FRONT ELEVATION
SCALE: 1/4'-1'-0'



RIGHT ELEVATION
SCALE: 1/4'-1'-0'

PLAN NUMBER 11509C

THE PRICH

D E S I G N · I N C . 1 16865 Boones Ferry Road, Suite 103, Lake Oswego, Oregon 97035 Tel: (503) 624 0555 Fax: (503) 624 0155

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PLAN NR: <u>11509C</u>

JOB

NAME: <u>PRICHARD C</u>



TIT. NW GRIT.

ACL COMPOSITION RECORD

ONLY THE STATE OF THE STATE

OF TAILS GRIT SCARD

REAR ELEVATION

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

TO RIVER

TO SERVE THE SERVE S

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

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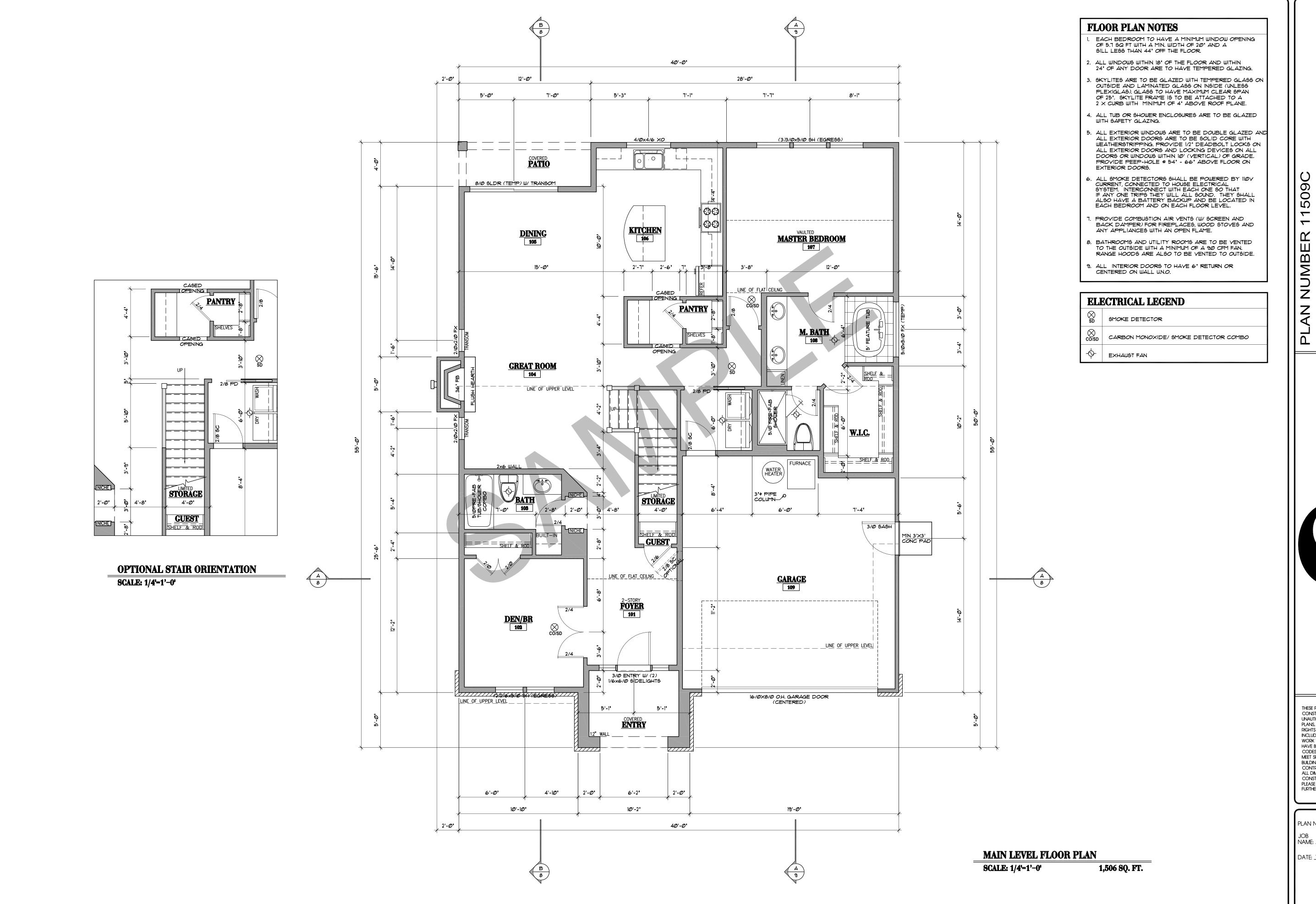
PLAN NR: <u>11509C</u>

JOB

NAME: <u>PRICHARD C</u>

DATE: <u>1/09</u>

2



Some Farry Board Suite 103 Jake Deward Oregan 57035

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JOB NAME: <u>PRICHARD C</u>

DATE: <u>1/09</u>

3

FLOOR PLAN NOTES

- EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.7 SQ FT WITH A MIN. WIDTH OF 20" AND A SILL LESS THAN 44" OFF THE FLOOR.
- . ALL WINDOWS WITHIN 18" OF THE FLOOR AND WITHIN 24" OF ANY DOOR ARE TO HAVE TEMPERED GLAZING.
- B. SKYLITES ARE TO BE GLAZED WITH TEMPERED GLASS ON OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS PLEXIGLAS). GLASS TO HAVE MAXIMUM CLEAR SPAN OF 25". SKYLITE FRAME IS TO BE ATTACHED TO A
- 4. ALL TUB OR SHOWER ENCLOSURES ARE TO BE GLAZED WITH SAFETY GLAZING.

2 X CURB WITH MINIMUM OF 4" ABOVE ROOF PLANE.

- 5. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH WEATHERSTRIPPING. PROVIDE 1/2" DEADBOLT LOCKS ON ALL EXTERIOR DOORS AND LOCKING DEVICES ON ALL DOORS OR WINDOWS WITHIN 10' (VERTICAL) OF GRADE. PROVIDE PEEP-HOLE @ 54" - 66" ABOVE FLOOR ON EXTERIOR DOORS.
- 6. ALL SMOKE DETECTORS SHALL BE POWERED BY 110V CURRENT, CONNECTED TO HOUSE ELECTRICAL SYSTEM. INTERCONNECT WITH EACH ONE SO THAT IF ANY ONE TRIPS THEY WILL ALL SOUND. THEY SHALL ALSO HAVE A BATTERY BACKUP AND BE LOCATED IN EACH BEDROOM AND ON EACH FLOOR LEVEL.
- . PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND ANY APPLIANCES WITH AN OPEN FLAME.
- 8. BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF A 90 CFM FAN. RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE.
- 9. ALL INTERIOR DOORS TO HAVE 6' RETURN OR CENTERED ON WALL UN.O.

ELECTRICAL LEGEND

SMOKE DETECTOR

CARBON MONOXIDE/ SMOKE DETECTOR COMBO

EXHAUST FAN

509C

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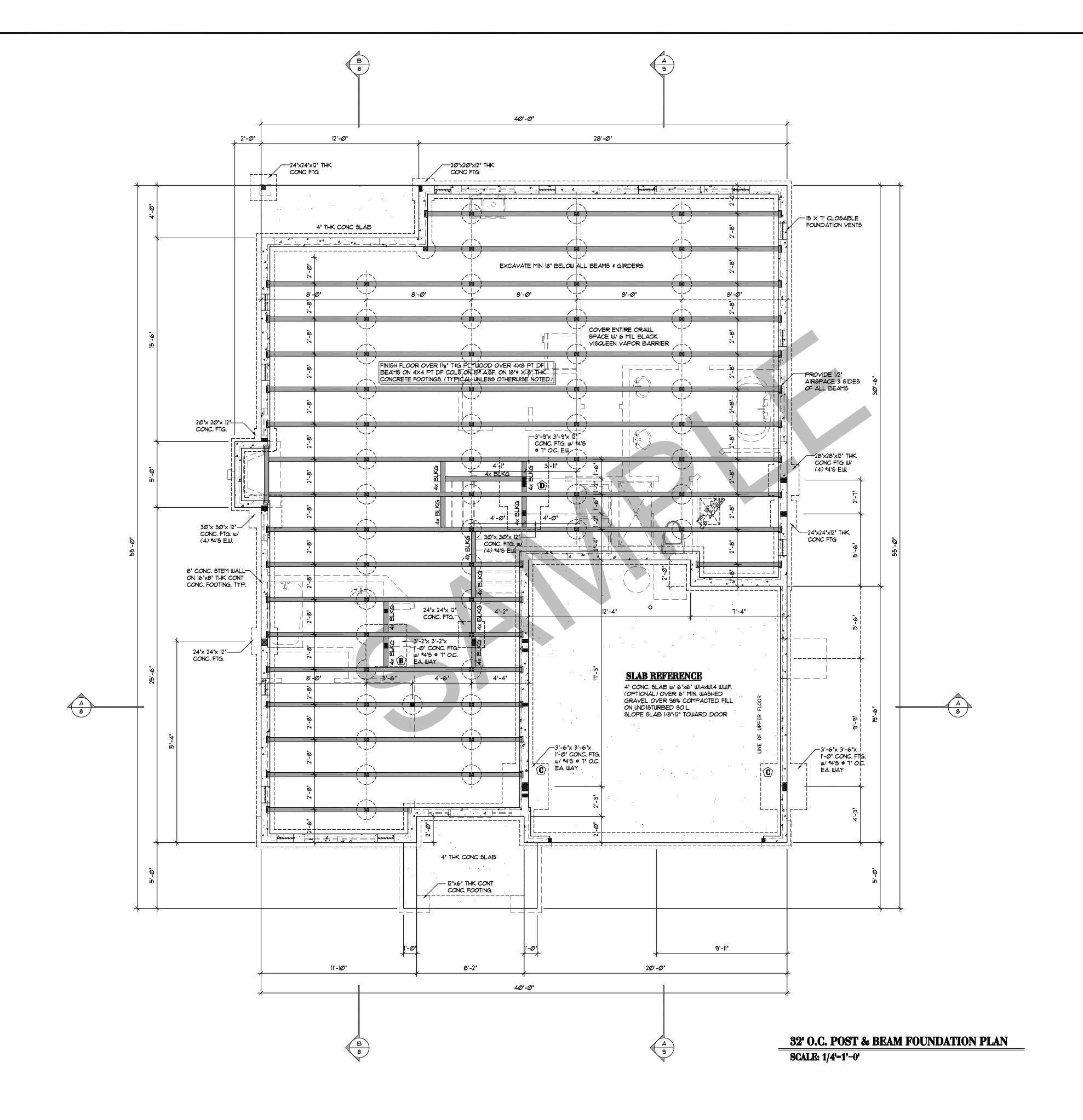
JOB NAME: <u>PRICHARD C</u>

