

<sup>1 &</sup>lt;u>B-FRONT - CONTEMPORARY</u> 3/8" = 1'-0"

| TABLE OF CONTENTS B |                               |  |  |
|---------------------|-------------------------------|--|--|
| SHEET<br>NUMBER     | SHEET NAME                    |  |  |
|                     |                               |  |  |
| G000 - B            | COVER                         |  |  |
| G101 - B - F        | LOWER LEVEL / FOUNDATION PLAN |  |  |
| G102 B              | MAIN LEVEL PLAN               |  |  |
| G103 - B            | UPPER LEVEL PLAN              |  |  |
| G104                | LIGHTING/OUTLET LOCATIONS     |  |  |
| G105 B              | ROOF PLAN                     |  |  |
| G200 - B - F        | DESIGN ELEVATIONS             |  |  |
| S000                | STRUCTURAL GENERAL NOTES      |  |  |
| S501                | FOUNDATION DETAILS            |  |  |
| S503                | GARAGE/SLAB DETAILS           |  |  |
| S510                | FRAMING STANDARDS             |  |  |
| S520                | DECK DETAILS                  |  |  |
| S530                | BRACING DETAILS               |  |  |
| S550                | FASTENING SCHEDULE            |  |  |

| BUILDING SQUARE FOOTAGE (SQFT)          |      |  |  |
|---|------|--|--|
| MAIN LEVEL CONDITIONED SPACE TOTAL      | 1311 |  |  |
| UPPER LEVEL CONDITIONED SPACE TOTAL     | 1355 |  |  |
| CONDITIONED SPACE TOTAL (SQ FT)         | 2666 |  |  |
| OPT LOWER LEVEL CONDITIONED SPACE TOTAL | 629  |  |  |
|   |      |  |  |
| LOWER LEVEL UNCONDITIONED SPACE TOTAL   | 1306 |  |  |
| GARAGE TOTAL                            | 708  |  |  |
| UNCONDITIONED SPACE TOTAL (SQ FT)       | 2014 |  |  |

EVERSTEAD HAS PRODUCED THIS PLAN SET FOR THE CLIENT LISTED IN ACCORDANCE WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE FOR THE PROJECT AT THE ADDRESS LISTED ON THE PLANS. USE OF ANY PART OF THIS PLAN SET TO DEMOLISH, CONSTRUCT OR BUILD IN ANY MANNER ON PROPERTY OTHER THAN THE LISTED ADDRESS IS PROHIBITED WITHOUT WRITTEN CONSENT FROM EVERSTEAD.

ALL THIRD PARTY INSPECTIONS MUST BE PERFORMED BY THE ENGINEER OF RECORD (EOR). THIRD PARTY INSPECTION INCLUDE BUT ARE NOT LIMITED TO INSPECTIONS OF THE BEARING SOIL, FOOTINGS, PIERS, FOUNDATIONS, STRUCTURAL / SUSPENDED SLABS, RETAINING WALLS BACKFILL AND REINFORCEMENT), LUMBER FRAMED CONTRACTIBILITY ISSUES, AND STRUCTURAL ITEMS IDENTIFIED BY THE LOCAL CODE INSPECTOR.

EVERSTEAD MUST BE NOTIFIED OF ANY AND ALL POTENTIAL DISPUTES, CLAIMS, ARBITRATION AND/OR LITIGATION THAT THE OWNER MAY PURSUE AGAINST THE CONTRACTOR AND/OR BUILDER. FAILURE TO NOTIFY EVERSTEAD AND ALLOW THE EOR TO PROVIDE THEIR OPINION ON ANY DISPUTE, CLAIM, ARBITRATION AND/OR LITIGATION PERTAINING TO ANY STRUCTURAL ASPECT OF THE PROJECT SHALL ABSOLVE EVERSTEAD OF ALL RESPONSIBILITY.



SCALE

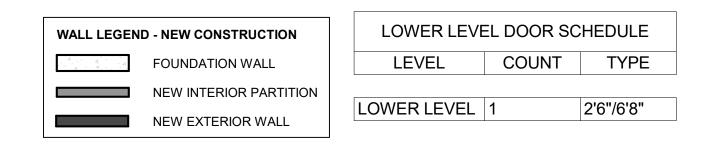
As indicated

#### **GENERAL PLAN NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.
- ALL DIMENSIONS ARE FROM FACE OF STUD U.N.O. MINIMUM DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.
- CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED.
- CEILING JOISTS SHALL BE 2x6 @ 16" O.C. U.N.O. WALL CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL 6.
- LOADS IMPOSED ACCORDING TO IRC R301.
- EXTERIOR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH IRC 602 & FIGURES R602.3(1) AND R602.3(2).
- ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- INTERIOR NON-LOAD BEARING WALLS SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE UNLESS THE INTERIOR NON-LOAD BEARING WALL RESTS DIRECTLY ON A FOOTING.
- SOLID BLOCKING BETWEEN JOISTS AT 48" O.C. AND EXTEND BLOCKING 10. ONE JOIST BAY PAST EACH SIDE OF KITCHEN ISLAND
- DOUBLE JOIST UNDER KITCHEN ISLAND AND TUBS 11.
- ALL JOIST HANGERS TO BE SIMPSON LUS HANGERS UNO 12.
- INTERIOR LOAD BEARING WALL

#### FOUNDATION NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE (IRC). FOOTING ELEVATION TO BE DETERMINED BASED ON FINAL GRADE: ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".
- SOIL BEARING CAPACITY SHALL BE MINIMUM 1500 PSF.
- REFER TO SHEET S000 FOR MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE. REQUIRED AIR ENTRAINMENT SHALL BE 5-7% AS SPECIFIED IN IRC TABLE R402.2.
- FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC R406.
- FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH IRC R405. ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE
- BASEMENT FLOOR SLAB.
- STEEL COLUMNS SHALL BE A MINIMUM OF SCHEDULE 40. ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 3' O.C. AND BE EMBEDDED INTO THE CONCRETE A 10. MINIMUM OF 7".
- BASEMENT EGRESS SHALL COMPLY WITH IRC R310. 11
- FOR NEW CONSTRUCTION, AN ACCESSIBLE CONNECTION POINT TO BE PROVIDED TO A 20 FOOT CONCRETE 12. ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND).
- SLAB ON GROUND SHALL BE CONTINUOUSLY SUPPORTED ON UNDISTURBED SOIL OR WITH FILL AND BASE 13. AS DESCRIBED:
  - FILL THE FILL SHALL BE COMPACTED TO PROVIDE UNIFORM SUPPORT OF THE SLAB AND SHALL Α. NOT CONTAIN DELETERIOUS QUANTITIES OF ORGANIC OR FOREIGN MATERIAL. FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL AND 8" FOR SUITABLE SOILS, UNLESS APPROVED BY THE BUILDING OFFICIAL.
  - BASE A 4" THICK BASE COURSE CONSISTING OF CLEAN GRADED SAND, GRAVEL, CRUSHED STONE, CRUSHED SLAG, OR RECYCLED CONCRETE PASSING A 2" SIEVE SHALL BE PLACED ON THE PREPARED SUBGRADE WHEN THE SLAB IS BELOW GRADE.



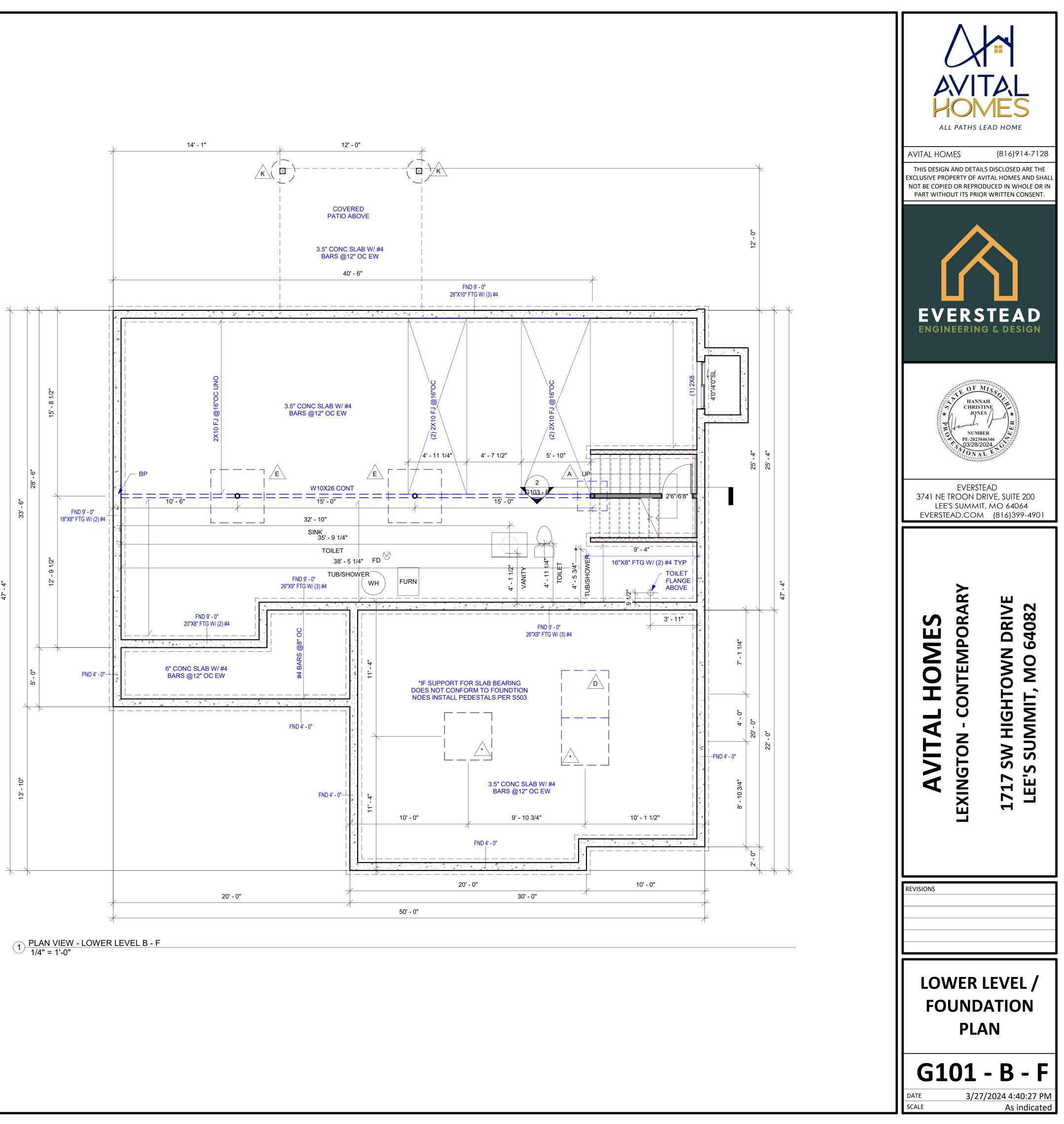
| LOWER LEVEL WINDOW SCHEDULE |       |             |                       |                |
|-----------------------------|-------|-------------|-----------------------|----------------|
| LEVEL                       | COUNT | TYPE        | FAMILY                | HEAD<br>HEIGHT |
| LOWER LEVEL                 | 1     | 4'0"/4'0"SL | Window-Sliding-Double | 7' - 0"        |

|     | ISOLATED FOOTINGS AND COLUMN PADS |       |  |   |
|-----|-----------------------------------|-------|--|---|
| SYM | PIER<br>PAD SIZE                  | DEPTH | MINIMUM<br>REINFORCEMENT GRADE<br>40 KSI STEEL | SCHEDULE 40<br>STEEL COLUMN,<br>MIN FY = 35 KSI |
|     | 30"x30"                           | 1'-0" | (5) #4 BAR E.W.                                | 3" DIAMETER                                     |
| B   | 36"x36"                           | 1'-0" | (6) #4 BAR E.W.                                | 3" DIAMETER                                     |
| c   | 42"x42"                           | 1'-2" | (7) #4 BAR E.W.                                | 3" DIAMETER                                     |
|     | 48"x48"                           | 1'-4" | (8) #4 BAR E.W.                                | 3" DIAMETER                                     |
| E   | 54"x54"                           | 1'-4" | (9) #4 BAR E.W.                                | 3.5" DIAMETER                                   |
| F   | 60"x60"                           | 1'-6" | (10) #4 BAR E.W.                               | 3.5" DIAMETER                                   |

\*DENOTES STEEL COLUMN NOT REQUIRED

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

| FOUNDATION WALL AND FOOTING TABLE (3000 PSI CONCRETE AND 40 KSI REBAR PLACED 2"<br>FROM INSIDE TENSION FACE) |                           |                              |                                 |  |
|--|---------------------------|------------------------------|---------------------------------|--|
| WALL TYPE  | NOMINAL WALL<br>THICKNESS | VERTICAL SPACING<br>AND SIZE | HORIZONTAL SPACING<br>AND SIZE  | FOOTING SPECIFICATION<br>U.N.O. ON PLANS |
| 3'-6" TRENCH FOOTING   | 16"                       | #4 BARS @18" O.C.            | (2) #4 BARS TOP &<br>BOT. CONT. |  |
| < 6'-0" WALL   |                           | #4 BARS @36" O.C.            |                                 | 16" x 8" CONC. FTG. W/                   |
| 8'-0" WALL   | 8"                        | #4 BARS @16" O.C.            | #4 BARS @ 24" O.C.              | (2) #4 BARS CONT.                        |
| 9'-0" WALL   |                           | #4 BARS @12" O.C.            |                                 |  |



## **GENERAL PLAN NOTES**

- 1. ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.
- ALL DIMENSIONS ARE FROM FACE OF STUD U.N.O.
- MINIMUM DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS. MAIN LEVEL 3 CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED.
- CEILING JOISTS SHALL BE 2x6 @ 16" O.C. U.N.O.
- WALL CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL LOADS IMPOSED ACCORDING TO IRC R301.
- EXTERIOR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH IRC MAIN LEVEL
- 602 & FIGURES R602.3(1) AND R602.3(2). ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR MAIN LEVEL
- THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MAIN LEVEL MATERIAL. INTERIOR NON-LOAD BEARING WALLS SHALL BE ISOLATED FROM THE MAIN LEVEL
- FLOOR FRAMING ABOVE UNLESS THE INTERIOR NON-LOAD BEARING WALL RESTS DIRECTLY ON A FOOTING. SOLID BLOCKING BETWEEN JOISTS AT 48" O.C. AND EXTEND BLOCKING FOUNDATION 1 10.
- ONE JOIST BAY PAST EACH SIDE OF KITCHEN ISLAND DOUBLE JOIST UNDER KITCHEN ISLAND AND TUBS
- 12. ALL JOIST HANGERS TO BE SIMPSON LUS HANGERS UNO
- INTERIOR LOAD BEARING WALL

#### WALL BRACING NOTES:

- WALL BRACING IS DESIGNED IN ACCORDANCE WITH IRC R602.10 BRACING METHODS SHALL BE PER PLAN AND SHALL BE
- 2. CONSTRUCTED IN CONFORMANCE WITH 2018 IRC R602.10.4 AND R602.10.5
- FOR METHOD CS-WSP STRUCTURAL PANEL SHEATHING SHALL BE INSTALLED ON 3. ALL SHEATHABLE SURFACES ON ONE SIDE OF THE BRACED WALL LINE INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS. END CONDITIONS SHALL MEET THE REQUIREMENTS OF R602.10.7 AND DETAIL 9-S400.
- ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE 4. NAILED TO COMMON FRAMING OR BLOCKING WITH AN APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE
- WITH IRC R602.10.4.4 INTERIOR FINISH OF EXTERIOR WALLS SHALL BE MINIMUM 1/2" 5.
- GYPSUM BOARD INSTALLED ON THE INTERIOR SIDE.

