



0-CV B	COVER
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G103	UPPER LEVEL PLAN
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BUILDING SQUARE FOOTAGE (SQFT)	
MAIN LEVEL CONDITIONED SPACE TOTAL	833
UPPER LEVEL CONDITIONED SPACE TOTAL	1010
CONDITIONED SPACE TOTAL (SQ FT)	1843
OPT LOWER LEVEL CONDITIONED SPACE TOTAL	718
LOWER LEVEL UNCONDITIONED CRACE TOTAL	700
LOWER LEVEL UNCONDITIONED SPACE TOTAL  GARAGE TOTAL	768 472
PORCHES AND DECKS TOTAL	40
UNCONDITIONED SPACE TOTAL (SQ FT)	1280
OPT LOWER LEVEL UNCONDITIONED SPACE TOTAL	50

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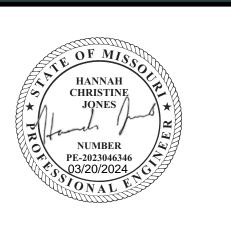
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AN DR 64083

1929 LEES

**COVER** 

REVISIONS

0-CV B

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SCALE As indicated

### **GENERAL PLAN NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.
- MINIMUM DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS. CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED.

ALL DIMENSIONS ARE FROM FACE OF STUD U.N.O.

- 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
- 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 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 ONE JOIST BAY PAST EACH SIDE OF KITCHEN ISLAND
- DOUBLE JOIST UNDER KITCHEN ISLAND AND TUBS 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
- CONSTRUCTED IN CONFORMANCE WITH 2018 IRC R602.10.4 AND R602.10.5
- FOR METHOD CS-WSP STRUCTURAL PANEL SHEATHING SHALL BE INSTALLED ON 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 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" 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

ENGINEERED BRACING 3/8" CS-WSP W/ 8D COMMON NAILS 4"OC AT EDGE

AND 12" OC IN FIELD

**CONSTRUCTION NOTES - NEW CONSTRUCTION** 

THE CENTER OF THE MEMBER.

VERIFIED BY CONTRACTOR.

FACE OF STUD U.N.O.

INCHES

SPECIFICATION.

FRONT OF TOILET.

ALL IDIMENSIONS ARE MEASURED TO THE

ALL STRUCTURAL BEAMS ARE MEASURED TO

NEW DOORS AND WINDOWS ARE TAGGED IN

ALL CRITICAL DIMENSIONS TO BE FIELD

ONLY. SEE STRUCTURAL PLANS FOR

STRUCTURAL BEAMS ARE SHOWN ON ARCHITECTURAL PLANS FOR REFERENCE

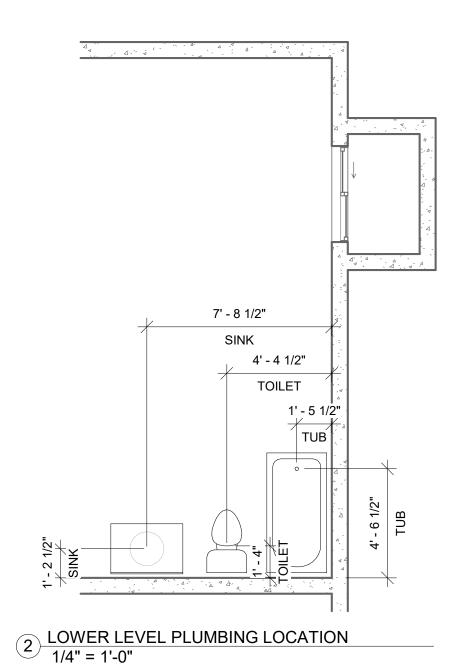
ALL TOILETS TO HAVE 21" CLEARANCE AT

NEW INTERIOR PARTITION

NEW EXTERIOR WALL

ALL TOILETS TO BE INSTALLED WITH A MINIMUM OF 15" O.C. CLEARANCE ON EACH SIDE OF

ALL SINKS TO HAVE 21" CLEARANCE AT FRONT



# LOWER LEVEL WINDOW SCHEDULE Count Type Mark Head Height Type

4'0"/4'0"SL Window-Sliding-Double

5'0"/4'0"SL Window-Sliding-Double

LOWER L	EVEL DOOR	SCHEDULE
Count	Type Mark	Locations

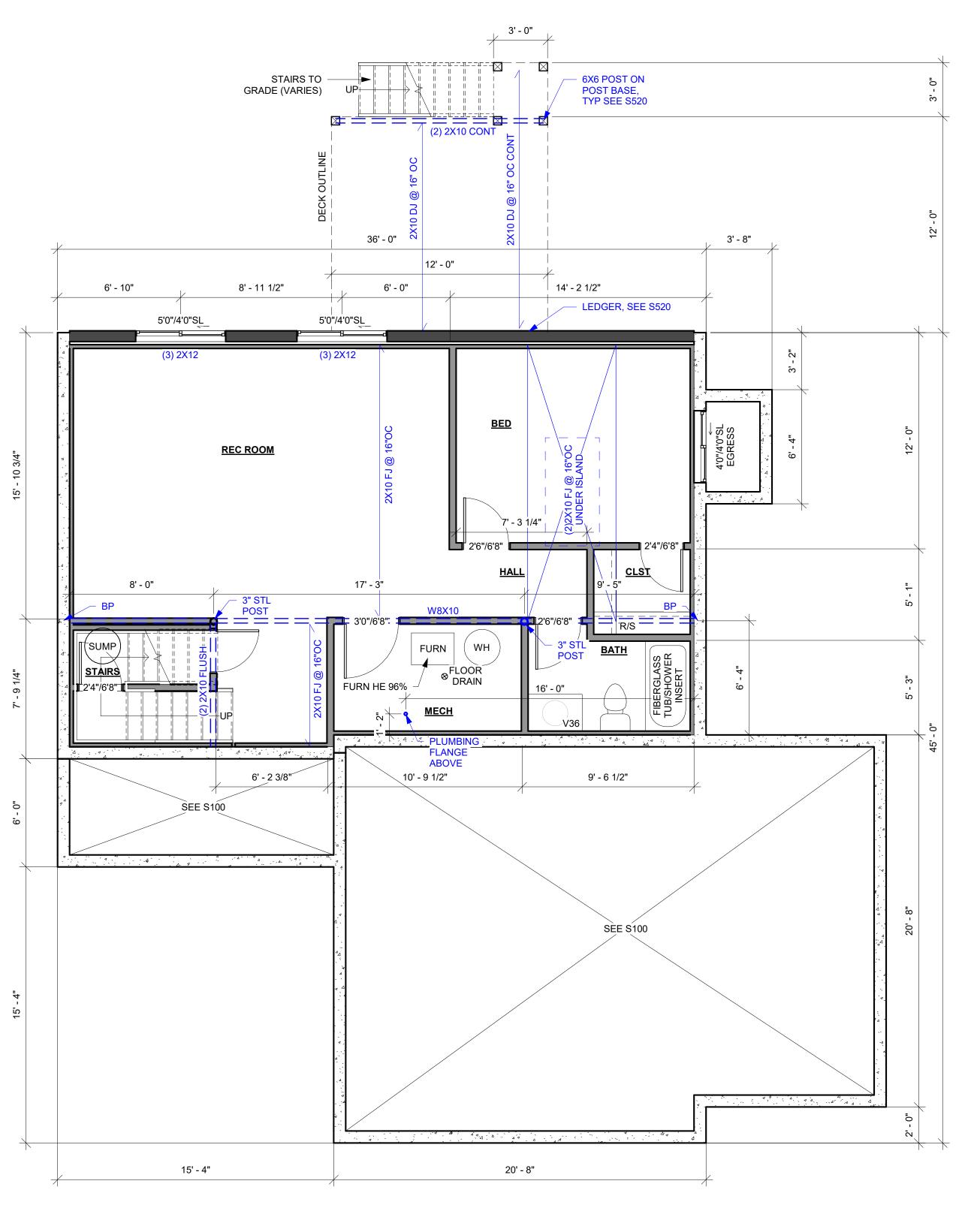
4	2'4"/6'8"	<varies></varies>
2	2'6"/6'8"	<varies></varies>
1	3'0"/6'8"	Mechanical

OF SINK. ALL SHOWERS TO HAVE 24" CLEARANCE AT OPENING.						
ALL LEGEND - NEW CONSTRUCTION						
FOUNDATION WALL						

IR	IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL) AND ENERGY CONSERVATION CODE COMPLIANCE										
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING AND ATTICS R-VALUE	VAULTS R-VALUE	WOOD FRAME WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE	DUCTWORK R-VALUE
EXCEPT MARINE	.32	.55	.40	49	49	20 OR 13+5H	19	10/13	10, 2 FT	10/13	8

7' - 0"

7' - 8"



B - PLAN VIEW - LOWER LEVEL 3 CAR DAYLIGHT FINISHED
1/4" = 1'-0"

