIFICATIONS, PROVIDE OUTSIDE COMBUSTIBLE AIR.

AND FURNACE. 4. SEISMIC STRAPPING OF WATER HEATER

IS REQUIRED PER SECTION M1307.2

STATEWIDE ALTERNATE METHOD NO:ORSC 13-01 (REF.ORS 455.060) ALLOWS USE OF 2008 (ORSC) WALL BRACING PROVISIONS AS AN ALTERNATE METHOD TO THE 2017 (ORSC).

No 97-7 PORTAL FRAME BRACING. **USE STATEWIDE ALTERNATE METHOD**

(SEGMENTAL WALL BRACING)

WALL SEE DETAIL PG.7)

METHOD #3, 32" MIN. WIDTH, (SEE DETAIL PG.7)

BREAK EXTERIOR WALL SHEATHING @ RIM JOIST BETWEEN FLOORS W/8d @ 6" O.C. EDGES

DATE: 7-16-2020

PLAN 1547-1752

MAIN FLOOR PLAN SCALE: 1/4" = 1'-0"

6'-6"

4'-0"

2x10 BLOCKING

-AT 16" O.C. FOR B.P ABOVE

UPPER LEVEL

(2) 6x6 P.T. POSTS

W/ SIMPSON BC6 CAP

BELOW)

(SEE COLUMN DETAIL

LIST OF PENETRATIONS AT COMMON WALL:

EXCEED 1/8 INCH.

MAINTAIN THE REQUIRED RATING.

THE REQUIRED RATING.

BOTH UNITS- SWITCHES & OUTLETS; STEEL ELECTRICAL BOX THAT DO

NOT EXCEED 16 SQUARE INCHES IN AREA PROVIDED THE AGGREGATE

AREA OF THE OPENINGS THROUGH THE MEMBRANE DOES NOT EXCEED

BOTH UNITS-FIRE-RATED ASSEMBLES SHALL BE TIGHTLY FITTED AT

PLATES & BLOCKING OR DRAFT-STOPPED AROUND THE PROTRUSION WITH APPROVED NON-COMBUSTIBLE INSULATING MATERIALS TO

MAKE IT TIGHT FITTING. BOTH UNITS-BEHIND BATH TUBS & SOFFITS

BOTH UNITS: NONMETALIC PIPES THAT PENETRATE A RATED

WALL, SUCH PIPES SHALL BE ENCASED IN A RIGID FERROUS

THE ENCASING TUBE SHALL BE FIRE-STOPPED BY PACKING

TIGHTLY FITTED AT PLATES & BLOCKING OR DRAFT-STOPPED

NON-COMBUSTIBLE INSULATING MATERIALS TO MAKE IT TIGHT

FITTING. BOTH UNITS-BEHIND BATH TUBS & SOFFITS MAINTAIN

WITH NONCOMBUSTIBLE INSULATING MATERIAL. ALL PENETRATIONS WITHIN FIRE-RATED ASSEMBLES SHALL BE

AROUND THE PROTRUSION WITH APPROVED

METAL TUBE EXTENDING FROM THE SURFACE(S) AT LEAST 18".

100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. THE

SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT

WALL LINE

- COVERED

PORCH

AT STAIRS

TO OUTSIDE MAIN LEVEL WALL

13'-10"

5 1/2×10-1/2 (24F-V4) A

GL. BEAM (FLUSH)

JOISTS ABOVE _____

13/2 x 11/6

(2)2x10's (RECESS)

(18"x24" CRAWL + SPACE ACCESS

-(2)2x10's (RECESS) $\frac{3'-9"}{}$

LIVING ROOM

13/10 x 15/7

2x10 FLOOR

JOISTS ABOVE

@ 16"O/C

5/0 x 5/6 SL

14'-6"

B CANTILEVER 2'-6"

-BEARING WALL

2x10 FLOOR

@ 16" O/C

−2×6 WALL

12×4 STODS AT 16"\0.C.

TO SUPPORT STAIRS

BEARING WALL

8'-0"

 $(2)3/0 \times 3/0$

UNIT 1	UNIT 2
MAIN: 800 Sq. Ft.	MAIN: 926 Sq. Ft.
TOTAL LIVING AREA: TOTAL LIVING AREA: 1547 Sq. Ft. 1752 Sq. Ft.	
MAIN FLOOR TOTAL LIVING A	REA: 1726 Sq. Ft.

72'-0"

4/0 x 4/6 SL

2×10 FL00R

JOISTS ABOVE

@ 16" O/C

BEARING WALL-

2x10 FLOOR

JOISTS ABOVE

@ 16" O/C

2 HR. COMMON WALL—>

(SEE DETAIL PG.6)

2x4 STUDS

HUC610-

HANGER

REF

LIVING ROOM

17/7 x 12/2

 $6/0 \times 5/6 \text{ SL}$

COVERED —

PORCH

11'-0"

8'-10"

2x6 STUDS

AT 16" O.C.

DINING

<u> KITCHÉN</u>

 $9/10 \times 15/7$

JOISTS ABOVE

•

@ 16" O/C

4/0 x 4/6 SL

10'-6"

HDR. | 2/6

SHOWER

68'-0"

5/0 PATIO DOOR

W∕ TRANSOM

DINING/

 $17/7 \times 9/6$

≥ 2/4 18"x24" CRAWL

SPACE ACCESS

WALL

7'-3"

⊕ 6x10 BEAM~

(2) 6x6 P.T. POSTS

W/ SIMPSON BC6 CAP -

UNIT 2

11'-0"

22'-0"

68'-0"

72'-0"

(SEE COLUMN DETAIL BELOW)

43'-0"

品 3/0 x 4/0 SL.

4x10

RECESS

2x4 STUDS AT 16" O.C.

BEDROOM 5

9/8 x 10/0

4/0 x 5/6 SL. EGRESS

4'-10"

TO SUPPORT STAIRS

2x10 F.J. ABOVE

HDR.

2×10 FLOOR

@ 16" O/C

-JOISTS ABOVE

BEDROOM 4

10/6 x 10/0

4/0 x 5/6 SL. EGRESS

6'-0"

11'-2"

AT 16" O.C.

7'-8"

2x10 BLOCKING

(RECESS)

3/0 x 3/0

AT 16" O.C. FOR B.P ABOVE -

2x10 | BLO¢KING

AT 16" O.C. FOR B.P ABOVE

CAPITAL

—2x6 BASE

PORCH

FLOOR

— 6"x6" P.T. POST

(BOTTOM)

- SHAFT (1" TRIM)

CULTURED STONE

— 6"x6" Р.Т. POST

— SHAFT (1" TRIM)

-PEDESTAL (BOTTOM)

CULTURED STONE

TO OUTSIDE MAIN LEVEL WALL

TO OUTSIDE MAIN LEVEL WALL

4'-8"

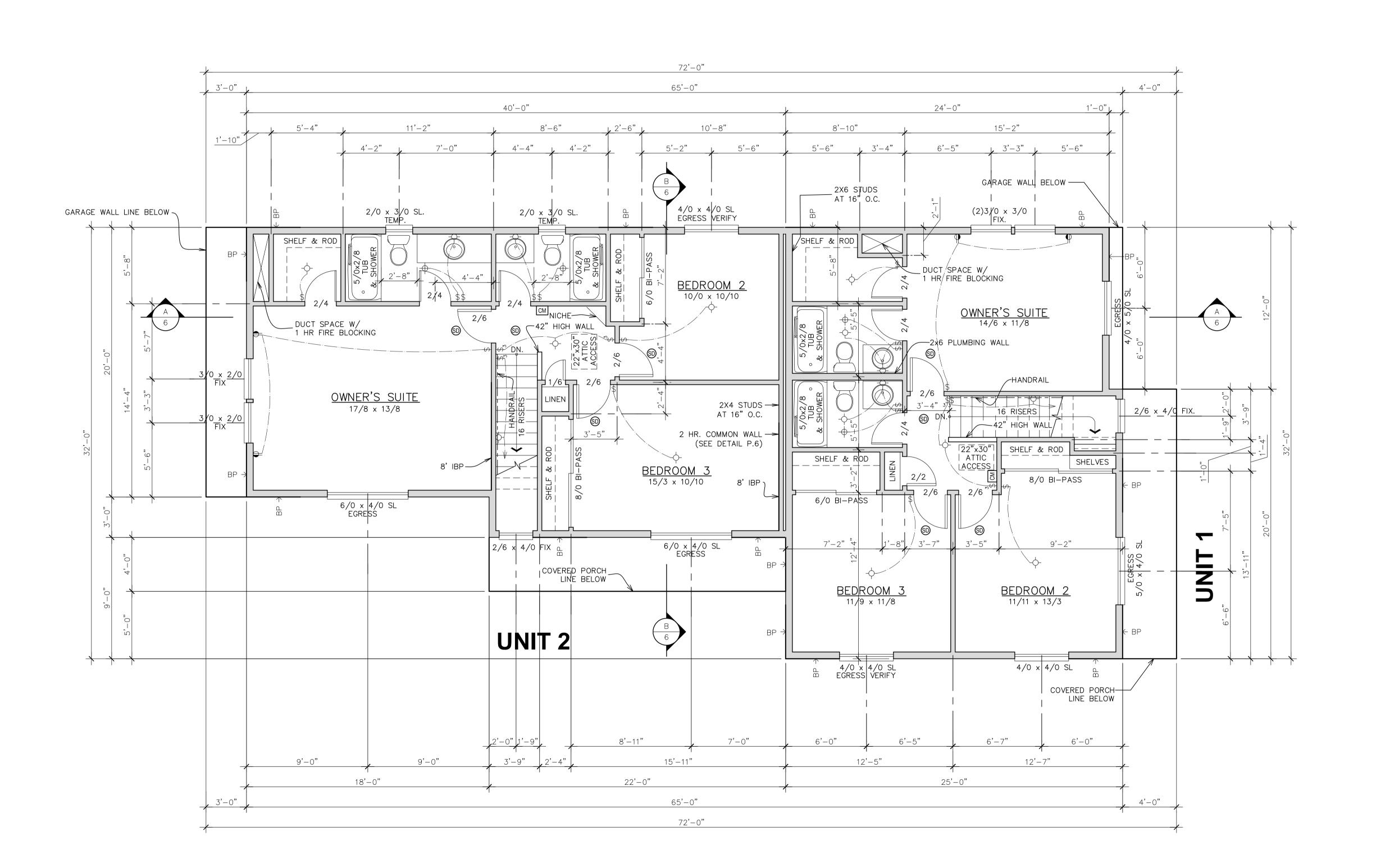
||SHELF & ROD

BI-PASS

35'-4"

8" COLUMN DETAIL W/ STONE

1' -0" ROUGH FRAME



UPPER FLOOR PLAN

SCALE: 1/4" = 1'-0"

UNIT 1 UNIT 2
UPPER: 747 Sq. Ft. UPPER: 826 Sq. Ft.
UPPER FLOOR TOTAL LIVING AREA: 1573 Sq. Ft.