#### BRACING METHODS

BRACING CS-WSP PER IRC R602.10

BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2)

BRACING LIB PER IRC R602.10 MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5: 55" - 8' TALL WALL HEIGHT 62" - 9' TALL WALL HEIGHT •

> • 69" - 10' TALL WALL HEIGHT

BRACING PFH PER IRC R602.10.6.2

## WALL LEGEND - NEW CONSTRUCTION

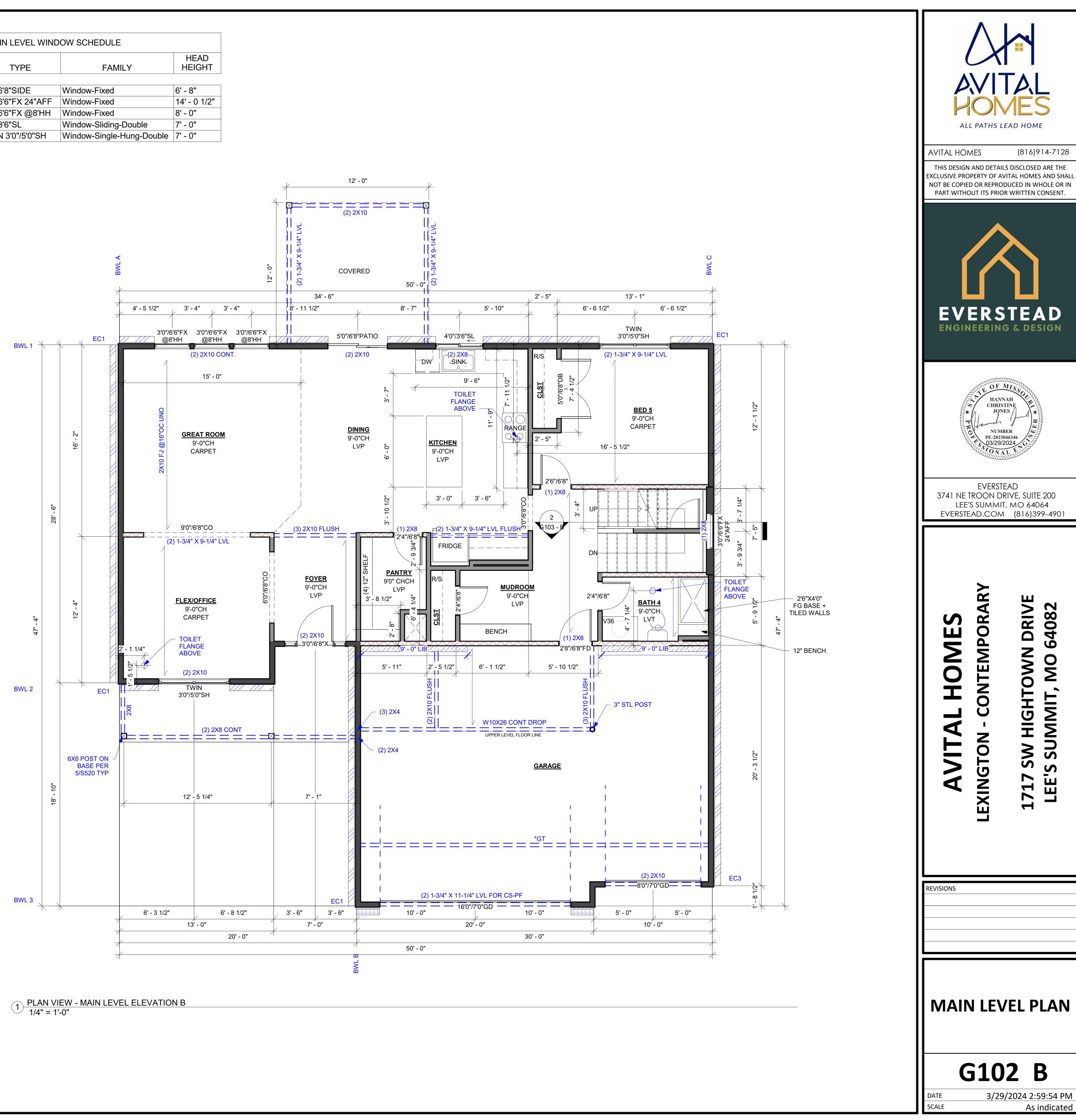
| FOUNDATION WALL        |
|------------------------|
| NEW INTERIOR PARTITION |

NEW EXTERIOR WALL

#### MAIN LEVEL DOOR SCHEDULE LEVEL COUNT TYPE

2'4"/6'8" MAIN LEVEL 2'6"/6'8" MAIN LEVEL 2'8"/6'8"FD 3'0"/6'8"CO 3'0"/6'8"X 5'0"/6'8"DB 5'0"/6'8"PATIO MAIN LEVEL 6'0"/6'8"CO 8'0"/7'0"GD MAIN LEVEL 9'0"/6'8"CO FOUNDATION 1 16'0"/7'0"GD

| MAIN LEVEL WINDOW SCHEDULE                                     |             |  |  |  |
|--|-------------|--|--|--|
|  | EAD<br>IGHT |  |  |  |
|  |             |  |  |  |
| MAIN LEVEL 2 1'0"/6'8"SIDE Window-Fixed 6' - 8                 | "           |  |  |  |
| MAIN LEVEL 1 3'0"/6'6"FX 24"AFF Window-Fixed 14' -             | 0 1/2"      |  |  |  |
| AIN LEVEL 3 3'0"/6'6"FX @8'HH Window-Fixed 8' - 0              | "           |  |  |  |
| AIN LEVEL 1 4'0"/3'6"SL Window-Sliding-Double 7' - 0           | "           |  |  |  |
| MAIN LEVEL 2 TWIN 3'0"/5'0"SH Window-Single-Hung-Double 7' - 0 | "           |  |  |  |



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- WALL RESTS DIRECTLY ON A FOOTING. SOLID BLOCKING BETWEEN JOISTS AT 48" O.C. AND EXTEND BLOCKING 10. ONE JOIST BAY PAST EACH SIDE OF KITCHEN ISLAND
- DOUBLE JOIST UNDER KITCHEN ISLAND AND TUBS 11 ALL JOIST HANGERS TO BE SIMPSON LUS HANGERS UNO 12.

INTERIOR LOAD BEARING WALL

#### WALL BRACING NOTES:

- WALL BRACING IS DESIGNED IN ACCORDANCE WITH IRC R602.10
- BRACING METHODS SHALL BE PER PLAN AND SHALL BE 2. CONSTRUCTED IN CONFORMANCE WITH 2018 IRC R602.10.4 AND R602.10.5 FOR METHOD CS-WSP STRUCTURAL PANEL SHEATHING SHALL BE INSTALLED ON 3. ALL SHEATHABLE SURFACES ON ONE SIDE OF THE BRACED WALL LINE
- INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS. END CONDITIONS SHALL MEET THE REQUIREMENTS OF R602.10.7 AND DETAIL 9-S400. ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE 4. NAILED TO COMMON FRAMING OR BLOCKING WITH AN
- APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE WITH IRC R602.10.4.4 INTERIOR FINISH OF EXTERIOR WALLS SHALL BE MINIMUM 1/2" 5.
- GYPSUM BOARD INSTALLED ON THE INTERIOR SIDE.

#### BRACING METHODS

| BRACING CS-PF PER IRC R602.10.6.4 |
|-----------------------------------|
|-----------------------------------|

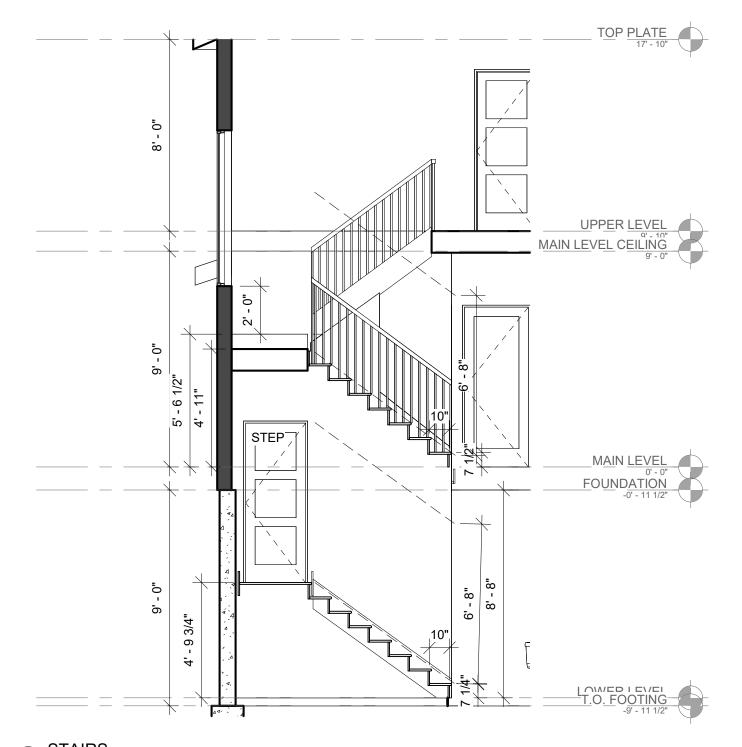
BRACING CS-WSP PER IRC R602.10

BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2)

BRACING LIB PER IRC R602.10 MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5: • 55" - 8' TALL WALL HEIGHT 62" - 9' TALL WALL HEIGHT • 69" - 10' TALL WALL HEIGHT

BRACING PFH PER IRC R602.10.6.2

| WALL LEGEND - NEW CONSTRUCTION |                        |  |  |
|--------------------------------|------------------------|--|--|
|                                | FOUNDATION WALL        |  |  |
|                                | NEW INTERIOR PARTITION |  |  |
|                                | NEW EXTERIOR WALL      |  |  |



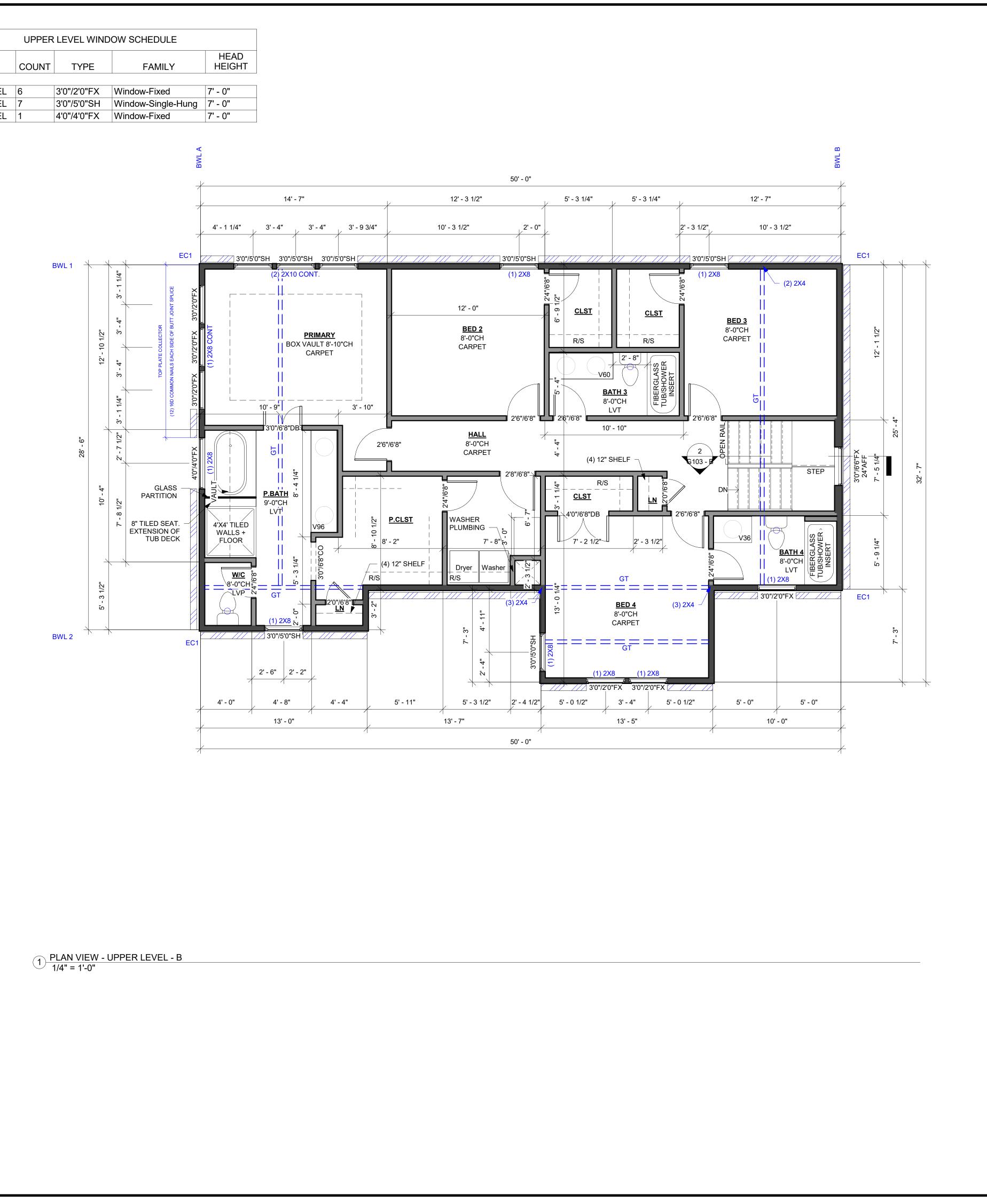
2 STAIRS 1/4" = 1'-0"

#### UPPER LEVEL DOOR SCHEDULE COUNT TYPE LEVEL

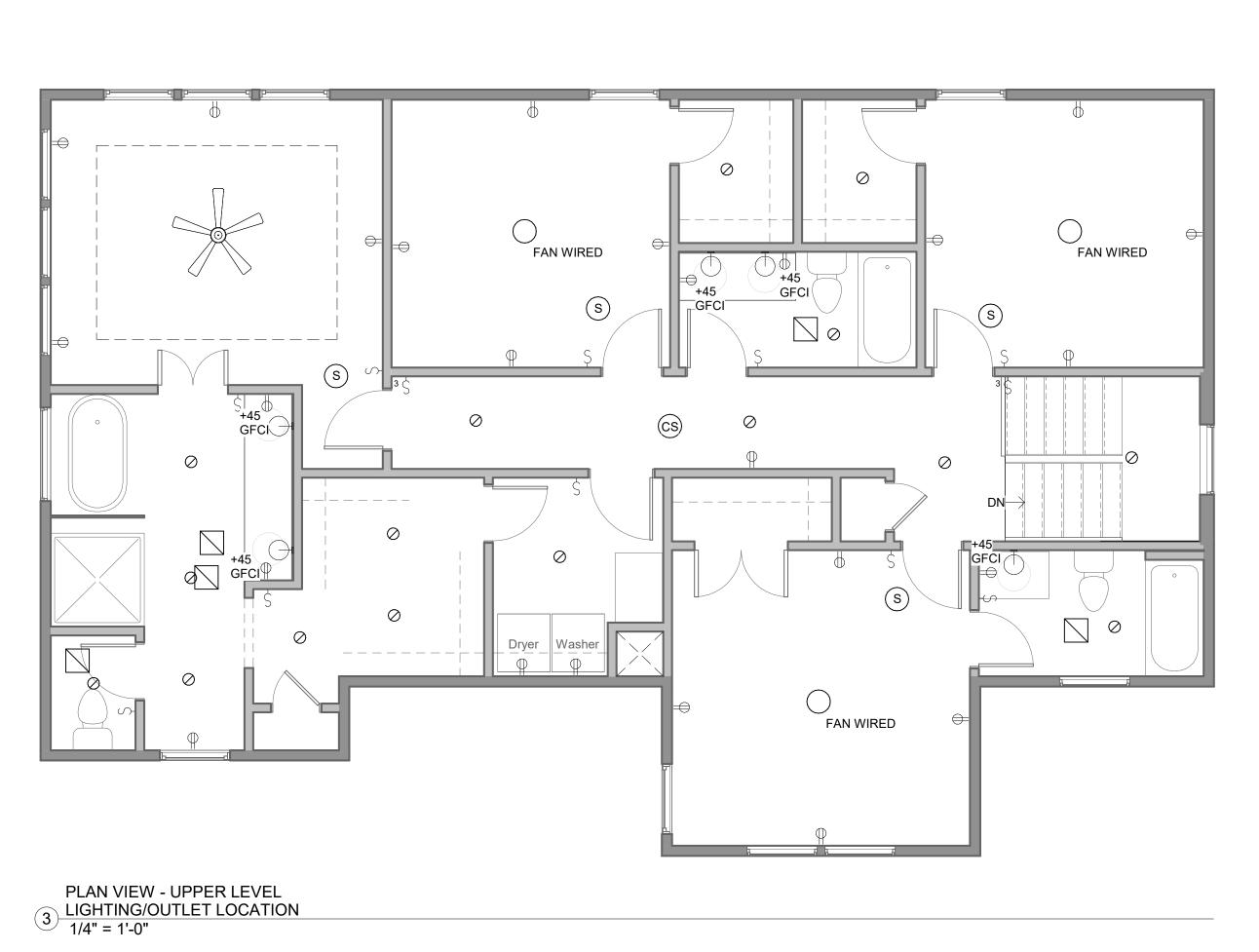
| UPPER LEVEL | 2 | 2'0"/6'8"   |
|-------------|---|-------------|
| UPPER LEVEL | 5 | 2'4"/6'8"   |
| UPPER LEVEL | 5 | 2'6"/6'8"   |
| UPPER LEVEL | 1 | 2'8"/6'8"   |
| UPPER LEVEL | 1 | 3'0"/6'8"CO |
| UPPER LEVEL | 1 | 3'0"/6'8"DB |
| UPPER LEVEL | 1 | 4'0"/6'8"DB |

