

ABBREVIATIONS

| | | |
|----------|---|--------------------------|
| A.C.C. | = | ACCESS |
| B.W.L. | = | BRACED WALL LINE |
| B.W.P. | = | BRACED WALL PANEL |
| C.O. | = | CASED OPENING |
| C.J. | = | CEILING JOIST |
| C.L.S. | = | CLOSET |
| COL. | = | COLUMN |
| COMP. | = | COMPOSITION |
| CONC. | = | CONCRETE |
| CONT. | = | CONTINUOUS |
| C.M.A. | = | CARBON MONOXIDE ALARM |
| C.M.U. | = | CONCRETE MASONRY UNIT |
| D.H. | = | DOUBLE HUNG |
| D.A. | = | DIAMETER |
| D.J. | = | DOUBLE JOIST |
| DN. | = | DOWN |
| EXH. | = | EXHAUST |
| EXT. | = | EXTERIOR |
| FL.J. | = | FLOOR JOIST |
| FTG. | = | FOOTING |
| G.F.I. | = | GROUND FAULT INTERRUPTER |
| H.B. | = | HOSE BIB |
| L.V.L. | = | LAMINATED VENEER LUMBER |
| M.O. | = | MASONRY OPENING |
| M.A.S. | = | MASONRY |
| MAX. | = | MAXIMUM |
| M.C. | = | MEDICINE CABINET |
| M.T.L. | = | METAL |
| MIN. | = | MINIMUM |
| O.C. | = | ON CENTER |
| OSB | = | ORIENTED STRAND BOARD |
| PERF. | = | PERFORATED |
| REC. | = | RECESSED |
| REINF. | = | REINFORCED |
| SCR. | = | SCREENED |
| S.D. | = | SMOKE DETECTOR |
| SEC. | = | SECOND |
| SHMR. | = | SHOWER |
| S.Y.P. | = | SOUTHERN YELLOW PINE |
| S.P.F. | = | SPRUCE/PINE/FR |
| SUSP. | = | SUSPENDED |
| TYP. | = | TYPICAL |
| U.O.N. | = | UNLESS OTHERWISE NOTED |
| WASH. | = | WASHER |
| W.H. | = | WATER HEATER |
| W.P. | = | WEATHER PROOF |
| W.W.M. | = | WELDED WIRE MESH |
| WDW. HT. | = | WINDOW HEIGHT |
| WD. | = | WOOD |

SYMBOLS

| | | |
|----------------|---|--------------------------|
| —O— | = | HOSE BIB |
| S | = | SWITCH |
| 5 ₃ | = | 3-WAY SWITCH |
| ⊙ | = | LIGHT FIXTURE |
| ⊞ | = | EXHAUST FAN & LIGHT |
| ⊞ | = | SMOKE DETECTOR |
| ▷ | = | SHOWER HEAD |
| ◀ | = | TELEPHONE JACK |
| ⊞ | = | CONVENIENCE OUTLET |
| ⊞ | = | 220 VOLT OUTLET |
| ⊞ | = | GROUND FAULT INTERRUPTER |
| ⊞ | = | CEILING FAN |
| ⊞ | = | CARBON MONOXIDE ALARM |

GENERAL NOTES AND SPECIFICATIONS

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ORIGINAL PURCHASE AGREEMENT

SEE ATTACHED CONSTRUCTION LICENSE FOR INVOICE NUMBER 12875.

BUILDING CODE INFORMATION

THIS PLAN HAS BEEN DRAWN TO CONFORM TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2015 INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, CURRENT EDITION) WITH AMENDMENTS UNLESS OTHERWISE NOTED. (SEE ATTACHMENTS)

PRIOR TO CONSTRUCTION

THE CONTRACTOR SHALL REVIEW THE PLAN(S) FOR THIS PARTICULAR BUILDING PROJECT TO ENSURE COMPLIANCE WITH ALL NATIONAL, STATE AND LOCAL CODES, CLIMATE GEOGRAPHIC DESIGN, SRIERIA, AND ANY OTHER PROVISIONS THAT MAY BE REQUIRED BY VA/THA/RD.

THE CONTRACTOR SHALL VERIFY PLAN DIMENSIONS, STRUCTURAL COMPONENTS, AND GENERAL SPECIFICATIONS CONTAINED IN THIS SET OF PLANS AND REPORT ANY DISCREPANCIES TO STANDARD HOMES PLAN SERVICE, INC. FOR JUSTIFICATION OR CORRECTION BEFORE PROCEEDING WITH WORK ON HOUSE.

THE CONTRACTOR SHALL DETERMINE ROUGH OPENING SIZES FOR ALL BUILT-IN EQUIPMENT AND/OR FACILITIES AND ADJUST DIMENSIONS AS REQUIRED.

DO NOT SCALE FROM BLUEPRINTS. REFER TO THE LABELED DIMENSIONS FOR ACTUAL MEASUREMENTS.

IT SHALL BE THE RESPONSIBILITY OF THE OWNER/BUILDER TO PROVIDE FOR THE SERVICES OF A PROFESSIONAL ENGINEER IF REQUIRED BY THE BUILDING CODE OFFICIAL.

SHIPPING DATE : _____

STAMP MUST APPEAR IN RED. PLANS FOR WHICH A BUILDING PERMIT HAS NOT BEEN OBTAINED ONE YEAR FROM THE ABOVE DATE IS SUBJECT TO REVIEW BY STANDARD HOMES PLAN SERVICE, INC. A FEE MAY BE CHARGED FOR THIS SERVICE.

EXCAVATION

EXCAVATE TO UNDISTURBED SOIL. BOTTOM OF FOOTING SHALL EXTEND BELOW LOCAL FROST LINE AND TO A MINIMUM DEPTH OF 12" BELOW ADJACENT GRADE. (PRESUMED 2000 PSF SOIL BEARING CAPACITY).

EXPANSIVE, COMPRESSIVE OR SHIFTING SOILS SHALL BE REMOVED TO A DEPTH AND WIDTH SUFFICIENT TO ASSUME A STABLE MOISTURE CONTENT IN EACH ACTIVE ZONE.

FOUNDATION

PROVIDE 1/2" DIA. STEEL ANCHOR BOLTS 6'-0" O.C., 1'-0" MAX. FROM CORNERS AND 1'-0" MAX. FROM ENDS OF EACH PLATE SECTION, WITH 7" MIN. EMBEDMENT.

PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.

SLOPE GRADE AWAY FROM FOUNDATION WALLS 6" MINIMUM WITHIN THE FIRST 10 FEET.

PROVIDE PRESSURE TREATED LUMBER FOR SILLS, PLATES, BANDS AND ANY LUMBER IN CONTACT WITH MASONRY.

PROVIDE APPROVED AND BONDED CHEMICAL SOIL TREATMENT AGAINST FUNGUS, TERMITES AND OTHER HARMFUL INSECTS.

CRAWL SPACE

ALL GIRDER JOINTS AND ENDS OF GIRDERS SHALL REST ON SOLID BEARINGS. FILL CORES OF HOLLOW MASONRY TO FOOTING WITH CONCRETE. FILL TOP COURSE CORES OF EXTERIOR FOUNDATION WALL WITH CONCRETE.

FOOTINGS SHALL EXTEND 6" AND SHALL BE 12" THICK UNDER GIRDER PIERS.

CHIMNEY FOOTING SHALL EXTEND 12" MINIMUM BEYOND EACH SIDE AND SHALL BE AT LEAST 12" THICK.

FRAMING

ALL FLOOR JOISTS, CEILING JOISTS, RAFTERS, GIRDERS, HEADERS, SILLS AND BEAMS SHALL BE NO. 2 SPRUCE/PINE/FR (S.P.F.) UNLESS OTHERWISE INDICATED.

ALL LOAD BEARING WALLS SHALL BE STUD GRADE SPRUCE/PINE/FR (S.P.F.) UNLESS OTHERWISE INDICATED.

DESIGN SPECIFICATIONS FOR LAMINATED VENEER LUMBER (LVL)

BEAMS AND HEADERS : GRADE : 2950Fb-2.0E

BENDING Fb : 2950

MOE : 2.0 X 10⁶

SHEAR Fv : 290

SUPPORT FOR HEADERS:

HEADERS SHALL BE SUPPORTED ON EACH END WITH ONE OR MORE JACK STUDS OR WITH APPROVED FRAMING ANCHORS IN ACCORDANCE WITH BUILDING CODE (SEE PLAN). THE FULL-HEIGHT STUD ADJACENT TO EACH END OF THE HEADER SHALL BE END NAILED TO EACH END OF THE HEADER WITH FOUR-16D NAILS. SEE TABLE BELOW.

MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS:

| HEADER SPAN (FEET) | MAXIMUM STUD SPACING (INCHES) |
|--------------------|-------------------------------|
| 3 FEET OR LESS | 1 |
| 4 FT. | 2 |
| 8 FT. | 3 |
| 12 FT. | 5 |
| 16 FT. | 6 |

CLIMATIC AND GEOGRAPHICAL DESIGN CRITERIA

ROOF LIVE LOAD (POUNDS PER SQUARE FOOT) : 20 PSF

ULTIMATE DESIGN WIND SPEED (MILES PER HOUR) : 120 MPH

NOMINAL DESIGN WIND SPEED : 93 MPH

EXPOSURE CATEGORY "B" UNLESS OTHERWISE NOTED

WINDOW DESIGN PRESSURE RATING : DP 25

COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET OR LESS:

| PRESSURE ZONE | ULTIMATE DESIGN WIND SPEED (MPH) | | | |
|---------------|----------------------------------|-------------|-------------|-------------|
| | 115 | 120 | 130 | 140 |
| ZONE 1 | 13.1, -14.0 | 14.2, -15.0 | 16.7, -18.0 | 19.4, -21.0 |
| ZONE 2 | 13.1, -16.0 | 14.2, -18.0 | 16.7, -21.0 | 19.4, -24.0 |
| ZONE 3 | 13.1, -16.0 | 14.2, -18.0 | 16.7, -21.0 | 19.4, -24.0 |
| ZONE 4 | 14.3, -15.0 | 15.5, -16.0 | 18.2, -19.0 | 21.2, -22.0 |
| ZONE 5 | 14.3, -19.0 | 15.5, -20.0 | 18.2, -24.0 | 21.2, -28.0 |

ASSUMED MEAN ROOF HEIGHT: 16'-3"

SEISMIC CONDITION BY ZONE : ZONES A AND B

SUBJECT TO DAMAGE FROM WEATHERING : MODERATE

CLIMATE ZONES (UNLESS OTHERWISE NOTED): ZONES 3 AND 4

MINIMUM VALUES FOR ENERGY COMPLIANCE:

CEILING R-38; EXTERIOR WALLS R-15; FLOORS R-19

WINDOW U-FACTOR ≤ 0.35; RECOMMENDED SHGC ≤ 0.30

MISCELLANEOUS

LOCATE ALL CONVENIENCE OUTLETS ABOVE KITCHEN BASE CABINETS 42" ABOVE FINISHED FLOOR.