> **LOWER LEVEL PLAN**

REVISIONS

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#### **GENERAL PLAN NOTES** ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE 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 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 3' - 0" THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT 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 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 UNCOVERED DECK 36' - 0" 12' - 0" **WALL BRACING NOTES:** 8' - 11 3/4" 8' - 9 3/4" 6' - 2 1/2" 3' - 6" 3' - 6" WALL BRACING IS DESIGNED IN ACCORDANCE WITH IRC R602.10 BRACING METHODS SHALL BE PER PLAN AND SHALL BE CONSTRUCTED IN CONFORMANCE WITH 2018 IRC R602.10.4 AND R602.10.5 FOR METHOD CS-WSP STRUCTURAL PANEL SHEATHING SHALL BE INSTALLED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF THE BRACED WALL LINE EC1 3'0"/5'0"SH 3'0"/5'0"SH 3'0"/5'0"SH 5'0"/5'0"SH 4'0"/3'6"SL EC1 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 (2) 2x10 CONT SINK NAILED TO COMMON FRAMING OR BLOCKING WITH AN SEE DETAIL 2/S103 APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE WITH IRC R602.10.4.4 INTERIOR FINISH OF EXTERIOR WALLS SHALL BE MINIMUM 1/2" GYPSUM BOARD INSTALLED ON THE INTERIOR SIDE. 13' - 4" - PLUMBING **BRACING METHODS FLANGE ABOVE DINING** BRACING CS-PF PER IRC R602.10.6.4 **KITCHEN** 8'-0"CH 8'-0"CH 8'-0"CH LVP BRACING CS-WSP PER IRC R602.10 LVP BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS 3' - 6" 3' - 0" PER IRC R602.10.5.2) CLR 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 9' - 7" PLUMBING FLANGE ABOVE • 69" - 10' TALL WALL HEIGHT (2) 2X43'0"/6'8"CO (2) 1 3/4" X 9 1/4" LVL FLUSH BRACING PFH PER IRC R602.10.6.2 **PANTRY** 3'0"/6'6" FX TEMP STAIRS 8'-0"CH **ENTRY** SILL @ 24" AFF OF 4' - 9 1/2" ENGINEERED BRACING 8'-0"CH HIGHEST LANDING <u>PWDR</u> MUDROOM 3/8" CS-WSP W/ 8D COMMON NAILS 4"OC AT EDGE LVP 8'-0"CH AND 12" OC IN FIELD √8'-0"CH LVT LVP 2X6 FULL HEIGHT STUDS -(4) 12" SHELVES G200 B 3 (3) 2X4 4' - 0 1/2" (2) 2X4 5' - 4 1/2" | 2' - 4 1/2" | 5' - 11" (2) 2X6 FULL (2) 2X6 -(3) 2X6 FULL HEIGHT HÉIGHT STUDS STUDS NAILED TO NAILED TO **HOLD DOWN** HOLD DOWN 6' - 11" W12X22 COLUMN EXT WALL ABOVE MAIN LEVEL WINDOW SCHEDULE **CONSTRUCTION NOTES - NEW CONSTRUCTION** ATTIC Head ALL IDIMENSIONS ARE MEASURED TO THE Type Mark Count ACCESS FACE OF STUD U.N.O. Height Type ALL STRUCTURAL BEAMS ARE MEASURED TO THE CENTER OF THE MEMBER. NEW DOORS AND WINDOWS ARE TAGGED IN 7' - 0" Window-Single-Hung 3'0"/6'6" FX TEMP | Window-Fixed 13' - 4 1/2" (2) 2X14 ALL CRITICAL DIMENSIONS TO BE FIELD VERIFIED BY CONTRACTOR. 4'0"/1'0"FX 7' - 0" Window-Fixed STRUCTURAL BEAMS ARE SHOWN ON (3) 2X4ARCHITECTURAL PLANS FOR REFERENCE 4'0"/3'6"SL Window-Sliding-Double 7' - 0" (2) 2X12 FOR PHF ONLY. SEE STRUCTURAL PLANS FOR 16'0"/7'0"GD SPECIFICATION. EC1 ALL TOILETS TO BE INSTALLED WITH A MINIMUM OF 15" O.C. CLEARANCE ON EACH SIDE OF MAIN LEVEL DOOR SCHEDULE 11' - 11" 3' - 5" 10' - 4" 10' - 4" 5' - 0" 5' - 0" ALL TOILETS TO HAVE 21" CLEARANCE AT 15' - 4" 20<sup>′</sup> - 8" 10<sup>1</sup> - 0" Type Mark Count Locations FRONT OF TOILET. ALL SINKS TO HAVE 21" CLEARANCE AT FRONT OF SINK. 1 B - PLAN VIEW - MAIN LEVEL 3 CAR 2'0"/6'8" Closet ALL SHOWERS TO HAVE 24" CLEARANCE AT 2'4"/6'8" Pantry 2'6"/6'8" Powder 2'8"/6'8"FD Garage Entry 3'0"/6'8"CO Casements WALL LEGEND - NEW CONSTRUCTION 3'0"/6'8"X Front Entry 5'0"/6'8"PATIO Dining Door FOUNDATION WALL 16'0"/7'0"GD Garage Door NEW INTERIOR PARTITION NEW EXTERIOR WALL IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL) AND ENERGY CONSERVATION CODE COMPLIANCE

WOOD FRAME FLOOR BASEMENT SLAB K-VALUE WALL R-VALUE & DEPTH

BASEMENT | SLAB R-VALUE | CRAWL SPACE | DUCTWORK

10, 2 FT

WALL R-VALUE R-VALUE

GLAZED CEILING AND FENESTRATION ATTICS

R-VALUE

SHGC

CLIMATE | FENESTRATION | SKYLIGHT

ZONE

MARINE

U-FACTOR

U-FACTOR

.55

VAULTS

R-VALUE

20 OR 13+5H

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HANNAH

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CHRISTINE

BWL 1

BWL 3

**回** 

DR 083

REVISIONS

**MAIN LEVEL PLAN** 

**G102** 

3/19/2024 4:07:04 PM SCALE As indicated

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AN REVIEW

### **GENERAL PLAN NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.
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- 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 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
- 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
- ONE JOIST BAY PAST EACH SIDE OF KITCHEN ISLAND DOUBLE JOIST UNDER KITCHEN ISLAND AND TUBS
- 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 CONSTRUCTED IN CONFORMANCE WITH 2018 IRC R602.10.4 AND R602.10.5
- FOR METHOD CS-WSP STRUCTURAL PANEL SHEATHING SHALL BE INSTALLED ON 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 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" 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

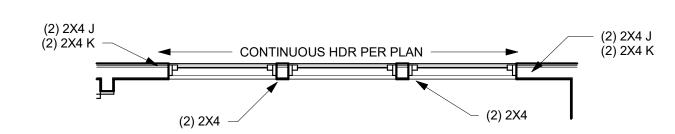
PER IRC R602.10.5.2)

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

ENGINEERED BRACING 3/8" CS-WSP W/ 8D COMMON NAILS 4"OC AT EDGE AND 12" OC IN FIELD





## **CONSTRUCTION NOTES - NEW CONSTRUCTION**

- ALL IDIMENSIONS ARE MEASURED TO THE
- FACE OF STUD U.N.O. ALL STRUCTURAL BEAMS ARE MEASURED TO THE CENTER OF THE MEMBER.
- NEW DOORS AND WINDOWS ARE TAGGED IN INCHES
- ALL CRITICAL DIMENSIONS TO BE FIELD VERIFIED BY CONTRACTOR.
- STRUCTURAL BEAMS ARE SHOWN ON ARCHITECTURAL PLANS FOR REFERENCE ONLY. SEE STRUCTURAL PLANS FOR
- SPECIFICATION. ALL TOILETS TO BE INSTALLED WITH A MINIMUM OF 15" O.C. CLEARANCE ON EACH SIDE OF
- ALL TOILETS TO HAVE 21" CLEARANCE AT FRONT OF TOILET. ALL SINKS TO HAVE 21" CLEARANCE AT FRONT
- OF SINK. ALL SHOWERS TO HAVE 24" CLEARANCE AT OPENING.
- **WALL LEGEND NEW CONSTRUCTION** FOUNDATION WALL