DATE: <u>1/09</u>

UPPER LEVEL FLOOR PLAN

892 SQ. FT.

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



FOUNDATION NOTES

- FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW

- CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25'
- . CONCRETE SIDEWALKS TO HAVE 3/4" TOOLED JOINTS AT 5' O.C. (MINIMUM)
- REINFORCING STEEL TO BE A-615 GRADE 40. WELDED

- 'VISQUEEN' AND EXTEND UP FOTN. WALLS TO P.T. MUDSILL.
- 10. PROVIDE A MINIMUM OF I SQ FT OF VENTILATION AREA FOR EACH 150 SQ FT OF CRAWLSPACE AREA. VENTS ARE TO BE CLOSABLE WITH 1/4' OPENINGS IN CORROSIVE
- 2. BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE
- 3. PROVIDE CRAWLSPACE DRAIN AS PER I.R.C.
- Ø SILL ENDS & CORNERS (VERIFY W/ SHEAR WALL SCHEDULE FOR A.B. SPACING & HOLDDOWN REQUIREMENTS).
- THICKENING AS NEEDED FOR ANCHOR BOLTS & HOLDOWN LOCATIONS.
- STEM WALLS & SLABS PRIOR TO POURING.

REFER TO SHEAR SHEETS FOR SHEAR PANEL & ANCHOR BOLT SPACING **INFORMATION**

FOOTING LEGEND

SYMBOL	DESCRIPTION
(A)	2'-10'x 2'-10'x 1'-0' CONC. FTG.
\ A /	w/ *4'S @ 6' O.C. EA. WAY
(B)	3'-2"x 3'-2"x 1'-Ø" CONC. FTG. w/
	*4'5 @ 7' O.C. EA. WAY
(C)	3'-6'x 3'-6'x 1'-0' CONC. FTG.
	w/ *4'5 @ 1' O.C. EA. WAY
$\langle \widehat{\mathbf{D}} \rangle$	3'-9'x 3'-9'x 1'-0' CONC. FTG.
	w/ *4'5 @ 7' O.C. EA. WAY
$\langle \hat{\mathbf{E}} \rangle$	4'-0'x 4'-0'x 1'-0' CONC. FTG.
	w/ *4'5 @ 8' O.C. EA. WAY 4'-4'x 4'-4'x 1'-0' CONC. FTG.
⟨F ⟩	w/ *4'5 @ 7' O.C. EA. WAY
	4'-6'x 4'-6'x 1'-0' CONC. FTG.
$\langle \widehat{\mathbf{G}} \rangle$	w/ *4'5 @ 7' O.C. EA. WAY
<u> </u>	4'-8'x 4'-8'x 1'-0' CONC. FTG.
$\langle \hat{\mathbf{H}} \rangle$	w/ *4'S @ 8' O.C. EA. WAY
<u> </u>	4'-10'x 4'-10'x 1'-0' CONC. FTG.
Î	w/ *4'S @ 7" O.C. EA. WAY
$\widehat{\mathbf{J}}$	1'-4" x8" CONT. CONC. FOOTING w/ (3) *4'5
\J/	CONTINUOUS
K	1'-6" x10" CONT. CONC. FOOTING w/ (3) *4'5
\ A /	CONTINUOUS
$\langle \hat{\mathbf{L}} \rangle$	1'-0" x6" CONT. CONC. FOOTING w/ (2) *4'8
\ L /	CONTINUOUS

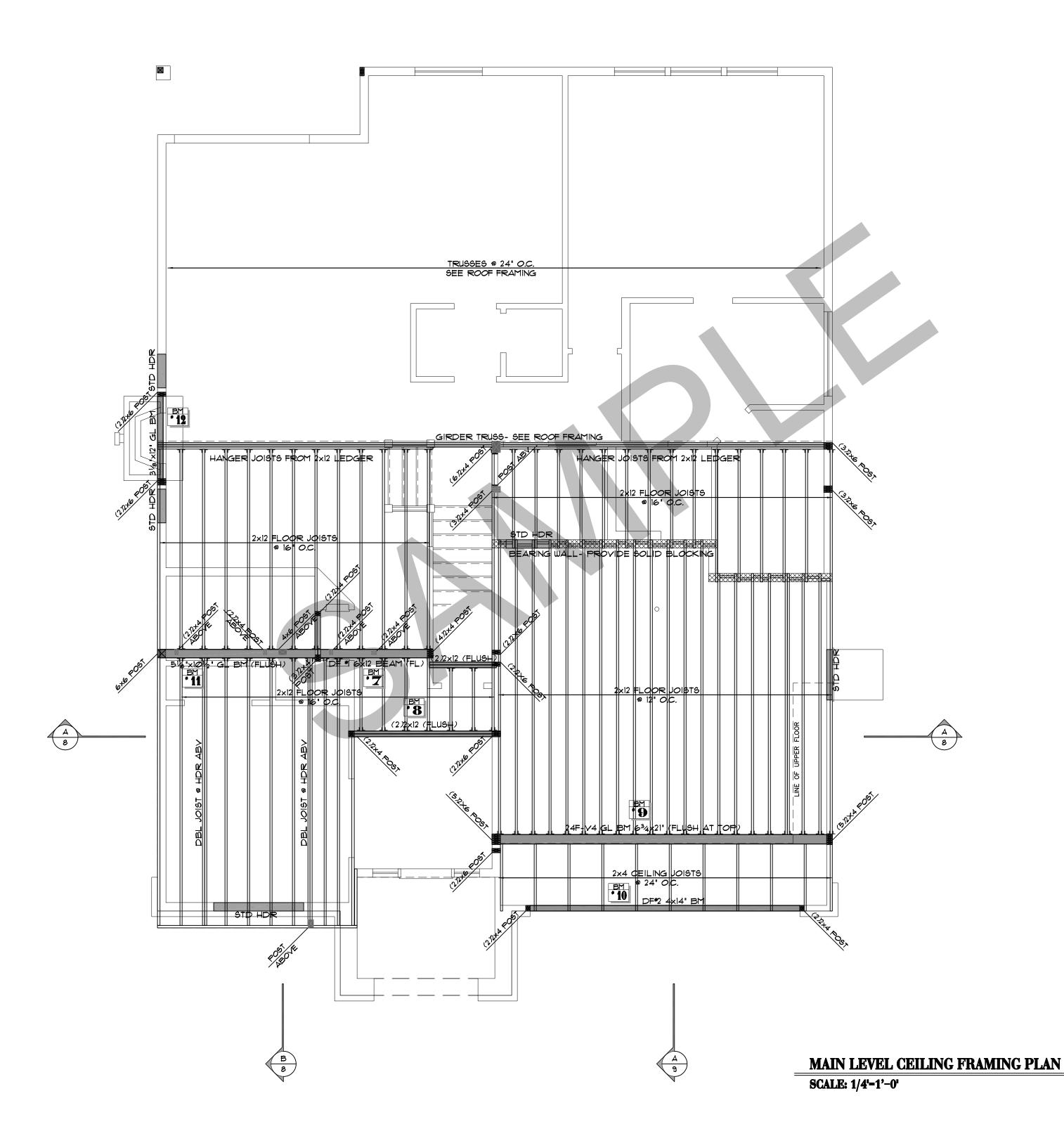
- THE FINAL GRADE.
- 2. SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF.
- ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4" GRANULAR MATERIAL COMPACTED TO 98%.
- CONCRETE TO DEVELOP A MIN. OF 3000 PSI AT 28 DAYS WITH A MIN. OF 6 SACKS OF CEMENT PER YARD AND A MAXIMUM SLUMP OF 4".
- (MAXIMUM) INTERVALS EA. WAY.
- WIRE MESH TO BE A-185.
- B. EXCAYATE THE SITE TO PROVIDE A MINIMUM OF 18' CLEARANCE UNDER ALL GIRDERS.
- COVER ENTIRE CRAWLSPACE WITH 6 MIL BLACK
- I. ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 55* ROLL ROOFING.
- AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3".
- 14. PROVIDE $\frac{1}{2}$ 'XIØ" ANCHOR BOLTS @ 48' O.C. & MAX. 12'
- 15. ALL PONY WALLS TO BE 2x4 U.N.O.
- 16. CONCRETE CONTRACTOR TO VERIFY ALL T.O. CONCRETE
- 7. FOOTING SIZE CALLOUTS ARE MINIMUM AND REQUIRE
- 18. VERIFY SIZE & EXTENTS W/ ENGINEERED RETAINING: WALL DETAILS AS NEEDED.
- 19. VERIFY ALL SIZE & EXTENTS OF UTILITY SLEEVES THROUGH