City of Portland

REVIEWED FOR CODE COMPLIANCE

Date: 02/08/21

Permit #: 20-172950-000-00-RS

LEGEND:

- SURFACE MOUNTED INCANDESCENT

→ WALL MOUNTED INCANDESCENT

☐ RECESSED INCANDESCENT

EXHAUST FAN VENTED TO EXTERIOR

□ CEILING MOUNTED DUPLEX OUTLET

⇒ SPLIT-WIRED OUTLET, WIRE TO SWITCH

\$ SINGLE-POLE SWITCH

\$³ THREE-WAY SWITCH

▲ TELEPHONE OUTLET

TELEVISION OUTLET

SD 110V SMOKE ALARM / DETECTOR WITH BATTERY BACKUP-INNERCONNECT

CM 110V CARBON MONOXIDE ALARM /
DETECTOR WITH BATTERY BACKUPIN EACH BEDROOM OR WITHIN
15 FEET OUTSIDE OF EACH
BEDROOM DOOR

A STRUCTURAL BEAM, SEE INCLUDED CALCULATIONS FOR BEAM DATA

INTERIOR BEARING WALL

■ BEARING POINT LOCATION, PROVIDE 2 x STUDS. MIN. OF BEAM WIDTH, UNLESS NOTED

NOTES

1. 1. VENT BATH FANS TO OUTSIDE. BATH ROOMS WITH BATHING FACILITIES SHALL HAVE A MECHANCIAL VENTILATION SYSTEM DESIGNED TO EXHAUST A MINIMUM OF 80 CFM INTERMITTENT OR 20 CFM CONTINUOUS CONTROLLED BY A DE-HUMIDISTAT TIMER OR SIMILAR MEANS OF AUTOMATIC CONTROL.

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STATEWIDE ALTERNATE METHOD NO:ORSC 13-01 (REF.ORS 455.060) ALLOWS USE OF 2008 (ORSC) WALL BRACING PROVISIONS AS AN ALTERNATE METHOD TO THE 2017 (ORSC).

LATERAL DESIGN: (SEGMENTAL WALL BRACING)

BP= BRACE PANEL, METHOD #3, 48" WIDTH w/8d @ 6" O/C EDGES & 12" O/C FIELD, 3/8" MIN. SHEATHING (FOR BP. AT INTERIOR WALL SEE DETAIL PG.7)

IBP AT COMMON WALL=
INTERIOR BRACE PANEL AT COMMON
WALL, METHOD #5, 48" WIDTH W/6d
COOLER COATED NAILS, 1 7/8" LONG,
0.0920 SHANK, 1/4" HEADS @ 7" O.C.
MAX., 5/8" TYPE 'X' SHEETROCK
(PER TABLE R702.3.5, 2008 ORSC)
(SEE DETAIL PG.7)

LIST OF PENETRATIONS AT COMMON WALL:

BOTH UNITS- SWITCHES & OUTLETS; STEEL ELECTRICAL BOX THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA PROVIDED THE AGGREGATE AREA OF THE OPENINGS THROUGH THE MEMBRANE DOES NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. THE SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT EXCEED 1/8 INCH.

BOTH UNITS-FIRE-RATED ASSEMBLES SHALL BE TIGHTLY FITTED AT PLATES & BLOCKING OR DRAFT-STOPPED AROUND THE PROTRUSION WITH APPROVED NON-COMBUSTIBLE INSULATING MATERIALS TO MAKE IT TIGHT FITTING. BOTH UNITS-BEHIND BATH TUBS & SOFFITS MAINTAIN THE REQUIRED RATING.

BOTH UNITS: NONMETALIC PIPES THAT PENETRATE A RATED WALL, SUCH PIPES SHALL BE ENCASED IN A RIGID FERROUS METAL TUBE EXTENDING FROM THE SURFACE(S) AT LEAST 18". THE ENCASING TUBE SHALL BE FIRE-STOPPED BY PACKING WITH NONCOMBUSTIBLE INSULATING MATERIAL. ALL PENETRATIONS WITHIN FIRE-RATED ASSEMBLES SHALL BE TIGHTLY FITTED AT PLATES & BLOCKING OR DRAFT-STOPPED AROUND THE PROTRUSION WITH APPROVED NON-COMBUSTIBLE INSULATING MATERIALS TO MAKE IT TIGHT FITTING. BOTH UNITS-BEHIND BATH TUBS & SOFFITS MAINTAIN THE REQUIRED RATING.

DATE: 7-16-2020

PLAN 1547-1752

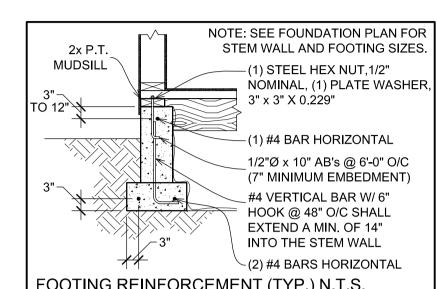
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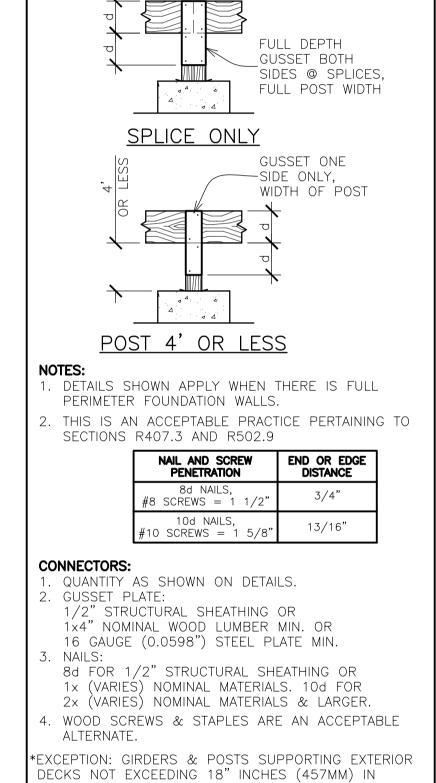
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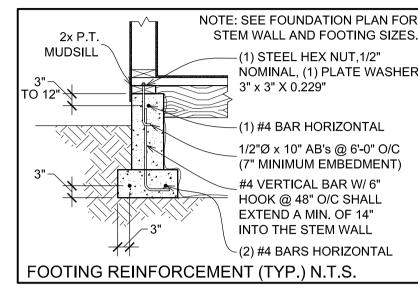


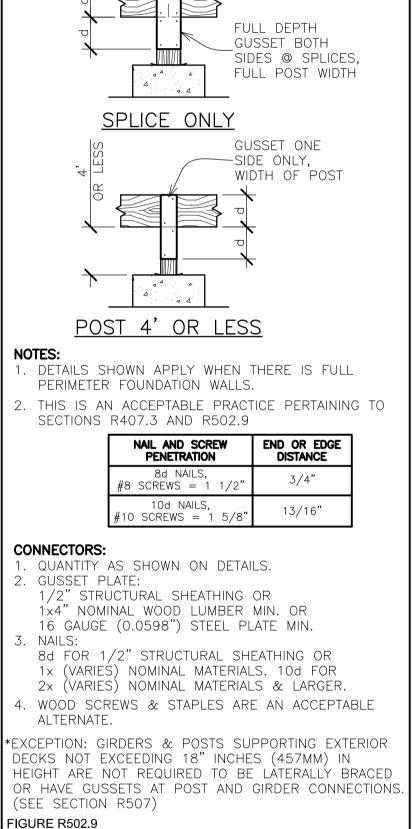
Date: 02/08/21

Permit #: 20-172950-000-00-RS









POST AND BEAM CONNECTIONS (AT CRAWL SPACE)

FOUNDATION PLAN

AT COMMON WALL ONLY

HORIZONTAL CONTINUOÚS

- SIMPSON LUS48

HANGER TYP.

(SEE DETAIL AT RIGHT)

4x8 FLOOR BEAMS

(6)18"×18"×8" 😾

CONCRETE

FOOTINGS

TOILET OVER

이(2)4x4 POSTS—

20"x24"x8"

(2)4x4 POSTS

CONCRETE-

18"x18"x8"
CONCRETE

FOOTINGS

UNIT 1

10'-6"

FOOTING

12" WIDE CONCRETE FOUNDATION

VERTICAL AND 1-#4 BAR HORIZ.