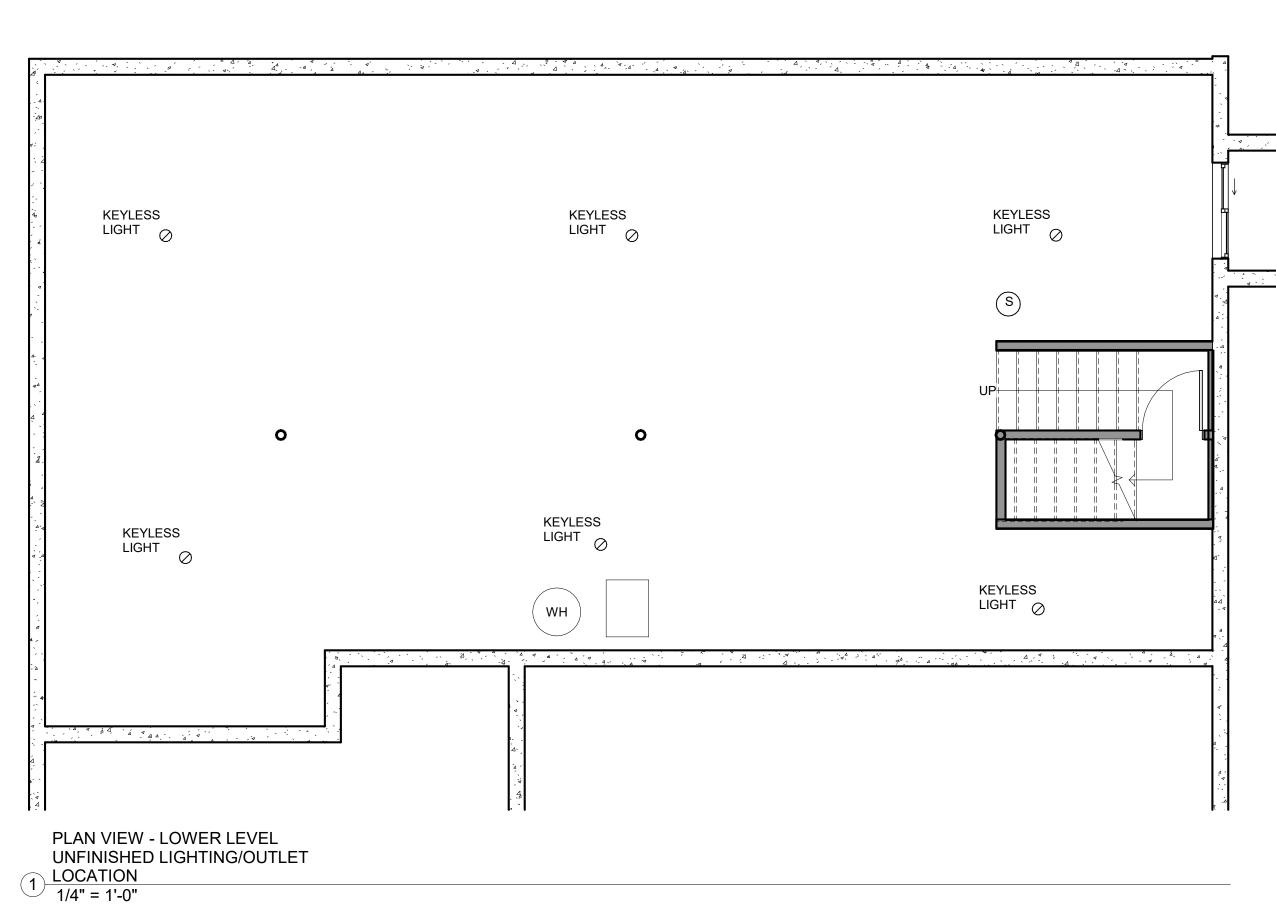
LEVEL

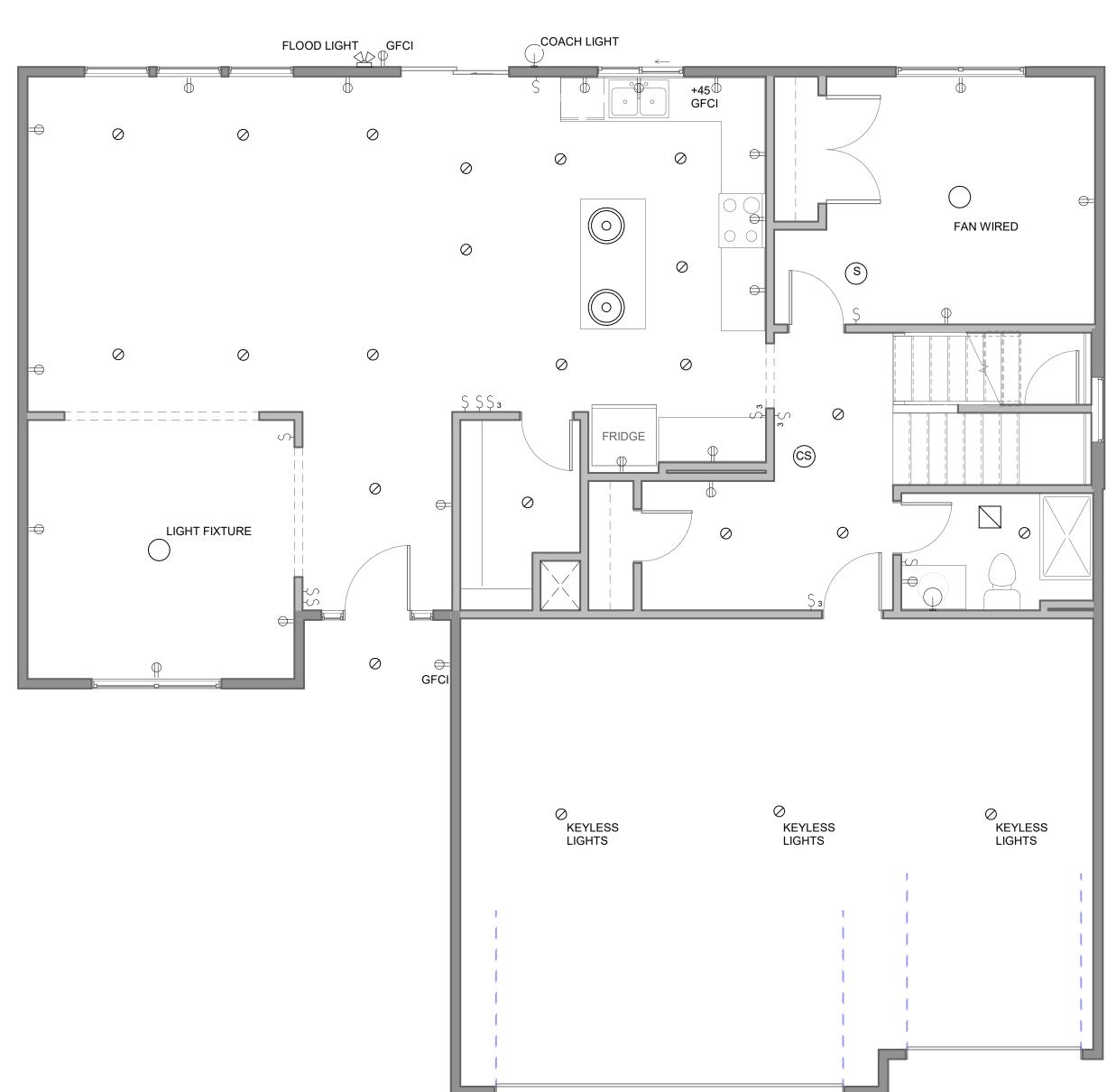
UPPER LEVEL 6 UPPER LEVEL UPPER LEVEL



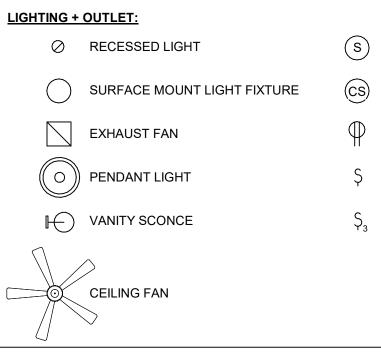








PLAN VIEW - MAIN LEVEL 2 LIGHTING/OUTLET LOCATION 1/4" = 1'-0"



- SMOKE DETECTOR
- CS CARBON/SMOKE DETECTOR
- DUPLEX RECPTICAL
- SINGLE WAY SWITCH
- 53 THREE WAY SWITCH



STICK FRAMED ROOF NOTES 1. ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER

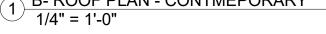
- SPECIFICATIONS WHERE APPLICABLE. PROVIDE 2x SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.
- ROOF IS ENGINEERED TO COMPLY WITH IRC 802. 3. 4.
- ALL RAFTERS SHALL BE 2x6 @ 16" O.C. U.N.O. RIDGE BOARDS, HIPS, AND VALLEYS SHALL BE A DEPTH NOT LESS THAN THE CUT END OF RAFTERS BEING 5.
- SUPPORTED. 6.
- STRUCTURAL RIDGE, HIP, VALLEY BEAMS PER PLAN, IF REQUIRED. PURLINS AND PURLIN STRUTS SHALL BE PER IRC SECT. R802.4.5 w/ MODIFICATIONS AS FOLLOWS: PURLIN STRUTS SHALL BE CONSTRUCTED IN A " T " CONFIGURATION AND PER THE CHART BELOW. 7.

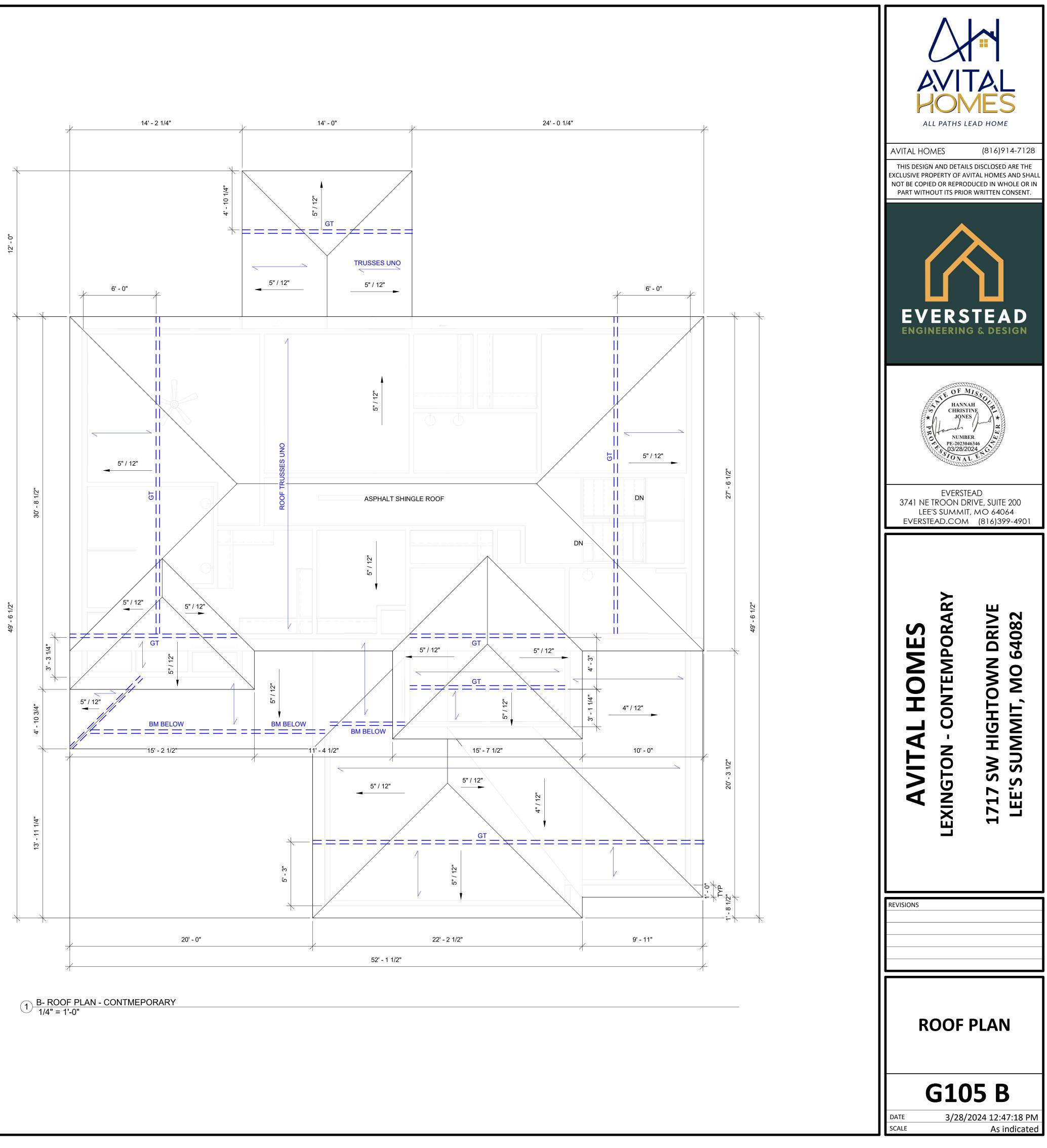
|      |   | PURLIN STRUT      | MAX PURLIN STRUT LENGTH         |              |
|------|---|-------------------|---------------------------------|--------------|
|      |   | (2) 2x4           | 8'-0"                           | -            |
|      |   | 2x4 AND 2x6       | 12'-0"                          | -            |
|      | HIP, VALLEY, OR RIDGE SUPPORT TO STRUCTU<br>(IN ADD'N TO MIN CODE REQUIREMENTS) |                   |                                 |              |
|      |   |                   | MING DIRECTION                  |              |
|      |   |                   | PURLIN STRUTS                   |              |
|      |   |                   |                                 |              |
| RUSS | FRAMED ROOF NOTE  | S                 |                                 |              |
|      | ALL CONSTRUCTION<br>ATTACHED ENGINEE  |                   | 2018 INTERNATIONAL RESIDENT     | IAL CODE OR  |
| 2    |   |                   | JNO. SEE G000 FOR MINIMUM LOA   | ADING.       |
| 5.   | ALL EXTERIOR AND/C  | OR LOAD BEARING W | ALL HEADERS SHALL BE MIN. (2) # | #2 2X10 UNO. |
|      |   | IF TRUSSES BEAR O | N INTERIOR WALLS SHOWN AS N     | ON-LOAD      |

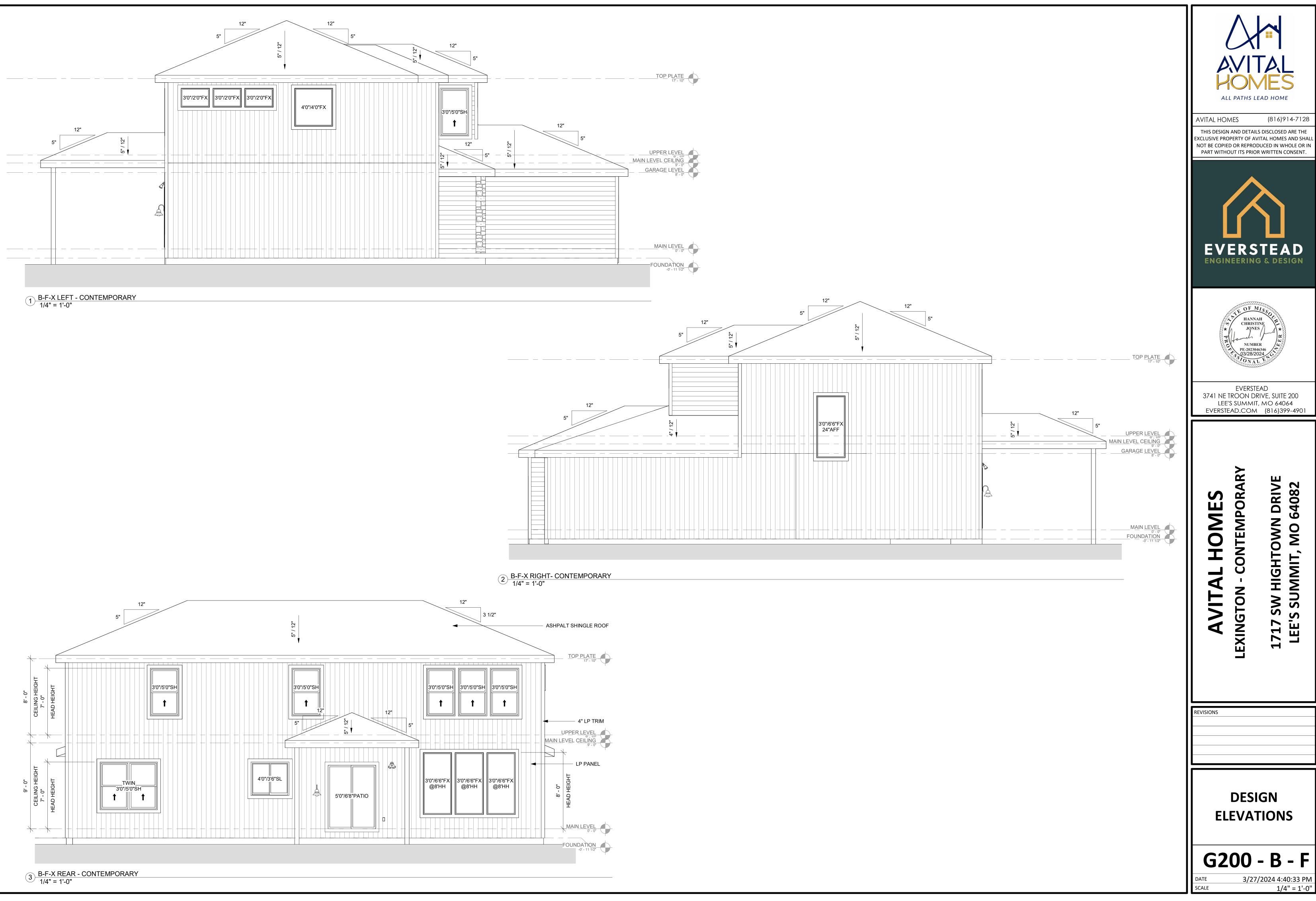
- BEARING ON APPROVED POINTS. PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO 5.
- BEARING STRUCTURE AND/OR FOUNDATION BELOW.
- WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC 802.10. CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS SHOWN AS NON-LOAD 6
- BEARING ON APPROVED PRINTS. 8. GIRDER TRUSSES MUST HAVE LOAD CARRIED DOWN TO THE FOUNDATION OR LOAD
- SUPPORTING MEMBER. STUD PACK / COLUMN SHOWN ON PLANS.
- 9. ROOF COVERING SHALL BE ASPHALT SHINGLES AND SHALL COMPLY WITH IRC 2018 SECT. R905.2
- MINIMUM ROOF SLOPE FOR ASPHALT SHINGLES SHALL BE 2:12. 10.
- 11. ROOF SLOPES IN BETWEEN 4:12 AND 2:12 SHALL REQUIRE DOUBLE UNDERLAYMENT IN ACCORDANCE WITH IRC 2018 TABLE R905.1.1(2). 12. EVERSTEAD STRUCTURAL SCOPE ENDS AT TOP PLATE FOR ROOF TRUSSES.