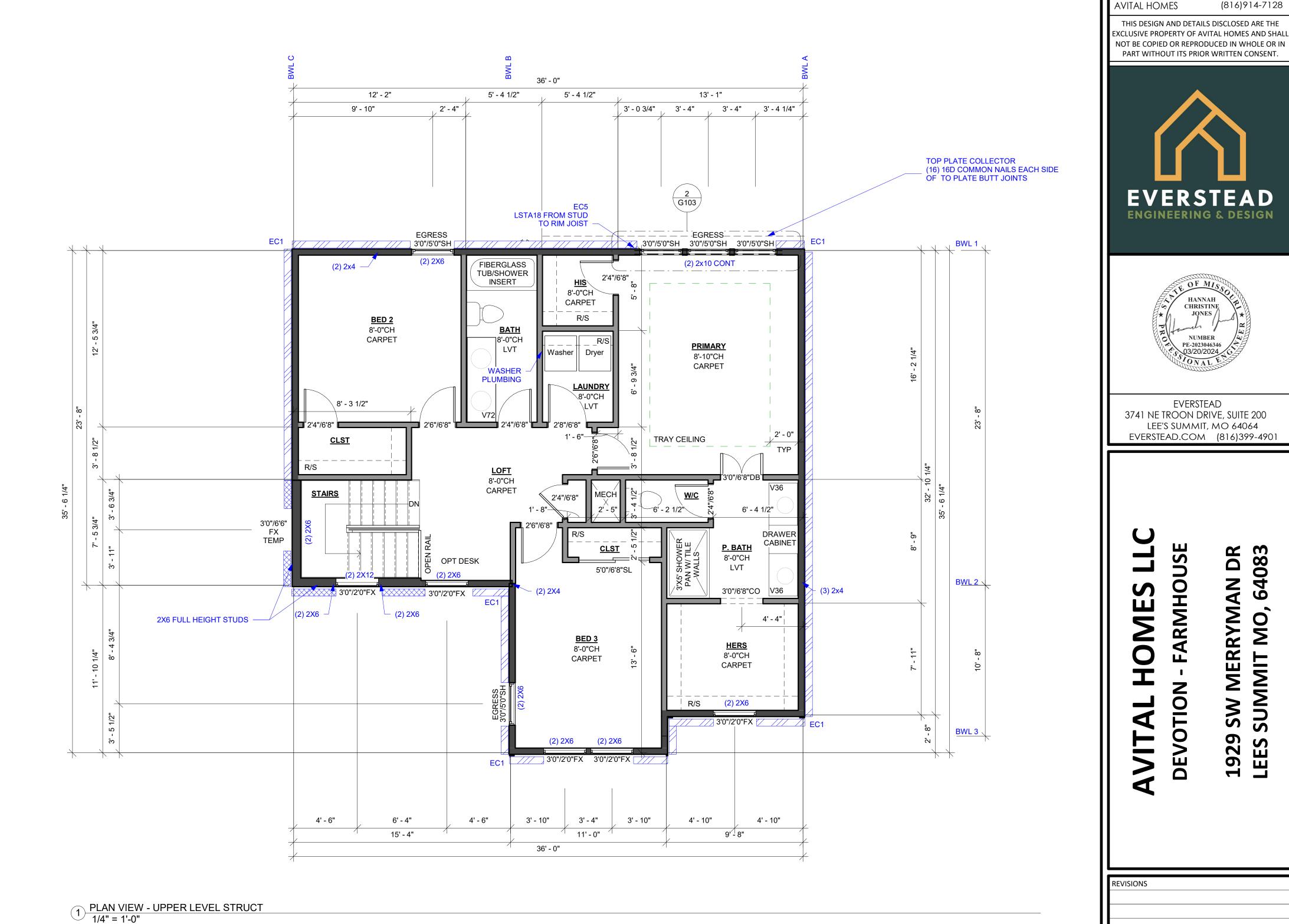


**NEW INTERIOR PARTITION** 

UPPER LEVEL WINDOW SCHEDULE								
Count Type Mark Type Height								
5	3'0"/2'0"FX	Window-Fixed	7' - 0"					
5	3'0"/5'0"SH	Window-Single-Hung	7' - 0"					

UPPER LEVEL DOOR SCHEDULE						
Count Type Mark Locations						
5	2'4"/6'8"	<varies></varies>				
3	2'6"/6'8"	Bedrooms				
1	2'8"/6'8"	Laundry				
1	3'0"/6'8"CO	Casements				
1	3'0"/6'8"DB	P.Bath				
1	5'0"/6'8"SL	Closet				

IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL) AND ENERGY CONSERVATION CODE COMPLIANCE											
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING AND ATTICS R-VALUE	VAULTS R-VALUE	WOOD FRAME WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE	DUCTWORK R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	49	20 OR 13+5H	19	10/13	10, 2 FT	10/13	8



**UPPER LEVEL** 

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AN REVIEW 03/26/2024 **PLAN** 

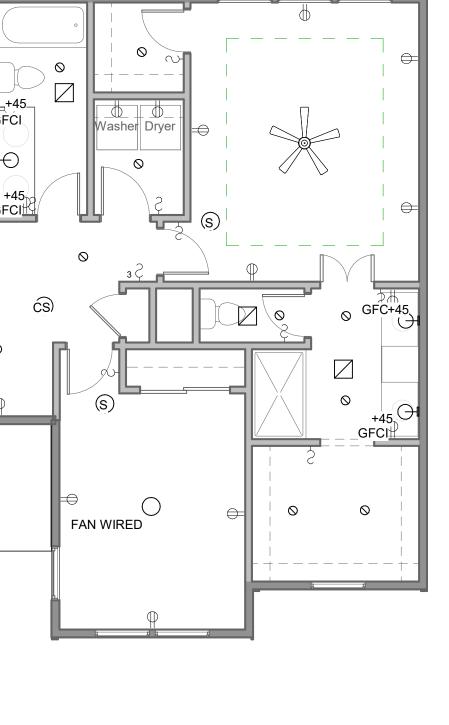
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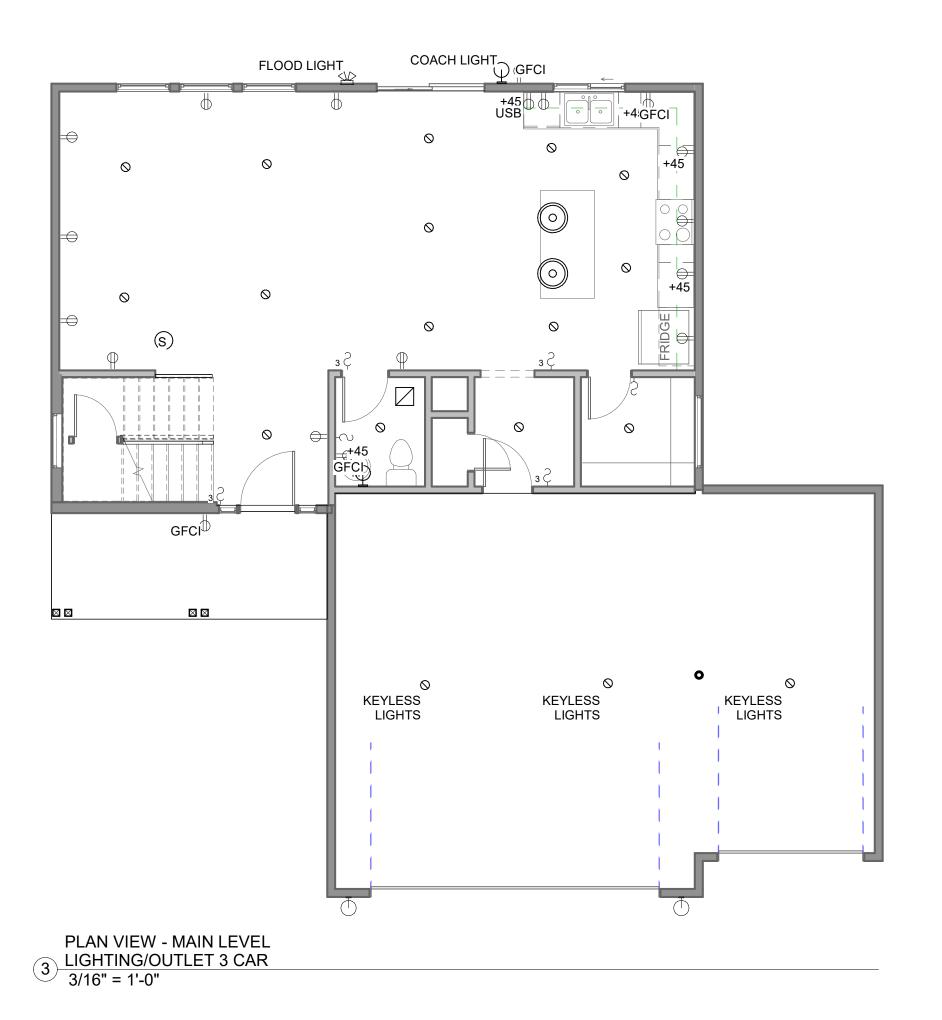
⊖ ⊖ FAN WIRED

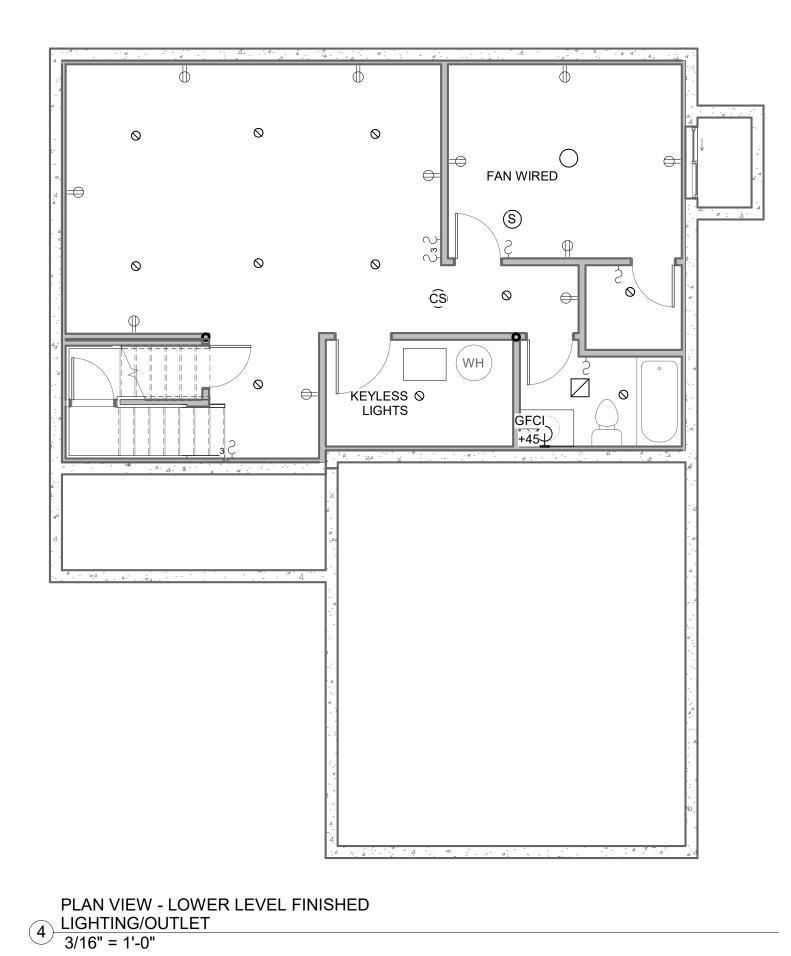
PLAN VIEW - UPPER LEVEL

LIGHTING/OUTLET

3/16" = 1'-0"







S SMOKE DETECTOR

DUPLEX RECPTICAL

\$ TWO WAY SWITCH

CS CARBON/SMOKE DETECTOR

SINGLE WAY SWITCH

LIGHTING + OUTLET:

EXHAUST FAN

(O) PENDANT LIGHT

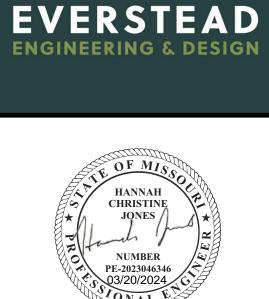
₩ VANITY SCONCE

CEILING FAN

SURFACE MOUNT LIGHT FIXTURE

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**G104** 

||LIGHTING/OUTLET|

**LOCATIONS** 

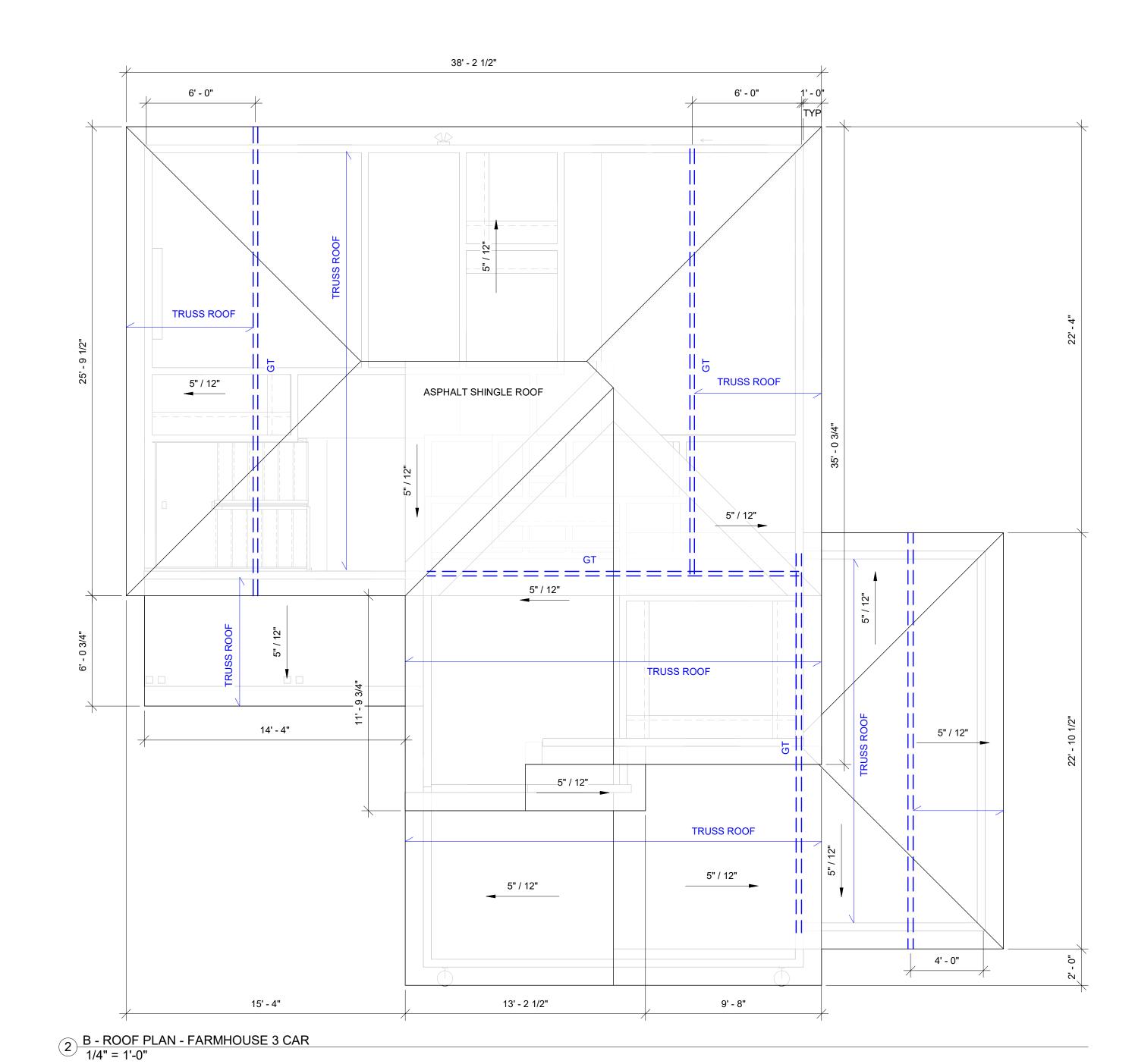
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REVISIONS

- TRUSS 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. WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC 802.10.
- CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS SHOWN AS NON-LOAD BEARING ON APPROVED PRINTS.
- MIN. (6) 2x4 OR (6) 2x6 (TO MATCH WALL) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED.
- 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. ROOF SLOPES IN BETWEEN 4:12 AND 2:12 SHALL REQUIRE DOUBLE UNDERLAYMENT IN ACCORDANCE WITH IRC 2018 TABLE R905.1.1(2)



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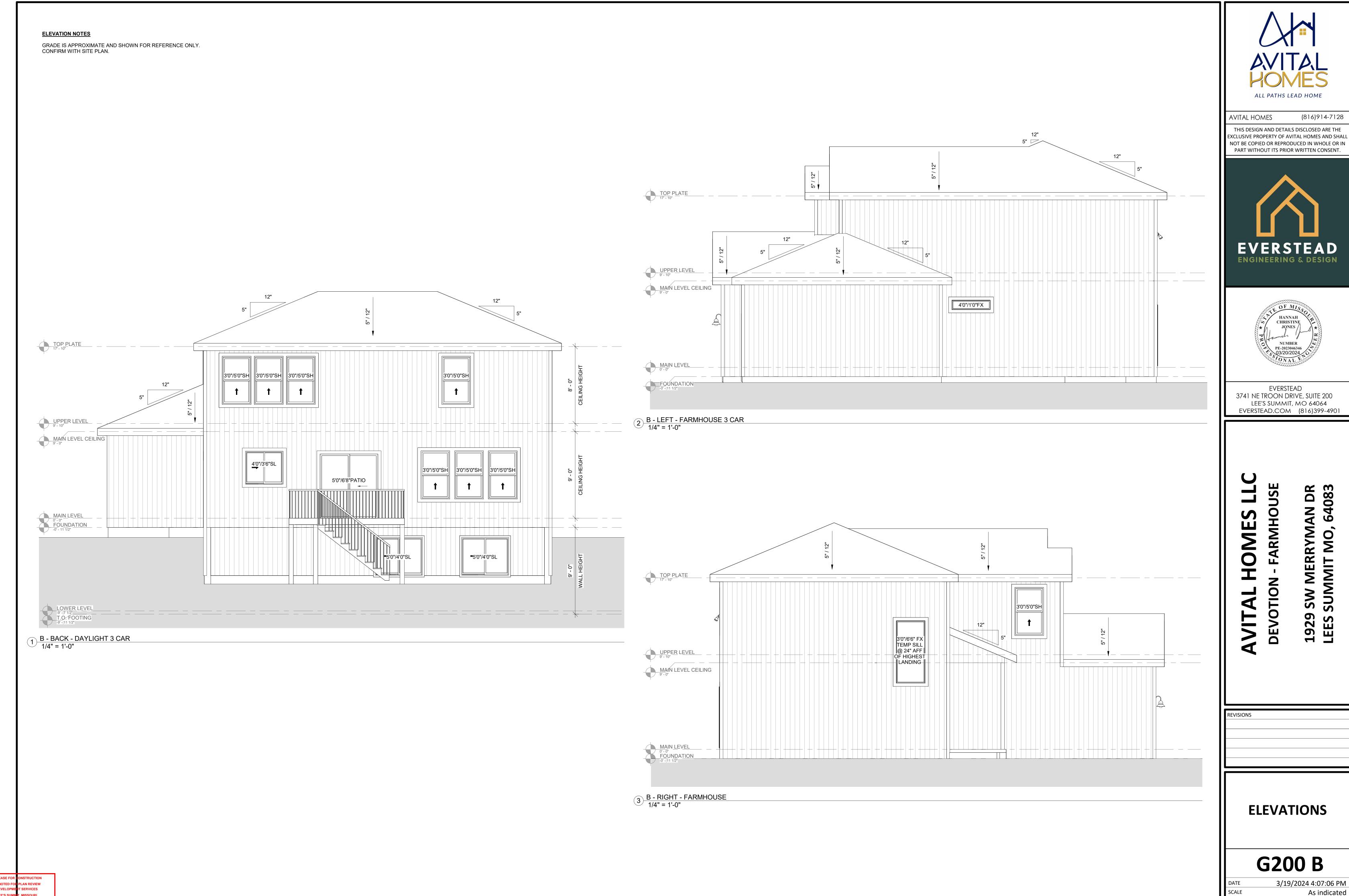
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**ROOF PLAN** 

**G105** B

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03/26/2024



03/26/2024

3/19/2024 4:07:06 PM As indicated

#### **GENERAL NOTES IRC 2018**

PLANS SHALL COMPLY WITH 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) WITH AMENDMENTS AS ADOPTED BY THE APPROPRIATE GOVERNING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CHANGES OR DEVIATIONS FROM THE PLAN ARE MADE DURING CONSTRUCTION. THE ENGINEER OF RECORD MAY REQUIRE REVISED DRAWING OR CALCULATIONS AT ITS DISCRETION. IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

#### A.2 LOADING ASSUMPTIONS

10 PSF UNO ROOF + CEILING (NO STORAGE) 15 PSF ROOF + CEILING (STORAGE) 20 PSF 10 PSF CEILING JOISTS (STORAGE) EXTERIOR BALCONY / DECK 10 PSF INTERIOR FLOOR (MAIN FLOOR) 15 PSF INTERIOR FLOOR (UPPER FLOORS) 10 PSF 8" THICK MASONRY WALL 96 PSF 6" THICK MASONRY WALL 72 PSF EXTERIOR LIGHT FRAMED WOOD WALLS 15 PSF INTERIOR LIGHT FRAMED WOOD WALLS 10 PSF (INTERIOR WALLS INCLUDED IN 15 PSF DEAD LOAD)

## LIVE ROOF LIVE LOAD

FLOOR LIVE LOAD 40 PSF (HABITABLE) GARAGE 50 PSF WITH 2000 LB POINT LOAD STORAGE 20 PSF (UNINHABITABLE) **GUARDRAIL** 

CONTINUOUS LINEAR MAXIMUM POINT 200 LBS

GROUND SNOW LOAD 20 PSF

VELOCITY 115 MPH **EXPOSURE CATEGORY** 

#### SOIL AND SITE ASSUMPTIONS

FOUNDATION DESIGN ASSUMES MINIMUM SOIL BEARING FOR THE SITE OF 1,500 PSF (2,000 PSF FOR KANSAS CITY, MO) UNLESS OTHERWISE NOTED. CONTRACTOR TO VISUALLY INSPECT THE SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS FOR CL (SILTY CLAY) AS DEFINED BY 2018 IRC. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND FOR CONTACTING THE ENGINEER OF

ACCESSORY STRUCTURES WITH AN EAVE HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT MAT PROVIDE A MINIMUM SOIL COVER OF 12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.