CONTINUOUS, 18" WIDE x 7" DEEP

CONCRETE FOOTINGS w/2-#4 BARS

__18"x24" CRAWL

(2)4x4 POSTS-

36"x22"x8"

4x4 POSTS DOOR OVER (4x6 POSTS @ BEAM SPLICES) NO VENT

1-1/8" T&G FLOOR SHEATHING —

* PROVIDE POSITIVE CONNECTION

POST TO BEAM(SEE DETAIL AT RIGHT)

PROVIDE 768 SQ. IN. OF _ SCREENED FOUNDATION VENTILATION

14'-6"

→ CONCRETE

FOOTING

☐ 18"ø x 8" DEEP_

CONCRETE FOOTINGS

4x8 FLOOR BEAMS 6 MIL. BLACK VISQUEEN

SPACE ACCESS

28"x28"x10"_

18"x22"x8"

→ CONCRETE

FOOTING

CONC. FOOTING

WALLS, W/#4 BAR @ 48" O.C.

4'-0"

-1'-3"

_ 28"x28"**x**10"

CONC. FOOTING

6x6 POST W/ 6x8 BM.

SIMPSØN HU68 HANGER EA. END

CONCRETE

(3500 PSI)

PORCH

RADON MITIGATION

-AT CRAWL SPACE

(SEE DETAIL PG.7)

4'-0"

(2) 18"x18"x12" CONCRETE

DEPTH w/SIMPSON PB66

FOOTING @ 18" FROST

SCALE: 1/4" = 1'-0"

72'-0"

+ DOOR OVER NO VENTS

4x8 FLOOR BEAMS

4x4 POSTS

∠18"x18"x8"

10'-53"

PROVIDE 889 SQ. IN.

11'-0"

FOUNDATION VENTILATION

OF SCREENED

CONCRETE FOOTINGS

POST TO BEAM(SEE DETAIL AT RIGHT)

* PROVIDE POSITIVE CONNECTION

(4x6 POSTS @ BEAM SPLICES)

18"0 x 8" DEEP CONCRETE FOOTINGS

DOOR OVER

NO VENTS

22'-0"

68'-0"

72'-0"

- 6 MIL. BLACK VISQUEEN

68'-0"

CONCRETE

PATIO

(3500 PSI) |

27"x18"x8"

CONCRETE -

→ - **★** •

SIMPSON HDU2-SDS2.5

UNIT 2

(SSTB24) SEE ABP2 [—] DETAIL PG.7

CONCRETE PORCH

(3500 PSI)

- FOOTING @ 18" FROST

DEPTH w/SIMPSON PB66

11'-0"

(2) 18"x18"x12" CONCRETE

42'-6"

LAYOUT OFFSET

FOR TOILET

RADON MITIGATION

(SEE DETAIL PG.7)

AT CRAWL SPACE

18"x27"x8"

27"x22"x8"_

CONCRETE FOOTING

18"x24" CRAWL

SPACE ACCESS

SIMPSON HUC48

CONCRETE FOOTING

TOILET

22"x18"x8"

(2)4x4 POSTS

21'-0"

CONCRETE++

₽ФОТING |

(5)18[†]x18"x8"

SIMPSON LUS48

HANGER TYP.

₩ CON¢RETÉ FODTINGS -

8" WIDE CONCRETE FOUNDATION

VERTICAL AND 1-#4 BAR HORIZ.

CONTINUOUS, 15" WIDE x 7" DEEP -

CONCRETE FOOTINGS w/2-#4 BARS

WALLS, W/#4 BAR @ 48" O.C.

HORIZONTAL CONTINUOUS

(SEE DETAIL AT RIGHT)

`|26"x22"x8" ||

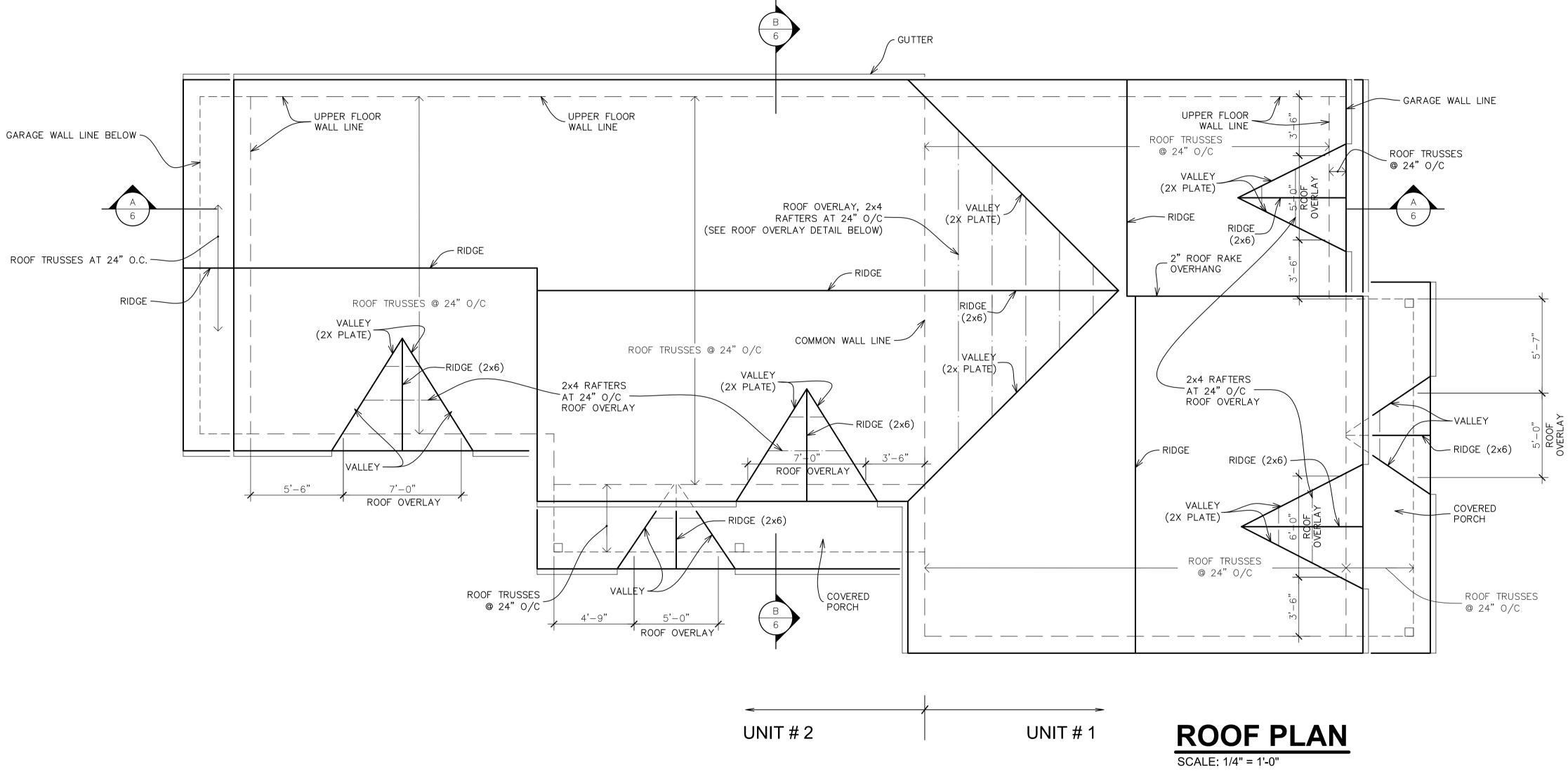
FOOTING

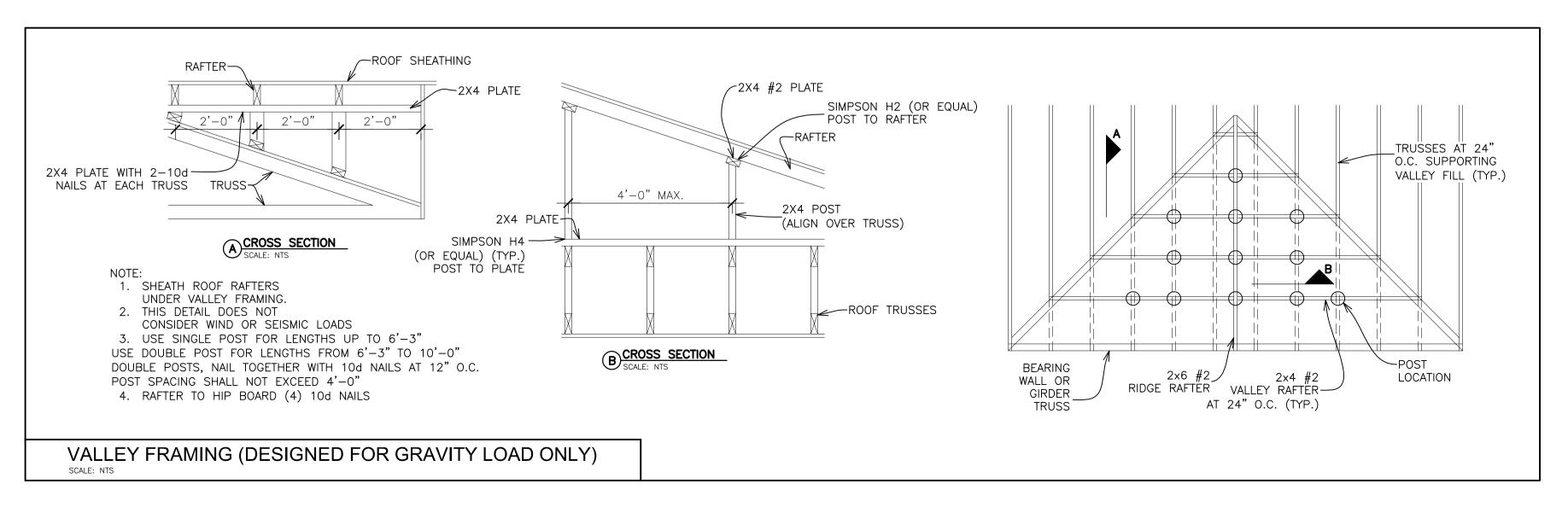
CONCRETE

NOTE: "SIMPSON" PRODUCTS TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS. SEE CURRENT "SIMPSON" CATALOG FOR MORE INFORMATION.