EMERGENCY EGRESS REQUIREMENTS

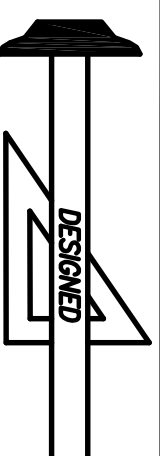
IT SHALL BE THE RESPONSIBILITY OF THE OWNER/BUILDER TO VERIFY CONFORMITY WITH EGRESS REQUIREMENTS BASED ON SPECIFICATIONS PROVIDED BY WINDOW MANUFACTURER.

2018 NORTH CAROLINA RESIDENTIAL CODE

THE REQUIRED EGRESS WINDOW FROM EVERY SLEEPING ROOM SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE FINISHED FLOOR. THE NET CLEAR OPENING SHALL NOT BE LESS THAN 4.0 SQUARE FEET WHERE THE NET CLEAR OPENING HEIGHT SHALL BE AT LEAST 22 INCHES AND THE NET CLEAR OPENING WIDTH SHALL BE AT LEAST 20 INCHES. IN ADDITION THE MINIMUM TOTAL GLASS AREA SHALL NOT BE LESS THAN 5.0 SQUARE FEET IN THE CASE OF A GROUND STORY WINDOW AND NOT LESS THAN 5.7 SQUARE FEET IN THE CASE OF A SECOND STORY WINDOW.

2015 INTERNATIONAL RESIDENTIAL CODE

THE REQUIRED EGRESS WINDOW FROM EVERY SLEEPING ROOM SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE FINISHED FLOOR. ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET EXCEPT GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET OPENING OF 5 SQUARE FEET. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES.

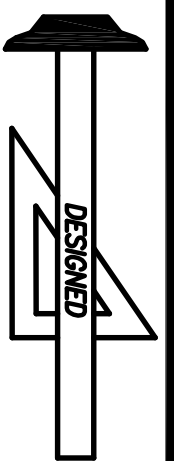


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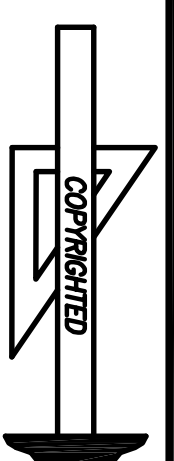


| DESIGNED FOR | PLAN | NO. | MAT'L | SHOWN | SHEET |
|----------------------|-------|-----|-------|-------|--------|
| SERENITY BUILT HOMES | FIONA | 2 | SID. | | 1 OF 9 |

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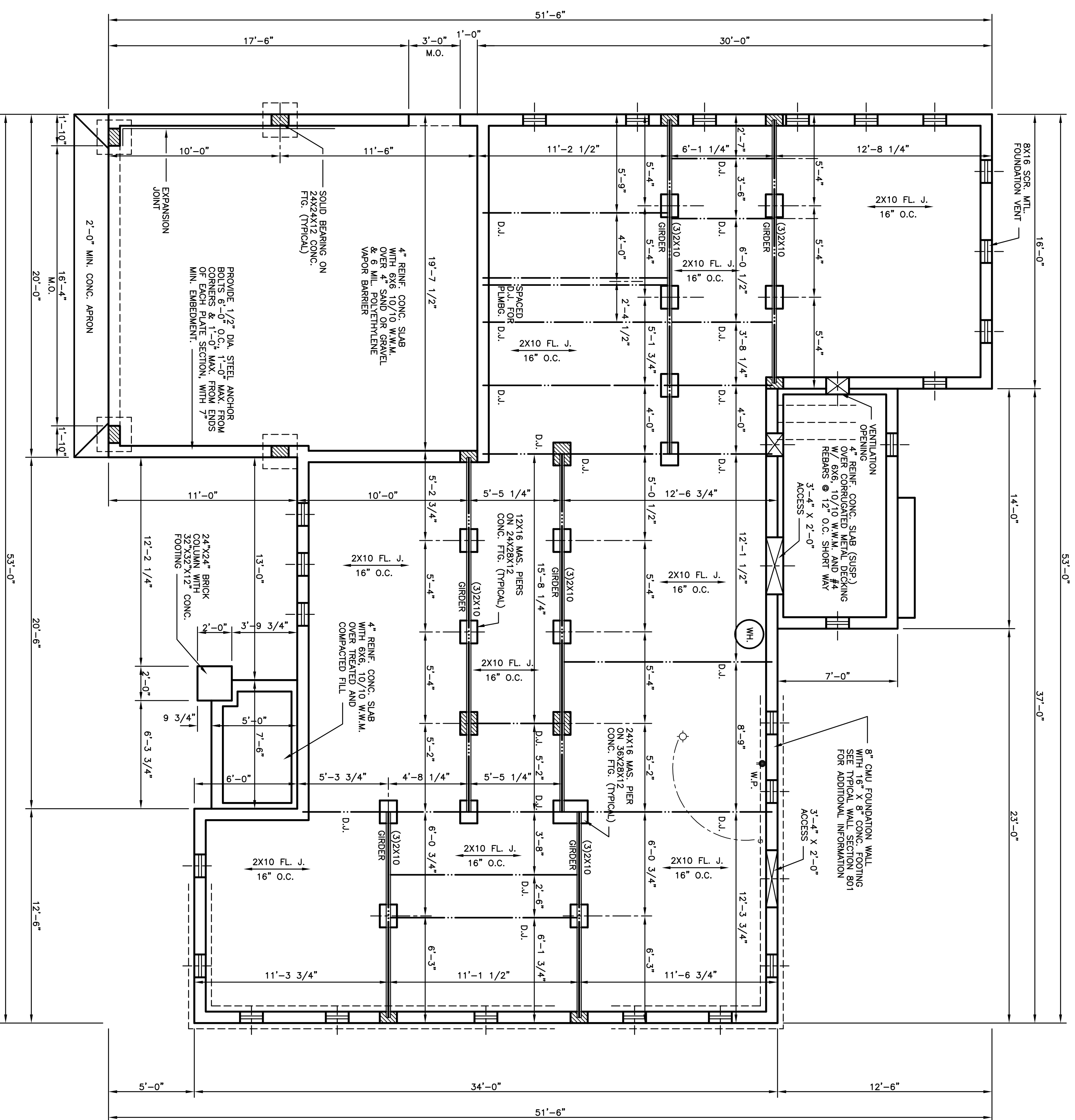
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PLAN
 FIONA

NO. 2
 MAT'L. SID.

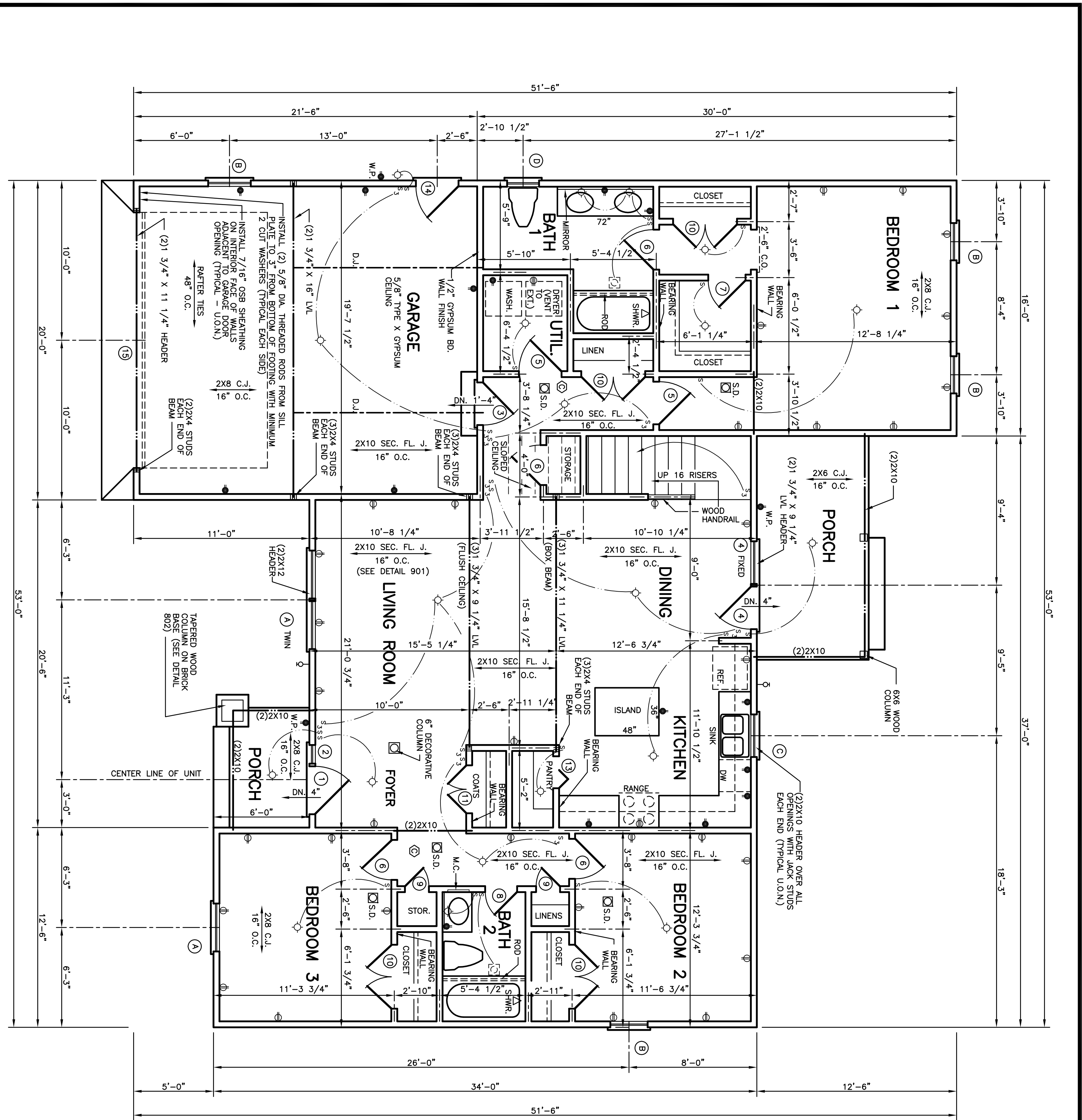
SHOWN SHEET
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FOUNDATION PLAN
 SCALE : 1/4" = 1'-0"

FOUNDATION VENTILATION REQUIREMENTS :
 1651 SQ. FT. ± = 150 = 11.0 SQ. FT. NET
 FREE AREA REQ'D.
 PROVIDE 25 VENTS WITH A MINIMUM OF 64
 SQUARE INCHES NET FREE AREA PER VENT.