## LATERAL SOIL PRESSURES UNLESS OTHERWISE NOTED

**ACTIVE** 60 PSF AT REST 100 PSF

SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 0.5% (6" IN THE FIRST 10'-0"). ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

#### FOUNDATION NOTES

#### FOUNDATION ANCHORAGE (IRC R403.1.6)

SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE.

BOLTS SHALL BE SPACED NO GREATER THAN 6'-0" O.C.

- THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION. WITH A BOLT PLACED WITHIN 12" AND NOT CLOSER THAN 7 BOLT DIAMETERS OF THE END OF EACH PLATE SECTION
- A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE, (NOTE: 7" EMBEDMENT + 1-1/2" SILL PLATE + 3/4" FOR NUT AND WASHER EQUALS A 9-1/4" LONG
- WALL BRACING METHODS (IRC R602) MAY REQUIRE ADDITIONAL ANCHORAGE.

## C.2 CONCRETE SLABS

- CONCRETE SLABS PLACED ON FILL MATERIAL WHICH SHALL BE COMPARED TO ENSURE UNIFORM SUPPORT OF THE SLAB AND SHALL NOT EXCEED 24" OF COMPACTED GRANULATED MATERIAL (SAND OR GRAVEL) OR 8" OF EARTH:
  - THIS MAY OCCUR AT GARAGE FLOOR FILLS, OR OVER EXCAVATED AREAS UNDER FLOOR SLABS.
  - THE DESIGN AND INSTALLATION DETAILS IN THIS DOCUMENT (WHERE APPLICABLE BASED ON SIZE AND SPACING LIMITATIONS) MAY BE USED IN LIEU OF PROVIDING A SEPARATE DESIGN.
  - STRUCTURAL SLABS EXCEEDING THE SPANS AND CONDITIONS OF THE APPROVED DETAILS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
- SLABS AT MAX 4'-0" OVER-DIG ADJACENT TO FOUNDATION WALL:
  - WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4'-0" HORIZONTALLY ADJACENT TO A FOUNDATION WALL. THE STANDARD OVER-DIG DETAIL MAY BE USED IN LIEU OF A COMPLETE STRUCTURAL SLAB.
  - SEE "TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAX 4'-0" OVER-DIG" DETAIL.

## VAPOR RETARDER / BARRIER (IRC R506.2.3)

A 6 MILLIMETER POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED A MINIMUM OF 6" IS REQUIRED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR PREPARED SUBGRADE, (NOT REQUIRED FOR GARAGE SLABS OR DETACHED UNHEATED ACCESSORY BUILDINGS).

## C.4 FOOTINGS

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST PROTECTION (IRC R403.1.4).
- FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SQ. FT. OR LESS AND AN EAVE HEIGHT OF 10'-0" OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF
- EXTERIOR WALLS, BEARING WALLS, COLUMNS AND PIERS SHALL BE SUPPORTED ON CONTINUOUS SOLID MASONRY OR CONCRETE FOOTINGS, OR APPROVED STRUCTURAL SYSTEM TO SAFELY SUPPORT THE IMPOSED LOADS AND SHALL BE SIZED AND REINFORCED IN ACCORDANCE WITH THIS STANDARD OR SHALL BE ENGINEERED DESIGN.
- FOOTINGS UNDER FOUNDATION WALLS SHALL BE CONTINUOUS AROUND THE STRUCTURE AND FROM ONE LEVEL TO THE NEXT.
- THE CONTINUOUS TRANSITIONS BETWEEN FOOTINGS AT DIFFERENT LEVELS ENCLOSING USABLE SPACE SHALL BE MADE BY APPROVED SOLID JUMPS OR SUPPORT SYSTEMS TO PROVIDE SAFE SUPPORT OF THE STRUCTURE.
- SEE "TYPICAL FOOTING/FOUNDATION WALLS/STANDARD SLAB AT MAXIMUM 4" OVER-DIG" AND "FOOTING JUMP" DETAILS.

## C.5 CONCRETE

- ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-14 (OR ACI 332) OR 2018 IRC.
- THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2.

#### C.5 CONCRETE (CONT.)

- CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- CONCRETE POURED AGAINST AN EXISTING SURFACE SHOULD BE ROUGHENED TO A MINIMUM OF 1/4 INCH AMPLITUDE.
- REBAR PLACEMENT SHALL BE AS FOLLOWS:

WALLS, OR FLATWORK EXPOSED TO WEATHER

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3.0 IN CLR CONCRETE EXPOSED TO EARTH OR WEATHER 1.5 IN CLR NOT EXPOSED TO WEATHER OR GROUND
- 3/4 IN CLR SLABS, WALLS, JOISTS 1.5 IN CLR BEAMS, COLUMNS

CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS,

- SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28 DAYS.
- ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. THE DAMPPROOFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE. (IRC R406.1)

#### C.6 CONCRETE WALLS WITH REINFORCEMENT STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
- SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 90 DEG. HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14.
- STRAIGHT EXTENSION LENGTH = 12X BAR DIA BEND DIAMETER = 12X BAR DIA.

#### HOOKED DOWELS:

- HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF
- HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO
- PROVIDE (2) #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS.
- WHERE SPLICES ARE NECESSARY IN REINFORCEMENT, THE LENGTH OF LAP SPLICE SHALL BE IN ACCORDANCE WITH TABLE R608.5.4(1) AND FIGURE R608.5.4(1). THE MAXIMUM GAP BETWEEN NONCONTACT PARALLEL BARS AT A LAP SPLICE SHALL NOT EXCEED THE SMALLER OF ONE-FIFTH THE REQUIRED LAP LENGTH AND 6 INCHES (152MM) [SEE FIGURE R608.5.4.(1)].
- TOP HORIZONTAL REINFORCEMENT SHALL BE PLACED WITHIN 12" FROM THE TOP OF THE
- HORIZONTAL WALL REINFORCEMENT SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK

#### C.7 COLD WEATHER CONCRETE

- COLD WEATHER IS DEFINED AS THREE CONSECUTIVE DAYS WHERE THE AVERAGE DAILY TEMPERATURE DROPS BELOW 40 DEGREES FAHRENHEIT AND NOT ABOVE 50 DEGREES FAHRENHEIT FOR MORE THAN HALF OF ANY ONE OF THOSE THREE DAYS.
- COLD WEATHER CONCRETE WORK SHALL CONFORM TO ACI 306.
- ALL MATERIALS AND EQUIPMENT REQUIRED FOR PROTECTION SHALL BE AVAILABLE AT THE PROJECT SITE BEFORE COLD WEATHER CONCRETING BEGINS.
- THE CONCRETE MIX DESIGN PROVIDED BY THE SUPPLIER SHALL AT A MINIMUM REACH THE AVERAGE 28 DAY MIX DESIGN COMPRESSIVE STRENGTH IN MINIMUM 72 HOURS OR 2000 PSI -WHICHEVER IS GREATER.
- THE TEMPERATURE OF CONCRETE AT PLACEMENT SHALL BE A MINIMUM OF 55 DEGREES
- THE MINIMUM CONCRETE TEMPERATURE AT THE TIME OF MIXING SHALL NOT BE BELOW 65
- ALL SNOW, ICE AND FROST MUST BE REMOVED PRIOR TO PLACING CONCRETE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR CONCRETE AGAINST FREEZING AND MAINTAIN A CONCRETE TEMPERATURE OF 55 DEGREES FAHRENHEIT FOR A 72 HOUR PERIOD AFTER CONCRETE PLACEMENT. THIS MAY BE ACHIEVED WITH THE USE OF INSULATING BLANKETS AND/OR THE USE OF TEMPORARY HEATERS.
- GROUND TEMPERATURE AT THE TIME OF PLACEMENT OF SLAB OR FOOTINGS SHALL NOT BE LESS THAN 35 DEGREES FAHRENHEIT.
- INSULATION, FORMS AND HEATERS MAY BE REMOVED AFTER 72 HOURS .
- MAINTAIN ADEQUATE PROTECTION OF SUB GRADE AND ADEQUATE DRAINAGE AWAY FROM EXPOSED CONCRETE ELEMENT TO PREVENT FREEZING.