TRUSS DIRECTION

- \_\_\_\_ GIRDER TRUSS LOCATION \_ \_ \_ \_ \_ \_ \_
- INTERIOR LOAD BEARING WALL







| Α.  | GENERAL NOTES IRC 2018  |  | C.5 | CONCRETE (CONT.)  |
|-----|---|--|-----|---|
| A.1 |   | ATIONAL RESIDENTIAL CODE (IRC) WITH AMENDMENTS AS  |     | CONCRETE MIX TO UTILIZE A MAXIMU     APPLICATIONS. ADMIXTURES SHALL N   |
|     | ENGINEER OF RECORD IF ANY CHANGES<br>CONSTRUCTION. THE ENGINEER OF RECO   | DR DEVIATIONS FROM THE CONTRACTOR SHALL NOTIFY THE<br>DR DEVIATIONS FROM THE PLAN ARE MADE DURING<br>DRD MAY REQUIRE REVISED DRAWING OR CALCULATIONS<br>RE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION              |     | CONCRETE POURED AGAINST AN EXI<br>OF 1/4 INCH AMPLITUDE.  |
|     | SHALL APPLY.  |  |     | REBAR PLACEMENT SHALL BE AS FOL   |
| A.2 | LOADING ASSUMPTIONS   |  |     | CONCRETE CAST AGAINST AN  |
|     | DEAD<br>ROOF<br>ROOF + CEILING (NO STORAGE)<br>ROOF + CEILING (STORAGE)   | 10 PSF UNO<br>15 PSF<br>20 PSF   |     | <ul> <li>CONCRETE EXPOSED TO EAR</li> <li>NOT EXPOSED TO WEATHER</li> <li>1) SLABS, WALLS, JOISTS</li> <li>2) BEAMS, COLUMNS</li> </ul>                             |
|     | CEILING JOISTS (STORAGE)<br>EXTERIOR BALCONY / DECK<br>INTERIOR FLOOR (MAIN FLOOR)  | 10 PSF<br>10 PSF<br>15 PSF   |     | CONCRETE MIX DESIGN SHALL BE 6% WALLS, OR FLATWORK EXPOSED TO   |
|     | INTERIOR FLOOR (UPPER FLOÓRS)<br>8" THICK MASONRY WALL<br>6" THICK MASONRY WALL   | 10 PSF<br>96 PSF<br>72 PSF   |     | <ul> <li>SHORING AND SUPPORTING FORMWO<br/>MEMBERS BEFORE CONCRETE STRE<br/>CYLINDERS OR 28 DAYS.</li> </ul>  |
|     | EXTERIOR LIGHT FRAMED WOOD WALLS<br>INTERIOR LIGHT FRAMED WOOD WALLS<br>(INTERIOR WALLS INCLUDED IN 15 PSF DE   | 15 PSF<br>10 PSF<br>AD LOAD)   |     | ALL FOUNDATION WALLS ENCLOSING     DAMPPROOFING SHALL EXTEND FRO  |
|     | LIVE<br>ROOF LIVE LOAD  |  | C.6 | (IRC R406.1)<br>CONCRETE WALLS WITH REINFORCEMENT S   |
|     | FLOOR LIVE LOAD<br>GARAGE<br>STORAGE  | 40 PSF (HABITABLE)<br>50 PSF WITH 2000 LB POINT LOAD<br>20 PSF (UNINHABITABLE)   | 0.0 | REINFORCING STEEL SHALL CONFOR  |
|     | GUARDRAIL:<br>CONTINUOUS LINEAR   | 50 PLF   |     | SMOOTH BARS OR WELDED WIRE FAI  |
|     |   | 200 LBS  |     | • 90 DEG. HOOK SHOWN IN DRAWINGS  |
|     | <u>SNOW</u><br>GROUND SNOW LOAD   | 20 PSF   |     | <ul> <li>STRAIGHT EXTENSION LENGT</li> <li>BEND DIAMETER = 12X BAR DI</li> </ul>  |
|     | WIND<br>VELOCITY  | 115 MPH  |     | HOOKED DOWELS:  |
| В.  | EXPOSURE CATEGORY SOIL AND SITE ASSUMPTIONS   | В  |     | HOOKED DOWELS FROM FOU     VERTICAL WALL REINFORCING     FOUNDATION.  |
| B.1 | KANSAS CITY, MO) UNLESS OTHERWISE N<br>PROVIDE GEOTECHNICAL INVESTIGATION   | SOIL BEARING FOR THE SITE OF 1,500 PSF (2,000 PSF FOR<br>OTED. CONTRACTOR TO VISUALLY INSPECT THE SITE OR<br>TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS FOR CL<br>E CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION |     | HOOKED DOWELS MATCH SLA FOUNDATION.   |
|     |   | UIREMENTS AND FOR CONTACTING THE ENGINEER OF   |     | PROVIDE (2) - #5 BARS AROUND PERI   |
| B.2 | ACCESSORY STRUCTURES WITH AN EAVE   | HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT<br>12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.  |     | <ul> <li>WHERE SPLICES ARE NECESSARY IN<br/>IN ACCORDANCE WITH TABLE R608.5.</li> <li>BETWEEN NONCONTACT PARALLEL E<br/>OF ONE-FIFTH THE REQUIRED LAP LE</li> </ul> |
| B.3 | LATERAL SOIL PRESSURES UNLESS OTHE<br>ACTIVE 60 PSF<br>AT REST 100 PSF  | RWISE NOTED  |     | TOP HORIZONTAL REINFORCEMENT S     WALL.  |
| B.4 | O.5% (6" IN THE FIRST 10'-0"). ALTERNATE  | DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF<br>APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN<br>ERFORMANCE, AND PROVIDES FOR POSITIVE SITE   |     | HORIZONTAL WALL REINFORCEMENT     STANDARD HOOK   |
|     | DRAINAGE.   | ,,,  | C.7 | COLD WEATHER CONCRETE   |
| C.  |   |  |     | COLD WEATHER IS DEFINED AS THRE     TEMPERATURE DROPS BELOW 40 DE   |
| C.1 | FOUNDATION ANCHORAGE (IRC R403.1.6)     SILL PLATES SHALL BE BOLTED TO  | THE FOUNDATION WALL WITH A MINIMUM ½" DIAMETER   |     | FAHRENHEIT FOR MORE THAN HALF   |
|     | ANCHOR BOLTS EMBEDDED AT LE   | AST 7" INTO THE CONCRETE.  |     | <ul> <li>COLD WEATHER CONCRETE WORK S</li> <li>ALL MATERIALS AND EQUIPMENT REC</li> </ul>   |
|     | BOLTS SHALL BE SPACED NO GRE  | ATER THAN 6'-0" O.C.<br>NO BOLTS PER PLATE SECTION, WITH A BOLT PLACED   |     | PROJECT SITE BEFORE COLD WEATH  |
|     | WITHIN 12" AND NOT CLOSER THA   | HER SHALL BE TIGHTENED ON EACH BOLT TO THE PLACED  |     | <ul> <li>THE CONCRETE MIX DESIGN PROVIDE<br/>AVERAGE 28 DAY MIX DESIGN COMPE<br/>WHICHEVER IS GREATER.</li> </ul>   |
|     |   | PLATE + 3/4" FOR NUT AND WASHER EQUALS A 9-1/4" LONG   |     | THE TEMPERATURE OF CONCRETE A     FAHRENHEIT .  |
|     |   | 02) MAY REQUIRE ADDITIONAL ANCHORAGE.  |     | THE MINIMUM CONCRETE TEMPERAT     DEGREES FAHRENHEIT.   |
| C.2 |   |  |     | ALL SNOW, ICE AND FROST MUST BE   |
|     | UNIFORM SUPPORT OF THE SLAB<br>MATERIAL (SAND OR GRAVEL) OR   |  |     | THE CONTRACTOR SHALL PROVIDE A     FREEZING AND MAINTAIN A CONCRET     HOUR PERIOD AFTER CONCRETE PLA   |
|     | FLOOR SLABS.  | GE FLOOR FILLS, OR OVER EXCAVATED AREAS UNDER  |     | GROUND TEMPERATURE AT THE TIME  |
|     |   | TION DETAILS IN THIS DOCUMENT (WHERE APPLICABLE<br>NG LIMITATIONS) MAY BE USED IN LIEU OF PROVIDING A  |     | <ul> <li>LESS THAN 35 DEGREES FAHRENHEIT</li> <li>INSULATION, FORMS AND HEATERS M</li> </ul>  |
|     |   | EDING THE SPANS AND CONDITIONS OF THE APPROVED<br>ED BY A PROFESSIONAL ENGINEER.   |     | MAINTAIN ADEQUATE PROTECTION O     EXPOSED CONCRETE ELEMENT TO P  |
|     | SLABS AT MAX 4'-0" OVER-DIG ADJ   | ACENT TO FOUNDATION WALL:  | C.8 | FOOTNOTES   |
|     |   | D FOR A MAXIMUM DIMENSION OF 4'-0" HORIZONTALLY<br>ON WALL, THE STANDARD OVER-DIG DETAIL MAY BE USED IN<br>JCTURAL SLAB.   | -   | VERTICAL REINFORCEMENT FOR CON<br>REINFORCEMENT SPACED 24" O.C. M<br>WALLS SHALL HAVE VERTICAL REINFORCEMENT  |
|     | SEE "TYPICAL FOOTING/FO<br>DETAIL.  | UNDATION WALL/STANDARD SLAB AT MAX 4'-0" OVER-DIG"   |     | <ul> <li>8" WALL – MINIMUM 2" FROM T</li> <li>10" WALL – MINIMUM 6-3/4" FR</li> </ul>   |
| C.3 | VAPOR RETARDER / BARRIER (IRC R506.2.   |  |     | <ul> <li>EXTEND BARS TO WITHIN 8" O</li> <li>HORIZONTAL REINFORCEMENT:</li> </ul>   |
|     | MINIMUM OF 6" IS REQUIRED BETW  | R APPROVED VAPOR RETARDER WITH JOINTS LAPPED A<br>(EEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE<br>REQUIRED FOR GARAGE SLABS OR DETACHED UNHEATED   |     | ONE BAR SHALL BE PLACED V   |
|     | ACCESSORY BUILDINGS).   | EQUIRED FOR GARAGE SLABS OR DETACHED UNHEATED  |     | OTHER BARS SHALL BE EQUA     HORIZONTAL BARS SHOULD E     (INTERIOR): AND REHIND THE  |
| C.4 | FOOTINGS  |  |     | <ul> <li>(INTERIOR); AND BEHIND THE</li> <li>SUPPLEMENTAL REINFORCEN<br/>DEGREE ANGLE AT CORNERS</li> </ul>   |
|     | THE BOTTOM OF ALL FOOTINGS SI     PROTECTION (IRC R403.1.4).  | HALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST  |     | THE EDGE OF INSIDE CORNER   |
|     |   | CCESSORY STRUCTURES WITH AN AREA OF 600 SQ. FT. OR<br>-0" OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF  |     | AT MASONRY LEDGES THE MINIMUM<br>EXCEED A DEPTH OF MORE THAN 24"<br>LESS THAN 4". PROVIDE #4 BARS AT M  |
|     | CONTINUOUS SOLID MASONRY OF<br>SYSTEM TO SAFELY SUPPORT THE   | S, COLUMNS AND PIERS SHALL BE SUPPORTED ON<br>CONCRETE FOOTINGS, OR APPROVED STRUCTURAL<br>IMPOSED LOADS AND SHALL BE SIZED AND REINFORCED IN<br>RD OR SHALL BE ENGINEERED DESIGN.                                     |     | <ul> <li>STRAIGHT WALLS MORE THAN 5'-0" TA<br/>WITH EXTERIOR BRACED RETURN WA<br/>THE SHORTEST DIMENSION BETWEED<br/>SECTION).</li> </ul>                           |
|     | FOOTINGS UNDER FOUNDATION W     AND FROM ONE LEVEL TO THE NE  | ALLS SHALL BE CONTINUOUS AROUND THE STRUCTURE  |     | MINIMUM SPECIFIED CO  |
|     | <ul> <li>THE CONTINUOUS TRANSITIONS BETWEEN FOOTINGS AT DIFFERENT LEVELS ENCLOSING<br/>USABLE SPACE SHALL BE MADE BY APPROVED SOLID JUMPS OR SUPPORT SYSTEMS TO<br/>PROVIDE SAFE SUPPORT OF THE STRUCTURE.</li> </ul> |  |     |   |
|     |   | ON WALLS/STANDARD SLAB AT MAXIMUM 4" OVER-DIG" AND   |     | BASEMENT WALLS, FOUNDATIONS AND<br>OTHER CONCRETE NOT<br>EXPOSED TO THE WEATHER   |
| C.5 | CONCRETE  |  |     | BASEMENT SLABS AND INTERIOR SLABS ON<br>GRADE, EXCEPT GARAGE FLOOR SLABS  |
|     | THE MINIMUM CONCRETE 28 DAY (   | HOULD CONFORM TO ACI 318-14 (OR ACI 332) OR 2018 IRC.<br>COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC   |     | BASEMENT WALLS, FOUNDATION WALLS, EXT<br>WALLS AND OTHER VERTICAL CONCRETE WC<br>EXPOSED TO THE WEATHER   |
|     | TABLE R402.2.   |  |     |   |

PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER,AND GARAGE FLOOR SLABS

SUSPENDED SLABS

# UM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL NOT CONTAIN ANY CHLORIDES.

ISTING SURFACE SHOULD BE ROUGHENED TO A MINIMUM

## LLOWS:

| ND PERMANENTLY EXPOSED TO EARTH<br>RTH OR WEATHER<br>OR GROUND | 3.0 IN CLF<br>1.5 IN CLF |
|--|--------------------------|
| S  | 3/4 IN CLF<br>1.5 IN CLF |

6 (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WEATHER

ORK SHALL NOT BE REMOVED FROM HORIZONTAL ENGTH REACHES 70% OF STRENGTH DETERMINED BY

G BELOW GRADE SPACE SHALL BE DAMPPROOFED. THE OM THE EDGE OF THE FOOTING TO THE FINISHED GRADE.

## STEEL

RM TO ASTM A615, GRADE 40.

BRIC SHALL CONFORM TO ASTM 185.

SHALL BE STANDARD PER ACI 318-14.

TH = 12X BAR DIA.

UNDATIONS TO WALL SHALL BE PROVIDED TO MATCH NG AND EXTENDED TO 3" CLEAR FROM BOTTOM OF

AB REINFORCING FROM SLAB TO WALLS OR SLAB TO

IMETER OF ALL SUSPENDED SLABS.

N REINFORCEMENT, THE LENGTH OF LAP SPLICE SHALL BE 5.4(1) AND FIGURE R608.5.4(1). THE MAXIMUM GAP BARS AT A LAP SPLICE SHALL NOT EXCEED THE SMALLER ENGTH AND 6 INCHES (152MM) [SEE FIGURE R608.5.4.(1)].

SHALL BE PLACED WITHIN 12" FROM THE TOP OF THE

SHALL TERMINATE AT THE END OF THE WALL WITH A

#### EE CONSECUTIVE DAYS WHERE THE AVERAGE DAILY EGREES FAHRENHEIT AND NOT ABOVE 50 DEGREES OF ANY ONE OF THOSE THREE DAYS.

SHALL CONFORM TO ACI 306.

QUIRED FOR PROTECTION SHALL BE AVAILABLE AT THE HER CONCRETING BEGINS.

ED BY THE SUPPLIER SHALL AT A MINIMUM REACH THE RESSIVE STRENGTH IN MINIMUM 72 HOURS OR 2000 PSI –

AT PLACEMENT SHALL BE A MINIMUM OF 55 DEGREES

FURE AT THE TIME OF MIXING SHALL NOT BE BELOW 65

E REMOVED PRIOR TO PLACING CONCRETE.

ADEQUATE PROTECTION FOR CONCRETE AGAINST TE TEMPERATURE OF 55 DEGREES FAHRENHEIT FOR A 72 ACEMENT. THIS MAY BE ACHIEVED WITH THE USE OF USE OF TEMPORARY HEATERS.

E OF PLACEMENT OF SLAB OR FOOTINGS SHALL NOT BE T.

MAY BE REMOVED AFTER 72 HOURS .

OF SUB GRADE AND ADEQUATE DRAINAGE AWAY FROM PREVENT FREEZING.

NCRETE WALLS THAT ARE NOT FULL HEIGHT AND FOR MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER FORCEMENT PLACED AS FOLLOWS:

TENSION FACE ROM THE OUTSIDE FACE

OF THE TOP OF THE WALL

WITHIN 12" OF THE TOP OF THE WALL ALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C. BE AS CLOSE TO THE TENSION FACE AS POSSIBLE E VERTICAL REINFORCEMENT (I.E. 2" FROM INSIDE FACE) MENT AT CORNERS – PLACE 1 #4 REBAR 48" LONG AT 45 S OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF RS.

I WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT I BELOW THE TOP OF THE WALL FOR WALL THICKNESS MAXIMUM 24" O.C. TO WITHIN 8" OF THE TOP OF THE WALL.

TALL AND MORE THAN 16-0" LONG SHALL BE PROVIDED /ALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE EN INTERSECTING WALLS (SEE TYPICAL DEAD MAN

#### OMPRESSIVE STRENGTH OF CONCRETE PER TABLE R402.2

|                | MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c)<br>FOR SEVER WEATHERING POTENTIAL |  |  |  |  |
|----------------|--|--|--|--|--|
|                | 2,500  |  |  |  |  |
|                | 2,500  |  |  |  |  |
| (TERIOR<br>ORK | 3,000  |  |  |  |  |
|                | 3,500  |  |  |  |  |
|                | 4,000  |  |  |  |  |

## D. FRAMING/STRUCTURE

D.1 FRAMING NOTES

ALL NON TREATED LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.

ALL TREATED/ROT RESISTANT LUMBER SIZES ARE #2 TREATED SOUTHERN YELLOW PINE, UNLESS OTHERWISE NOTED.

- ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR-LARCH (2) 2X10 ON LOAD BEARING WALLS.
- ALL HEADERS/BEAMS TO BEAR ON A MINIMUM OF (2) 2X4 JACK STUDS UNO. KING STUDS SHALL BE PROVIDED AT ALL HEADERS IN ACCORDANCE WITH IRC TABLE R602.7.5.
- DOUBLE JOIST UNDER PARALLEL INTERIOR NON-LOAD BEARING WALLS.
- CANTILEVERS, OVER BEAMS AND DOOR JAMBS SHALL BE BLOCKED.
- ANY WOOD MEMBER IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN 10'-0" FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED IN IRC TABLE R602.3(5) FOR THE CORRESPONDING STUD SIZE. THOSE STUDS GREATER THAN 10'-0" FEET IN LENGTH SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- ALL WOOD STRUCTUAL PANELS SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATION AND SUPPLEMENTS OF THE APA OR EQUIVALENT. ALL PANEL END JOINTS SHALL OCCUR OVER SUPPORTS AND SHALL BE STAGGERED ONE HALF PANEL LENGTH FROM ADJACENT PANELS. PROVIDE 1/8" INCH SPACE AT PANEL ENDS. WOOD STRUCTURAL PANEL MOISTURE CONTENT SHALL BE LESS THEN OR EQUAL TO 16%.
- ALL STRUCTURAL FRAMING MEMBERS SHALL BE AS FOLLOWS UNO:
  - 2X4 OR 2X6 EXTERIOR WALLS AS PERMITTED BY CODE: DOUGLAS FIR-LARCH #2 (DF-L #2) OR BETTER.
     EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED WITH MIN. 7/16" OSB., UNLESS
  - BRACING IS SHOWN ON PLANS EXTERIOR OSB SHEATHING TO BE FASTENED WITH 8D COMMON NAILS; 6" O. C. AT PANEL EDGES, 12" O. C. IN THE FIELD.
  - 2X4 OR 2X6 INTERIOR LOAD BEARING WALLS DF-L #2 OR BETTER. LOAD BEARING, BRACED, AND SHEAR WALLS, REQUIRE A DOUBLE TOP PLATE. THE TOP
  - PLY BEING FIELD APPLIED WITH A MIN. 24" LAP SPLICE FIELD APPLIED LAP SPLICED TOP PLATE: DF-L #2 OR BETTER
  - LOAD BEARING HEADERS PER HEADER SCHEDULE OR AS SHOWN ON FRAMING PLANS. LOAD BEARING HEADERS TO BE FABRICATED WITH THE HEADER AT THE UNDER SIDE OF THE TOP PLATE WITH CRIPPLE FRAMING BELOW AS NEEDED UNO.
  - INTERIOR NON LOAD BEARING WALLS: DF-L #2 STUD GRADE OR BETTER DOUBLE TOP PLATE IS NOT REQUIRED FOR INTERIOR NON LOAD BEARING WALLS
  - HEADER CRIPPLE SPACING CAN BE 24" O. C. REGARDLESS OF WALL STUD SPACING FOR
  - NON LOAD BEARING WALLS CRIPPLE FRAMING NOT REQUIRED ABOVE OR BELOW OPENINGS WHERE THE VERTICAL CLEAR HEIGHT IS 22" OR LESS FOR NON-LOAD BEARING WALLS.
- ALL LUMBER IN CONTACT WITH MASONRY OR OTHERWISE EXPOSED TO WEATHERING TO BE PRESSURE TREATED (PT).
   FIELD APPLIED SILL PLATE: TREATED LUMBER
  - BOTTOM (SOLE) PLATE IN CONTACT WITH MASONRY: TREATED LUMBER
- ALL PRESSURE TREATED WOOD SHALL BE PRESSURE TREATED WITH WATER-BORNE PRESERVATIVES. PRESSURE TREATMENT SHALL COMPLY WITH THE REQUIREMENTS OF AWPB, C2, LP-22, AND IRC SECTION R317. ALL LUMBER < 8" ABOVE THE FINISHED GRADE SHALL BE PRESSURE TREATED.
- FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESSURE TREATED WOOD SHALL BE HOT-DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. COATING TYPES AND WEIGHTS FOR CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS, A MIN. OF ASTM A653 TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. FOR EXCEPTIONS. REFER TO R317.3.1.

#### ENGINEERED LUMBER MIIMUM DESIGN REQUIREMENTS

|                   | F₀ (PSI) | E (PSI)             | F <sub>v</sub> (PSI) |  |  |
|-------------------|----------|---------------------|----------------------|--|--|
| LVL               | 3100     | 1.9X10 <sup>6</sup> | 285                  |  |  |
| DOUGLAS FIR-LARCH | 900      | 1.6X10 <sup>6</sup> | 180                  |  |  |
| GLU-LAM           | 2400     | 1.8X10 <sup>6</sup> | 230                  |  |  |

#### D.2 STRUCTURAL STEEL

- STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- STEEL PIPE COLUMNS SHALL BE A MINIMUM OF SCHEDULE 40.
- STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS:
- HOLLOW STRUCTURAL SECTIONS:
   CHANNELS, PLATES, ANGLES, AND COLUMNS:
- WIDE FLANGES:
- STEEL PIPE COLUMN
  ANCHOR RODS:

BOLTS SHALL CONFORM TO ASTM A307

WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION, WELDING SHALL BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATIONS (WPS) AS REQUIRED IN AWS D1.1. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.

ASTM A500 ( $F_Y = 46$  KSI)

ASTM A36 ( $F_Y$  = 36 KSI)

ASTM A992 (F<sub>Y</sub> = 50 KSI)

ASTM F1554 (F<sub>Y</sub> = 36 KSI)

ASTM A53 GR.B ( $F_Y$  = 35 KSI)

- WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OF 3/16" SIZE UNLESS NOTED OTHERWISE.
- ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

#### E. <u>GLAZING</u>

GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS.

- GLASS IN STORM DOORS: INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE FLOOR.
- GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF THE STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60 IN HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED A HAZARDOUS LOCATION.
- GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS, AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH IRC R312.2.

#### F. <u>STAIRWAYS</u>

STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.

REQUIRED GUARD RAILS AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, PORCHES, BALCONIES, OR LANDINGS, SHALL NOT BE LESS THAN 36" HIGH MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE.

- EXCEPTION (1): GUARD RAILS ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT NOT LESS THAN 34" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.
- EXCEPTION (2): WHERE THE TOP OF THE GUARD ALSO SERVES AS A HANDRAIL ON THE OPEN SIDES OF STAIRS, THE TOP OF THE GUARD SHALL NOT BE LESS THAN 34" AND NOT MORE THAN 38" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.

GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.

EACH STAIRWAY OF FOUR OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.

HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2" OR OTHER APPROVED GRASPABLE SHAPE PER IRC R311.7.8.5.

MINIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS.

ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE PER IRC R302.7.

#### **GARAGES**

G.

THE GARAGE FLOOR SHALL SLOPE 1/8" PER 12" TO DRAIN OR VEHICLE ENTRY DOORWAYS.

DOORS BETWEEN THE GARAGE AND THE DWELLING TO BE: SELF CLOSING, MINIMUM 1-3/8" SOLID CORE OR HONEYCOMBED STEEL DOOR, AND AT LEAST 20 MINUTE FIRE RATED.

THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY A MINIMUM 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE.

THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 1/2" GYPSUM BOARD OR EQUIVALENT.

WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM 5/8" TYPE "X" GYPSUM BOARD ON THE GARAGE CEILING.

GARAGE DOOR AND FRAME – THE "H" FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2X6 VERTICAL JAMBS RUNNING FROM THE FLOOR TO CEILINGS, ATTACHED WITH 1-3/4" X 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4" X 0.120" NAILS THROUGH THE JAMB INTO THE HEADER, 2X8 HEADER (MINIMUM) FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115 MPH WIND LOAD REQUIREMENT OF DASMA 108 AND ASTM E330-96 (IRC R301.2.1).

#### ROOF

•

1.2

THE ROOF IS DESIGNED FOR 20 PSF GROUND SNOW LOAD (MINIMUM).

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.

ROOF IS ENGINEERED TO COMPLY WITH IRC R802.

ROOF TO BE ASPHALT SHINGLES UNO AND SHALL COMPLY WITH IRC 2018 SECT. R905.2

MINIMUM ROOF SLOPE FOR ASPHALT SHINGLES SHALL BE 2:12.

ROOF SLOPES IN BETWEEN 2:12 AND 4:12 SHALL REQUIRE DOUBLE UNDERLAYMENT IN ACCORDANCE WITH IRC 2018 SECTION R905.2.2:

"APPLY A 19-INCH (483MM) STRIP OF UNDERLAYMENT FELT PARALLEL TO AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36-INCH-WIDE (914 MM) SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 19 INCHES (483MM), AND FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE 4-INCH (102MM) AND SHALL BE OFFSET BY 6 FEET (1829 MM). DISTORTIONS IN THE UNDERLAYMENT SHALL NOT INTERFERE WITH THE ABILITY OF THE SHINGLES TO SEAL."

#### SAFETY REQUIREMENTS

#### I.1 EMERGENCY EGRESS AND RESCUE

PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQ. FT. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 20".

SMOKE AND CARBON MONOXIDE SAFETY (PER IRC R314)

BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.

PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS.

SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.

CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER IRC R315.

#### ENERGY REQUIREMENTS

 (THE FOLLOIWNG SHALL APPLY UNLESS "ECA" SHEETS HAVE BEEN INCLUDED IN THE PLAN SET)
 LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.5.

PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER IRC N1103.1.1.

AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER IRC N1103.3.2.1. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.

HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER IRC N1103.4.

ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC M1504.3.

MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER IRC M1503.6.

AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER IRC M1601.6 ENERGY CONSERVATION.

## ABBREVIATIONS

Κ.

| CMU<br>CXN<br>CONT<br>DBL<br>DIA<br>EW<br>EFF<br>EL<br>EC<br>EOR | CONCRETE MASONRY UNIT<br>CONNECTION<br>CONTINUOUS<br>DOUBLE<br>DIAMETER<br>EACH WAY<br>EFFECTIVE<br>ELEVATION<br>END CONDITION<br>ENGINEER OF RECORD |        | EX<br>FV<br>FF<br>FJG<br>FND<br>HDRZ<br>MIN<br>NTS<br>OC<br>PED<br>PLF<br>PSI<br>PSI<br>PSI<br>PSI<br>STL | EXISTING<br>FIELD VERIFY<br>FINISHED FLOOR<br>FLOOR JOIST<br>FOOTING<br>FOUNDATION<br>HEADER<br>HORIZONTAL<br>MAXIMUM<br>MINIMUM<br>NOT TO SCALE<br>ON CENTER<br>PEDESTAL<br>POUNDS PER CUBIC FOOT<br>POUNDS PER CUBIC FOOT<br>POUNDS PER SQUARE FOOT<br>POUNDS PER SQUARE FOOT<br>POUNDS PER SQUARE FOOT<br>POUNDS PER SQUARE INCH<br>PRESSURE TREATED<br>RAFTER<br>STRUCTURAL INSULATED PANEL<br>STEEL |
|--|--|--------|---|--|
| EOR<br>EQ<br>EQUIV   | ENGINEER OF RECORD<br>EQUAL<br>EQUIVALENT  | •<br>• | STL<br>TYP<br>UNO   | STEEL<br>TYPICAL<br>UNLESS NOTED OTHERWISE   |
|  |  | •      |   |  |





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# ITAL HOMES ON - CONTEMPORAL