5

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PLAN NR: <u>11509C</u>

NAME: PRICHARD C



FRAMING NOTES

- ALL EXTERIOR WALL OPENINGS AND BEARING WALL OPENINGS TO HAVE 4 X 12 HEADERS UNLESS OTHERWISE INDICATED
- 2. JOISTS THAT ARE ATTACHED TO FLUSH BEAMS ARE TO BE HUNG WITH "SIMPSON" LU TYPE OR EQUIV.
- . PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS OVER.
- 4. PROVIDE FIREBLOCKING, DRAFTSTOPS & FIRESTOPS AS PER THE I.R.C.
- 5. LUMBER SPECIES: A. POSTS, BEAMS, HEADERS JOISTS AND RAFTERS B. SILLS, PLATES, BLOCKING NO.2 DOUG FIR NO.3 DOUG FIR BRIDGING, ETC. C. STUDS
- STUD GRADE D.F. UTILITY GRADE D.F. 1/2" CDX PLY, 32/16 fb-2400, DRY ADH. D. POST AND BEAM DECKING E. PLYWOOD SHEATHING F. GLU-LAM BEAMS

•	NAILING SCHEDULE JOIST TO SILL OR GIRDER	3-8d	TOE NAIL
	BRIDGING TO JOIST	2-8d	TOE NAIL
	2" SUBFLOOR TO GIRDER	2-16d	BLIND & FACE
	SOLE PLATE TO JOIST	16d @ 16"	FACE NAIL
	TOP PL. TO STUDS	2-16d	END NAIL
	STUD TO SOLE PLATE	4-8d	TO NAIL OR
		2-16d	END NAIL
	DOUBLE STUDS	16d @ 24"	FACE NAIL
	DOUBLE TOP PL.	16d @ 24"	FACE NAIL
	CONTINUOUS HEADER (2PC)	16d @ 16'	EDGE NAIL
	CLG. JST TO PLATE	3-8d	TOE NAIL
	CLG. JST LAP OVER PLATE	3-16d	FACE NAIL
	CLK. JST TO RAFTER	3-16d	FACE NAIL
	RAFTER TO TOP PLATE	2-16d	TOE NAIL
	BUILT-UP CORNER STUDS	16d @ 24"	FACE NAIL
	PLYWOOD SUBFLOOR	8d ම 6 '	EDGE NAIL
		8d ම 12"	FIELD
	PLYWALL/ROOF SHEATHING	8d @ 6"	EDGE NAIL
		8d ම 12 "	FIELD NAIL
	TOP DI AT INITEDSECTIONS	2 1/ -	E 4 C E \$1 4 H

TOP PL. AT INTERSECTIONS 2-16d FACE NAIL MULTIPLE JOISTS (UP TO 3) 16d @ 15' STAGGER NAIL MULTIPLE JOISTS (OVER 3 1/2 + BOLTS W/ WASHERS EA. SIDE @ 24" C/C
1 X 6 SPACED SHEATHING 2-8d

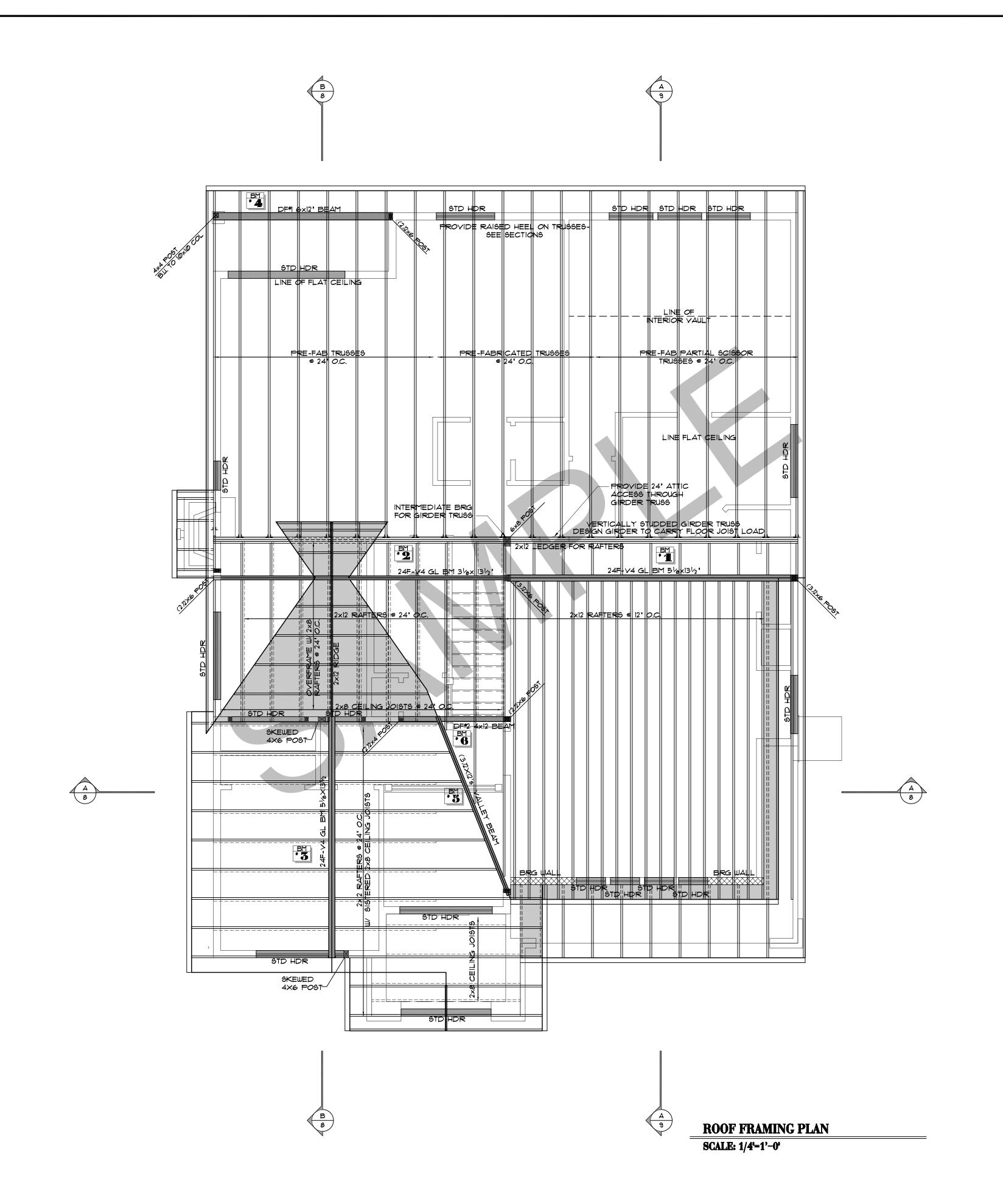
FACE NAIL

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3-8d	TOE NAIL
2-8d	TOE NAIL
2-16d	BLIND & FACE
16d @ 16"	FACE NAIL
2-16d	END NAIL
4-8d	TO NAIL OR
2-16d	END NAIL
16d @ 24"	FACE NAIL
16d @ 24"	FACE NAIL
16d @ 16"	EDGE NAIL
3-8d	TOE NAIL
3-16d	FACE NAIL
3-16d	FACE NAIL
2-16d	TOE NAIL
16d @ 24"	FACE NAIL
8d @ 6'	EDGE NAIL
8d @ 12"	FIELD
8d @ 6"	EDGE NAIL
8d @ 12"	FIELD NAIL
2-16d	FACE NAIL
2-16d 16d @ 15" ½" ¢ BOLTS	STAGGER NAIL
	2-8d 2-16d 16d a 16" 2-16d 4-8d 2-16d a 24" 16d a 24" 16d a 16" 3-8d 3-16d a 16' 3-16d a 24" 8d a 6' 8d a 12" 8d a 12" 8d a 12" 8d a 12"