| WINDOW SCHEDULE | |
|-----------------|------------------------|
| A | 3'-0" X 6'-2" WD. D.H. |
| B | 2'-4" X 5'-2" WD. D.H. |
| C | 2'-8" X 4'-2" WD. D.H. |
| D | 2'-0" X 4'-2" WD. D.H. |
| E | 3'-0" X 5'-2" WD. D.H. |
| F | |
| G | |
| H | |

| DOOR SCHEDULE | |
|---------------|--|
| 1 | 3'-0" X 6'-8" X 1 3/4" |
| 2 | SIDE-LITE 1'-2" X 6'-8" X 1 3/4" |
| 3 | 20-MINUTE FIRE-RATED 2'-8" X 6'-8" X 1 3/4" |
| 4 | FRENCH 2'-8" X 6'-8" X 1 3/4" |
| 5 | 2'-8" X 6'-8" X 1 3/8" |
| 6 | 2'-6" X 6'-8" X 1 3/8" |
| 7 | 2'-4" X 6'-8" X 1 3/8" |
| 8 | 2'-0" X 6'-8" X 1 3/8" |
| 9 | 1'-6" X 6'-8" X 1 3/8" |
| 10 | DOUBLE OPENING 4'-0" X 6'-8" X 1 3/8" |
| 11 | DOUBLE OPENING 3'-0" X 6'-8" X 1 3/8" |
| 12 | LOVERED BIFOLD 4'-0" X 6'-8" X 1 3/8" |
| 13 | LOVERED BIFOLD 2'-0" X 6'-8" X 1 3/8" |
| 14 | 9-LITE 2'-8" X 6'-8" X 1 3/4" |
| 15 | OVERHEAD GARAGE DOOR 16'-0" X 8'-0" |
| 16 | |
| 17 | |
| 18 | |

FLOOR PLAN

SCALE : 1/4" = 1'-0"
 HEATED AREA : 1554 SQ. FT. IN SIDING
 GARAGE : 425 SQ. FT.
 UNFINISHED RECREATION ROOM : 961 SQ. FT.
 REAR PORCH : 98 SQ. FT.
 FRONT PORCH : 38 SQ. FT.
 CEILING HEIGHT : 9 FT.

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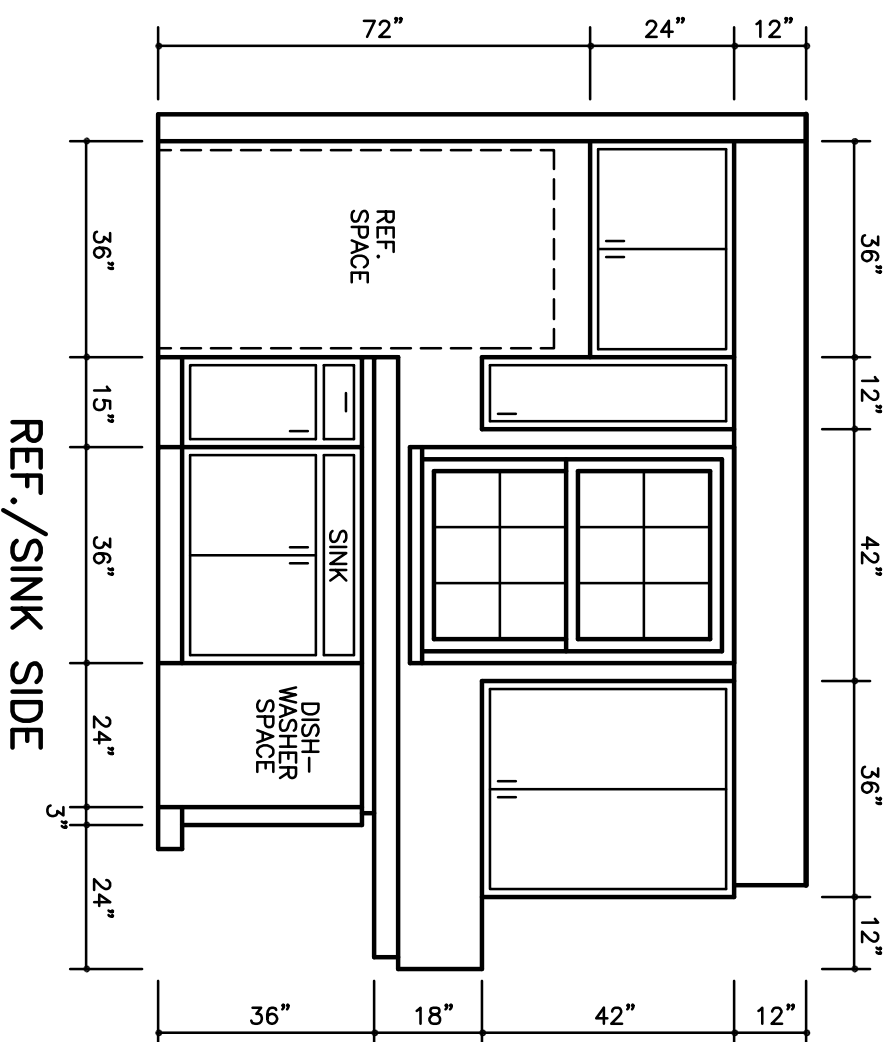
DESIGNED FOR SERENITY BUILT HOMES

PLAN NO. **FIONA 2** MATERIAL **SID.**

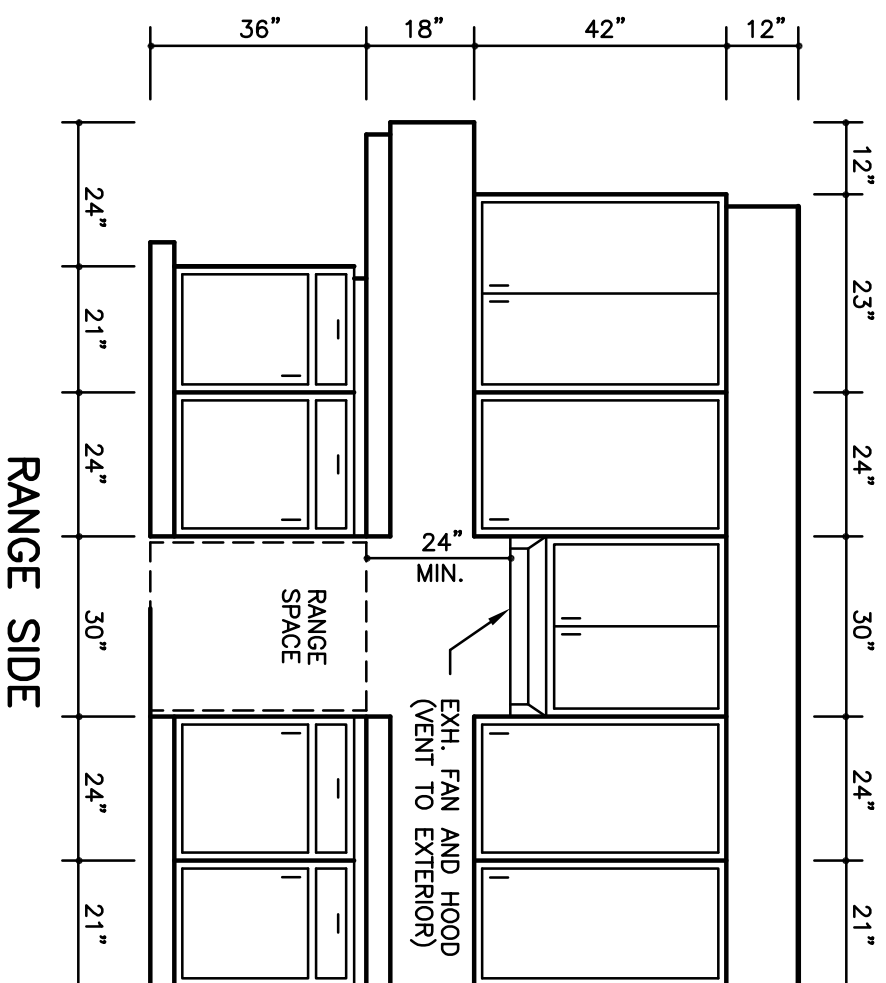
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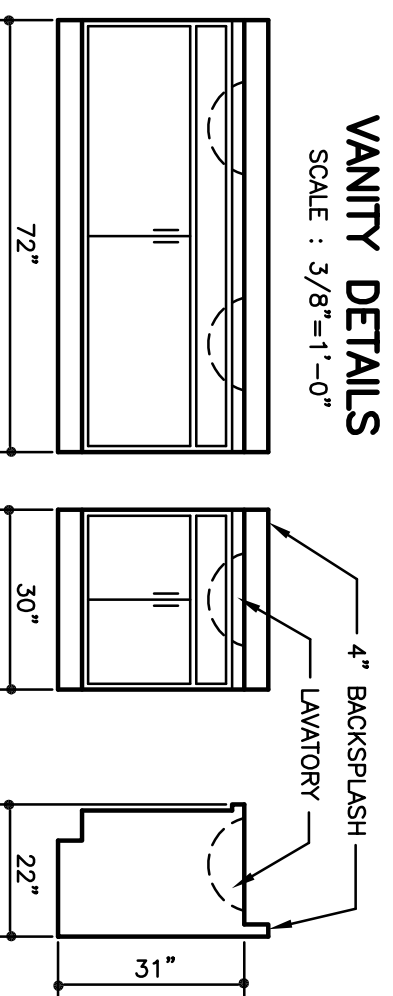
REF./SINK SIDE



RANGE SIDE

KITCHEN CABINET ELEVATIONS
SCALE : 3/8"=1'-0"

FOR SECTION THRU CABINETS, SEE DETAIL ON COVER SHEET.