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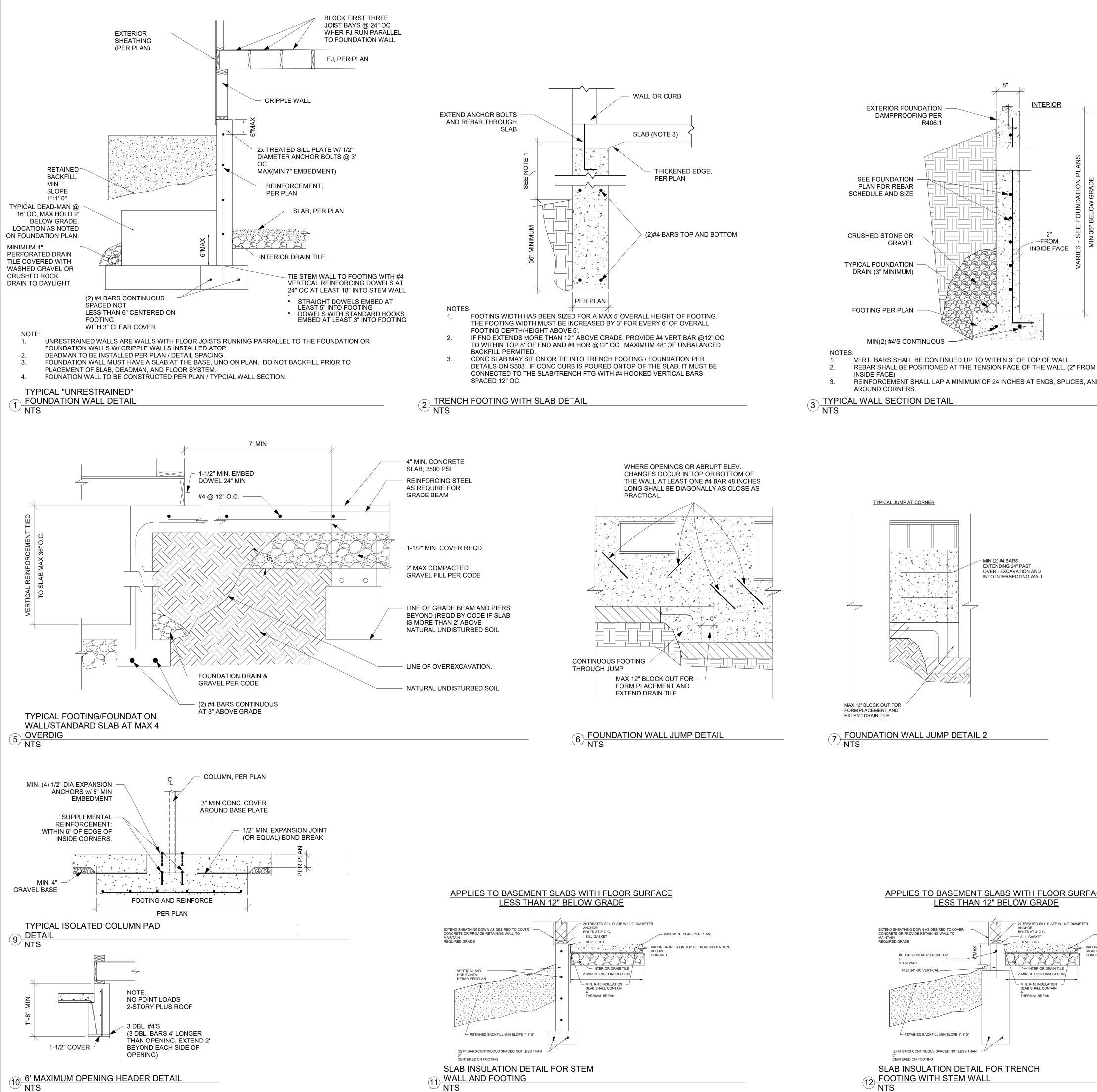
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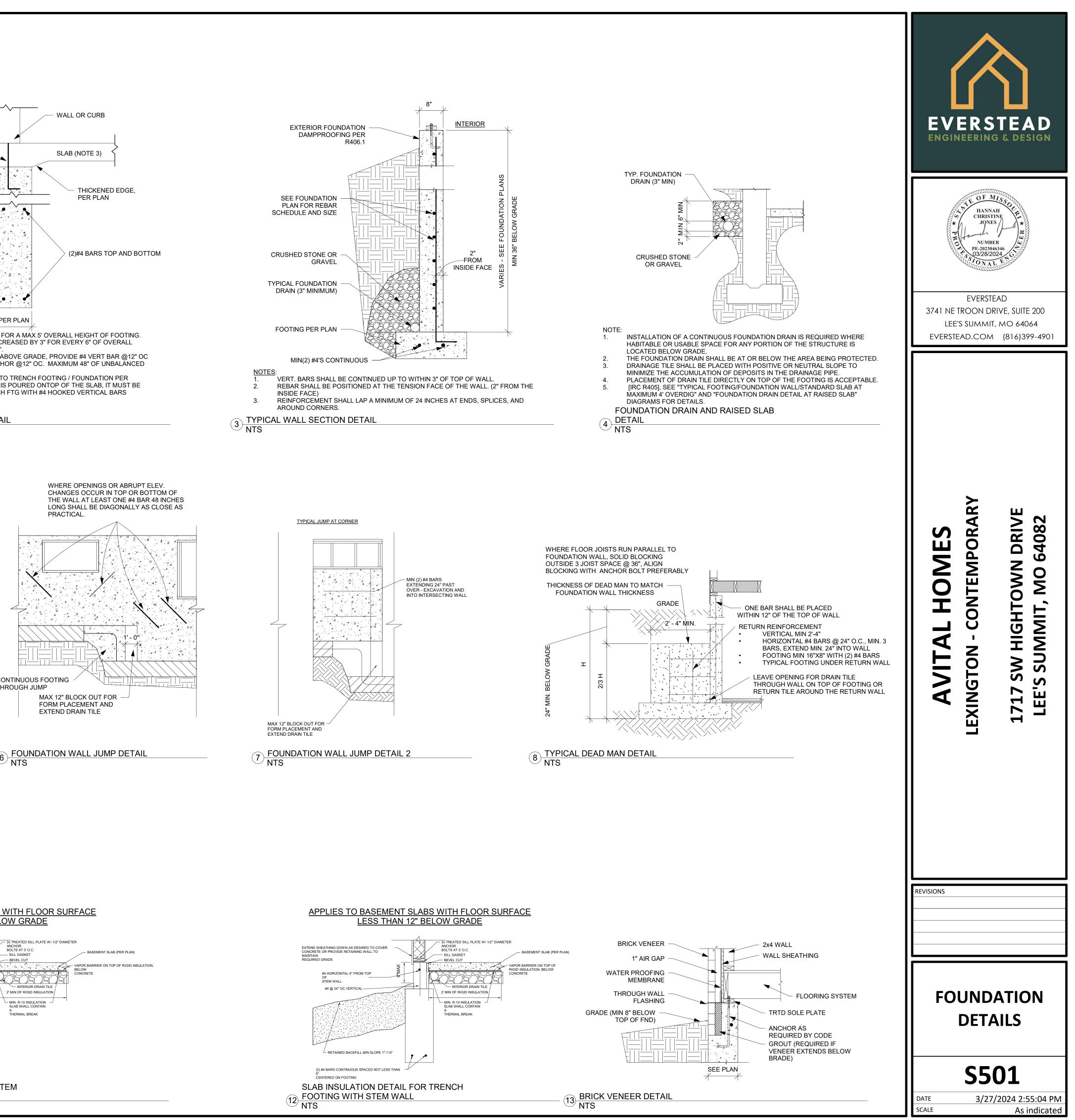
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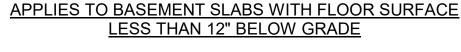
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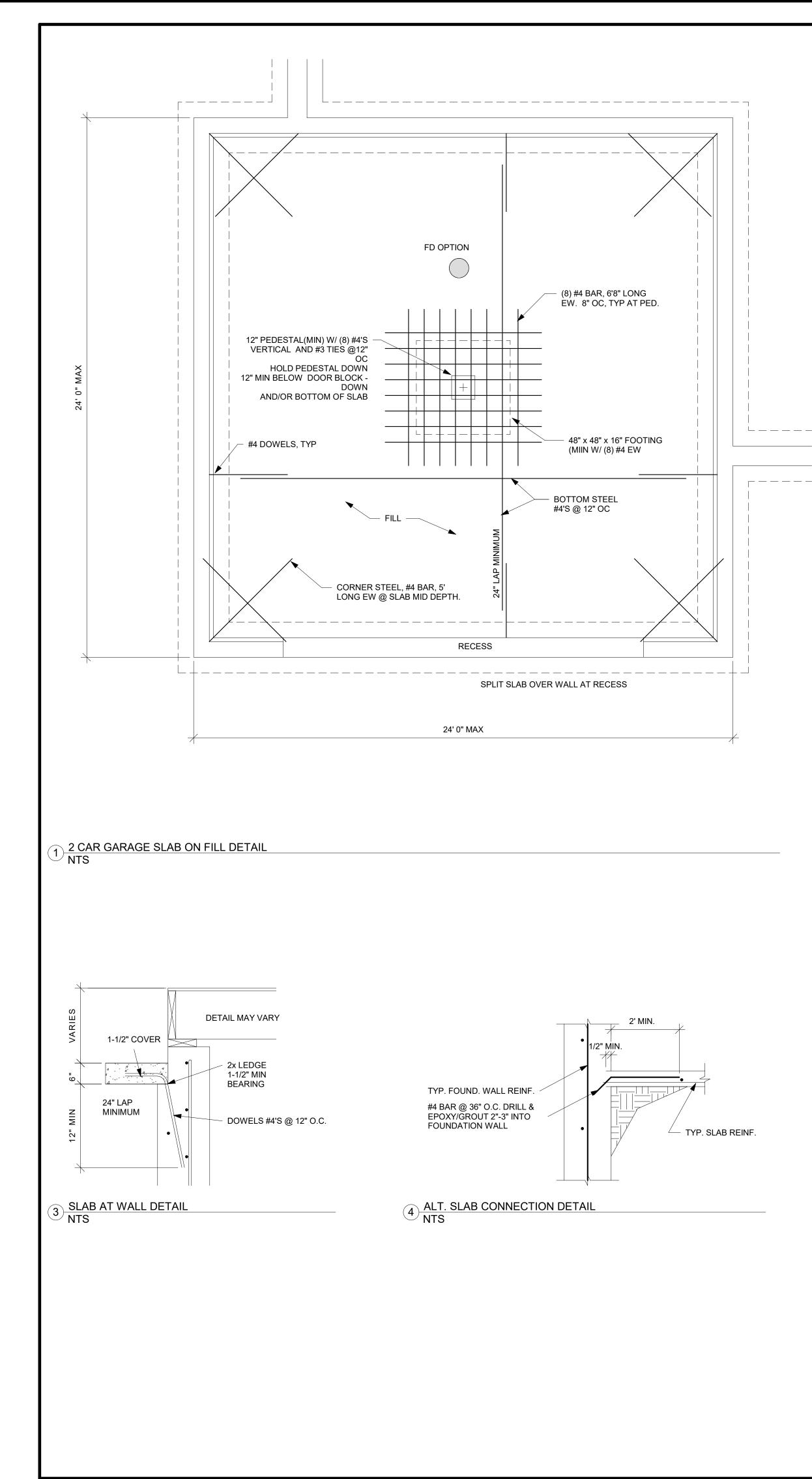
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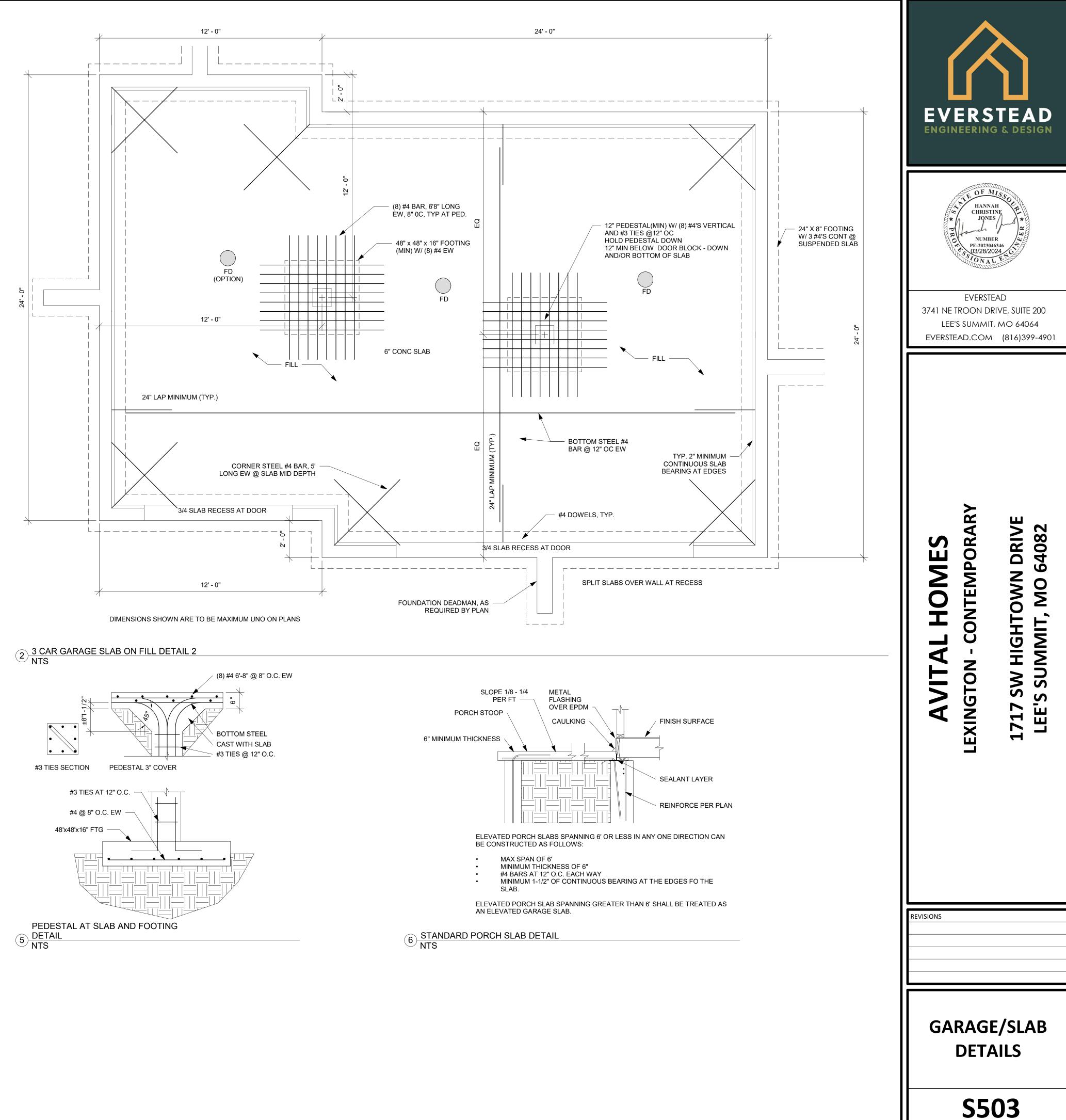
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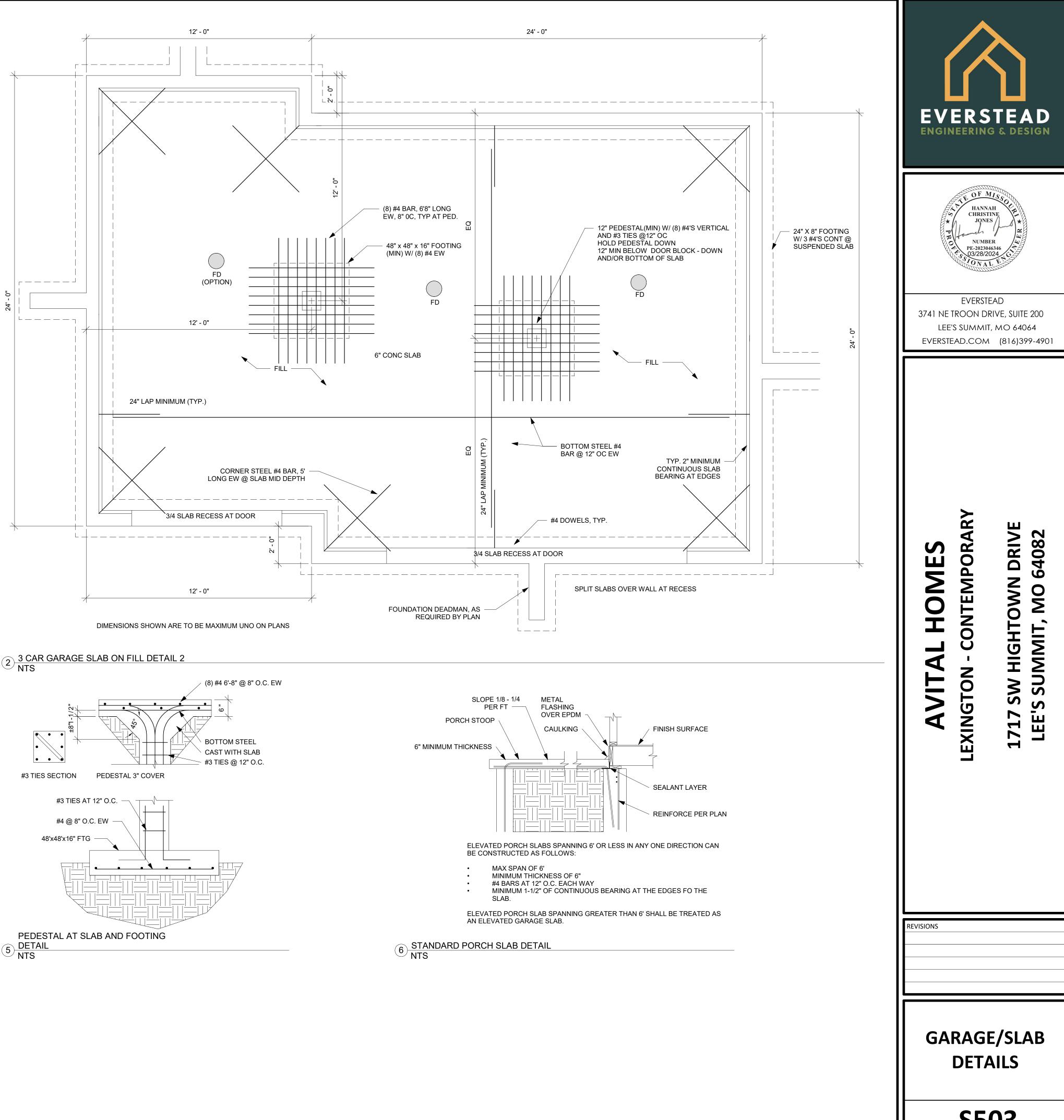








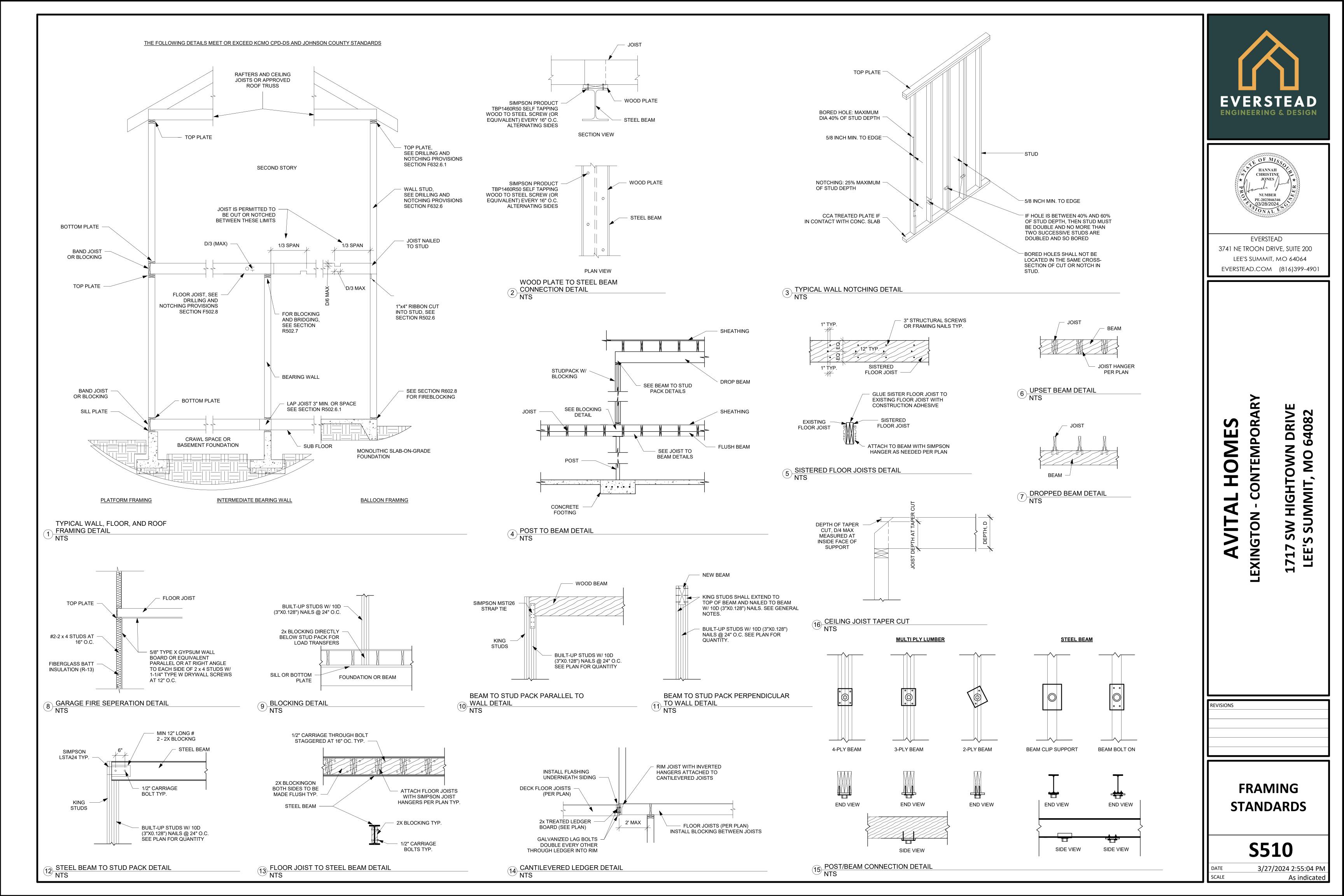


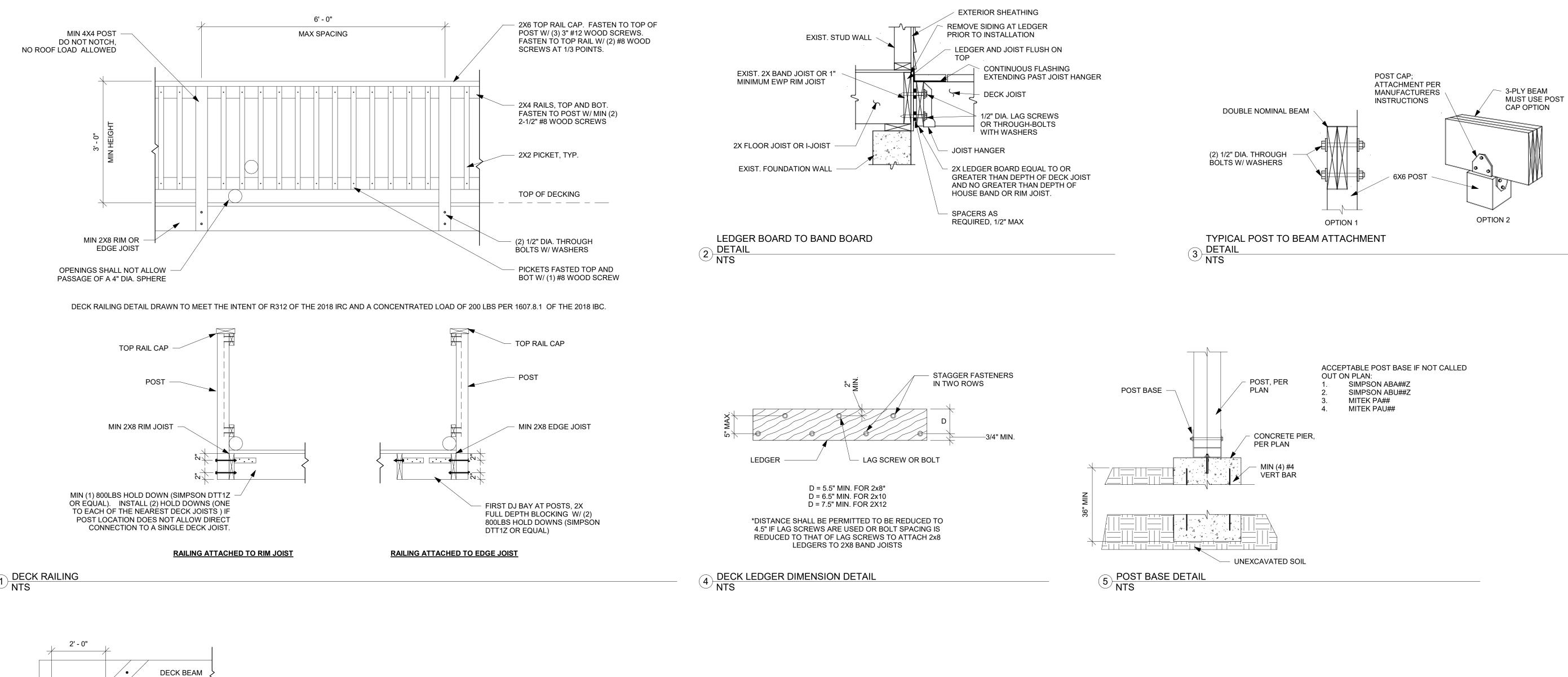


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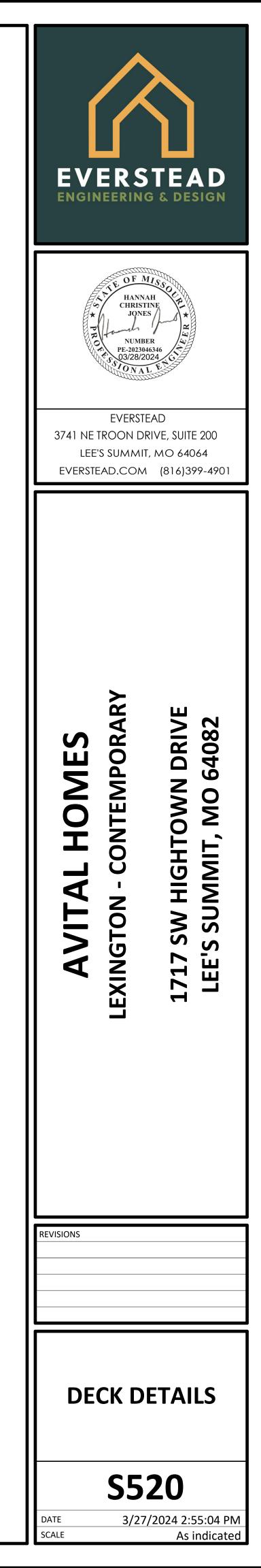
2X6 KNEE BRACE, MIN