W/ WASHERS EA. SIDE @ 24" C/C

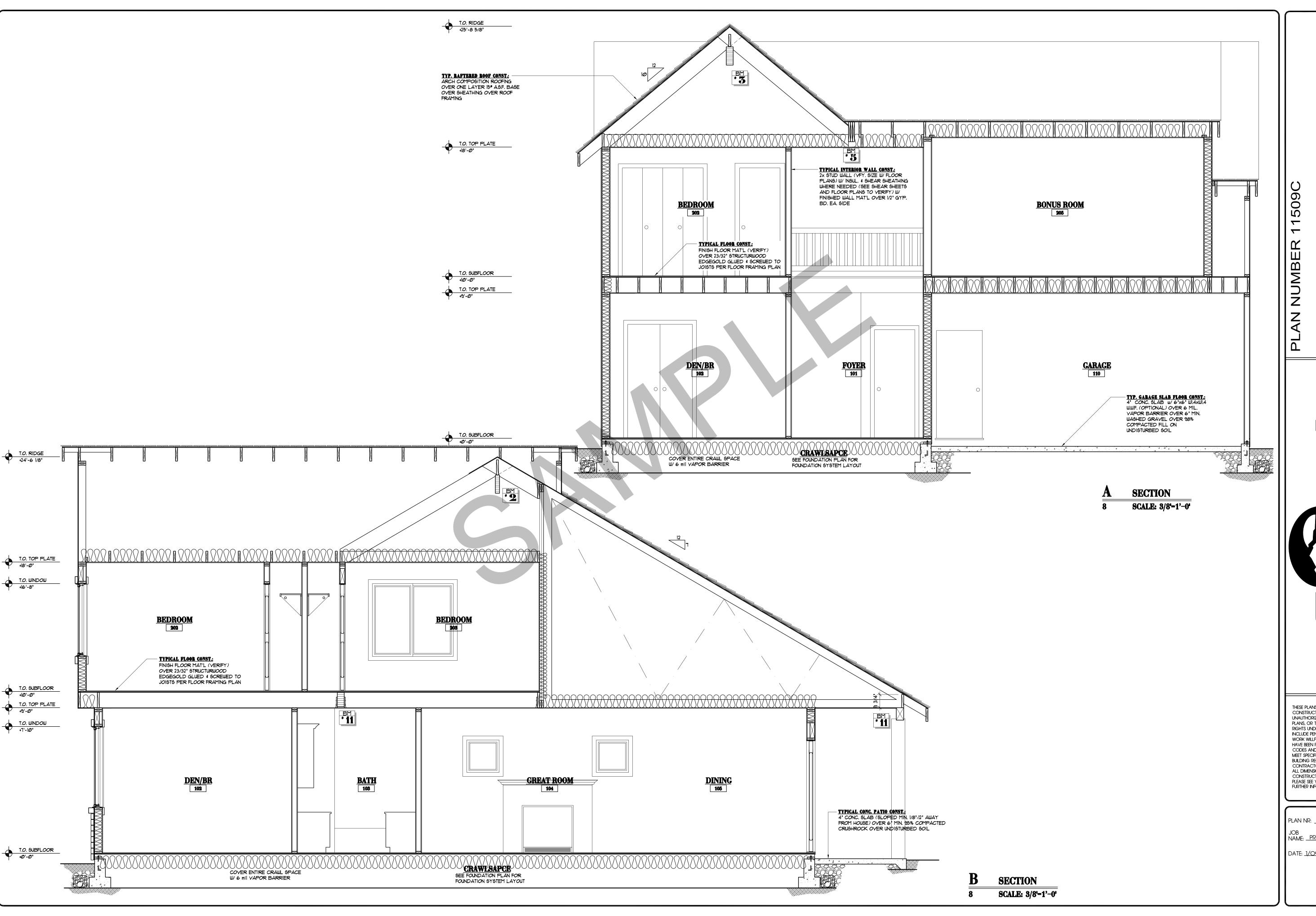
1 X 6 SPACED SHEATHING 2-8d FACE NAIL 1509C

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PLAN NR: <u>11509</u>C

SECTION

SCALE: 3/8'-1'-0'

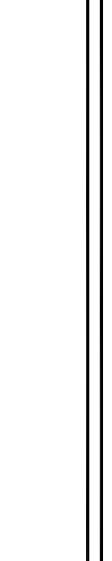
JOB NAME: <u>PRICHARD C</u>









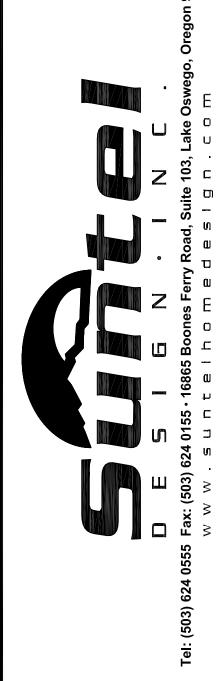


VERIFY CLRNC W/ AS BUILT DIMS. NOTIFY DESIGN PROFESSIONAL OF ANY CONFLICT W/ CODE REGS. PRIOR TO STAIR CONST.

MIN. 4 11/4 ميرد

MAX. NOSING

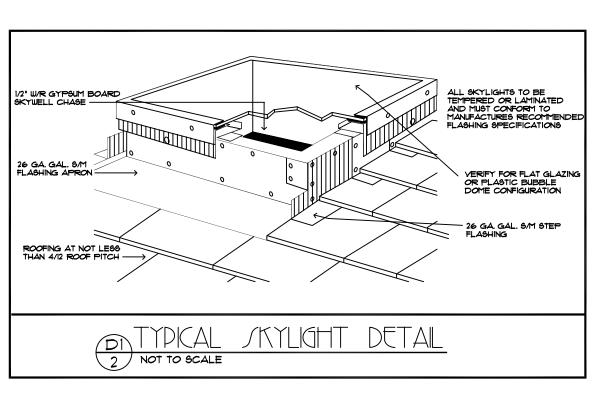
STRINGER NAILER

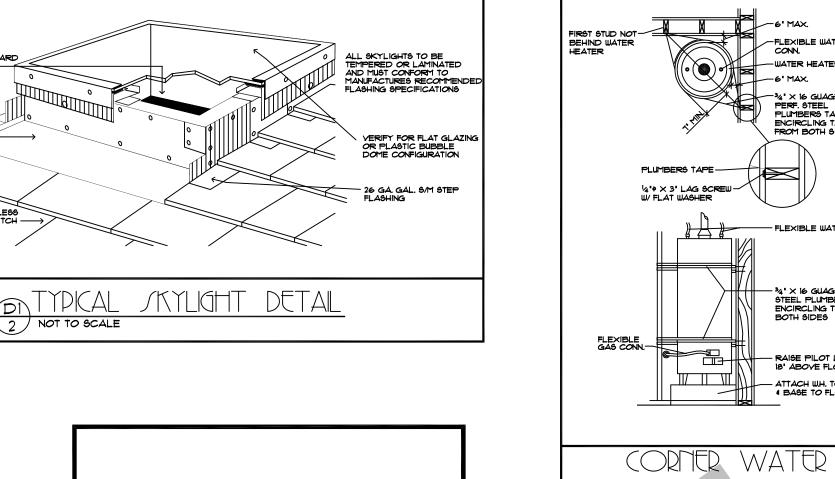


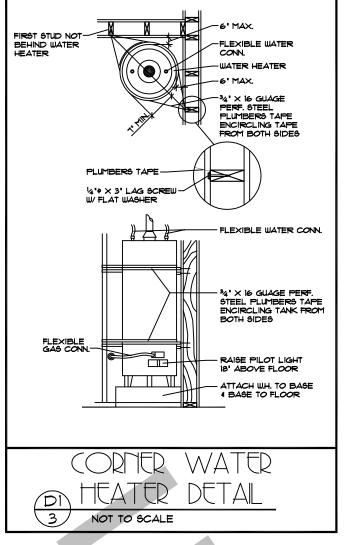
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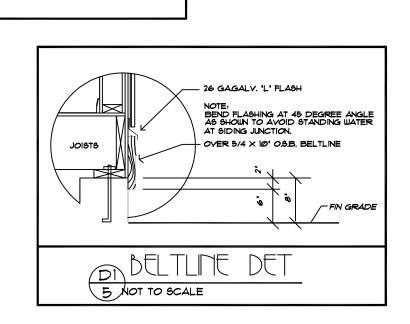
DATE: <u>07/08</u>







ARCH COMP ROOFING OVER



FINISH FLR OVER 1/2" THK PARTICLE BOARD OVER 3/4" T AND G P/W SUBFLR —

1/2" X 10" A.B.'S THRU 2 X 6 P.T. PLATE —

6 MIL. VISQUEEN UNDERLAYMENT —

R-30 INSULATION

(2) 16D — TOENAIL

2× SPACED CEDAR -

DBL. 2X MEMBER OR -4X MEMBER RIM JOIST.

5/8" + THROUGH BOLTS W/ NUTS -

AND 1 " DIA. \times 3/16" WASHERS. EA. SIDE. 4X6 CEDAR NEWELL TO RIM JOIST.

14" × 3" × 6" × 0"-9" -STEEL ANGLE

- EXTERIOR WALL

2× LEDGER

DECKING

DOUBLE 2X — JOIST

DECK DETALS

NOT TO SCALE

BEAM (REFER TO FRAMING

- SEE LAT ENG FOR CONN TYPE (OR SIMPSON CB CONN)

- 4 × 4 DF COL BU TO 6×6 (UNLESS NOTED OTHERWISE)

ALL FTGS SUPPORTING ROOFS - MUST EXTEND BELOW 18" FROST DEPTH OR LOCAL REQ.