## C.8 FOOTNOTES

- VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT AND FOR REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS SHALL HAVE VERTICAL REINFORCEMENT PLACED AS FOLLOWS:
  - 8" WALL MINIMUM 2" FROM TENSION FACE
  - 10" WALL MINIMUM 6-3/4" FROM THE OUTSIDE FACE
- EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL
- HORIZONTAL REINFORCEMENT:
- ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C.
- HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" FROM INSIDE FACE)
- SUPPLEMENTAL REINFORCEMENT AT CORNERS PLACE 1 #4 REBAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE CORNERS.
- AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL FOR WALL THICKNESS LESS THAN 4". PROVIDE #4 BARS AT MAXIMUM 24" O.C. TO WITHIN 8" OF THE TOP OF THE WALL.
- STRAIGHT WALLS MORE THAN 5'-0" TALL AND MORE THAN 16-0" LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS (SEE TYPICAL DEAD MAN SECTION).

MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE PER TABLE R402.2					
TYPE OR LOCATION OF CONCRETE CONSTRUCTION	MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c) FOR SEVER WEATHERING POTENTIAL				
BASEMENT WALLS, FOUNDATIONS AND OTHER CONCRETE NOT EXPOSED TO THE WEATHER	2,500				
BASEMENT SLABS AND INTERIOR SLABS ON GRADE, EXCEPT GARAGE FLOOR SLABS	2,500				
BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK EXPOSED TO THE WEATHER	3,000				
PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER,AND GARAGE FLOOR SLABS	3,500				
SUSPENDED SLABS	4,000				

## D. <u>FRAMING/STRUCTURE</u>

#### D.1 FRAMING NOTES

- ALL TREATED LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED
- ALL NON TREATED LUMBER OR ROT RESISTANT 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)
- EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED WITH MIN. 7/16" OSB 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
- INTERIOR NON LOAD BEARING WALLS: DF-L #2 STUD GRADE OR BETTER DOUBLE TOP PLATE IS NOT REQUIRED FOR INTERIOR NON LOAD BEARING WALLS

THE TOP PLATE WITH CRIPPLE FRAMING BELOW AS NEEDED UNO.

- 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: PT DF-L #2 BOTTOM (SOLE) PLATE IN CONTACT WITH MASONRY: PT DF-L #2
- 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							
$F_b$ (PSI) E (PSI) $F_v$ (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 ( $F_Y = 46 \text{ KSI}$ )

ASTM A36 ( $F_Y = 36 \text{ KSI}$ )

ASTM A992 ( $F_Y = 50 \text{ KSI}$ )

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

ASTM F1554 ( $F_Y = 36 \text{ KSI}$ )

- WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OF 3/16" SIZE UNLESS NOTED
- 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

#### **GARAGES**

- 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
- 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).

- 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

# 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". BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.

# I.2 SMOKE AND CARBON MONOXIDE SAFETY (PER IRC R314)

- 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.

J. <u>ENERGY REQUIREMENTS</u> 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

MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400

EX

FV

FJ

FTG

MAX

MIN

OC

PED

PCF

PSI

VERT VERTICAL

**EXISTING** 

FOOTING

FIELD VERIFY

FLOOR JOIST

FINISHED FLOOR

CFM AS REQUIRED PER IRC M1503.6. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER

# **ABBREVIATIONS**

ABOVE FINISHED FLOOR AΒ ANCHOR BOLT BM BEARING BELOW FINISHED FLOOR BFF BOT BOTTOM BRACED WALL LINE CEILING JOIST CJCLR CLEAR

IRC M1601.6 ENERGY CONSERVATION.

- COL COLUMN CONC CONCRETE CMU CONCRETE MASONRY UNIT CXN CONNECTION CONT CONTINUOUS DOUBLE DIAMETER DIA
- EW **EACH WAY** EFF **EFFECTIVE ELEVATION** END CONDITION EΩ FQUAL
- ENGINEER OF RECORD **EQUIV EQUIVALENT** EFP EQUIVALENT FLUID PRESSURE
- FOUNDATION HDR HEADER HORZ HORIZONTAL MAXIMUM MINIMUM NTS NOT TO SCALE ON CENTER PEDESTAL POUNDS PER CUBIC FOOT

POUNDS PER LINEAR FOOT

POUNDS PER SQURE INCH

POUNDS PER SQUARE FOOT

PRESSURE TREATED PT RAF RAFTER STRUCTURAL INSULATED PANEL SIP STL STEEL TYP TYPICAL

UNO UNLESS NOTED OTHERWISE

**STRUCTURAL GENERAL NOTES** 

03/26/2024

AN REVIEW

0 7 5

ш

HANNAH

CHRISTINE

JONES

NUMBER

PE-2023046346 03/20/2024

EVERSTEAD

3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

everstead.com (816)399-490°

REVISIONS

3/19/2024 4:04:29 PM **SCALE** As indicated

- FOUNDATION NOTES:

  1. 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
- MINIMUM OF 7". BASEMENT EGRESS SHALL COMPLY WITH IRC R310. FOR NEW CONSTRUCTION, AN ACCESSIBLE CONNECTION POINT TO BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND).

### **CRAWL SPACE NOTES:**

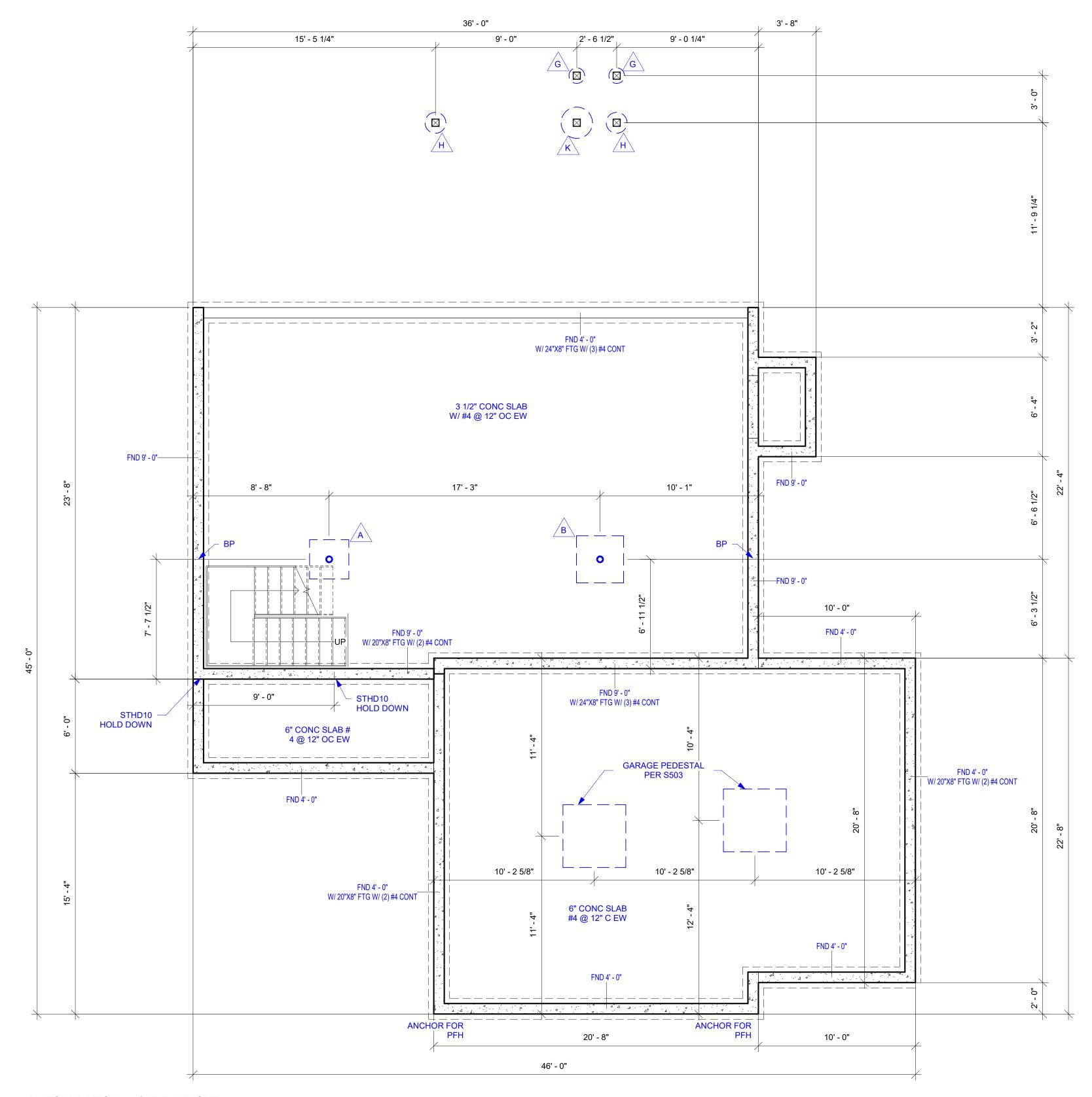
- UNDER-FLOOR SPACE SHALL CONFORM TO 2018 IRC SECTION R408
- PER 2018 IRC R408.3 UNDER-FLOOR VENTILATION IS NOT REQUIRED WHERE:
- · EXPOSED EARTH IS COVERED W/ CONTINUOUS CLASS 1 VAPER RETARDER. · JOINTS SHALL OVERLAP 6" AND SHALL BE SEALED OR TAPED.
- · EDGES OF VAPER RETARDER SHALL EXTEND 6" UP STEM WALL AND PERIMETER WALL INSULATED IN
- ACCORDANCE WITH SECT N1103.3.1
- · CONTINUOUSLY OPERATED MECHANICAL EXHAUST VENTILATION AT A RATE EQUAL TO 1 CUBIC FOOT PER MINUTE (0.47 L/s) FOR EACH 50 SQUARE FEET OF CRAWL SPACE FLOOR AREA.
- UNDER-FLOOR ACCESS SHALL BE PROVIDED AND SHALL BE A MINIMUM OF 18"x24" OPENING.
- ALL WALLS OVER 10' SHALL BE DOUGLAS FIR-LARCH #2 2x4 STUDS FULL HEIGHT CONTINUOUS UNO. ALL WALLS OVER 12' SHALL BE DOUGLAS FIR-LARCH #2 (M-12) LUMBER 2x6 STUDS FULL HEIGHT CONTINUOUS.