25'-0"

ROOF STRUCTURE SPECIFICATIONS: 1. COMPOSITION ROOFING 2. 15# FELT 3. 1/2" ROOF SHEATHING 4. ROOF TRUSSES AT 24" O.C. 2X4 RAFTERS @ 24" O.C. @ ROOF OVERLAY, 2x6 RIDGE BOARD (SEE ROOF OVERLAY DETAIL BELOW) 5. 2x6 BARGE RAFTERS 6. 1'-0" ROOF OVERHANGS EXCEPT 2" ROOF RAKE OVERHANG AS NOTED 7. GUTTERS, OWNER TO SPECIFY & LOCATE DOWNSPOUTS 8. 5/12 ROOF PITCH ROOF VENTILATION SPECIFICATIONS: UNIT #1 1. PROVIDE (4) 50 SQ.IN. SCREENED ROOF RIDGE VENTS AT UPPER LEVEL (187 SQ. IN. TOTAL MIN.) FOR UNIT #1 PROVIDE (10) 20 SQ. IN. SCREENED ROOF EAVE VENTS AT UPPER LEVEL (187 SQ. IN. TOTAL MIN.) FOR UNIT # 1 2. PROVIDE (4) 20 SQ. IN. SCREENED ROOF EAVE VENTS AT FRONT COVERED PORCH (75 SQ. IN. TOTAL MIN.). 3. PROVIDE (2) 20 SQ. IN. SCREENED ROOF EAVE VENTS AT GARAGE AT MAIN LEVEL (12 SQ. IN. TOTAL MIN.) UNIT #2 1. PROVIDE (5) 50 SQ.IN. SCREENED ROOF RIDGE VENTS AT UPPER LEVEL (208 SQ. IN. TOTAL MIN.) FOR UNIT #1 PROVIDE (11) 20 SQ. IN. SCREENED ROOF EAVE VENTS AT UPPER LEVEL (208 SQ. IN. TOTAL MIN.) FOR UNIT # 1 2. PROVIDE (5) 20 SQ. IN. SCREENED ROOF EAVE VENTS AT FRONT COVERED PORCH (85 SQ. IN. TOTAL MIN.). 3. PROVIDE (1) 50 SQ.IN. SCREENED ROOF RIDGE VENT AT SIDE OF GARAGE AT MAIN LEVEL (15 SQ. IN. TOTAL MIN.) PROVIDE (2) 20 SQ. IN. SCREENED ROOF EAVE VENTS AT SIDE OF GARAGE AT MAIN LEVEL (15 SQ. IN. TOTAL MIN.).





DATE: 7-16-2020

REVIEWED FO

Date: 02/08/21

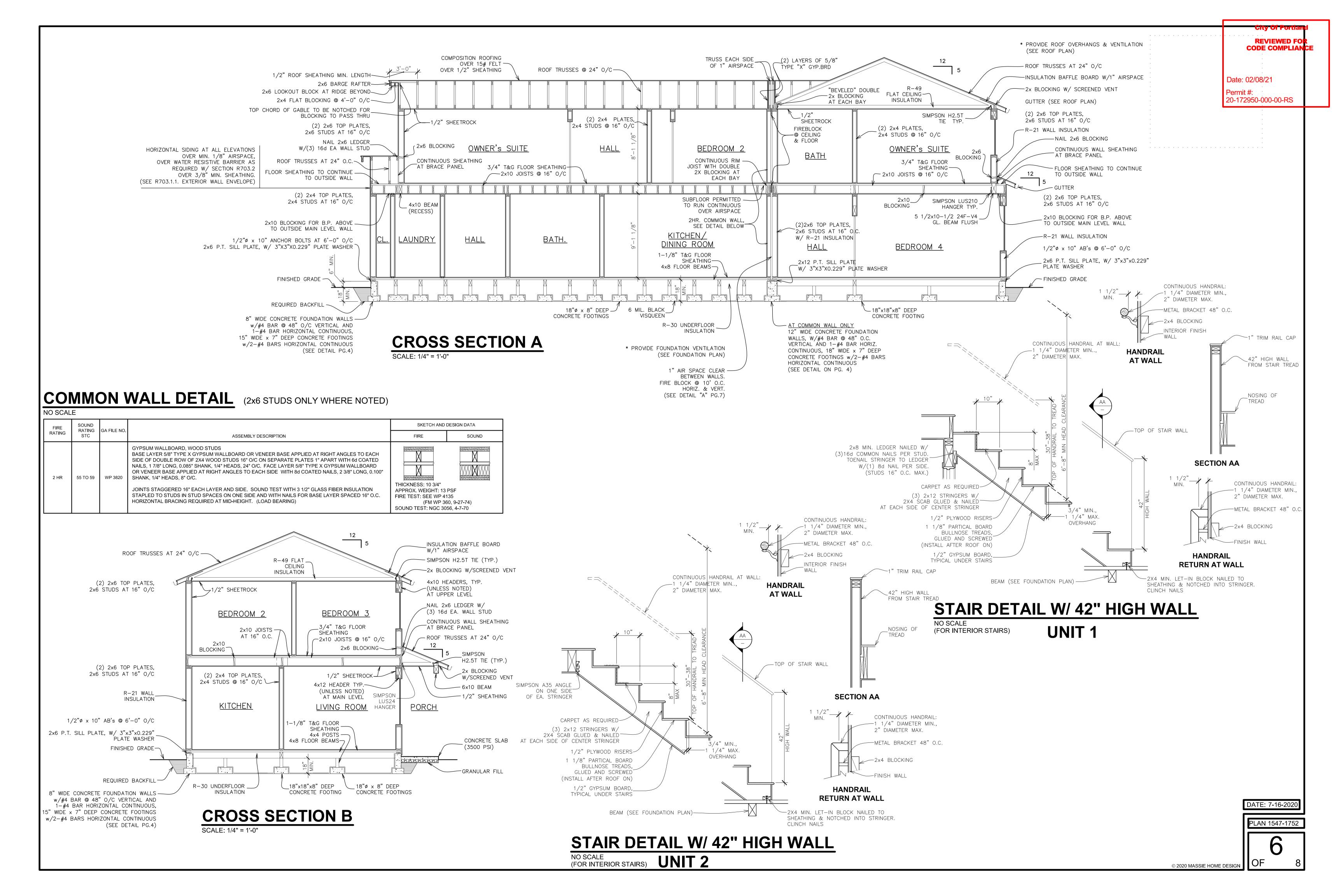
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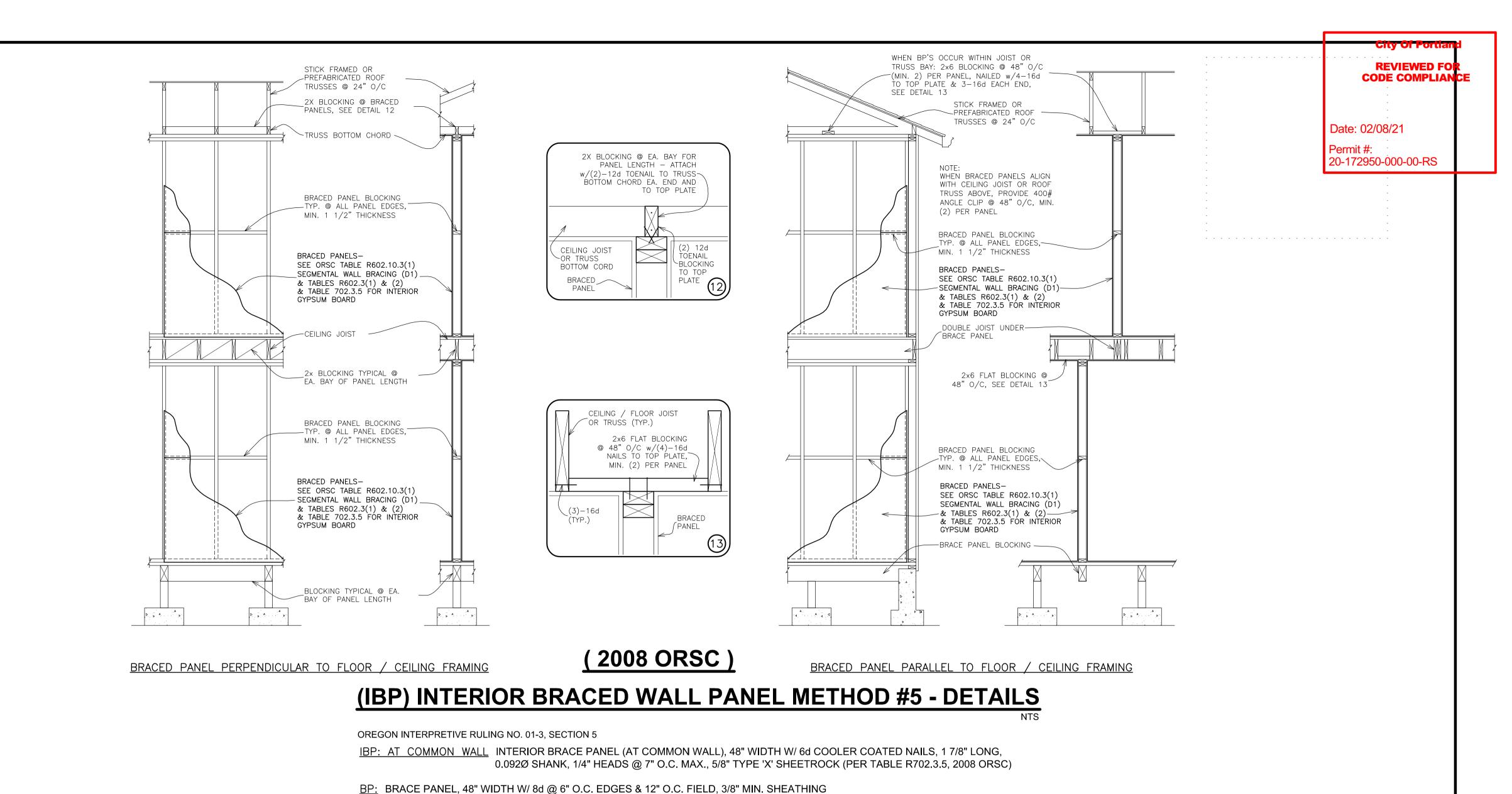
Permit #:

CODE COMPLIANCE

PLAN 1547-1752

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PASSIVE RADON CONTROL SYSTEM IN CRAWL SPACE FOR NEW CONSTRUCTION

1. INSTAL A MIN. 5' LENGTH OF 3"-4" DIAMETER PERFORATED DRAIN TILE HORIZONTALLY BENEATH THE SHEETING AND CONNECT TO THE "T" FITTING WITH THE VERTICAL STANDPIPE THROUGH THE SOIL-GAS-RETARDER MEMBRANE. THIS HORIZONTAL PIPE SHOULD NORMALLY BE PLACED PARALLEL TO THE LONG DIMENSION OF THE HOUSE AND SHOULD EXTEND NO CLOSER THAN 6' TO THE FOUNDATION WALL.