— SEE FOUNDATION PLAN FOR FOOTING SPEC'S

∕ 2 × FASCIA BD

PLAN FOR BEAM SIZE)

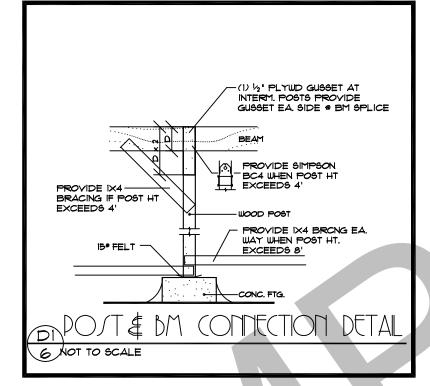
BOLT DECK LEDGER TO RIM JOIST W/ 5/6 '\$ AT 16' O.C. AND (2) ROWS 16d AT 8' O.C.

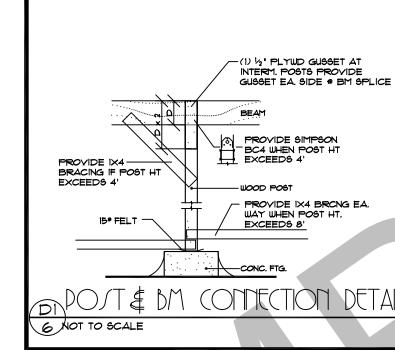
(USE 2-5/8' BOLTS IF \ JOIST SPAN GREATER THAN 10'-0'.)

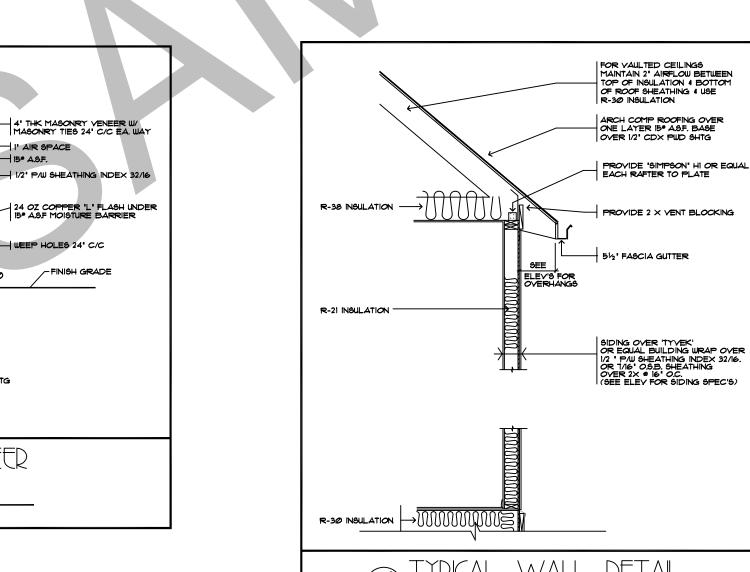
FLOOR JOIST -

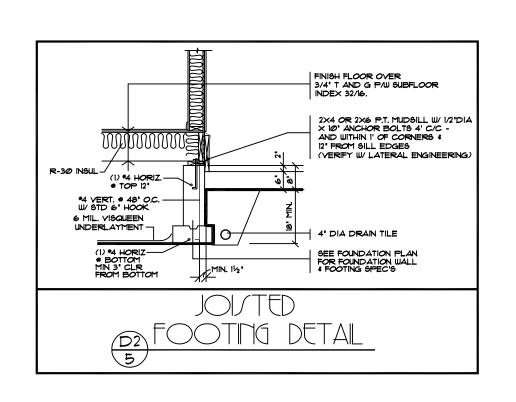
2× STUD WALL-

SPA-RATED_









STAIR CLEATS

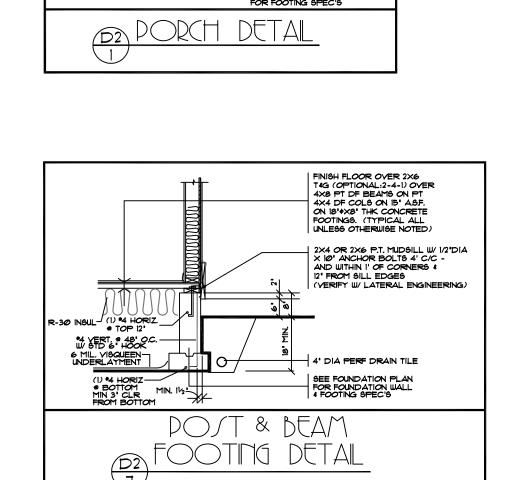
TYPICAL STAR SECTION

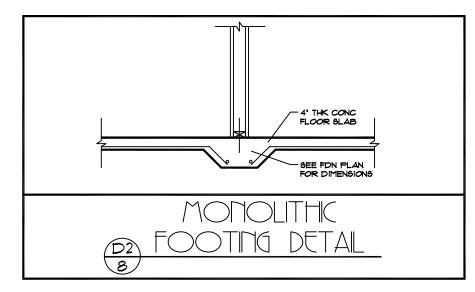
NOT TO SCALE

3-2×12 STAIR STRINGERS-

MIN. RUN 9"

MAX. RISE 8"





I' AIR SPACE

FINISH GRADE

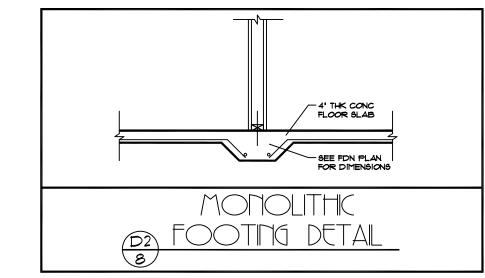
15* A.S.F.

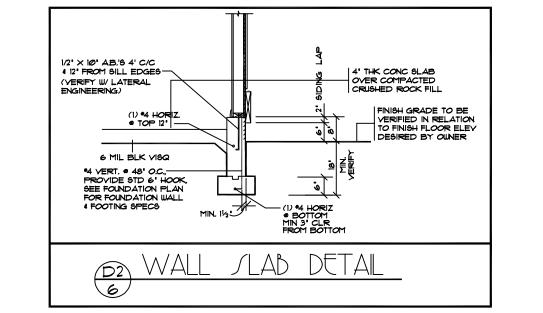
GROUTE.0000

ON 16' X 8' THK CONC FTG

MASORY VEHEER

WALL DETAL





AND IS TO NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS.

4. DESIGN LOADS: ROOF 25 PSF (LIVE LOAD) 40 PSF (LIVE LOAD) STAIRS 100 PSF GARAGE FLOOR 125 PSF (2000* PT) DECKS 75 PSF

(IF YOUR LOCAL AREA REQUIRES DIFFERENT DESIGN LOADS, CONSULT WITH A LOCAL STRUCTURAL ENGINEER TO DETERMINE THE APPROPRIATE REVISIONS.) PROVIDE INSULATION BAFFLES AT EAVE VENTS

BETWEEN RAFTERS. ALL SMOKE DETECTORS SHALL BE POWERED BY 110V CURRENT, CONNECTED TO HOUSE ELECTRICAL SYSTEM. INTERCONNECT WITH EACH ONE SO THAT IF ANY ONE TRIPS THEY WILL ALL SOUND. THEY SHALL ALSO HAVE A BATTERY BACKUP AND BE LOCATED IN

EACH BEDROOM AND ON EACH FLOOR LEVEL.
GUARDRAILS SHALL HAVE INTERMEDIATE RAILS SPACED
SUCH THAT A SPHERE 5' IN DIA. CANNOT PASS THROUGH PROVIDE GROUNDING ELECTRODE AT ELECTRICAL SERVICE CONSISTING OF A MINIMUM 20' LENGTH OF 1/2' ϕ STEEL REINFORCEMENT OF FOOTINGS. ELECTRODE SHALL

EXTEND 12" MIN. ABOVE THE PLATE LINE. THE MAXIMUM AMOUNT OF WATER USED BY NEW PLUMBING FIXTURES: 16 GALLONS/FLUSH

SHOWER HEADS 25 GALLONS/MINUTE 2.5 GALLONS/MINUTE INTERIOR FAUCETS IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE SPECIFICATIONS, THE MORE STRINGENT

PROVISIONS SHALL GOVERN. STRUCTURAL SPECIFICATIONS AND DRAWINGS FOR THIS WORK HAVE BEEN PREPARED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE TO MEET MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE

SPECIFICATIONS AND DRAWINGS INDICATE FINISHED STRUCTURE. BUILDER SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES, AND CONDITIONS (INCLUDING SAFETY), EXCEPT AS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS

CONSTRUCTION LOADS SHALL NOT OVERLOAD STRUCTURE NOR SHALL THEY BE IN EXCESS OF DESIGN LOADINGS INDICATED ON DRAWINGS. . BUILDER SHALL VERIFY ALL MATERIALS, DIMENSIONS, AND CONDITIONS SHOWN ON STRUCTURAL DRAWINGS OR NOTED IN STRUCTURAL SPECIFICATIONS, ANY VARIANCES WITHIN STRUCTURAL DRAWINGS AND SPECIFICATIONS OR WITHIN CONDITIONS ENCOUNTERED AT JOB SITE.