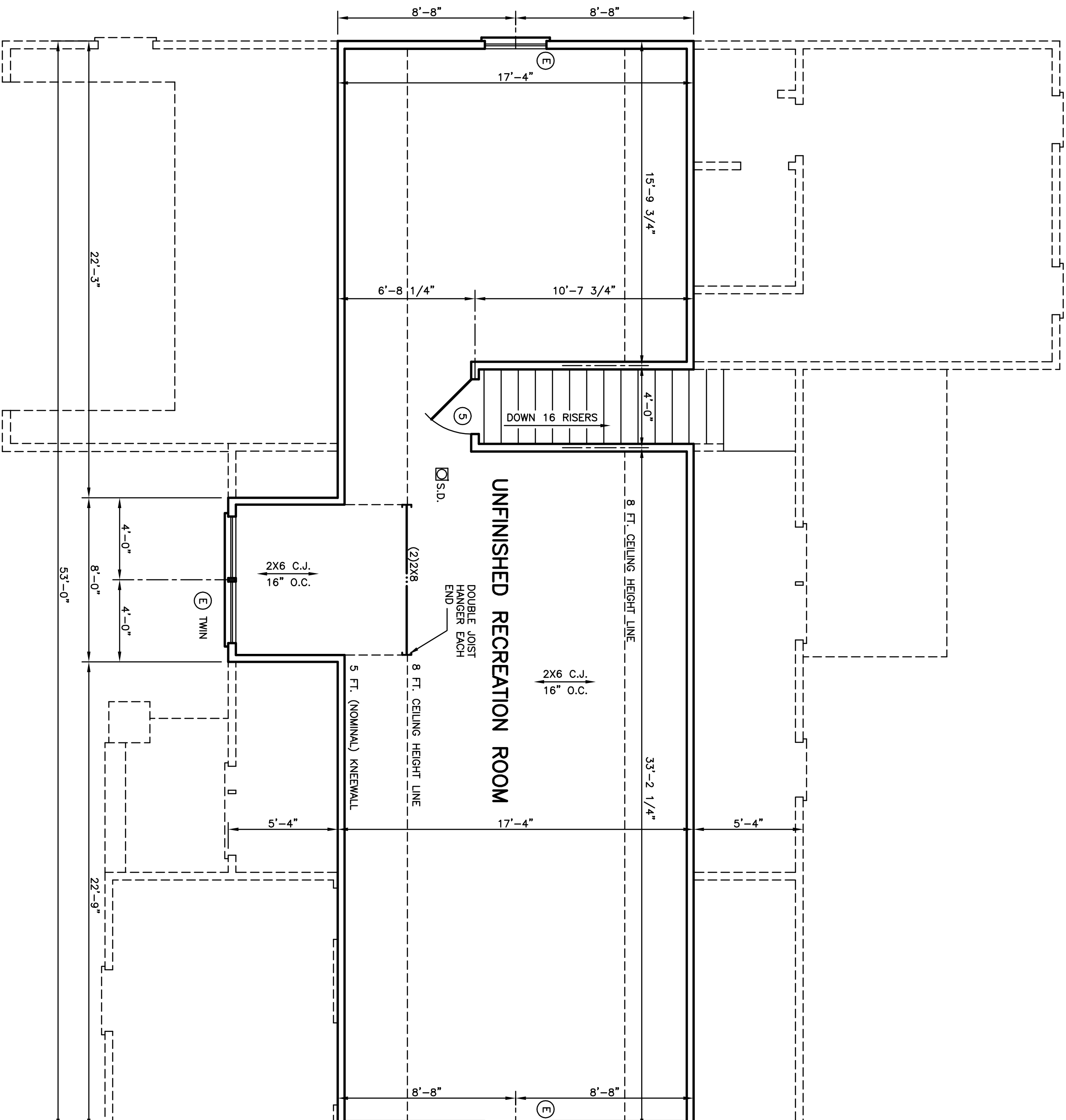


VANITY DETAILS
SCALE : 3/8"=1'-0"

BATH 1

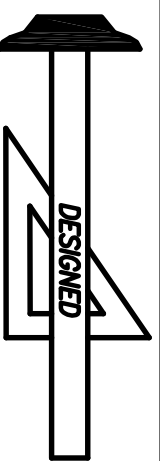
BATH 2

SECT.



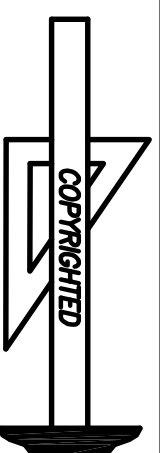
UNFINISHED RECREATION ROOM FLOOR PLAN
SCALE : 1/4" = 1'-0"

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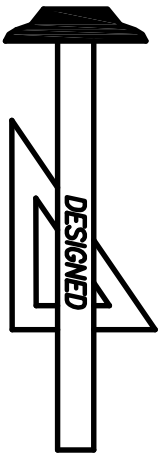
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PLAN
FIONA

NO.
2

MAT'L
SID.

SHOWN
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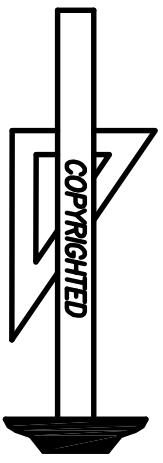


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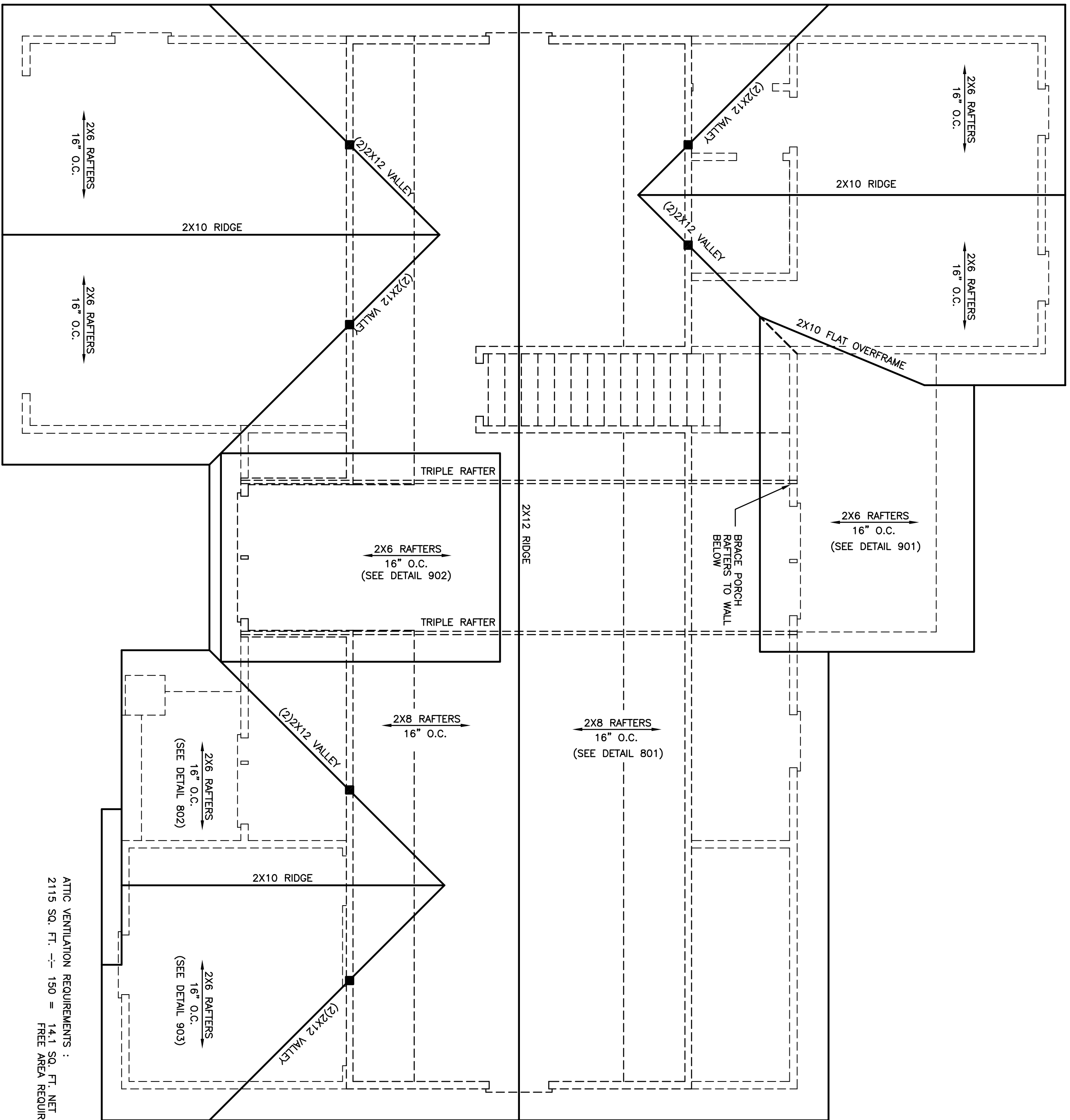
PLAN
FIONA

NO.
2

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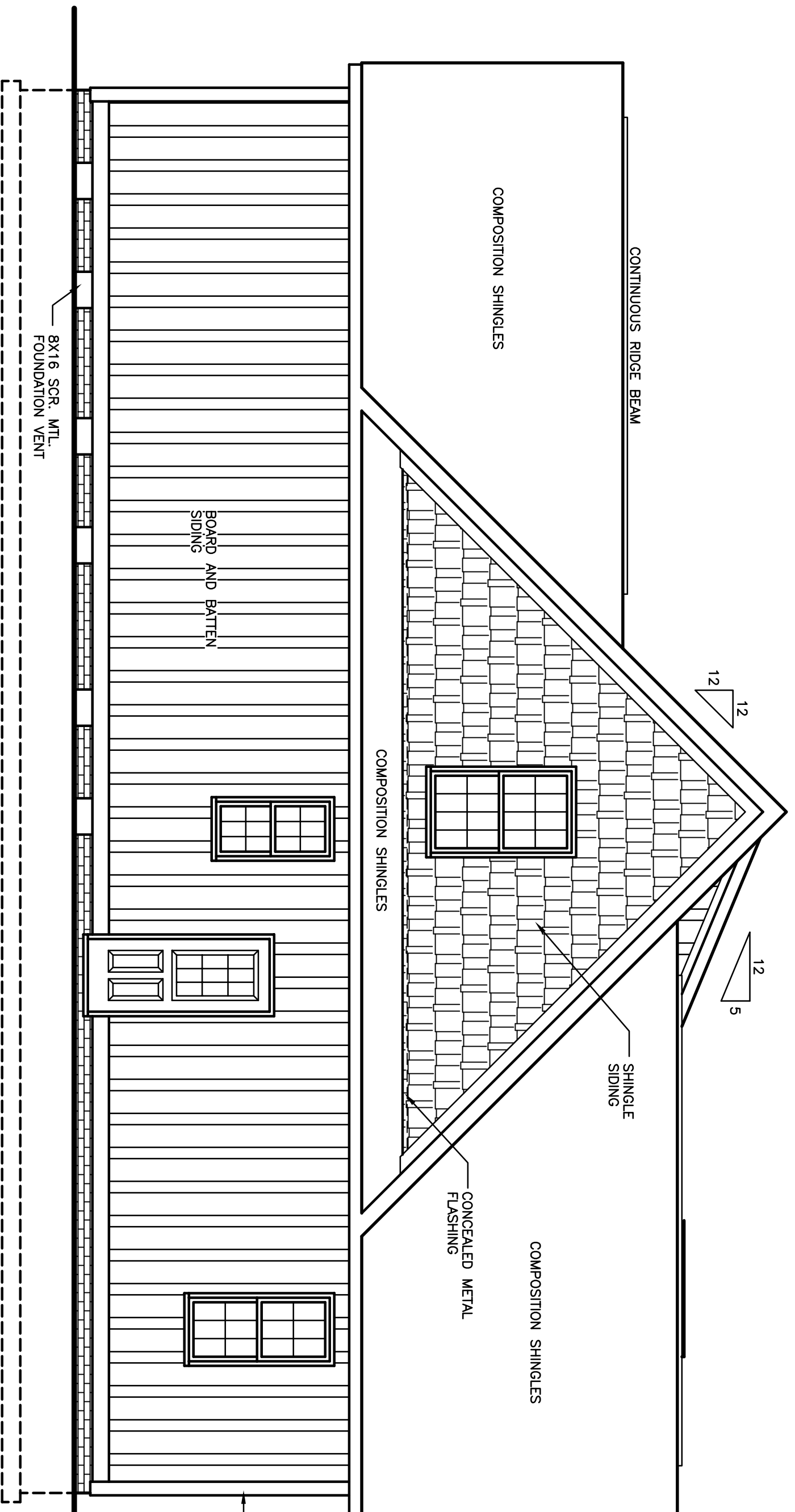