FOUNDATION WALL AND FOOTING TABLE (3000 PSI CONCRETE AND 40 KSI REBAR PLACED 2" FROM INSIDE TENSION FACE)								
WALL TYPE	NOMINAL WALL THICKNESS	VERTICAL SPACING AND SIZE	HORIZONTAL SPACING AND SIZE	FOOTING SPECIFICATION U.N.O. ON PLANS				
3'-6" TRENCH FOOTING	16"	#4 BARS @18" O.C.	(2) #4 BARS TOP & BOT. CONT.					
< 6'-0" WALL		#4 BARS @36" O.C.						
8'-0" WALL	8"	#4 BARS @16" O.C.		16" x 8" CONC. FTG. W/ (2) #4 BARS CONT.				
9'-0" WALL		#4 BARS @12" O.C.	#4 BARS @ 24" O.C.					
10'-0" WALL		#4 BARS @8" O.C.						
11'-0" WALL	10"	#4 BARS @9" O.C.		24" x 12" CONC. FTG.				
12'-0" WALL	10"	#4 BARS @6" O.C.		W/ (3) #4 BARS CONT.				

ISOLATED FOOTINGS AND COLUMN PADS				
SYM	PIER PAD SIZE	DEPTH	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI
Â	30"x30"	1'-0"	(5) #4 BAR E.W.	3" DIAMETER
B	36"x36"	1'-0"	(6) #4 BAR E.W.	3" DIAMETER
<u>c</u>	42"x42"	1'-2"	(7) #4 BAR E.W.	3" DIAMETER
D	48"x48"	1'-4"	(8) #4 BAR E.W.	3" DIAMETER
É	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

ISOLATED FOOTINGS AND COLUMN PADS				
SYM	PIER DIAMETER	DEPTH	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL	
G	12"	3'-0"	(4) VERTICAL #4	
H	16"	3'-0"	(4) VERTICAL #4	
J	18"	3'-0"	(4) VERTICAL #4	
K	24"	3'-0"	(4) VERTICAL #4	
Ĺ	28"	3'-0"	(4) VERTICAL #4	

\*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.



REVISIONS

**FOUNDATION PLAN** 

ALL PATHS LEAD HOME

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**ENGINEERING & DESIGN** 

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AN DR 64083

**AVITAL HOMES** 

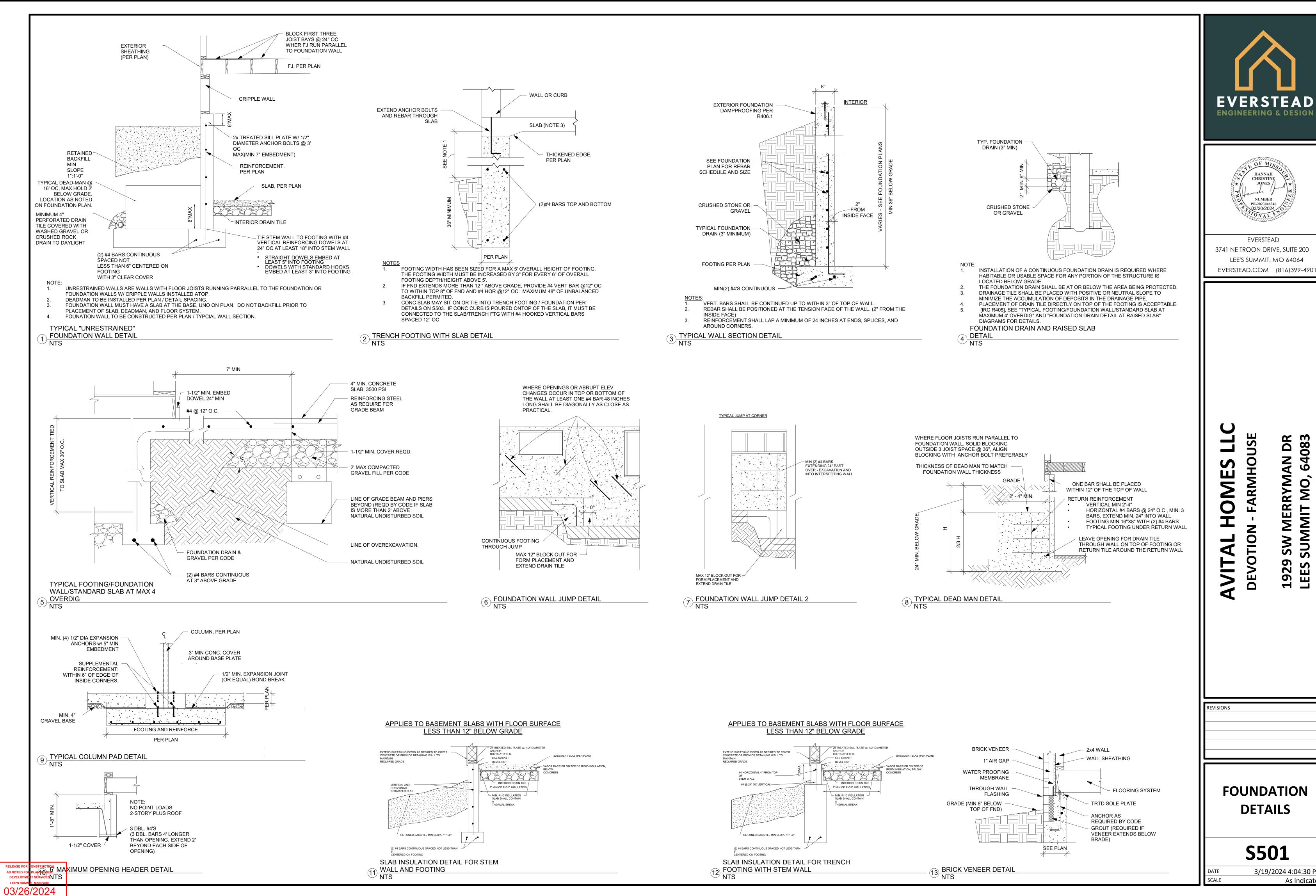
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**S100** 