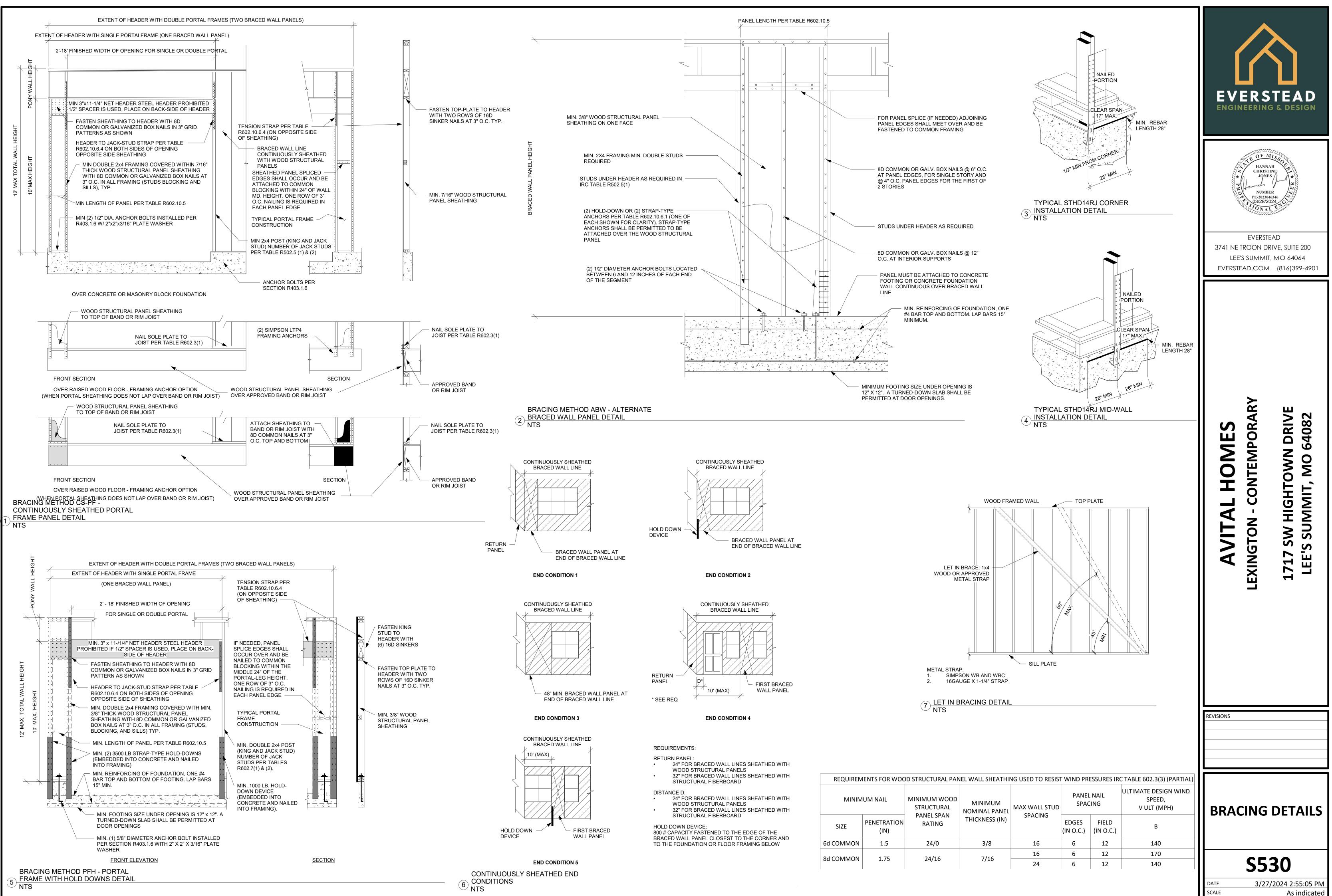
- 1/2" LAG SCEW W/

WASHER, TYP.

| TABLE R507/2 FASTENER SPACING F   | FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK<br>40PSF,<br>DECK DEAD LOAD = 10 PSF) |           |            |                   |             |             |
|---|---|-----------|------------|-------------------|-------------|-------------|
| JOIST SPAN  | 6' AND LESS   | 6'1 TO 8' | 8'1 TO 10' | 10'1 TO 12'       | 12'1 TO 14' | 14'1 TO 16' |
| CONNECTION DETAILS  |   |           | ON CENT    | FER SPACING OF FA | STENERS     |             |
| 1/2" DIAMETER LAG SCREW WITH<br>15/32" MAX SHEATHING                        | 30  | 23        | 18         | 15                | 13          | 11          |
| 1/2" DIAMETER BOLT WITH 15/32"<br>MAX SHEATHING                             | 36  | 36        | 34         | 29                | 24          | 21          |
| 1/2" DIAMETER BOLT WITH 15/32"<br>MAX SHEATHING AND 1/2" STACKED<br>WASHERS | 36  | 36        | 29         | 24                | 21          | 18          |

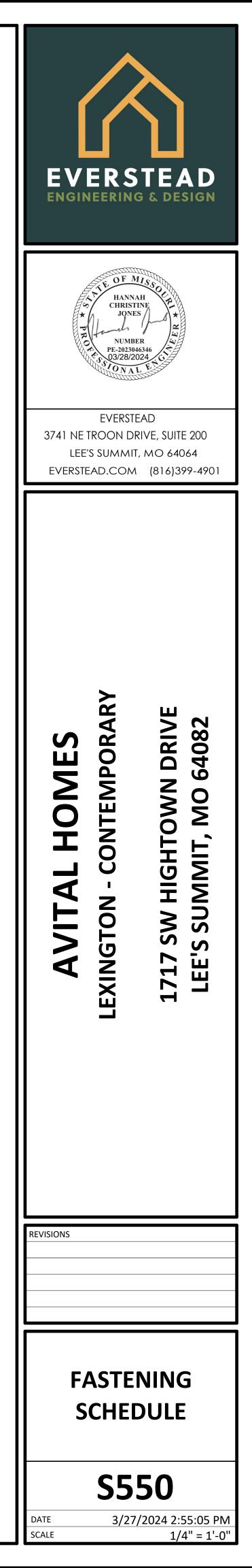






|   | MINIMUM  | CONNECTION CRITERIA   |  |  |  |
|---|--|---|--|--|--|
| METHODS, MATERIAL   | THICKNESS  | FASTENERS   | SPACING  |  |  |
| WSP - WOOD STRUCTURAL PANEL AND<br>CS-WSP CONTINUOUSLY SHEATHED | 3/8" PANEL W/ MINIMUM 24/0<br>STRUCTURAL PANEL SPAN RATING   | 6d COMMON NAILS (2.0" x .113") W/<br>MINIMUM 1.5" PENETRATION   | 6" EDGES, 12<br>FIELD  |  |  |
| WOOD STRUCTURAL PANEL   | 7/16" PANEL W/ MINIMUM 24/16<br>STRUCTURAL PANEL SPAN RATING | 8d COMMON NAILS (2.5" x .131") W/<br>MINIMUM 1.75" PENETRATION  | 6" EDGES, 12'<br>FIELD   |  |  |
| PFH - PORTAL<br>FRAME WITH HOLD-DOWNS                           | 3/8"   | MINIMUM       FASTENERS         FICKNESS       FASTENERS         EL W/ MINIMUM 24/0<br>PANEL SPAN RATING       6d COMMON NAILS (2.0" x .113") W/<br>MINIMUM 1.5" PENETRATION         SEL W/ MINIMUM 24/16<br>PANEL SPAN RATING       8d COMMON NAILS (2.5" x .131") W/<br>MINIMUM 1.75" PENETRATION         3/8"       SEE DETAIL ON THIS PAGE         3/8"       SEE IRC SECTION R602.10.6.3         WOOD: 2-8d COMMON NAILS OR<br>3-8d (2-1/2" LONG x .113" DIA.) NAILS<br>RAPPROVED METAL<br>T 45 TO 60 DEGREE<br>MAX 16" STUD SPACING       SIMPSON WB/WBC INSTALLED IN "X"<br>PAIRS OR IN OPPOSING "V" FASHION<br>AND FASTENED W/ (2) 16d COMMON<br>NAILS FOR PLATE AND (1) 8d<br>COMMON NAIL FOR STUDS         1/2" INTERIOR SHEATHING W/ STUDS<br>AT 16" O.C.: 13 GAGE, 1-3/8" LONG,<br>19/64" HEAD; .098" DIA., 1-1/4" LONG,<br>ANNULAR-RINGED; 5d COOLER<br>NAIL, .086" DIA., 1-5/8" LONG, 15/64"<br>HEAD; OR GYPSUM BOARD NAIL, .086"<br>DIA. 1-5/8" LONG, 9/32" HEAD PER<br>TABLE R702.3.5 (SEE TABLE FOR<br>OTHER PANEL THICKNESS OPTIONS)         1/2"       EXTERIOR 1/2" SHEATHING: 1-1/2"<br>GALVANIZED ROOFING NAIL; STAPLE<br>R602.3(1) | SEE DETAIL C<br>THIS PAGE  |  |  |
| PFG - PORTAL FRAME AT GARAGE                                    | 3/8"   | SEE IRC SECTION R602.10.6.3   | SEE IRC SECTIO<br>R602.10.6.3  |  |  |
| LIB<br>LET-IN-BRACING   | 1x4 WOOD OR APPROVED METAL                                   |   | WOOD: PER STO<br>AND TOP AND<br>BOTTOM PLATE   |  |  |
|   | STRAPS AT 45 TO 60 DEGREE<br>ANGLES FOR MAX 16" STUD SPACING | PAIRS OR IN OPPOSING "V" FASHION<br>AND FASTENED W/ (2) 16d COMMON<br>NAILS FOR PLATE AND (1) 8d  | METAL: PER ST<br>AND TOP AND<br>BOTTOM PLATE   |  |  |
|   |  | 19/64" HEAD; .098" DIA., 1-1/4" LONG,<br>ANNULAR-RINGED; 5d COOLER<br>NAIL, .086" DIA., 1-5/8" LONG, 15/64"<br>HEAD; OR GYPSUM BOARD NAIL, .086"<br>DIA. 1-5/8" LONG, 9/32" HEAD PER<br>TABLE R702.3.5 (SEE TABLE FOR   | FOR ALL BRAC<br>WALL PANEL<br>LOCATIONS:<br>EDGES<br>(INCLUDING TO<br>AND BOTTOM<br>PLATES) 7" FIE |  |  |
| GB-GYPSUM<br>BOARD  | 1/2"   | GALVANIZED ROOFING NAIL; STAPLE<br>GALVANIZED, 1-1/2" LONG; 1-1/4"<br>SCREWS, TYPE W OR S PER TABLE   |  |  |  |
|   |  | EXTERIOR 5/8" SHEATHING: 1-3/4"<br>GALVANIZED ROOFING NAIL; STAPLE<br>GALVANIZED, 1-5/8" LONG; 1-5/8"<br>SCREWS, TYPE W OR S PER TABLE<br>R602.3(1)   |  |  |  |