ATTIC VENTILATION REQUIREMENTS :
 2115 SQ. FT. -> 150 = 14.1 SQ. FT. NET
 FREE AREA REQUIRED

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

■ INDICATES (2)2X4 BRACE
 TO WALL BELOW

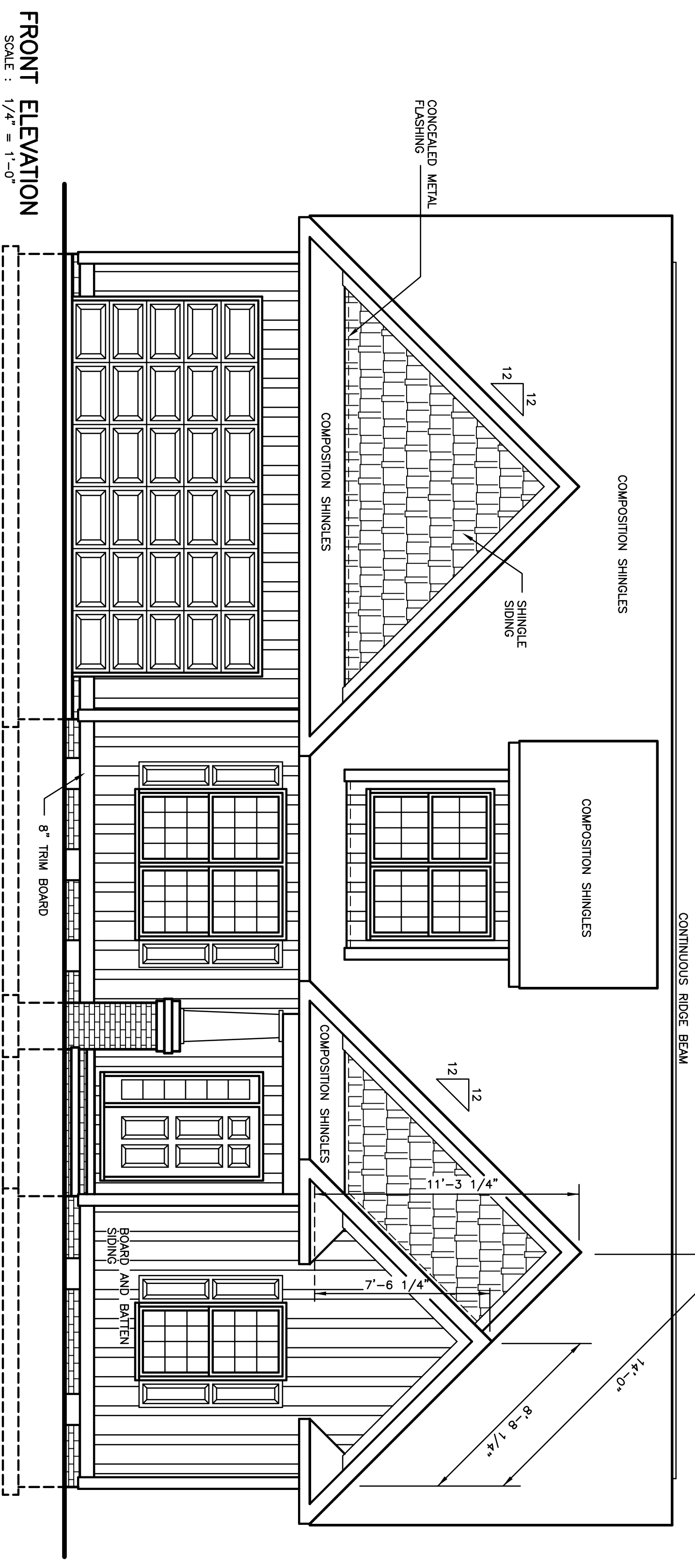
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LEFT SIDE ELEVATION

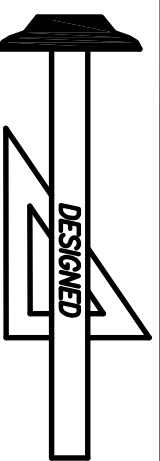
SCALE : 1/4" = 1'-0"

PROVIDE GUTTERS, DOWNSPOUTS AND SPLASHPADS ACCORDING TO LOCAL CODE AND RAINFALL CONDITIONS. ALL SPLASHPADS SHALL CARRY WATER 60" FROM BUILDING.



FRONT ELEVATION

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

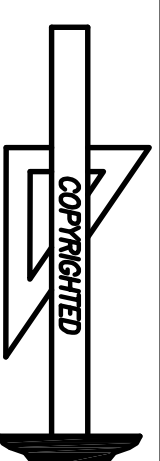


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PLAN

FIONA

NO.

2

MAT'L

SID.

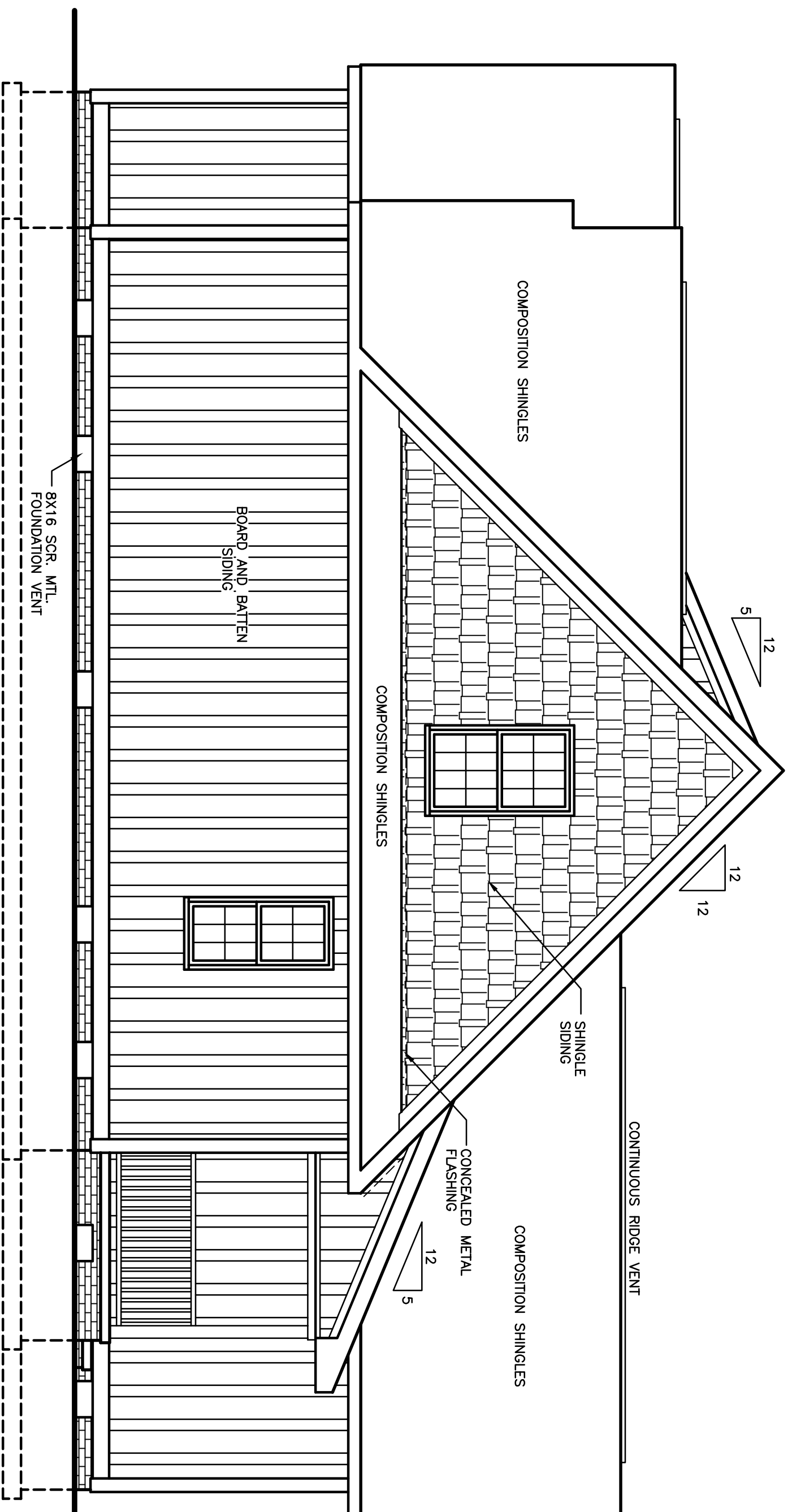
SHOWN

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SHEET

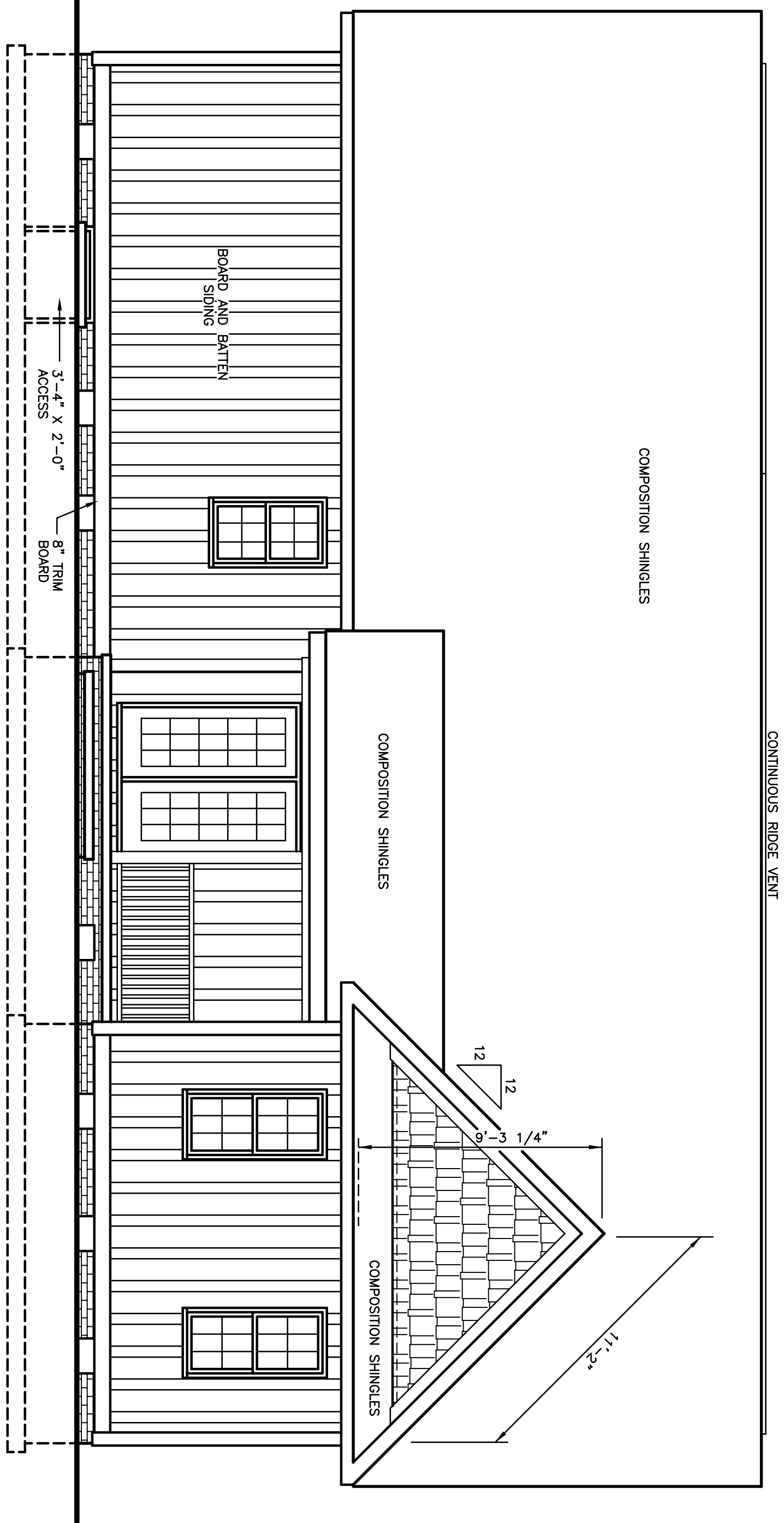
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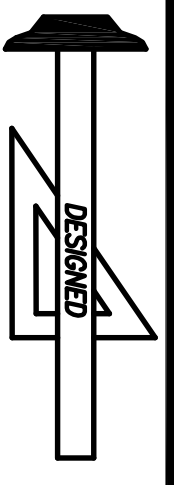
RIGHT SIDE ELEVATION