SHALL BE REPORTED TO OWNER IN WRITING BEFORE COMMENCEMENT OF ANY WORK EFFECTED BY SUCH YARIANCE. BUILDER SHALL RIGIDLY ADHERE TO ALL LAWS, CODES, AND ORDINANCES WHICH APPLY TO THIS WORK. HE SHALL NOTIFY AND RECEIVE CLARIFICATION FROM OWNER IN WRITING OF ANY VARIATIONS BETWEEN CONTRACT

DOCUMENTS AND GOVERNING REGULATIONS. . ALL MANUFACTURED MATERIALS, COMPONENTS FASTENERS, ASSEMBLIES, ETC., SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVISIONS OF APPLICABLE ICBC RESEARCH RECOMMENDATIONS. WHERE SPECIFIC MANUFACTURED PRODUCTS ARE CALLED FOR, GENERIC EQUALS WHICH MEET APPLICABLE STANDARDS AND

NO VARIANCE BY A BUILDING OFFICIAL SHALL BE BINDING ON DESIGNERS. . BUILDER SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESS POOLS, CISTERNS

FOUNDATIONS, ETC. IF ANY SUCH ITEMS ARE FOUND,

SPECIFICATIONS MAY BE USED.

OWNER SHALL BE NOTIFIED IMMEDIATELY.

FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW THE FINAL GRADE.

ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4' GRANULAR MATERIAL COMPACTED TO 95%. . CONCRETE TO DEVELOP A MIN. OF 3000 PSI AT 28 DAYS WITH A MIN. OF 6 SACKS OF CEMENT PER YARD AND

SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF

A MAXIMUM SLUMP OF 4". CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' (MAXIMUM) INTERVALS EA. WAY. . CONCRETE SIDEWALKS TO HAVE 3/4" TOOLED JOINTS

AT 5' O.C. (MINIMUM) REINFORCING STEEL TO BE A-615 GRADE 40. WELDED WIRE MESH TO BE A-185.

EXCAYATE THE SITE TO PROVIDE A MINIMUM OF 18" CLEARANCE UNDER ALL GIRDERS. COVER ENTIRE CRAWLSPACE WITH 6 MIL BLACK "VISQUEEN" AND EXTEND UP FOTN. WALLS TO P.T. MUDSILL

PROVIDE A MINIMUM OF 1 SQ FT OF VENTILATION AREA FOR EACH 150 SQ FT OF CRAWLSPACE AREA. VENTS ARE TO BE CLOSABLE WITH 1/4" OPENINGS IN CORROSIVE RESISTANT SCREEN

ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 30* ROLL ROOFING. 2. BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3".

B. PROVIDE CRAWLSPACE DRAIN AS PER SEC. R405.1 OF

4. THE GRADE AWAY FROM FND WALLS SHALL FALL 6" MIN. WITHIN FIRST 10'. 5. SLOPE FOR PERMANENT FILLS AND CUT SLOPES SHALL NOT EXCEED 2 UNITS HORIZ, TO 1 UNIT VERT.

BACKFILL SHALL NOT BE PLACED UNTIL WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO FLOOR ABOVE ON WALLS W/ MORE THAN 4' UNBALANCED

. BUILDER SHALL BE RESPONSIBLE FOR SUPPORT OF ALL TEMPORARY EMBANKMENTS AND EXCAVATIONS. 3. FOOTINGS SHALL BE FOUNDED ON FIRM, UNDISTURBED, NATIVE, FREE DRAINING SOILS, CONDITIONS FOUND TO BE OTHERWISE SHALL BE REPORTED TO OWNER.). ALL GROUND OVER WHICH FOOTINGS AND SLABS-ON-

GRADE ARE TO BE PLACED SHALL BE FREE OF EXPANSIVE OR COMPRESSIBLE DEBRIS AND ORGANIC

20. FOOTINGS AND SLABS-ON-GRADE CONCRETE SHALL NOT BE PLACED ON MUDDY OR FROZEN GROUND. SUB-GRADE FOR SLABS-ON-GRADE WHERE VAPOR BARRIER IS NOT REQUIRED SHALL BE DAMP AT TIME OF CONCRETE PLACEMENT.

RAMING NOTES

ALL EXTERIOR WALL AND BEARING WALL OPENINGS TO HAVE 4XI2 HEADERS UNI ESS OTHERWISE INDICATED JOISTS THAT ARE ATTACHED TO FLUSH BEAMS ARE TO BE HUNG WITH "SIMPSON" LU TYPE OR EQUIV. 26. DOUBLE JOISTS THAT ARE ATTACHED TO FLUSH BMS ARE TO BE HUNG WITH "SIMPSON" LUS TYPE OR EQUIV. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL

PARTITIONS OVER. PROVIDE FIREBLOCKING, DRAFTSTOPS & FIRESTOPS AS PER THE ORSC SEC R602.8

5. LUMBER SPECIES: A. POSTS, BEAMS, HEADERS NO.2 DOUG FIR JOISTS AND RAFTERS NO.3 DOUG FIR B. SILLS, PLATES, BLOCKING BRIDGING, ETC. D. POST AND BEAM DECKING UTILITY GRADE D.F E. PLYWOOD SHEATHING

F. GLU-LAM BEAMS

NAILING SCHEDULE NOTCHES IN SOLID LUMBER JOISTS, RAFTERS, AND BEAMS SHALL NOT EXCEED ONE-SIXTH OF THE DEPTH OF THE MEMBER, SHALL NOT BE LONGER THAN ONE-THIRD OF THI DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED N THE MIDDLE ONE-THIRD OF THE SPAN. NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE-FOURTH THE DEPTH OF THE MEMBER. THE TENSION SIDE OF MEMBERS 4" (102mm) OR GREATER IN NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT ENDS OF THE MEMBERS. THE DIAMETER OF HOLES BORED OR CUT INTO MEMBERS SHALL NOT EXCEED ONE-THIRD THE

STUD GRADE D.F.

1/2" CDX PLY, 32/16

fb-2400, DRY ADH.

MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2" (51mm) TO THE NOTCH. STUDS IN AN EXTERIOR WALL OR LOAD-BEARING PAR-TITIONS SHALL BE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NON-LOAD-BEARING PARTITIONS SHALL BE PERMITTED TO BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH, STUDS SHALL BE PERMITTED TO BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO GREATER THAN 40% OF THE STUD WIDTH. THE EDGE OF THE HOLE

DEPTH OF THE MEMBER, HOLES SHALL NOT BE CLOSER

THAN 2" TO THE TOP OR BOTTOM OF THE MEMBER, OR TO

ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE

IS NO CLOSER THAN 5/8" (15.9mm) TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH. INSTALL ALL HORIZONTAL MEMBERS WITH CROWN UP. 10. ALL MEMBERS IN BEARING SHALL BE ACCURATELY CUT AND ALIGNED SO THAT FULL BEARING IS PROVIDED WITHOUT USE OF SHIMS. BEARING POSTS SHALL HAVE

ALL JOISTS SHALL HAVE A MINIMUM OF 2" BEARING AT

FULL BLOCKING OR SUPPORT UNDER

SUPPORTS. LAPPING JOISTS SHALL HAVE 6' LAPS CENTERED OVER INTERIOR SUPPORTS. LEDGERS AND STUD WALL FOUNDATION SILL PLATES SHALL BE BOLTED TO CONCRETE W/ ANCHOR BOLTS OF SIZE AND MINIMUM SPACING AS SHOWN ON DRAWINGS AT LEAST TWO BOLTS SHALL BE PROVIDED FOR EACH

PIECE W/ ONE BOLT WITHIN 12" OF EACH END. ALL PLYWOOD WALL SHEATHING SHALL BE APPLIED AS FOLLOWS: CENTER VERTICAL JOINTS OVER STUDS AND CENTER HORIZONTAL JOINT OVER 2' BLOCKING OR PLATE, NAIL TOP OF PANELS TO DOUBLE TOP PLATE, AND NAIL BOTTOM OF PANELS TO ANCHORED SILL PLATE APPLY GYPSUM BOARD SO THAT END JOINTS OF ADJACENT COURSE DO NOT OCCUR AT THE SAME STUD.

ALL EXPOSED INSULATION IS TO HAVE A FLAME SPREAD RATING OF LESS THAN 25 & A SMOKE DENSITY RATING OF LESS THAN 450. PERIMETER CONC. WALLS TO BE PROTECTED W/ RIGID

FIBERBOARD INSULATION FROM TOP OF CONC WALL TO NOT LESS THAN 24" BELOW GRADE. SLAB EDGE INSULATION IS TO BE R-15. HEATING DUCTS TO BE INSULATED W/ R-8 WINDOWS SHALL MEET REQUIRED U FACTORS FOR THE

SEE TABLE NIIØ4.1(1) ONE EXTERIOR DOOR MAY BE INSULATED TO A

U-FACTOR OF 0.20. ALL OTHER EXTERIOR DOORS MAY NOT EXCEED 0.54.

JOB SITE PRIOR TO FABRICATION.