| DESCRIPTION OF BUILDING<br>MATERIALS                                      | NUMBER AND TYPE OF FASTENER  | SPACING AND LOCATION<br>OF FASTENERS  | DESCRIPTION OF BUILDING<br>MATERIALS                      | NUMBER AND TYPE OF FASTENER   |   | ND LOCATION<br>STENERS                           |  |
|---|--|---|---|---|---|--|--|
|   | ROOF   |   |   | FLOOR   |   |  |  |
| BLOCKING BETWEEN JOISTS<br>OR RAFTERS TO TOP PLATE                        | 4-8d BOX (2-1/2"x0.113") OR<br>3-8d COMMON (2-1/2"x0.131") OR<br>3-10d BOX (3"x0.128") OR<br>3-3"x0.131" NAILS   | TOE NAIL  | JOIST TO SILL, TOP PLATE, OR<br>GIRDER                    | 4-8d BOX (2-1/2"x0.113") OR<br>3-8d COMMON (2-1/2"x0.131") OR<br>3-10d BOX (3"x0.128") OR<br>3-3"x0.131" NAILS                        | TO  | TOE NAIL   |  |
|   | 4-8d BOX (2-1/2"x0.131") OR  |   | RIM JOIST, BAND JOIST OR                                  | 8d BOX (2-1/2"x0.113")  | 4" O.C.   | TOE NAIL   |  |
| CEILING JOISTS TO PLATE   | 3-8d COMMON (2-1/2"x0.131") OR<br>3-10 BOX (3"x0.128") OR<br>3-3"x0.131" NAILS   | TOE NAIL  | BLOCKING TO SILL OR TOP PLATE<br>(ROOF APPLICATIONS ALSO) | 8d COMMON (2-1/2"x0.131") OR<br>10d BOX (3"x0.128") OR<br>3"x0.131" NAIL  | 6" O.C. TOE NAIL  |  |  |
| CEILING JOISTS NOT ATTACHED<br>TO PARALLEL RAFTER LAPS OVER<br>PARTITIONS | 4-10d BOX (3"x0.128") OR<br>3-16d COMMON (3-1/2"x0.162") OR<br>4-3"x0.131" NAILS   | FACE NAIL   | 1"x6" SUBFLOOR OR LESS TO<br>EACH JOIST                   | 3-8d BOX (2-1/2"x0.113") OR<br>2-8d COMMON (2-1/2"x0.131") OR<br>3-10d BOX (3"x0.128") OR<br>2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG | FAC   | FACE NAIL  |  |
| COLLAR TIE TO RAFTER,<br>FACE NAIL<br>OR 1-1/4"x20 GAGE<br>RIDGE STRAP    | 4-10d BOX (3"x0.128") OR<br>3-10d COMMON (3"x0.148") OR<br>4-3"x0.131" NAILS   | FACE NAIL EACH RAFTER   | 2" SUBFLOOR TO JOIST OR<br>GIRDER                         | 3-16d BOX (3-1/2"x0.135") OR<br>2-16d COMMON (3-1/2"x0.162")  | BLIND AN  | BLIND AND FACE NAIL                              |  |
| RAFTER OR ROOF<br>TRUSS TO<br>TOP PLATE, TOE NAIL                         | 4-16d BOX (3-1/2"x0.135") OR<br>3-10d COMMON (3"x0.148") OR<br>4-10d BOX (3"x0.128") OR<br>4-3"x0.131" NAILS   | 2 TOE NAILS ON ONE SIDE<br>AND 1 TOE NAIL ON<br>OPPOSITE SIDE OF EACH<br>RAFTER OR TRUSS            | 2" PLANKS (PLANK & BEAM-FLOOR & ROOF)                     | 3-16d BOX (3-1/2"x0.135") OR<br>2-16d COMMON (3-1/2"x0.162")  | AT EACH BEA   | RING FACE NAIL                                   |  |
| ROOF RAFTERS TO<br>RIDGE, VALLEY  | 4-16d BOX (3-1/2"x0.135") OR<br>3-10d COMMON (3"x0.148") OR<br>4-10d BOX (3"x0.128") OR<br>4-3"x0.131" NAILS   | TOE NAIL  | BAND OR RIM JOIST TO JOIST                                | 3-16d COMMON (3-1/2"x0.162") OR<br>4-10d BOX (3"x0.128") OR<br>4-3"x0.131" NAILS OR<br>4 3"x14 GA. STAPLES, 7/16" CROWN               | ENI   | ) NAIL   |  |
| OR HIP RAFTERS  | 3-16d BOX (3-1/2"x0.135") OR<br>2-16d COMMON (3-1/2"x0.162") OR<br>3-10d BOX (3"x0.128") OR<br>3-3"x0.131" NAILS   | END NAIL  |   | 20d COMMON (3"x0.128")  | O.C AT TOP ENI  | ER AS FOLLOWS: 32<br>D AND BOTTOM AND<br>GGERED. |  |
|   | WALL   |   | BUILT-UP GIRDERS AND BEAMS, 2"<br>LUMBER LAYERS           | 10d BOX (3"x0.128") OR  |   | NAIL AT TOP AND                                  |  |
|   | 16d COMMON (3-1/2"x0.162")   | 24" O.C. FACE NAIL  | Lowbert Errento   | 3"x0.131" NAIL  |   | SIDES  |  |
| STUD TO STUD (NOT<br>AT BRACED WALL<br>PANELS)                            | 10d BOX (3"x0.128") OR<br>3"x0.131" NAIL   | 16" O.C. FACE NAIL  |   | AND:<br>2-20d COMMON (4"x0.192") OR<br>3-10d BOX (3"x0.128") OR<br>3-3"x0.131" NAILS  |   | ENDS AND AT EACH<br>PLICE                        |  |
| STUD TO STUD AND ABUTTING<br>STUDS AT                                     | 16d BOX (3-1/2"x0.135") OR<br>3"x0.131" NAIL   | 12" O.C. FACE NAIL  |   | 4-16d BOX (3-1/2"x0.135") OR  | AT EACH JOIST OR RAFTER, FACE<br>NAIL<br>EACH END, TOE NAIL |  |  |
| INTERSECTION WALL CORNERS<br>(AT BRACED WALL PANELS)                      | 16d COMMON (3-1/2"x0.162")   | 16" O.C. FACE NAIL  | LEDGER STRIP SUPPORTING<br>JOISTS OR RAFTERS              | 3-16d COMMON (3-1/2"x0.162") OR<br>4-10d BOX (3"x0.128") OR<br>4-3"x0.131" NAILS  |   |  |  |
| BUILT-UP HEADER, TWO PIECES<br>WITH 1/2" SPACER                           | 16d COMMON (3-1/2"x0.162")   | 16" O.C. EACH EDGE FACE NAIL  | BRIDGING OR BLOCKING TO                                   | 2-10d BOX (3"x0.128") OR<br>2-8d COMMON (2-1/2"x0.131") OR  |   |  |  |
|   | 16d BOX (3-1/2"x0.135")  | 12" O.C. EACH EDGE FACE NAIL  | JOIST   | 2-3"x0.131" NAILS   |   |  |  |
| CONTINUOUS HEADER TO STUD   | 5-8d BOX (2-1/2"x0.113") OR<br>4-8d COMMON (2-1/2"x0.131") OR<br>4-10d BOX (3"x0.128")   | TOE NAIL  | DESCRIPTION OF BUILDING<br>MATERIALS                      | NUMBER AND TYPE OF FASTENER   | EDGES (IN)  | INTERMEDIATE<br>SUPPORTS (IN)                    |  |
| TOP PLATE TO TOP PLATE  | 16d COMMON (3-1/2"x0.162")   | 16" O.C. FACE NAIL  | F   | ELS, SUBFLOOR, ROOF AND INTERIOR WALL SI<br>PARTICLEBOARD WALL SHEATHING TO FRAMIN<br>OOD STRUCTURAL PANEL EXTERIOR WALL SI           | NG  |  |  |
|   | 10d BOX (3"x0.128") OR<br>3"x0.131" NAIL   | 12" O.C. FACE NAIL  | 0/01 //01   | 6d COMMON (2"x0.113") NAIL (SUBFLOOR,<br>WALL) OR   |   | 10   |  |
| DOUBLE TOP PLATE SPLICE   | 8-16d COMMON (3-1/2"x0.162") OR<br>12-16d BOX (3-1/2"x0.135") OR<br>12-10d BOX (3"x0.128") OR<br>12-3"x0.131" NAILS  | FACE NAIL ON EACH SIDE OF<br>END JOINT (MINIMUM 24" LAP<br>SPLICE LENGTH EACH SIDE OF<br>END JOINT) | 3/8" - 1/2"   | 8d COMMON (2-1/2"x0.131") NAILS (ROOF) OR<br>RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  | 6   | 12   |  |
| BOTTOM PLATE TO JOIST, RIM JOIST,   | 16d COMMON (3-1/2"x0.162")   | 16" O.C. FACE NAIL  | 19/32" - 1"   | 19/32" - 1"         8d COMMON NAIL (2-1/2"x0.131") OR<br>RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  | 6   | 12   |  |
| BAND JOIST, OR BLOCKING (NOT<br>BRACED WALL PANELS)                       | -16d BOX (3-1/2"x0.135") OR<br>3"x0.131" NAIL  | 12" O.C. FACE NAIL  |   |   |   |  |  |
| BOTTOM PLATE TO JOIST, RIM JOIST,<br>BAND JOIST, OR BLOCKING (AT          | 3-16d BOX (3-1/2"x0.135") OR<br>2-16d COMMON (3-1/2"x0.162") OR  | 3 EACH 16" O.C. FACE NAIL<br>2 EACH 16" O.C. FACE NAIL  | 1-1/8" - 1-1.4"   | 10d COMMON (3"x0.148") NAIL OR<br>8d (2-1/2"x0.131") DEFORMED NAIL  | 6   | 12   |  |
| BRACED WALL PANELS)   | 4-3"x0.131" NAILS  | 4 EACH 16" O.C. FACE NAIL   |   | OTHER WALL SHEATHING  |   |  |  |
|   | 4-8d BOX (2-1/2"x0.113") OR<br>3-16d BOX (3-1/2"x0.135") OR<br>4-8d COMMON (2-1/2"x0.131") OR<br>4-10d BOX (3"x0.128") OR                                  | TOE NAIL  | 1/2" STRUCTURAL CELLULOSIC<br>FIBERBOARD SHEATHING        | 1-1/2" GALVANIZED ROOFING NAIL, 7/16"<br>HEAD DIAMETER OR<br>1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1"<br>CROWN                      | 3   | 6  |  |
| TOP OR BOTTOM PLATE TO STUD   | 4-3"x0.131" NAILS<br>3-16d BOX (3-1/2"x0.135") OR<br>2-16d COMMON (3-1/2"x0.162") OR   |   | 25/32" STRUCTURAL CELLULOSIC<br>FIBERBOARD SHEATHING      | 1-3/4" GALVANIZED ROOFING NAIL, 7/16"<br>HEAD DIAMETER OR<br>1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1"<br>CROWN                      | 3   | 6  |  |
|   | 3-10d BOX (3"x0.128") OR<br>3-3"x0.131" NAILS<br>3-10d BOX (3"x0.128") OR  | END NAIL  | 1/2" GYPSUM INTERIOR COVERING<br>(R702.3.5)               | 1-1/2" GALVANIZED ROOFING NAIL: STAPLE<br>GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS,<br>TYPE "W" OR "S"                                  | 7   | 7  |  |
| TOP PLATES, LAPS AT CORNERS<br>AND INTERSECTIONS                          | 2-16d COMMON (3-1/2"x0.162") OR<br>3-3"x0.131" NAILS   | FACE NAIL   | 5/8" GYPSUM INTERIOR COVERING<br>(R702.3.5)               | 1-3/4" GALVANIZED ROOFING NAIL: STAPLE<br>GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS,<br>TYPE "W" OR "S"                                  | 7   | 7  |  |
| 1" BRACE TO EACH STUD AND<br>PLATE  | 3-8d BOX (2-1/2"x0.113") OR<br>2-8d COMMON (2-1/2"x0.131") OR<br>2-10d BOX (3"x0.128") OR<br>2 STAPLES 1-3/4"  | FACE NAIL   | WOOD STRUCTURAL   | PANELS, COMBINATION SUBFLOOR UNDERLA  | YMENT TO FRAMIN   | G  |  |
| 1"x6" SHEATHING TO EACH<br>BEARING  | 3-8d BOX (2-1/2"x0.113") OR<br>2-8d COMMON (2-1/2"x0.131") OR<br>2-10d BOX (3"x0.128") OR<br>2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG                      | FACE NAIL   | 3/4" AND LESS   | 6d DEFORMED (2"x0.120") NAIL OR<br>8d COMMON (2-1/2"x0.131") NAIL   | 6   | 12   |  |
|   | 3-8d BOX (2-1/2"x0.113") OR<br>3-8d COMMON (2-1/2"x0.131") OR<br>3-10d BOX (3"x0.128") OR<br>3 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG                      |   | 7/8" - 1"   | 8d COMMON (2-1/2"x0.131") NAIL OR<br>8d DEFORMED (2-1/2"x0.120") NAIL   | 6   | 12   |  |
| 1"x8" AND WIDER SHEATHINGTO<br>EACH BEARING                               | WIDER THAN 1"x8":<br>4-8d BOX (2-1/2"x0.113") OR<br>3-8d COMMON (2-1/2"x0.131") OR<br>3-10d BOX (3"x0.128") OR<br>4 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG | FACE NAIL   | 1-1/8" - 1-1/4"   | 10d COMMON (3"x0.148") NAIL OR<br>8d DEFORMED (2-1/2"x0.120") NAIL  | 6   | 12   |  |
|   | . ,  |   |   |   |   |  |  |



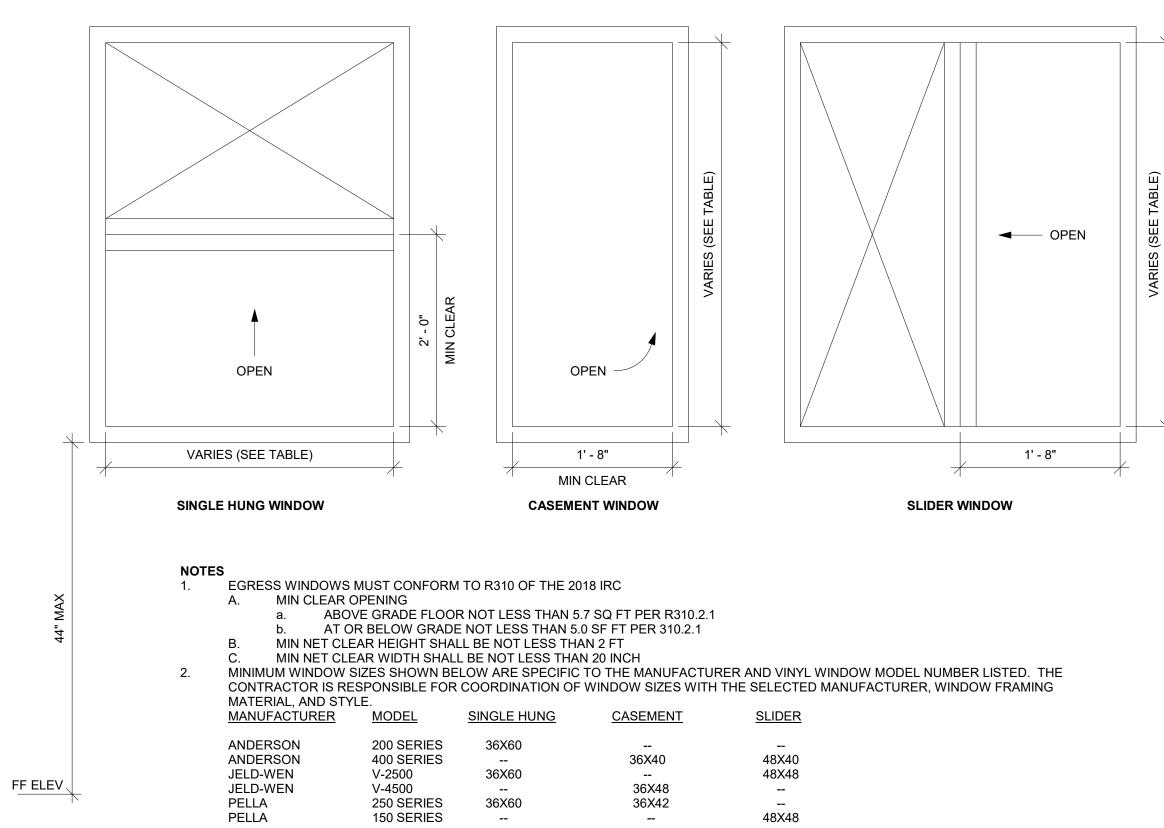
## **GENERAL NOTES**

Α.

- ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE. THE INFORMATION PROVIDED ON THIS PLAN SHEET IS DESIGNED AND REVIEWED IN ACCORDANCE WITH THE IRC.
- CONCRETE WINDOW WELLS SHALL BE MINIMUM 3000 PSI COMPRESSIVE STRENGTH. ASSUMED SOIL MINIMUM BEARING CAPACITY 1500 PSF.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND DIMENSIONS CRITICAL FOR CONSTRUCTION OF NEW WORK.
- MEANS AND METHODS OF CONTRUCTION ARE OUT OF SCOPE OF THE DESIGN PROVIDED. TEMPORARY SUPPORTS SHALL BE INSTALLED BEFORE REMOVAL OF LOAD BEARING STRUCTURES.
- DIMENSIONAL LUMBER SHALL BE MINIMUM DOUGLAS FIR LARCH NO. 2. LVL BEAMS SHALL HAVE MINIMUM 2.0E AND 3100Fb 9.
- STEEL POST COLUMNS SHALL BE MINIMUM SCHEDULE 40, Fy=35KSI. 10. MINIMUM HEADERS 11.

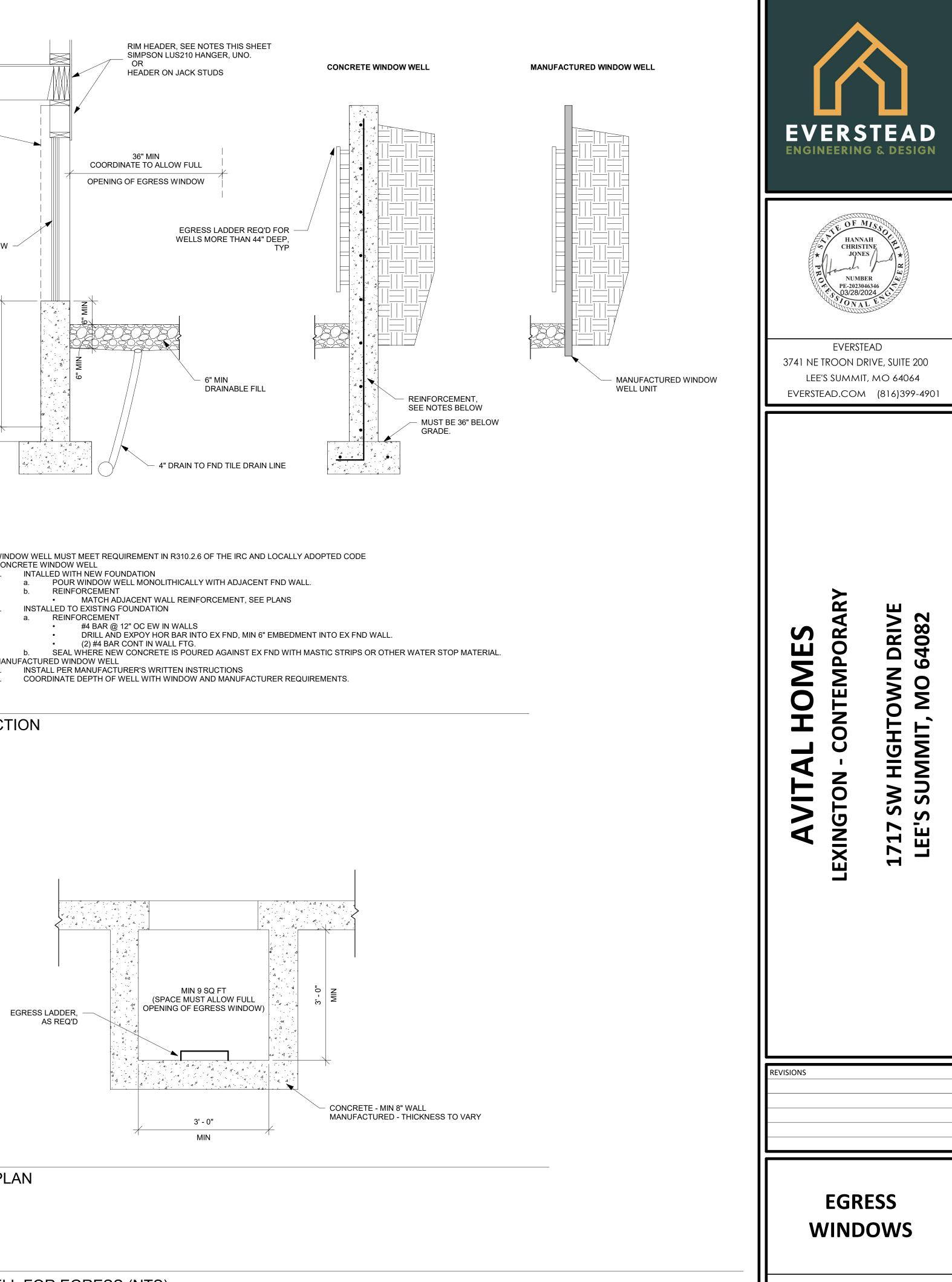
ASSUMES LOADING FOR BUILDING WITH MAXIMIMUM WIDTH OF 36 FT (ROOF WITH 30PSF SNOW LOADS, CEILING, AND TWO FLOORS W/ CENTER BEARING) PER TABLE R602.7(1)

| HEADER             | MAX CLEAR SPAN | MIN JACK STUDS |
|--------------------|----------------|----------------|
| (2) 2X10           | 4'-0"          | 2              |
| (3) 2X10           | 5'-1"          | 2              |
| (2) 2X12           | 4'-9"          | 3              |
| (3) 2X12           | 5'-11"         | 2              |
| (2) 1.75X9.25 LVL  | 7'-6"          | 3              |
| (2) 1.75X11.25 LVL | 9'-3"          | 3              |
|                    |                |                |



WINDOW EGRESS (NTS)

## WINDOW WELL FOR EGRESS (NTS)



**S560** 

DATE SCALE 3/27/2024 2:55:05 PM

As indicated

- A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS В.
- MANUFACTURED WINDOW WELL
- B. INSTALLED TO EXISTING FOUNDATION
- Α.