2 VENTILATE CRAWLSPACES IN CONFORMANCE WITH LOCAL CODES: VENTS SHALL BE OPEN TO THE EXTERIOR AND BE OF NONCLOSEABLE DESIGN.

3. CIRCUITS SHOULD BE A MINIMUM 15 AMP, 115 VOLT.

BASEMENT/CRAWL SPACE OR SLAB-ON-GRADE/CRAWL SPACE FOUNDATIONS SHALL HAVE SEPARATE RADON VENT PIPES INSTALLED IN EACH TYPE OF FOUNDATION AREA. EACH RADON VENT PIPE SHALL TERMINATE ABOVE THE ROOF OR SHALL BE CONNECTED TO A SINGLE VENT

4. COMBINATION FOUNDATIONS: COMBINATION

THAT TERMINATES ABOVE THE ROOF. SEAL AROUND ─3"-4" DIA. VENT PIPE FLOOR PENETRATIONS (PVC OR EQUIVALENT) SOIL-GAS-RETARDER MEMBRANE (MIN. 6-MIL. —— SUPPORT STRAP POLYETHYLENE SHEETING OR EQUIVALENT) (SEALING IS OPTIONAL AGAINST WALL AND -SEAL MEMBRANE AROUND AROUND PENETRATIONS) PIPE PENETRATION ADJOINTING SHEETS OF -MEMBRANE OVERLAPPED 12" MIN. (SEALING IS

FLASHING —

RADON MITIGATION

PERFORATED DRAIN_

TILE: NOTE 1

PASSIVE SUB-MEMBRANE DEPRESSURIZATION SYSTEM (NOT TO SCALE)

-EXHAUST (10' FROM OPENINGS

-ELECTRICAL JUNCTION BOX

FOR FUTURE INSTALLATION

ELECTRICAL JUNCTION BOX

FOR FUTURE INSTALLATION

OF VENT FAN. NOTE 3.

OF WARNING DEVICE.

NOTE 3.

- SUPPORT STRAP

OPTIONAL)

~PVC T-FITTING (OR EQUIVALENT)

TO SUPPORT VENT PIPE

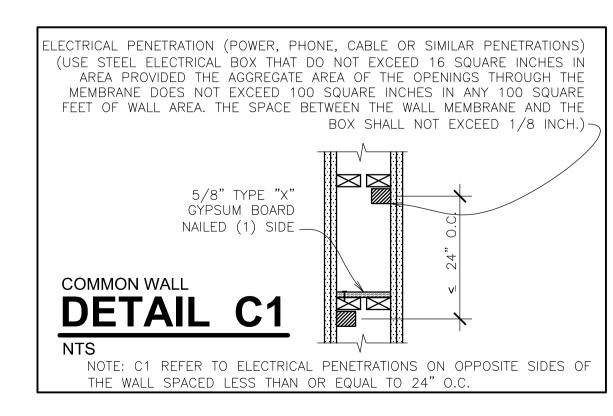
INTO CONDITIONED

<u>12" MIN. ABOVE ROOF</u>

SPACES OF BUILDING)

-FIREBLOCKING NAILED TO (1) SIDE-SPACING @ 10'-0" O.C. HORIZ. & VERT

COMMON WALL DETAIL A



WITH 3/8" PLYWOOD AND NAILED WITH 8d @ 4" O/C EDGES, 8d @ 12" O/C FIELD 2x BLOCKING AT HORIZONTAL —(2) 2x STUDS —(3) 2x STUDS SIMPSON HDU2-SDS2.5 __(3000# MIN) ___1/2"ø x 10" AB's @ 1/4 PTS #4 VERTICAL @ 24" O/C MAX ENGAGING FOOTING (7 REQ'D MIN FOR 12'-0") CENTERED ON PANEL (2) #4 x 12'-0" HORIZONTAL 1 @ TOP OF STEM WALL 1 @ FOOTING (6' E/W CENTER ON PANEL) SIMPSON SSTB24L CONTINUOUS FOOTING - OMIT WHEN USING 2x4 STUDS - SIMPSON HDU2-SDS2.5 VARIES 1 4 3/8" **EXCEPTION:** . WALLS MAY BE BRACED ON ONE SIDE OF THE WALL ONLY WHEN THE PANEL THICKNESS IS INCREASED TO A NOMINAL 1/2-INCH (12.7mm) STRUCTURAL SHEATHING THICKNESS AND THE NAIL SPACING AT THE EDGE OF PANEL IS REDUCED TO 3 INCHES (76mm) ON CENTER. ABP2 ALTERNATE BRACE PANEL 1ST STORY OF A TWO STORY

SHEATHED ON BOTH FACES

RECEIVED 9/16/20

DATE: 7-16-202

PLAN 1547-1752

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1. THESE PLANS ARE TO COMPLY WITH THE 2017 OREGON RESIDENTIAL SPECIALTY CODE (ORSC) EFFECTIVE OCT. 1ST 2017. BASED ON THE 2015 INTERNATIONAL RESIDENTIAL CODE (IRC) AND ANY APPLICABLE STATE, COUNTY OR LOCAL REGULATIONS. BUILDING CODES AND REQUIREMENTS CAN CHANGE AND MAY VARY FROM JURISDICTION TO JURISDICTION. IT IS THE RESPONSIBILITY OF THE PURCHASER AND/OR CONTRACTOR OF THIS PLAN TO SEE THAT THE STRUCTURE IS BUILT IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

THE STRUCTURE IS BUILT IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS FOR ANY ERRORS OR OMISSIONS AND NOTIFY THE DESIGNER PRIOR TO THE START OF CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS. MASSIE HOME DESIGN SHALL BE NOTIFIED OF ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.

WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.

THESE PLANS ARE FOR THE CONSTRUCTION OF ONE BUILDING ONLY AND ARE NOT TO BE COPIED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF MASSIE HOME DESIGN. WITHOUT THE EXPRESS WRITTEN PERMISSION OF MASSIE HOME DESIGN.

LUMBER GRADES: (BEAM CALCULATIONS TAKE PRECEDENCE OVER TABLE BELOW)

STUDS, POSTS, BEAMS AND HEADERS, ROOF RAFTERS. FLOOR & CEILING JOISTS DOLIGIAS FIR-LARCH #2 VISUALLY GRADED WESTERN SPECIES 24F-V4 GLULAM BEAMS DOUGLAS FIR-LARCH #3 SILLS, PLATES, BLOCKING, BRIDGING, ETC.

DESIGN LOADS: MAY VARY IN YOUR LOCAL AREA. CONSULT WITH A LOCAL STRUCTURAL ENGINEER OR DESIGNER FOR APPROPRIATE REVISIONS.

ROOF:	25 PSF LIVE LOAD, 15 PSF DEAD LOAD	
FLOOR, BALCONIES (EXTERIOR) AND DECKS:	40 PSF LIVE LOAD 10 PSF DEAD LOAD	
	ELEVATED GARAGE FLOORS SHALL BE CAPABLE OF SUPPORTING 50 PSI OVER A 6-INCH SQUARE-AREA ANYWHERE WHEN ON THE FLOOR.	F LIVE LOAI POINT LOA
CEILINGS	10 PSF LIVE LOAD, 5 PSF DEAD LOAD	
STAIRS	40 PSF LIVE LOAD, SEE TABLE R301.5	

CONCRETE: (28 DAY COMPRESSIVE STRENGTH)

SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF. FOOTINGS TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN A MINIMUM OF 18" BELOW FINAL GRADE. ALL SLABS ON GRADE SHALL BEAR ON 4" COMPACTED GRANULAR FILL.

2500 PSI - BASEMENT WALLS AND FOUNDATIONS NOT EXPOSED TO THE WEATHER; BASEMENT AND INTERIOR SLABS ON GRADE EXCEPT GARAGE FLOOR SLARS 3000 PSI - BASEMENT, FOUNDATION AND EXTERIOR WALLS; OTHER VERTICAL CONCRETE WORK EXPOSED TO THE 3500 PSI - PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER; GARAGE FLOOR SLAB CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' MAXIMUM INTERVALS EACH WAY. REINFORCING STEEL TO BE ASTM A615 GRADE 40 MIN., WELDED WIRE MESH TO BE A185.

COVER ENTIRE CRAWL SPACE WITH 6 MIL. BLACK PLASTIC SHEETING, OVERLAP SEAMS 12" MIN. AND EXTEND UP FOUNDATION WALLS 12".