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

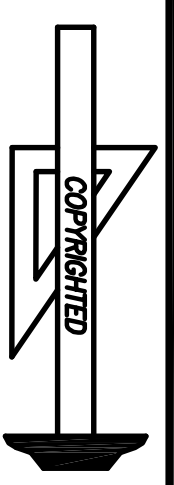


REAR ELEVATION

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

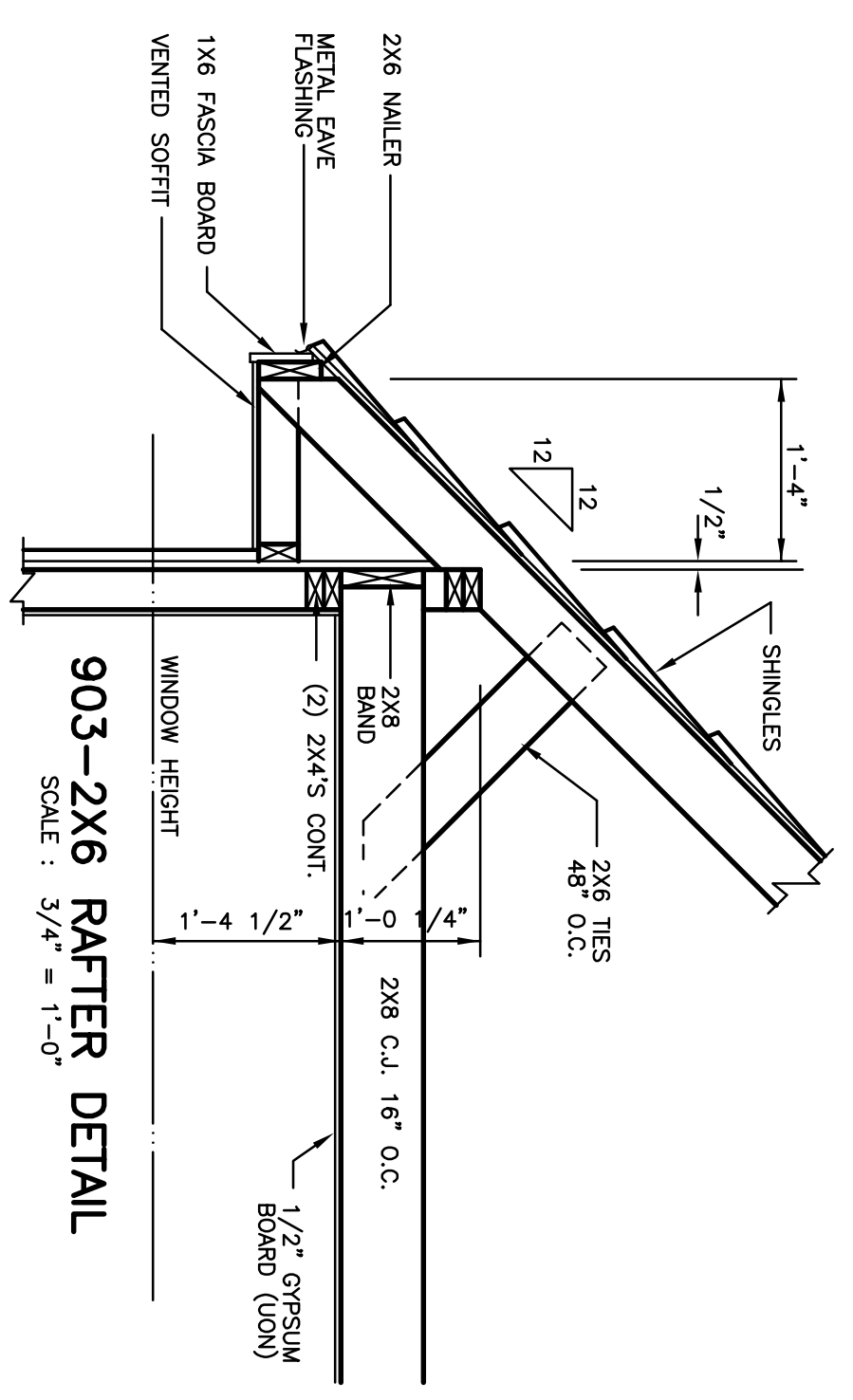


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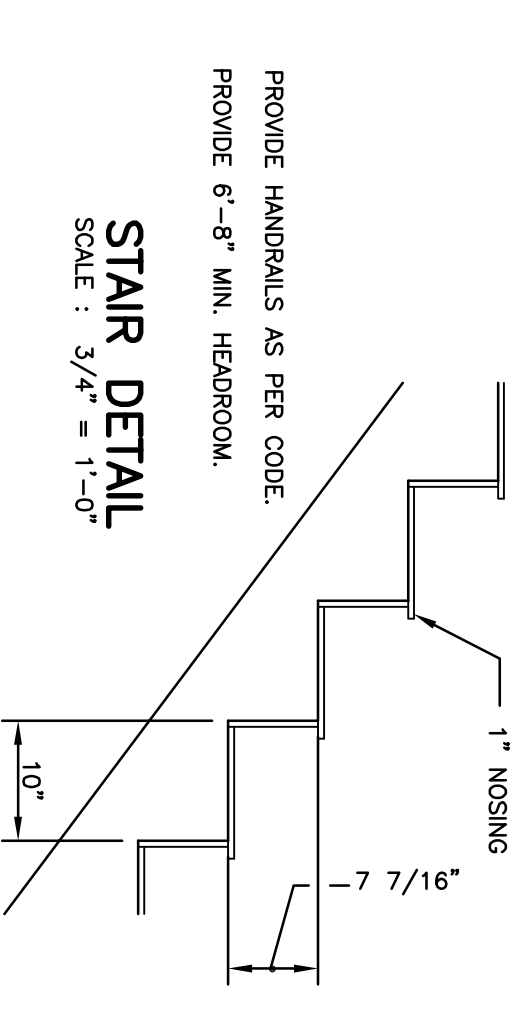


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| DESIGNED FOR | PLAN | NO. | MAT'L | SHOWN | SHEET |
| SERENITY BUILT HOMES | FIONA | 2 | SID. | | 7 OF 9 |

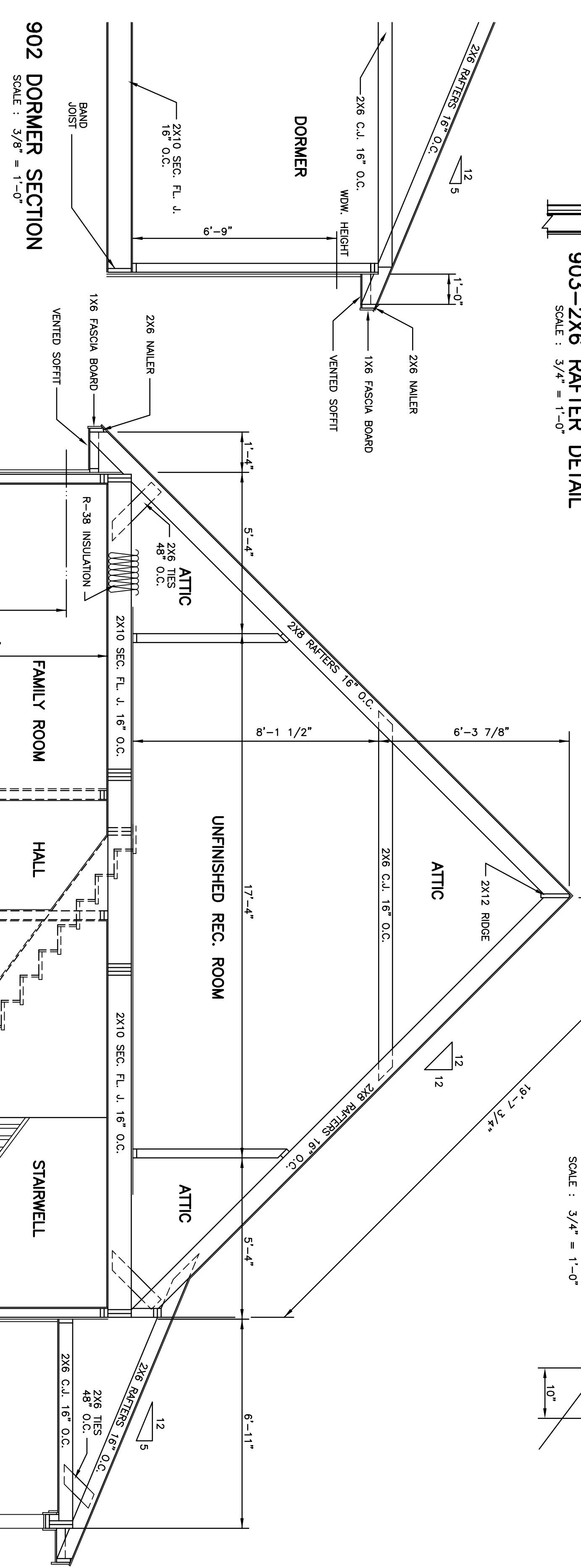
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903-2X6 RAFTER DETAIL
SCALE : 3/4" = 1'-0"