SUBMIT TRUSS DESIGN FOR ENGINEERING PRIOR TO FABRICATION & VERIFY LOCATION OF GIRDER TRUSSES W/ TRUSS COMPANY PRIOR TO FORMING FOUNDATION WALLS AS TO PROVIDE FOR ADDITIONAL LOADING FROM VARYING TRUSS DESIGN. YERIFY ALL TRUSS SPANS & CONFIGURATIONS ON

EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.7 SQ FT WITH A MIN. WIDTH OF 20" AND A MIN. HEIGHT OF 22" AND A SILL LESS THAN 44" OFF THE FLOOR. ALL WINDOWS WITHIN IS' OF THE FLOOR AND WITHIN

24" OF ANY DOOR ARE TO HAVE TEMPERED GLAZING. SEE SECTION R308.4 IN ORSC FOR ADDITIONAL INFO. SKYLITES ARE TO BE GLAZED WITH TEMPERED GLASS ON OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS PLEXIGLAS). GLASS TO HAVE MAXIMUM CLEAR SPAN OF 25". SKYLITE FRAME IS TO BE ATTACHED TO A 2 X CURB WITH MINIMUM OF 4" ABOVE ROOF PLANE. ALL TUB OR SHOWER ENCLOSURES ARE TO BE GLAZED

WITH SAFETY GLAZING. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH WEATHERSTRIPPING. PROVIDE 1/2" DEADBOLT LOCKS ON ALL FXTERIOR DOORS AND LOCKING DEVICES ON ALL DOORS OR WINDOWS WITHIN 10' (VERTICAL) OF GRADE. PROVIDE PEEP-HOLE @ 54" - 66" ABOVE FLOOR ON

EXTERIOR DOORS. PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND

ANY APPLIANCES WITH AN OPEN FLAME. BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF A 90 CFM FAN. RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE.

<u>TABLE 602.3(1)</u> FASTE	NER SCHEDULE FOR ST	TRUCTURAL 1	MEMBERS
DESCRIPTION	OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER *bcd	SPACING OF FASTENERS
JOIST TO SILL OR GIRDER, TOE NAIL		3-8d	_
1" × 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL		2-8d 2 STAPLES, 1 ³ 4"	
2" SUBFLOOR TO JOIST OR GIRDER, BLINI SOLE PLATE TO JOIST, SOLID DECK, OR TOP OR SOLE PLATE TO STUD, END NAIL STUD TO SOLE PLATE, TOE NAIL DOUBLE STUDS, FACE NAIL DOUBLE TOP PLATES, FACE NAIL SOLE PLATE TO JOIST, SOLID DECK, OR DBL TOP PLATES, MIN. 48" OFFSET OF EN	BLOCKING, FACE NAIL BLKG AT BRACED WALL PANELS	2-16d 16d 2-16d 3-8d OR 2-16d 10d 10d 3-16d per 16' 8-16d	
BLOCKING BETWEEN JOISTS OR RAFTERS RIM JOIST TO TOP PLATE, TOE NAIL TOP PLATES, LAPS AT CORNERS AND INT		3-8d 8d 2-10d	 6' O.C.
BUILT-UP HEADER, TWO PIECES WITH 1/2" S	BPACER	16d	16' O.C. ALONG EA EDGE
CONTINUED HEADER, TWO PIECES		16d	16' O.C. ALONG EA EDGE
CIELING JOISTS TO PLATE, TOE NAIL CONTINUOUS HEADER TO STUD, TOE NAIL CEILING JOIST, LAPS OVER PARTITIONS, F CEILING JOIST TO PARALLEL RAFTERS, F, RAFTER TO PLATE, TOE NAIL		3-8d 4-8d 3-10d 3-10d 2-16d	
I' BRACE TO EACH STUD AND PLATE, FAC	CE NAIL	2-8d 2 STAPLES, 1 ³ 4"	_
BUILT-UP CORNER STUDS			241.05
		10d	24" O.C.
BUILT-UP GIRDERS AND BEAMS, 2-INCH L	umber laters	10a	NAIL EACH LAYER AS FOLLOWS: 32" O.C. ® TOP & BOTTOM, STAGGERED TWO NAILS AT ENDS AND AT EACH SPLICE.
2" PLANKS		2-16d	AT EACH BEARING
ROOF RAFTERS TO RIDGE, VALLEY OR H TOE NAIL FACE NAIL	IP RAFTERS:	4-16d 3-16d	
RAFTER TIES TO RAFTERS, FACE		3-8d	_
		SPACING	OF FASTENERS
DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER beds	EDGES (IN.)1	INTERMEDIATE SUPPORTS C.S. (IN.)
PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEAT		ALL SHEATHING TO	FRAMING,
5/16'-1/2'	6d COMMON NAIL (SUBFLOOR, WALL) 8d COMMON NAIL (ROOF)	6	13 _g
19/32"-1"	8d COMMON NAIL	6	12 ^g
1 1/8'-1 1/4'	10d COM NAIL OR 8d DEFRMD NAIL	6	12
OTHER WALL SHEATHING h			
1/2" REGULAR CELLULOSIC FIBERBOARD SHEATHING	11/2" GALVANIZED ROOFING NAIL, 6d COM NAIL, STAPLE 16 GA., 11/2" LONG	3	6
1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1½" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE 16 GA., 1½" LONG	3	6
25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	134" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE 16 GA., 134" LONG	3	6
1/2" GYPSUM SHEATHING	11/2" GALVANIZED ROOFING NAIL, 6d COM NAIL, STAPLE GALVANIZED, 11/2" LONG, 11/4" SCREWS, TYPE W OR S	4	8
5/8' GYPSUM SHEATHING	134" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE GALVANIZED, 136" LONG, 136" SCREWS, TYPE W OR S	4	8
PLYWOOD AND WOOD STRUCTURAL PANE	LS, COMBINATION SUBFLOOR UNDERLA	YMENT TO FRAMING	
3/4' AND LESS	6d DEFORMED NAIL OR 8d COM NAIL	6	12
			_
1/8'-1'	8d COM NAIL OR 8d DEFORMED NAIL	6	12

Ød COM NAIL OR 8d DEFORMED NAIL 1 1/8"-1 1/4" FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MPH = 1.609 KM/H.

a. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING ANS SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 Kei (551 MPa) FOR SHANK DIAMETER OF 0.192" (20d COMMON NAIL), 90 ksi (620 MPa) FOR SHANK DIAMETERS LARGER THAN 0.142" BUT NOT LARGER THAN Ø.171", AND 100 ksi (689 MPa) FOR SHANK DIAMETERS OF Ø.142" OR LESS.

b. STAPLES ARE 16 GUAGE WIRE AND HAVE A MINIMUM 1/16-INCH O.D. CROWN WIDTH. c. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES O.C. AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER

1. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 19 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253.

d. FOUR-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY s. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE 602.3(2)

T. FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8d DEFORMED NAILS SHALL BE USED FOR ATTACHING. PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25', UP TO 35' MAXIMUM. FOR REGIONS HAVING BASIC WIND SPEED OF LESS THAN 110 MPH, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6" O.C. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6" O.C. FOR MINIMUM 48" DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS, AND 4" O.C. TO GABLE END WALL FRAMING.

FIBERBOARD SHEATHING SHALL CONFORM TO EITHER AHA 194.1 OR ASTM C 208. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS ONLY. SPACING OF FASTENERES ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.

. INTERIOR NON-BRACED WALL LINES MAY BE NAILED WITH A MINIMUM 4-100 NAILS.

LIGHTING

A MINIMUM OF FIFTY PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE COMPACT OR LINEAR FLUORESCENT, OR A LIGHTING SOURCE THAT HAS A MINIMUM EFFICACY OF 40 LUMENS PER INPUTT WATT SCREW-IN COMPACT FLORESCENT LAMPS

COMPLY WITH THIS REQUIREMENT.

THE BUILDING OFFICIAL SHALL BE NOTIFIED IN WRITING AT THE FINAL INSPECTION THAT A MINIMUM OF FIFTY PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES ARE COMPACT PR LINEAR FLUORESCENT, OR A MINIMUM

EFFICACY OF 40 LUMENS PER INPUT WATT

LIGHTING REQUIREMENTS:

AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND IN BATHROOMS, HALLWAYS, STAIRWAYS, ATTACHED GARAGES, DETACHED GARAGES PROVIDED WITH ELECTRICAL POWER AND AT THE EXTERIOR SIDE OF EGRESS DOORS.

STAIRWAY LIGHTING CONTROL:
ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS OF ILLUMINATION TO THE STAIR, INCLUDING THE LANDINGS AND TREADS, TO BE CONTROLLED BY A WALL SWITCH AT EACH FLOOR LEVEL. INTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING AT THE TOP AND BOTTOM OF THE STAIR. EXTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIR. EXCEPTION: WHERE THE DIFFERENCE BETWEEN FLOOR LEVELS REQUIRES LESS THAN 6 STAIR RISERS.

FIXTURES IN CLOTHES CLOSETS:
SURFACE MOUNTED FLUORESCENT FIXTURES SHALL BE INSTALLED ON THE WALL
ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 6" BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE SPACE.

WET OR DAMP LOCATIONS: FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SO THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMPHOLDERS OR OTHER ELECTRICAL PARTS. ALL FIXTURES INSTALLED IN WET LOCATIONS SHALL BE MARKED "SUITABLE FOR WET LOCATIONS". ALL FIXTURES INSTALLED IN DAMP LOCATIONS SHALL BE MARKED 'SUITABLE FOR WET LOCATIONS' OR 'SUITABLE FOR DAMP LOCATIONS'

LIGHT SWITCH ACCESS ALL SWITCHES SHALL BE LOCATED TO ALLOW OPERATION FROM A READILY ACCESSIBLE LOCATION.

RECEPTACLE OUTLET REQUIREMENTS IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, DEN, BEDROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE THAT IS 2 FEET OR MORE IN WIDTH.

RECEPTACLE OUTLETS, WITH GFI PROTECTION, SHALL BE INSTALLED EVERY 24" ON ALL COUNTER SPACES THAT MEASURE 12" OR WIDER BATHROOMS:
AT LEAST ONE WALL RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE

INSTALLED IN BATHROOMS ADJACENT TO EACH BASIN LOCATION. AT LEAST ONE RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED OUTDOORS AT THE FRONT AND BACK OF EACH DWELLING UNIT HAVING DIRECT ACCESS TO GRADE.