CRAWL SPACE VENTS: CORROSION-RESISTANT WIRE MESH 1/8" MIN. THICK & 1/4" MAX. OPENING PROVIDE CRAWL SPACE DRAIN & SLOPE TO LOW POINT FOR POSITIVE DRAINAGE. . BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE AT SIDES AND END WITH A MINIMUM BEARING OF 3". 11. ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 55# ROLL ROOFING.

1. 1/2" WATER-RESISTANT SHEETROCK AROUND TUB & SHOWER.
2. THE LIGHTING LAYOUT IS SUGGESTED ONLY. CONSULT YOUR ELECTRICAL CONTRACTOR FOR EXACT SPECIFICATIONS & LOCATIONS OF LIGHTS, SWITCHES & OUTLETS.
3. BASEMENTS WITH HABITABLE SPACE AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPENING FOR EMERGENCY ESCAPE AND RESCUE WITH THE FOLLOWING REQ'S:

A. A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR.

B. THE MINIMUM NET CLEAR OPENING SHALL BE 5.7 SQ. FT. C. GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQ. FT.

DITHE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES

GLAZING ADJACENT TO STAIRWAYS, LANDINGS AND RAMPS WITHIN 36" (914 MM) HORIZONTALLY OF A WALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE IS TO BE TEMPERED SAFETY GLAZING. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES (914MM) ABOVE THE LANDING AND WITHIN A 60" (1524 MM) HORIZONTAL ARC LESS THAN 180 DEGREES (3.14 RAD) FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED A HAZARDOUS LOCATION AND TO BE

6. ALL WINDOWS WITHIN 18" OF THE FLOOR AND WITHIN 24" ARC FROM HINGED SIDE OF DOORS TO BE TEMPERED SAFETY GLAZING.

ALL SKYLIGHTS TO BE TEMPERED SAFETY GLAZING.

ALL TUB & SHOWER GLASS ENCLOSURES / PARTITIONS ARE TO BE TEMPERED SAFETY GLAZING.

ALL WINDOWS & PATIO DOORS ARE TO BE DOUBLE GLAZED. EXTERIOR DOORS ARE TO BE SOLID CORE WITH

10. BACKFILL FOR POSITIVE SLOPE AWAY FROM THE STRUCTURE WITH SLOPE NO LESS THAN 6" IN THE FIRST 10' AND NO GREATER THAN 6:12. (EXCEPTION: DRAINS OR SWALES, SEE R401.3 DRAINAGE.)

11. DO NOT EXCAVATE GREATER THAN A 1 : 2 (VERTICAL TO HORIZONTAL) SLOPE BELOW FOOTINGS. MAINTAIN 6" MINIMUM SPACE FROM GROUND TO WOOD SIDING

MAINTAIN 6 MINIMUM SPACE FROM GROUND TO WOOD SIDING.

N1107.2 HIGH—EFFICACY LAMPS. ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN HIGH—EFFICACY
LAMPS. SCREW—IN COMPACT FLUORESCENT AND LED LAMPS COMPLY WITH THIS REQUIREMENT.

THE BUILDING OFFICIAL SHALL BE NOTIFIED IN WRITING AT THE FINAL INSPECTION THAT THE PERMANENTLY
INSTALLED LIGHTING FIXTURES HAVE MET THIS REQUIREMENT. EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH-EFFICACY N1107.3 HIGH-EFFICACY EXTERIOR LIGHTING. ALL EXTERIOR LIGHTING FIXTURES AFFIXED TO THE EXTERIOR OF THE BUILDING SHALL CONTAIN HIGH-EFFICACY LAMPS. EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH-EFFICACY

14. MOISTURE CONTENT: PRIOR TO INSTALLATION OF INTERIOR FINISHES, ALL MOISTURE SENSITIVE WOOD FRAMING MEMBERS USED IN CONSTRUCTION HAVE A MOISTURE CONTENT OF NOT MORE THAN 19% OF THE WEIGHT OF DRY

ED SLAB INTERIOR <u>NDOW AREA LIMITATION J.K</u>

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m , 1 degree = 0.0175 rad, n/a = not applicable. a. As allowed in section N1104.1, thermal performance² of a component may be adjusted provided that overall heat loss does not exceed the total resulting from conformance to the required U-factor standards. Calculations to document equivalent heat loss shall be performed using the procedure and approved U-factors contained in Table N1104.1(1). R—values used in this table are nominal for the insulation only in standard wood framed construction and not for the entire assembly.

Wall insulation requirements apply to all exterior wood framed, concrete or masonry walls that are above grade. This includes cripple walls &

rim joist areas. Nominal compliance with R-21 insulation and Intermediate Framing (N1104.5.2) with insulated headers. The wall component shall be a minimum solid log or timber wall thickness of 3.5 inches (90mm) Below-grade wood, concrete or masonry walls include all walls that are below grade and do not include those portions of such wall that extend more than 24 inches (609.6mm) above grade. R-21 for insulation in framed cavity; R-15 continuous insulation. Insulation levels for ceilings that have limited attic/rafter depth such as dormers, bay windows or similar architectural features totaling not more than 150 square feet (13.9 m²) in area may be reduced to not less than R—21. When reduced, the cavity shall be filled (except

for required ventilation spaces). R-49 insulation installed to minimum 6-inches depth at top plate at exterior of structure to achieve U-factor. Vaulted ceiling surface area exceeding 50 percent of the total heated space floor area shall have a U-factor no greater than U-0.026 (equivalent to R-38 rafter or scissor truss with R-38 advanced framing). ceiling with R-30 insulation is U-0.033 and complies with this requirement, not to exceed 50 percent of the total heated space floor area.

Heated slab interior applies to concrete slab floors (both on and below grade) that incorporate a radiant heating system within the slab. Insulation shall be installed underneath the entire slab. Sliding glass doors shall comply with window performance requirements. Windows exempt from testing in accordance with section NF1111.2, Item 3 shall comply with window performance requirements if constructed with thermal break aluminum or wood, or vinyl, or fiberglass frames and double—pane glazing with low—emissivity coatings of 0.10 or less. Buildings designed to incorporate passive solar elements may include glazing with a U—factor greater than 0.35 by using Table N1104.1(1) to demonstrate equivalence to building envelope requirements. Reduced window area may not be used as a trade-off criterion for thermal performance of any component.

Exception: Table N1101.1(2), Envelope Measure 6: calculation allows baseline case 15 percent of total wall area as window when design case utilizes window area of less than 15 percent. Skylight area installed at 2% or less of total heated space floor area shall be deemed to satisfy this requirement with vinyl, wood, or thermally broken aluminum frames and double—pane glazing with low—emissivity coatings. Skylight U—factor is tested in the 20 degree (0.35rad) overhead plane in accordance with NFRC standards.

A maximum of 28 square feet (2.6m²) of exterior door area per dwelling unit can have a U-factor of 0.54 or less. Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply

from Table N1101.1(1): (WALL INSULATION—ABOVE GRADE, R-21 INTERMEDIATE C)

with this U-0.30 requirement.

N.1104.5.2 Intermediate framing for walls. Intermediate framing for walls is an optional construction method. Intermediate framing, when used to achieve improved wall performance under the requirements of Table 1101.1(1) or Table N1104.1(2), shall meet the following

1. Walls. Walls shall be formed with 2x studs at 16 inches (610 mm) on center and shall

2. Corners and intersections. Exterior wall and ceiling corners shall be fully insulated through the use of three-stud corners configured to allow full insulation into the corner, or two—stud corners and drywall backup clips or other approved technique. Intersections of interior partition walls with exterior walls shall be fully insulated through the use of single backer

3. **Headers**. Voids in headers 1 inch (25.4 mm) or greater in thickness shall be insulated with rigid insulation that has a value of R-4 or greater per 1 inch (25.4mm) thickness. Nonstructural headers (such as in gable end walls) can be eliminated and replaced with insulation to achieve equivalent levels as the surrounding area.

TABLE R602.3 (1)