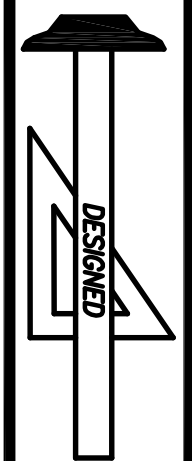


STAIR DETAIL
SCALE : 3/4" = 1'-0"

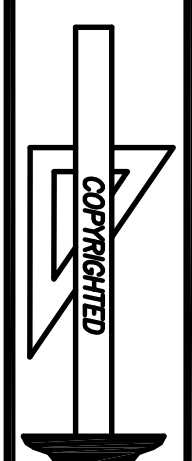


901 TRANSVERSE SECTION
SCALE : 3/8" = 1'-0"

902 DORMER SECTION
SCALE : 3/8" = 1'-0"



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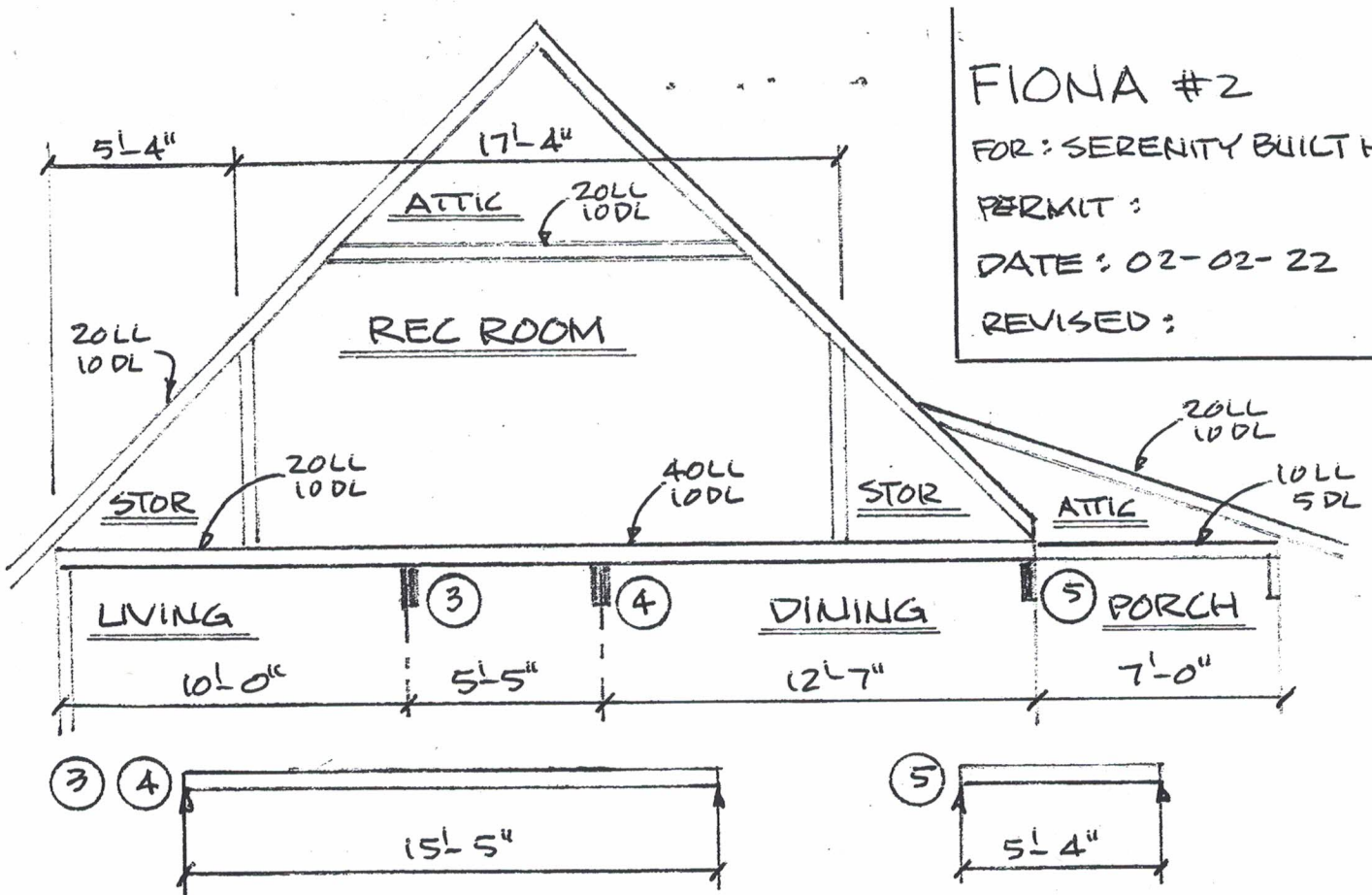
FIONA #2

FOR: SERENITY BUILT HOMES

PERMIT:

DATE: 02-02-22

REVISED:



$$\textcircled{3} \quad w = \begin{matrix} \text{[STOR]} \\ (2'-8") \end{matrix} (30 \text{ PSF}) + \begin{matrix} \text{[REC FLOOR]} \\ (5'-1") \end{matrix} (50 \text{ PSF})$$

$$w = 334 \text{ PLF}$$

Choose (3) 1 3/4" x 9 1/4" LVL (see attached)

$$\textcircled{4} \quad w = \begin{matrix} \text{[STOR]} \\ (2'-8") \end{matrix} (30 \text{ PSF}) + \begin{matrix} \text{[REC FLOOR]} \\ (6'-4") \end{matrix} (50 \text{ PSF})$$

$$w = 397 \text{ PLF}$$

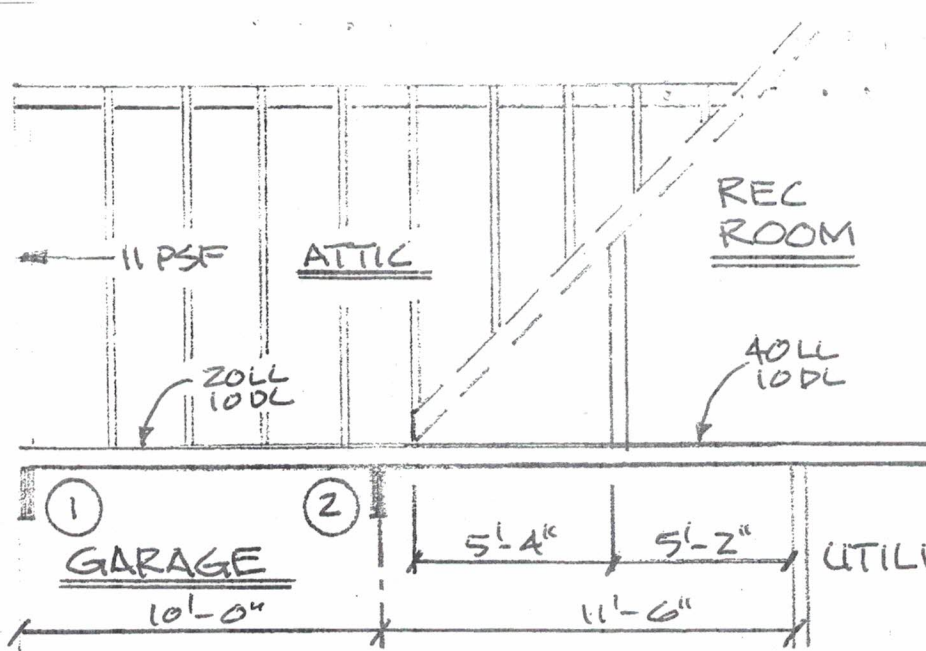
Choose (3) 1 3/4" x 11 1/4" LVL (see attached)

$$\textcircled{5} \quad w = \begin{matrix} \text{[ROOF]} \\ (17'-6") \end{matrix} (30 \text{ PSF}) + \begin{matrix} \text{[REC CEIL]} \\ (8'-8") \end{matrix} (30 \text{ PSF}) + \begin{matrix} \text{[REC FLOOR]} \\ (3'-8") \end{matrix} (50 \text{ PSF}) + \begin{matrix} \text{[STOR]} \\ (2'-8") \end{matrix} (30 \text{ PSF}) + \begin{matrix} \text{[PORCH CEIL]} \\ (3'-6") \end{matrix} (15 \text{ PSF})$$

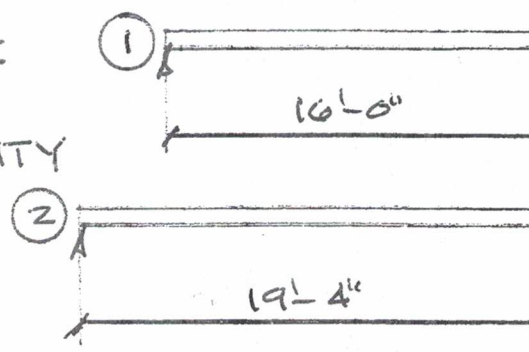
$$w = 1100 \text{ PLF}$$

Choose (2) 1 3/4" x 9 1/4" LVL (see attached)

GANG LAM LVL BY LOUISIANA PACIFIC Z950 FB-2.0E



FIONA # 2
 FOR: SERENITY BUILT HOME
 PERMIT:
 DATE: 02-02-22
 REVISED:



[FLOOR] [GABLE WALL]

① $w = (5'-0") (30 \text{ PSF}) + (8'-0") (11 \text{ PSF})$
 $w = 238 \text{ PLF}$
 Choose (2) $1\frac{3}{4}" \times 11\frac{1}{4}" \text{ LVL (see attached)}$

[ATTIC FLOOR]

② $w = (8'-2") (30 \text{ PSF}) + (2'-7") (50 \text{ PSF})$
 $w = 374 \text{ PLF}$
 Choose (2) $1\frac{3}{4}" \times 16" \text{ LVL (see attached)}$

GANG LAM LVL BY LOUISIANA PACIFIC 2950 FB-2.0E

GANG-LAM LVL 2950 Fb 2.0E MAXIMUM UNIFORM LOAD (PLF)