HALLWAYS:
HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET.

HYAC OUTLET:
A CONVENIENCE RECEPTACLE OUTLET SHALL BE INSTALLED FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT LOCATED IN ATTICS AND CRAWL SPACES.

WET LOCATIONS: A RECEPTACLE INSTALLED IN A WET LOCATION SHALL BE IN A WEATHER PROOF ENCLOSURE, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN THE ATTACHMENT PLUG CAP IS INSERTED.

*ADDITIONAL INFORMATION CAN BE FOUND IN THE OREGON RESIDENTIAL SPECIALTY CODE BOOK IN SECTIONS:

E37-4Ø4 SWITCHES E31-406 RECEPTACLE OUTLETS E37-410 LIGHTING OUTLETS

HIGH-EFFICIENCY INTERIOR LIGHTING SYSTEM:

A MINIMUM OF 50% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE COMPACT OR LINEAR FLOURESCENT, OR A LIGHTING SOURCE THAT HAS A MINIMUM EFFICANCY OF 40 LUMENS PER INPUT WATT. SCREW-IN COMPACT FLOURESCENT LAMPS COMPLY WITH THIS REQUIREMENT.

TARLE N4404 444)

PERSCRIPTIVE ENVELOPE REQUIREMENTS	
BUILDING COMPONENT	MIN. REQUIRED VALUE
WALL INSULATION- ABOVE GRADE	R -21
WALL INSULATION- BELOW GRADE	R-15
FLAT CEILINGS	R-38
VAULTED CEILINGS	R-38
UNDERFLOORS	R-3Ø
6LAB EDGE PERIMETER	R-15
HEATED SLAB INTERIOR	R-10
WINDOWS	U-0.35
SKYLIGHTS	U-0.60
EXTERIOR DOORS	u- <i>0.</i> 20
EXTERIOR DOORS W> 2.5 SQ. FT. GLAZIN	lG U-0.40
FORCED AIR DUCT INSULATION	R-8

a. As allowed in Section NIIØ1.4, termal performance of a component may be adjusted provided that overall heat loss does not exceed the total resulting from conformance to the required U-value standards. Calculations to document equivalent heat loss shall be performed using the procedure and approved U-values contained in Table Nil@4.1(1

b. R-values used in this table are nominal, for the insulation only in standard wood frameed construction and not for the entire assembly.

c. Wall insulation requirements apply to all exterior wood framed, concrete or masonry walls that are above grade. This includes cripple walls and rim joist areas. R-19 advanced Frame or 2x4 wall with rigid inulation may be substituted if total nominal insulation R-value is 18.5 or greater. e. Below-grade wood, concrete or masonry walls include all walls that are below grade and do not include those portions of such walls that extend more than 24 inches above grade.

f. Insulation levels for ceilings that have limited attic/rafter depth such as dormers, bay windows or similar featrues totaling not more than 150 squaur feet in area may be reduced to not less than R-21. when reduced, the cavity shall be filled (except for required vent spaces)

g. The maximum vaulted ceiling surface area shall not be greater than 50% of the total heated space floor area unless area has a U-factor no greater than U-0.031. The factor of 0.042 is represetative of a vaulted scissor truss. A 10 inch deep rafter vaulted ceiling with R-30 insultation is U-0.0033 and complies with this requirement, not to exceed 50% of the total heated space floor area.

j. Sliding glass doors shall comply with window performance

k. Reduced area may not be used as a trade off criterion for thermal performance of any component. m. A maximum of 28 square feet of exterior door area per dwelling unit can have a U-factor of 54 or less.

n. Glazing that is either double pane with low-e coating on

this u-.40 requirement.

one surface, or triple pane shall be deemed to comply with

TABLE 1101.1(2) ADDITIONAL MEASURES (select one)

	MEASURE
1	HIGH EFFICIENCY HVAC SYSTEM: GAS-FIRED FURNACE OR BOILER WITH MINIMUM AFUE OF 90%, OR AIR-SOURCE HEAT PUMP WITH MINIMUM HSPF OF 8.5 OR CLOSED-LOOP GROUND SOURCE HEAT PUMP WITH MINIMUM COP OF 3.0
2	HIGH EFFICIENCY DUCT SEALING: CERTIFIED PERFORMANCE TESTED DUCT SYSTEMS OR ALL DUCTS AND AIR HANDLER ARE CONTAINED WITHIN BUILDING ENVELOPE
3	HIGH EFFICIENCY BUILDING ENVELOPE: REPLACE CORRESPONDING TABLE NIØ1.1(1) COMPONENTS WITH ALL OF THE FOLLOWING: WALL INSULATION-ABOVE GRADE - U-0.047/R-24, AND VAULTED CEILINGS - U-0.033/R-30A ^{cd} , AND FLAT CEILINGS - U-0.025/R-49 AND, WINDOWS - U-0.32
4	ZONAL ELECTRIC, DUCTLESS FURNACE OR DUCTLESS HEAT PUMPS: 15 PERCENT PF PERMANENTLY INSTALLED LIGHTING FIXTURES AS CFL OR LINEAR FLUORESCENT OR A EFFICACY OF 40 LUMENS PER WATT, OR WINDOWS - U-0.32 OR, FLAT CEILINGS - U-0.025/R-49 AND VAULTED CEILINGS - U-0.033/R-30A OR, EXTERIOR WALLS - U-0.041/R-24
5	HIGH EFFICIENCY CEILINGS & WINDOWS/LIGHTING: REPLACE CORRESPONDING TABLE NIIO!.(1) COMPONENTS WITH ALL OF THE FOLLOWING: VAULTED CEILINGS - U-0.033/R-304cd, AND FLAT CEILINGS - U-0.025/R-49, AND WINDOWS - U-0.32, AND T5 PERCENT OF PERMANENTLY INSTALLED LIGHTING FIXTURES AS CFL OR LINEAR FLUORESCENT OR A EFFICACY OF 40 LUMENS PER WATT
6	HIGH EFFICIENCY CEILINGS & WINDOWS/WATER HEATING: REPLACE CORRESPONDING TABLE NIIØ1.(1) COMPONENTS WITH ALL OF THE FOLLOWING: VAULTED CEILINGS - U-0.033/R-304°d, AND FLAT CEILINGS - U-0.025/R-49, AND WINDOWS - U-0.32, AND NATURAL GAS/PROPANE, ON-DEMAND WATER HEATING WITH MIN EF OF 0.80
Т	HIGH EFFICIENCY WATER HEATING/LIGHTING: NATURAL GAS/PROPANE, ON-DEMAND WATER HEATING WITH MIN EF OF 0.80 15 PERCENT OF PERMANENTLY INSTALLED LIGHTING FIXTURES AS CFL OR LINEAR FLUORESCENT OR A EFFICACY OF 40 LUMENS PER WATT
8	SOLAR PHOTOVOLTAIC: MINIMUM 1 WATT/SQ FT CONDITIONED FLOOR SPACE®
9	SOLAR WATER HEATING: MINIMUM OF 40 FT ² OF GROSS COLLECTOR AREA ^F

FOR SI: I SQUARE FOOT = 0.093 M^2 , I WATT PER SQUARE FOOT = 10.8 W/M^2 a. FURNACES LOCATED WITHIN THE BUILDING ENVELOPE SHALL HAVE SEALED COMBUSTION AIR INSTALLED. COMBUSTION AIR SHALL BE DUCTED DIRECTLY FROM THE OUTDOORS. b. DOCUMENTATION OF PERFORMANCE TESTED DUCTWORK SHALL BE SUBMITTED TO THE BUILDING OFFICIAL UPON COMPLETION OF WORK. THIS

WORK SHALL BE PERFORMED BY A CONTRACTOR THAT IS CERTIFIED BY THE OREGON DEPARTMENT OF ENERGY'S (ODOE) RESIDENTIAL ENERGY TAX CREDIT PROGRAM AND DOCUMENTATION SHALL BE PROVIDED THAT WORK DEMONSTRATES CONFORMANCE TO ODOE DUCT PERFORMANCE STANDARDS.

C. A = ADVANCED FRAME CONSTRUCTION, WHICH SHALL PROVIDE FULL REQUIRED CEILING INSULATION VALUE TO THE OUTSIDE OF EXTERIOR WALLS d. THE MAXIMUM VAULTED CEILING SURFACE AREA SHALL NOT BE GREATER THAT 50 PERCENT OF THE TOTAL HEATED SPACE FLOOR AREA UNLESS YAULTED AREA HAS A U-FACTOR NO GREATER THAN U-0.026.

e. SOLAR ELECTRIC SYSTEM SIZE SHALL INCLUDE DOCUMENTATION INDICATING THAT TOTAL SOLAR RESOURCE FRACTION IS NOT LESS THAN 15%. f. SOLAR WATER HEATING PANELS SHALL BE SOLAR RATING AND CERTIFICATION CORPORATION (SRCC) STANDARD OG-300 CERTIFIED AND LABELED, WITH DOCUMENTATION INDICATING THAT TOTAL SOLAR RECOURCE FRACTION IS NOT LESS THAN 15%.

SHEET: NOTES

DATE: <u>07/08</u>

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