ITEM	DESCRIPTION OF BUILDING ELEM	FASTENING	SOFIED	NUMBER & TYPE OF	CDAOING	A. LOOATION	
	DESCRIPTION OF BUILDING ELEM	ROOF		FASTENER a,b,c 4-8d BOX(2-1/2"x0.113") OR	SPACING	& LOCATION	
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE			3-8d COMMON (2-1/2"xó.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS 4-8d BOX(2-1/2"x0.113") OR	TO	E NAIL	
2	CEILING JOISTS TO TOP PLATE			3-8d COMMON (2-1/2"x0.131"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS	PER JO	IST, TOE NAIL	
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER PARTITIONS [SEE SECTIONS R802.3.1, R802.3.2 &		.1(9)]	4-10d BOX(3"x0.128"); OR 3-16d COMMON (3-1/2"x0.162"); OR 4-3"x0.131" NAILS	FA	CE NAIL	
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HE [SEE SECTIONS R802.3.1 AND R802.3.2 AND TABLE			TABLE R802.5.1(9) 4-10d BOX (3"x0.128"); OR	FA	CE NAIL	
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4"x20 RIDGE STRAP TO RAFTER	GA.		3-10d COMMON (3"x0.148"); OR 4-3"x0.131" NAILS	FACE NAIL EACH RAFTER		
6	RAFTER OR ROOF TRUSS TO PLATE			3-16d BOX NAILS (3-1/2"x0.135"); O 3-10d COMMON NAILS (3"x0.148"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS	2 TOE NAILS ON ONE SIDE & 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS!		
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS TO MINIMUM 2" RIDGE BEAM	OR ROOF RAF	FTER	4-16d (3-1/2"x0.135"); OR 3-10d COMMON (3-1/2"x0.148"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS 3-16d BOX NAILS (3-1/2"x0.135"); O 2-16d COMMON (3-1/2"x0.162"); OR 3-10d BOX (3"x0.128"); OR	R	E NAIL	
		WALL		3-3"x0.131" NAILS 16d COMMON (3-1/2"x0.162")	24" 0.0	C. FACE NAIL	
8			10d BOX (3"x0.128"); OR 3"x0.131" NAILS 16d BOX (3-1/2"x0.135"); OR		C. FACE NAIL		
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECT (AT BRACED WALL PANELS)	TING WALL CON	(NEK2	3"x0.131" NAILS 16d COMMON (3-1/2"x0.162") 16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL 16" O.C. EACH EDGE		
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)		16d BOX (3-1/2"x0.135")	16" O.C	CE NAIL CE NAIL		
11	CONTINUOUS HEADER TO STUD		5-8d BOX (2-1/2"x0.113"); OR 4-8d COMMON (2-1/2"x0.131"); OR 4-10d BOX (3"x0.128") 16d COMMON (3-1/2"x0.162")	TOE NAIL			
	TOP PLATE TO TOP PLATE			10d BOX (3"x0.128"); OR 3"x0.131" NAILS	12" 0.0	C. FACE NAIL	
13 ^j	DOUBLE TOP PLATE SPLICE FOR SDCs A-D2 WITH WALL LINE SPACING <25'	SEISMIC BRAC	CED	8-16d COMMON (3-1/2"x0.162"); OR 12-16d BOX (3-1/2"x0.135"); OR 12-10d BOX (3"x0.128"); OR 12-3"x0.131" NAILS	FACE NAIL SIDE OF END 24" LAP SPLICE SIDE OF E	JOINT (MINIMU E LENGTH EAC	
	DOUBLE TOP PLATE SPLICE FOR SDCs D1 OR D2 LINE SPACING > THEN OR = TO 25'	; AND BRACED	WALL	12-16d (3-1/2"x0.135") 16d COMMON (3-1/2"x0.162")	16" 0 (C. FACE NAIL	
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (NOT AT BRACED WALL PANELS)	SOLID DECK		16d BOX (3-1/2"x0.135"); OR 3"x0.131" NAILS	12" 0.0	C. FACE NAIL	
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, SOLID DECK OR BLOCKING (AT BRACED WALL PANEL)		3-16d BOX (3-1/2"x0.135"); OR 2-16d COMMON (3-1/2"x0.162"); OR 4-3"x0.131" NAILS	F. 2 EAC F. 4 EAC	CH 16" O.C. ACE NAIL CH 16" O.C. ACE NAIL CH 16" O.C. ACE NAIL		
16	TOP OR BOTTOM PLATE TO STUD			4-8d BOX (2-1/2"x0.113"); OR 3-16d BOX (3-1/2"x0.135"); OR 4-8d COMMON (2-1/2"x0.131"); OR 4-10d BOX (3"x0.128"); OR 4-3"x0.131" NAILS 3-16d BOX (3-1/2"x0.135"); OR	Т	DE NAIL	
			3-16d BOX (3-1/2 x0.135); OR 2-16d COMMON (3-1/2"x0.162"); OR 3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS	END NAIL			
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS			3-10d BOX (3"x0.128"); OR 2-16d COMMON (3-1/2"x0.162"); OR 3-3"x0.131" NAILS	FACE NAIL		
18	1" BRACE TO EACH STUD AND PLATE		3-8d BOX (2-1/2"x0.113"); OR 2-8d COMMON (2-1/2"x0.131"); OR 2-10d BOX (3"x0.128"); OR 2 STAPLES 1-3/4"	FACE NAIL			
19	1" x 6" SHEATHING TO EACH BEARING		2-8d 2-10	BOX (2-1/2"x0.113"); OR COMMON (2-1/2"x0.131"); OR d BOX (3"x0.128"); OR APLES 1" CROWN, 16 GA., 1-3/4" LONG		CE NAIL	
20	3-8d 3-8d 3-8d 3-10 3-ST/ WIDER 4-8d 3-10 3-ST/ WIDER		BOX (2-1/2"x0.113"); OR COMMON (2-1/2"x0.131"); OR d BOX (3"x0.128"); OR APLES 1" CROWN, 16 GA., 1 3/4" LONG R THAN 1" x 8" BOX (2-1/2"x0.113"); OR COMMON (2-1/2"x0.131"); OR d BOX (3"x0.128"); OR	G FACE NAIL			
21	FLOOR		APLES 1" CROWN, 16GA., 1-3/4" LONG 4-8d BOX (2-1/2"x0.113"); OR 3-8d COMMON (2-1/2"x0.131"); OR	T	DE NAIL		
22	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP		3-10d BOX (3"x0.128"); OR 3-3"x0.131" NAILS 8d BOX (2-1/2"x0.113" 8d COMMON (2-1/2"x0.131")	4" O.C. TOE NAIL			
23	PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST		2-8d	10d BOX (3"x0.128"); OR 3"x0.131" NAILS BOX (2-1/2"x0.113"); OR COMMON (2-1/2"x0.131"); OR		TOE NAIL CE NAIL	
			3-10 2 ST/	d BOX (3"x0.128"); OR APLES, 1" CROWN, 16GA., 1-3/4" LONG 3-16d BOX (3-1/2"x0.135"); OR			
24 25	2" PLANKS (PLANK & BEAM-FLOOR & ROOF)		2-16d COMMON (3-1/2"x0.162") 3-16d BOX (3-1/2"x0.135"); OR 2-16d COMMON (3-1/2"x0.162")	AT EACH FACE			
26	BAND OR RIM JOIST TO JOIST			3-16d COMMON (3-1/2"x0.162"); OR 4-10d BOX (3"x0.128"), OR 4-3"x0.131" NAILS; OR 4-3"x14 GA. STAPLES, 7/16" CROWN		NAIL	
				20d COMMON (4"x0.192"); OR	NAIL EACH LAYE 32" O.C. AT TOR AND STAGGERED	AND BOTTON	
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER	LAYERS		10d BOX (3"x0.128"); OR 3"x0.131" NAILS	24" O.C. FACE I AND BOTTOM ST OPPOSITE SIDES	NAIL AT TOP	
				AND: 2-20d COMMON (4"x1.192"); OR 3-10 BOX (3x0.128"); OR 3-3"x0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE		
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS		4-16d BOX (3-1/2"x0.135"); OR 3-16d COMMON (3-1/2"x0.162"); OR 4-10d BOX (3"x1.128"); OR 4-3"x0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL			
29	BRIDGING TO JOIST			2-10d (3"x0.128")	EACH END, SPACING OF		
EM	DESCRIPTION OF BUILDING ELEM			NUMBER & TYPE OF FASTENER a,b,c	EDGES (inches) h	INTERMITTENT SUPPORTS (inches)	
	. ,	ood structural	panel	to framing and particleboard wall sheat exterior wall sheathing to wall framing] .113")NAIL (SUBFLOOR, WALL) i	T	-	
30	3/8" - 1/2" 19/32" - 1"	8d COMMON	V (2-1	/2"x0.131") NAIL (ROOF) (2-1/2"x0.131")	6	12 ^f	
31		10d COMMON	N (3"x0 "x0.131	0.148") NAIL; OR ") DEFORMED NAIL	6	12	
	1-1/8" - 1-1/4"		-EATLIN	NG 9			
32		THER WALL S	LVANIZE	D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG	3	6	
32 33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD	DTHER WALL SI 1-1/2" GAL DIAMETER, (1-3/4" GAL DIAMETER, (LVANIZE DR 1" (LVANIZE DR 1" (D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG	3	6	
32 33 34 35	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 25/35" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING d	DTHER WALL S 1-1/2" GAL DIAMETER, (1-3/4" GAL DIAMETER, (1-1/2" GAL 1-1/2" LON	LVANIZE DR 1" (LVANIZE DR 1" (LVANIZE NG; 1-	D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG D ROOFING NAIL, 7/16" HEAD	7	6 7	
32 33 34 35 36	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 25/35" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING d 1/2" GYPSUM SHEATHING d WOOD STRUCTURAL PANELS, G	1-1/2" GAI DIAMETER, (1-3/4" GAI DIAMETER, (1-1/2" GAI 1-1/2" GAI 1-1/2" LOI 1-3/4" GAI 1-5/8" LOI COMBINATION S	LVANIZE DR 1" (LVANIZE DR 1" (LVANIZE NG; 1- LVANIZE NG; 1- SUBFLOCE ED (2")	D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG D ROOFING NAIL; STAPLE GALVANIZED, 1/4" SCREWS, TYPE W OR S D ROOFING NAIL; STAPLE GALVANIZED, 5/8" SCREWS, TYPE W OR S OR UNDERLAYMENT TO FRAMING KO.120") NAIL; OR	3 7 7	6 7 7	
31 32 33 34 35 36 37	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 25/35" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING d 1/2" GYPSUM SHEATHING d	DTHER WALL S 1-1/2" GAL DIAMETER, C 1-3/4" GAL DIAMETER, C 1-1/2" GAL 1-1/2" LOI 1-3/4" GAL 1-5/8" LOI COMBINATION S 6d DEFORM 8d COMMON	LVANIZE DR 1" (LVANIZE DR 1" (LVANIZE NG; 1— LVANIZE NG; 1— SUBFLOO ED (2") N (2-1, N (2"x0	D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG D ROOFING NAIL, 7/16" HEAD CROWN STAPLE 16 ga., 1-1/4" LONG D ROOFING NAIL; STAPLE GALVANIZED, 1/4" SCREWS, TYPE W OR S D ROOFING NAIL; STAPLE GALVANIZED, 5/8" SCREWS, TYPE W OR S OR UNDERLAYMENT TO FRAMING	7	6 7	

8d DEFORMED (2-1/2"x0.120") NAIL FOR SI: 1 INCH = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi=6.895 MPa TABLE R602.3 (1) - CONTINUED FASTENING SCHEDULE

a. NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED, NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20d COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK DIAMETERS OF

STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16—INCH ON DIAMETER CROWN WIDTH.

NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.

FOUR—FOOT BY 8—FOOT OR 4—FOOT BY 9—FOOT PANELS SHALL BE APPLIED VERTICALLY.

SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48—INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS; AND 4 INCHES ON CENTER TO GABLE END WALL FRAMING.

G. GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL

CONFORM TO ASTM C208. h. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE

j. INTERIOR NON-BRACED WALL LINES MAY BE NAILED WITH A MINIMUM 4-10d NAILS.

OSSC - 2304.9.5.1 FASTENERS AND CONNECTORS FOR PRESERVATIVE-TREATED WOOD.

Fasteners, including nuts and washers, in contact with preservative—treated wood shall be of hot—dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, timber rivets, wood screws and lag screws shall be permitted to be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum. Connectors that are used in exterior applications and in contact with preservative—treated wood shall have coating types and weights in accordance with the treated wood or connector manufacturer's recommendations. In the absence of manufacturer's recommendations, a minimum of ASTM A 653, type G185 zinc-coated galvanized steel, or equivalent, shall be used.

Exception: Plain carbon steel fasteners, including nuts and washers, in SBX/DOT and zinc borate preservative—treated wood in an interior, dry environment shall be permited.

TABLE R602.3 (2)

		ALTERNATE ATTACHMENTS TO TABLE I	R602.3(1		VANUAC OF EVETTIMES	
	DMINAL MATERIAL THICKNESS DESCRIPTION OF FASTENER AND LENGTH			SPACING ^C OF FASTENERS		
<u> </u>	ICHES)	(INCHES)		(INCHES)	INTERMEDIATE SUPPORTS (INCHES)	
VOOD SIRUCIO	JRAL PANELS SUBF	LOOR, ROOF ⁹ AND WALL SHEATHING TO FRAMING AN	D PARIK		T	
		STAPLE 15 GAGE 1 3/4		4	8	
UP	TO 1/2	0.097 - 0.099 NAIL 2 1/4		3	6	
		STAPLE 16 GAGE 1 3/4		3	6	
19/32	AND 5/8	0.113 NAIL 2	3		6	
		STAPLE 15 AND 16 GAGE 2		4	8	
		0.097 - 0.099 NAIL 2 1/4	4		8	
23/32	AND 3/4	STAPLE 14 GAGE 2		4	8	
		STAPLE 15 GAGE 1 3/4		3	6	
		0.097 - 0.099 NAIL 2 1/4		4	8	
		STAPLE 16 GAGE 2		4	8	
		STAPLE 14 GAGE 2 1/4		4	8	
	1	0.113 NAIL 2 1/4,		3	6	
		STAPLE 15 GAGE 2 1/4		4	8	
		0.097 - 0.099 NAIL 2 1/2		4	8	
NOMINAL MAT	ERIAL THICKNESS	DESCRIPTION ^{a,b} of fastener and length		SPA	ACING ^C OF FASTENERS	
(IN	CHES)	(INCHES)	EDGES	(INCHES)	BODY OF PANEL ^d (INCHES)	
LOOR UNDERL	AYMENT; PLYWOOD-	-HARDBOARD-PARTICLEBOARD - FIBER- CEMENT h				
FIBER- CEME	NT					
		RESISTANT, RING SHANK NAILS ING OTHER THAN TILE)		3	6	
1/4		., 7/8, LONG, 1/4 CROWN ING OTHER THAN TILE)		3	6	
		121 SHANK x.375 HEAD DIAMETER CORROSION—RESISTAILESS STEEL) ROOFING NAILS (FOR TILE FINISH)	STANT	8	8	
	1-1/4 LONG, N	o. 8 x .375 HEAD DIAMETER, RIBBED WAFER-HEAD (FOR TILE FINISH)	SCREWS	8	8	
PL	YWOOD					
1/4 AND 5/16		1 1/4 RING OR SCREW SHANK NAIL – MINIMUM 12 1/2 GAGE (0.099") SHANK DIAMETER		3	6	
		STAPLE 18 GAGE., 7/8, 3/16 CROWN WIDTH		2	5	
11/32, 3/8,	3/8, 15/32 AND 1/2		6	8e		
19/32, 5/8, 23/32 AND 3/4		1 1/2 RING OR SCREW SHANK NAIL – MINIMUM 12 1/2 GAGE (0.099") SHANK DIAMETER	6		8	
		STAPLE 16 GAGE, 1 1/2	6		8	
HAR	DBOARD ^f					
0	0.200	1 1/2 LONG RING-GROOVED UNDERLAYMENT NAIL		6	6	
		4d CEMENT-COATED SINKER NAIL		6	6	
		STAPLE 18 GAGE, 7/8 LONG (PLASTIC COATED)	3		6	
	CLEBOARD					
PARTIC		4 - 500 - 5500 /55 - 100550 - 100550 - 1005		3	6	
	1/4	4d RING-GROOVED UNDERLAYMENT NAIL	3			
	1/4	STAPLE 18 GAGE, 7/8 LONG, 3/16 CROWN		3	6	
	3/8			6	6 10	
		STAPLE 18 GAGE, 7/8 LONG, 3/16 CROWN			-	
		STAPLE 18 GAGE, 7/8 LONG, 3/16 CROWN 6d RING-GROOVED UNDERLAYMENT NAIL		6	10	

ALTERNATE ATTACHMENTS TO TABLE R602.3(1) - CONTINUE

FOR **SI**: 1 INCH = 25.4mm a. Nail is a general description and shall be permitted to be t—head, modified round head or round head.

b. Staples shall have a minimum crown width of 7/16—inch on diameter except as noted.

c. Nails or staples shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater. Nails or staples shall be spaced at not more than 12 inches on center at intermediate supports for floors. d. FASTENERS SHALL BE PLACED IN A GRID PATTERN THROUGHOUT THE BODY OF THE PANEL.

e. FOR 5-PLY PANELS, INTERMEDIATE NAILS SHALL BE SPACED NOT MORE THAN 12 INCHES ON CENTER EACH WAY.

G. HARDBOARD UNDERLAYMENT SHALL CONFORM TO CPA/ANSI A135.4.

g. SPECIFIED ALTERNATE ATTACHMENTS FOR ROOF SHEATHING SHALL BE PERMITED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH.

FASTENERS ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE INSTALLED USING THE SPACING LISTED FOR PANEL EDGES. h. FIBER-CEMENT UNDERLAYMENT SHALL CONFORM TO ASTM C1288 OR ISO 8336, CATEGORY C.

		TABLE N1101.1(2) ADDITIONAL MEASURES					
ct One)	1	High efficiency walls: Exterior walls - U-0.045/R-21 cavity insulation + R-5 continuous					
ıre (Select	2	Upgraded features: Exterior walls — U—0.057/R—23 intermediate or R—21 advanced, Framed Floors — U—0.026/R—38, and Windows — U—0.28 (average UA)					
Envelope Enhancement Measure	3	Upgraded features: Exterior wall — U—0.055/R—23 intermediate or R—21 advanced, Flat ceilings ^e — U—0.017/R—60, and Framed floors — U—0.026/R—38					
	4	Super Insulated Windows and Attic OR Framed Floors: Windows — U-0.22 (Triple pane Low-e), and Flat ceilings ^e — U-0.017/R-60 or Framed floors — U-0.026/R-38					
	5	Air sealing home and ducts: Mandatory air sealing of all wall coverings at top plate and air sealing checklist ^f , and Mechanical whole building ventilation system with rates meeting M1503 or ASHRAE 62.2, and —All ducts and air handlers contained within building envelope ^d or All ducts sealed with mastic ^b					
Enve	6	High efficiency thermal envelope UA: 9 Proposed UA is 8% lower than the code UA					
Conservation Measure (Select One)	A	High efficiency HVAC system: ^a Gas-fired furnace or boiler with minimum AFUE of 94%, or Air source heat pump HSPF 9.5/15.0 SEER cooling, or Ground source heat pump COP 3.5 or Energy Star rated					
	В	Ducted HVAC systems within conditioned space: All ducts and air handlers contained within building envelope ^d Cannot be combined with measure 5					
ıservat (Sele	С	Ductless heat pump: Ductless heat pump HSPF 10.0 in primary zone of dwelling					
Cor	D	High efficiency water heater: ^C Natural gas/propane water heater with UEF 0.85 OR Electric heat pump water heater Tier 1 Northern Climate Specification Product					
Fo	- 01.	1 SOUAPE foot - 0.003 m3 1 WATT DEP SOUAPE FOOT - 10.8w/M2					

For SI: 1 SQUARE foot = 0.093 m3, 1 WATT PER SQUARE FOOT = 10.8w/M2

a. Appliances located within the building thermal envelope shall have sealed combustion air installed. Combustion air shall be ducted directly from the outdoors. All duct joints and seams sealed with listed mastic; tape is only allowed at appliance or equipment connections (for service and replacement). Meet sealing

criteria of Performance Tested Comfort Systems program administered by the Bonneville Power Administration (BPA). Residential water heaters less than 55 galon storage volume. A total of 5 percent of an HVAC system's ductwork shall be permitted to be located outside of the conditioned space. Ducts located outside the conditioned space shall have insulation installed as required in this code.

of the total vertical wall area may adjust the Code UA to have 15 percent of the wall area as fenestration.

e. The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated space floor area unless vaulted area has a U-factor no greater than U-0.026.

Continuous air barrier. Additional requirement for sealing of all interior vertical wall covering to top plate framing. Sealing with foam gasket, caulk or other approved sealant listed for sealing wall covering material to structural material (example: gypsum board to wood stud framing). Table N1104.1(1) Standard base case design, Code UA shall be at least 8 percent less than the Proposed UA. Buildings with fenestration less than 15 percent

REVIEWED F CODE COMPLIANCE

Date: 02/08/21 Permit #: 20-172950-000-00-RS

PLAN 1547-1752