ALLOWABLE FLOOR LOADS (PLF) 100%

| Beam Span (ft) | 1 Ply 1 3/4 x 7 1/4 | | | 1 Ply 1 3/4 x 9 1/4 | | | 1 Ply 1 3/4 x 9 1/2 | | | 1 Ply 1 3/4 x 11 1/4 | | | 1 Ply 1 3/4 x 11 3/8 | | | 1 Ply 1 3/4 x 14 | | | 1 Ply 1 3/4 x 16 * Refer To Note 4 | | | 1 Ply 1 3/4 x 18 * Refer To Note 4 | | |
|----------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|---------------------------------------|-------|------------|---------------------------------------|-------|------------|
| | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load |
| | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 |
| 6 | 681 | 522 | 777 | 1046 | 1016 | 1046 | 1082 | 1082 | 1082 | 1348 | 1348 | 1348 | 1450 | 1450 | 1450 | 1827 | 1827 | 1827 | 2233 | 2233 | 2233 | 2698 | 2698 | 2698 |
| 7 | 443 | 337 | 639 | 864 | 669 | 864 | 893 | 720 | 893 | 1102 | 1102 | 1102 | 1181 | 1181 | 1181 | 1470 | 1470 | 1470 | 1772 | 1772 | 1772 | 2110 | 2110 | 2110 |
| 8 | 303 | 229 | 441 | 603 | 461 | 736 | 649 | 497 | 760 | 932 | 794 | 932 | 996 | 918 | 996 | 1229 | 1229 | 1229 | 1469 | 1469 | 1469 | 1732 | 1732 | 1732 |
| 9 | 215 | 163 | 315 | 434 | 330 | 607 | 467 | 356 | 637 | 748 | 574 | 807 | 861 | 667 | 861 | 1056 | 1041 | 1056 | 1254 | 1254 | 1254 | 1468 | 1468 | 1468 |
| 10 | 158 | 120 | 231 | 321 | 244 | 467 | 347 | 263 | 504 | 559 | 427 | 704 | 649 | 497 | 758 | 925 | 784 | 925 | 1094 | 1094 | 1094 | 1274 | 1274 | 1274 |
| 11 | 120 | 90 | 174 | 244 | 185 | 355 | 263 | 199 | 384 | 428 | 325 | 584 | 498 | 380 | 644 | 785 | 603 | 823 | 969 | 870 | 1094 | 1274 | 1274 | 1274 |
| 12 | 93 | 70 | 134 | 189 | 143 | 276 | 205 | 155 | 298 | 334 | 253 | 484 | 389 | 296 | 543 | 618 | 473 | 732 | 870 | 686 | 870 | 1007 | 945 | 1007 |
| 13 | 73 | 55 | 105 | 150 | 113 | 218 | 162 | 122 | 235 | 265 | 201 | 385 | 310 | 235 | 449 | 495 | 377 | 625 | 717 | 550 | 790 | 911 | 761 | 911 |
| 14 | 59 | 44 | 84 | 121 | 91 | 175 | 130 | 96 | 189 | 214 | 162 | 310 | 250 | 189 | 363 | 401 | 305 | 541 | 584 | 446 | 689 | 807 | 621 | 832 |
| 15 | 48 | 36 | 68 | 98 | 74 | 142 | 106 | 80 | 154 | 175 | 132 | 253 | 205 | 155 | 297 | 329 | 250 | 472 | 481 | 367 | 601 | 668 | 512 | 744 |
| 16 | 40 | - | 55 | 81 | 61 | 117 | 88 | 66 | 126 | 145 | 109 | 209 | 170 | 128 | 245 | 274 | 207 | 396 | 401 | 305 | 529 | 559 | 427 | 656 |
| 17 | 33 | - | 46 | 68 | 51 | 97 | 74 | 55 | 105 | 121 | 91 | 174 | 142 | 107 | 205 | 230 | 174 | 332 | 337 | 256 | 469 | 472 | 359 | 582 |
| 18 | - | - | 38 | 58 | 43 | 81 | 62 | 47 | 88 | 102 | 77 | 147 | 120 | 91 | 172 | 194 | 147 | 281 | 286 | 217 | 413 | 401 | 305 | 520 |
| 19 | - | - | 32 | 49 | 37 | 68 | 53 | 40 | 74 | 87 | 66 | 124 | 102 | 77 | 146 | 166 | 125 | 239 | 245 | 185 | 353 | 344 | 261 | 467 |
| 20 | - | - | - | 42 | 32 | 58 | 46 | 34 | 63 | 75 | 57 | 106 | 88 | 66 | 125 | 143 | 108 | 205 | 211 | 160 | 304 | 297 | 225 | 421 |
| 21 | - | - | - | 37 | - | 50 | 39 | - | 54 | 65 | 49 | 91 | 76 | 57 | 108 | 124 | 93 | 177 | 183 | 138 | 263 | 258 | 195 | 371 |
| 22 | - | - | - | 32 | - | 43 | 34 | - | 47 | 57 | 43 | 79 | 66 | 50 | 93 | 108 | 81 | 154 | 160 | 121 | 229 | 225 | 170 | 324 |
| 23 | - | - | - | - | - | 37 | - | - | 40 | 50 | 37 | 68 | 58 | 44 | 81 | 95 | 71 | 134 | 140 | 106 | 200 | 198 | 150 | 284 |
| 24 | - | - | - | - | - | 32 | - | - | 35 | 44 | 33 | 60 | 51 | 39 | 71 | 84 | 63 | 117 | 124 | 93 | 176 | 175 | 132 | 250 |
| 25 | - | - | - | - | - | - | - | - | - | 39 | - | 52 | 46 | 34 | 62 | 74 | 56 | 103 | 110 | 83 | 155 | 155 | 117 | 221 |
| 26 | - | - | - | - | - | - | - | - | - | 35 | - | 46 | 41 | 31 | 55 | 66 | 50 | 91 | 98 | 74 | 138 | 138 | 104 | 196 |
| 27 | - | - | - | - | - | - | - | - | - | 31 | - | 41 | 36 | - | 48 | 59 | 45 | 81 | 88 | 66 | 122 | 124 | 93 | 175 |
| 28 | - | - | - | - | - | - | - | - | - | - | - | 36 | 33 | - | 43 | 53 | 40 | 72 | 79 | 59 | 109 | 111 | 84 | 156 |
| 29 | - | - | - | - | - | - | - | - | - | - | - | 32 | - | - | 38 | 48 | 36 | 64 | 71 | 53 | 98 | 100 | 76 | 140 |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 34 | 43 | 33 | 57 | 64 | 48 | 88 | 91 | 68 | 126 |

How to use maximum uniform load tables:

- Select the correct table for the beam application you need.
- Choose the required beam span in the left column.
- Select a beam depth from the tables that satisfies BOTH the live and total load PLF on the beam.
- Check the bearing requirements as shown on page 8.

Example: Floor live load 480 PLF, L/360 deflection limit.
Floor total load 660 PLF, L/240 deflection limit.
Beam span 14' - 0"

Solution: Try 2 plies 1 3/4" x 11 3/8", which can carry:
• Live load 2 x 250 = 500 > 480 PLF ✓OK
• Total load 2 x 363 = 726 > 660 PLF ✓OK

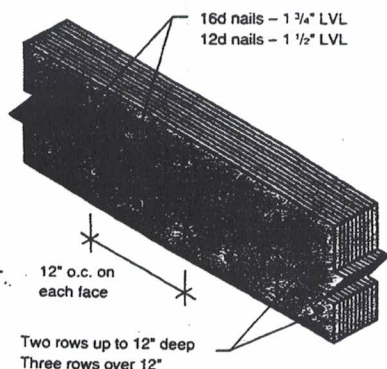
Notes (for page 6 and 7)

- Beam spans are defined as follows: Simple span dimensions are measured from inside face of supports. Multiple span dimensions are measured from inside face of exterior supports to center line of interior supports.
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- PLF values are for a single ply of 1 3/4" Gang-Lam LVL.
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CONNECTION OF MULTIPLE PLY BEAMS

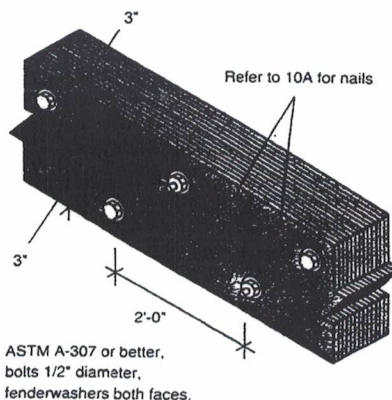
10A TOP LOADED (3 PLYS MAXIMUM)

Framing is applied on top of the beam so that each ply carries an equal load.



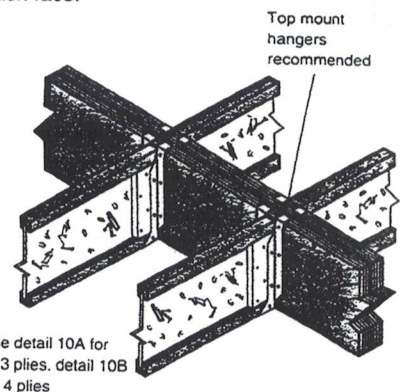
10B TOP LOADED 4 PLYS

Framing is applied on top of the beam so that each ply carries an equal load.



10C SIDE LOADED

The same framing is used on each side of the beam so the same load is carried on each face.



GANG-LAM LVL 2950 Fb 2.0E MAXIMUM UNIFORM LOAD (PLF)

ALLOWABLE FLOOR LOADS (PLF) 100%

| Beam Span (ft) | 1 Ply 1 1/4 x 7 1/4 | | | 1 Ply 1 1/4 x 9 1/4 | | | 1 Ply 1 1/4 x 9 1/2 | | | 1 Ply 1 1/4 x 11 1/4 | | | 1 Ply 1 1/4 x 11 3/8 | | | 1 Ply 1 1/4 x 14 | | | 1 Ply 1 1/4 x 16 * Refer To Note 4 | | | 1 Ply 1 1/4 x 18 * Refer To Note 4 | | |
|----------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|----------------------|-------|------------|---------------------------------------|-------|------------|---------------------------------------|-------|------------|
| | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load | Live Load Deflection | | Total Load |
| | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 | L/360 | L/480 | L/240 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 681 | 522 | 777 | 1046 | 1016 | 1046 | 1082 | 1082 | 1082 | 1348 | 1348 | 1348 | 1450 | 1450 | 1450 | 1827 | 1827 | 1827 | 2233 | 2233 | 2233 | 2698 | 2698 | 2698 |
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| 22 | - | - | - | 32 | - | 43 | 34 | - | 47 | 57 | 43 | 79 | 66 | 50 | 93 | 108 | 81 | 154 | 160 | 121 | 229 | 225 | 170 | 324 |
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| 28 | - | - | - | - | - | - | - | - | - | - | - | 36 | 33 | - | 43 | 53 | 40 | 72 | 79 | 59 | 109 | 111 | 84 | 156 |
| 29 | - | - | - | - | - | - | - | - | - | - | - | 32 | - | - | 38 | 48 | 36 | 64 | 71 | 53 | 98 | 100 | 76 | 140 |
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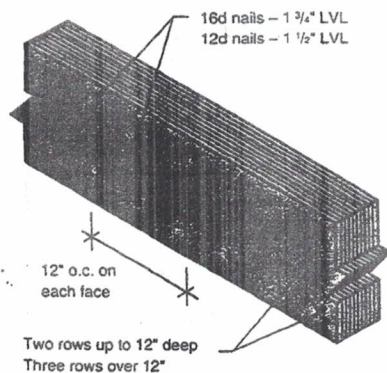
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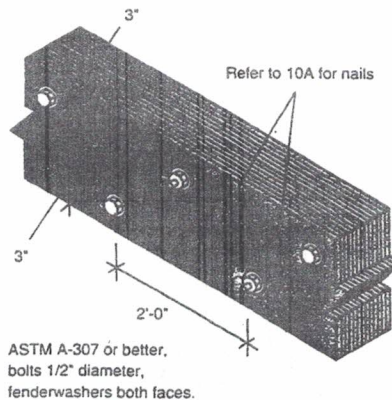
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