3/19/2024 4:07:07 PM SCALE As indicated

03/26/2024

1 B - FOUNDATION - 3 CAR DAYLIGHT 1/4" = 1'-0"



**ENGINEERING & DESIGN** 

HANNAH

NUMBER

PE-2023046346

**EVERSTEAD** 

03/20/2024

CHRISTINE

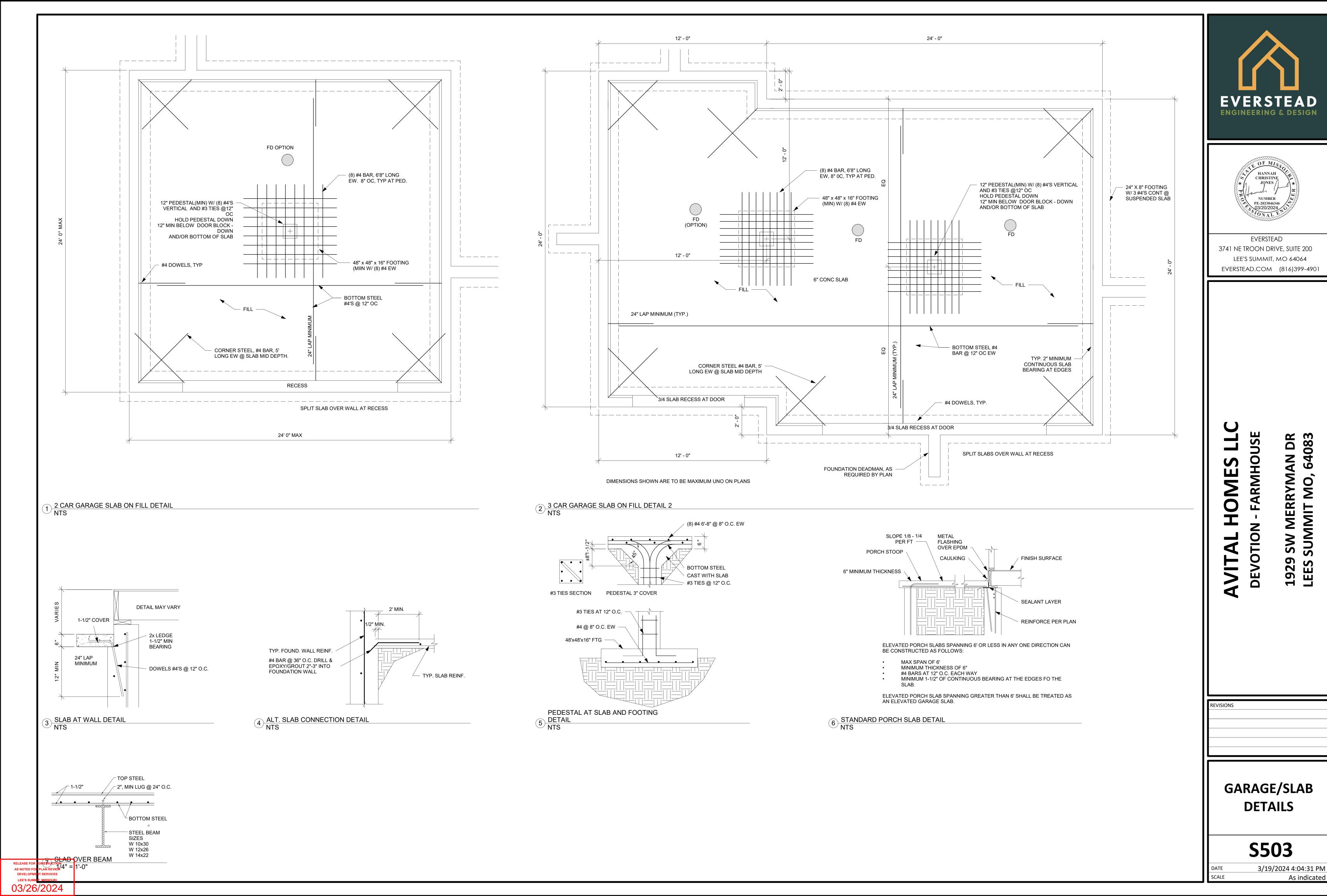
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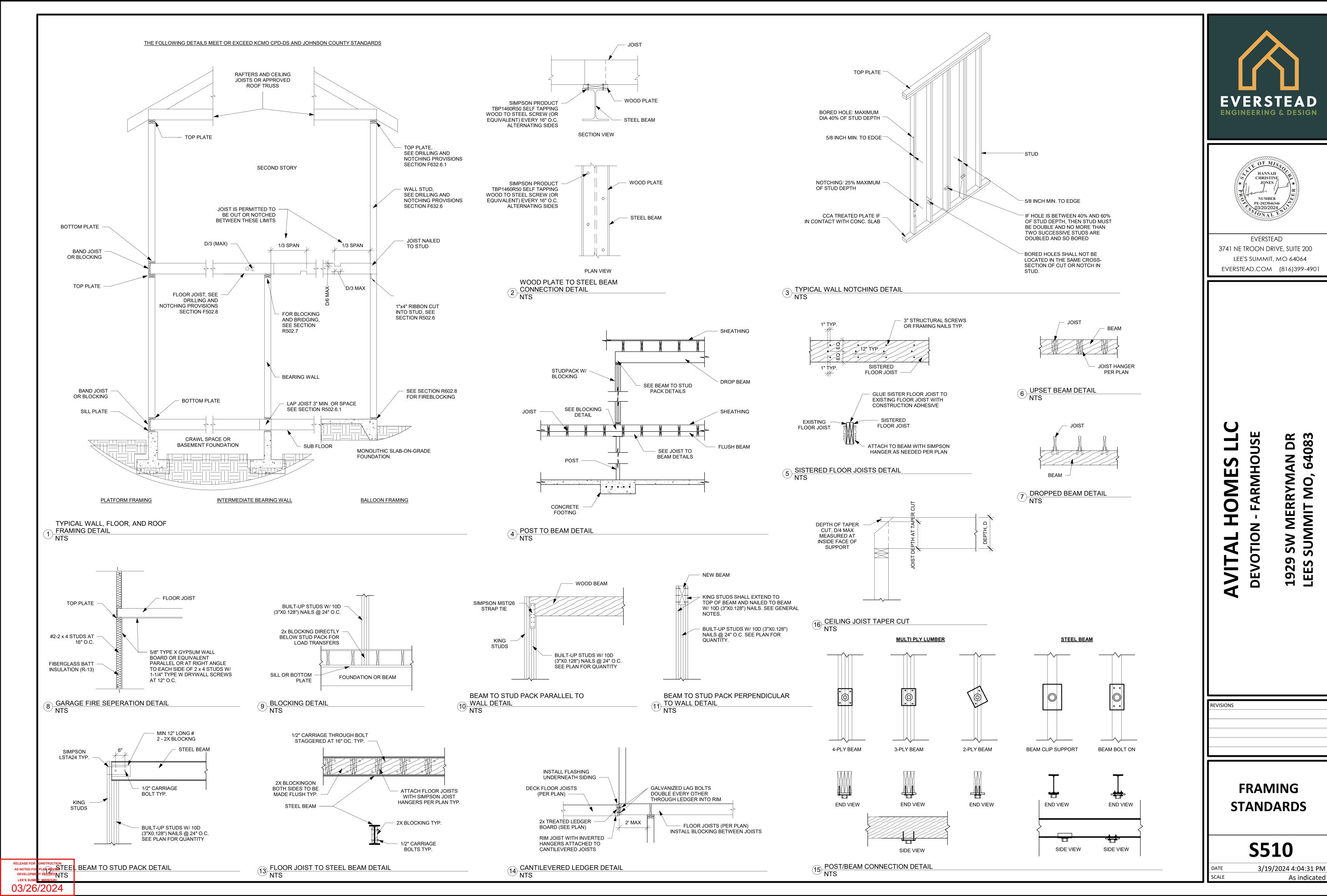
**DETAILS** 

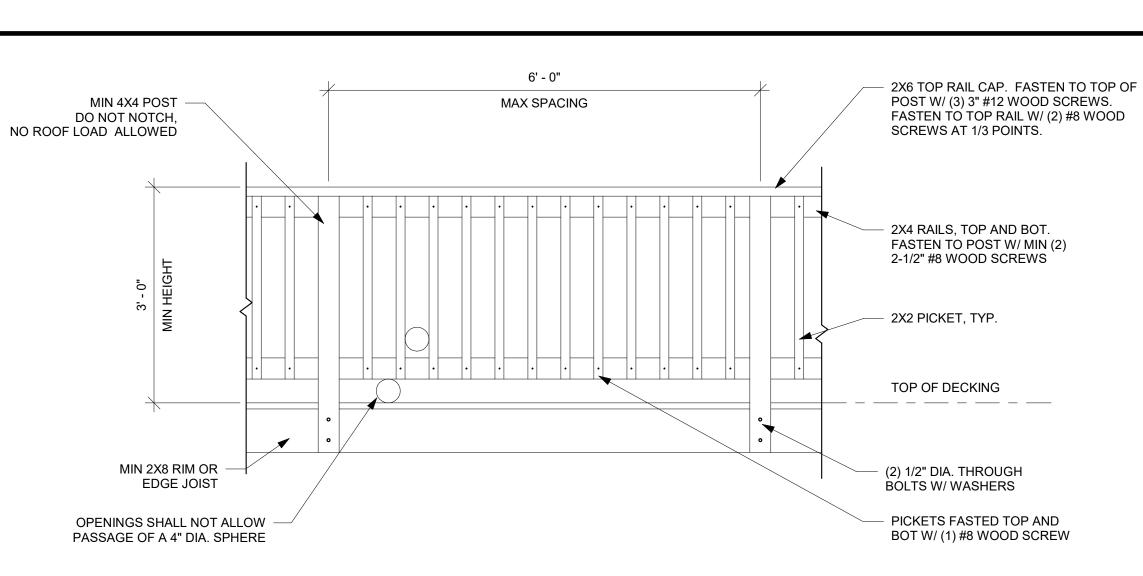
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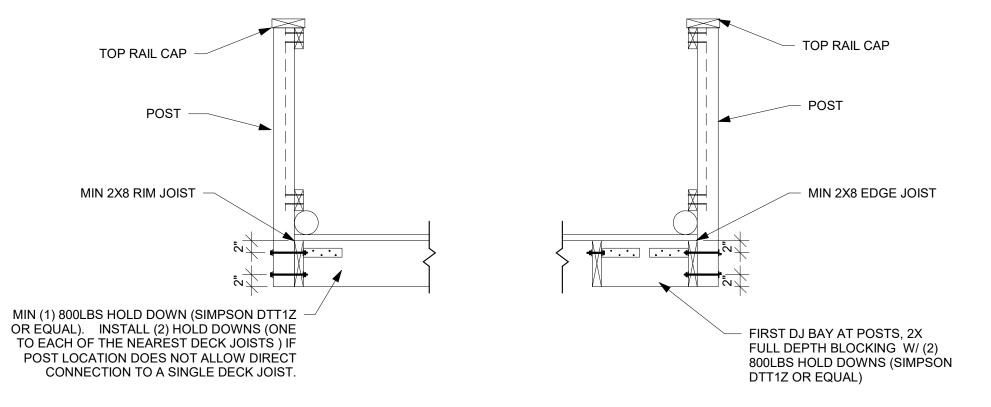
As indicated







DECK RAILING DETAIL DRAWN TO MEET THE INTENT OF R312 OF THE 2018 IRC AND A CONCENTRATED LOAD OF 200 LBS PER 1607.8.1 OF THE 2018 IBC.



RAILING ATTACHED TO EDGE JOIST

D = 7.5" MIN. FOR 2X12 \*DISTANCE SHALL BE PERMITTED TO BE REDUCED TO 4.5" IF LAG SCREWS ARE USED OR BOLT SPACING IS REDUCED TO THAT OF LAG SCREWS TO ATTACH 2x8 LEDGERS TO 2X8 BAND JOISTS

EXIST. STUD WALL

EXIST. 2X BAND JOIST OR 1" MINIMUM EWP RIM JOIST

2X FLOOR JOIST OR I-JOIST

EXIST. FOUNDATION WALL

LEDGER BOARD TO BAND BOARD

2 DETAIL NTS

D = 5.5" MIN. FOR 2x8\* D = 6.5" MIN. FOR 2x10

LAG SCREW OR BOLT

EXTERIOR SHEATHING

REMOVE SIDING AT LEDGER

LEDGER AND JOIST FLUSH ON

DECK JOIST

1/2" DIA. LAG SCREWS OR THROUGH-BOLTS

WITH WASHERS

2X LEDGER BOARD EQUAL TO OR

HOUSE BAND OR RIM JOIST.

GREATER THAN DEPTH OF DECK JOIST AND NO GREATER THAN DEPTH OF

JOIST HANGER

SPACERS AS

STAGGER FASTENERS

IN TWO ROWS

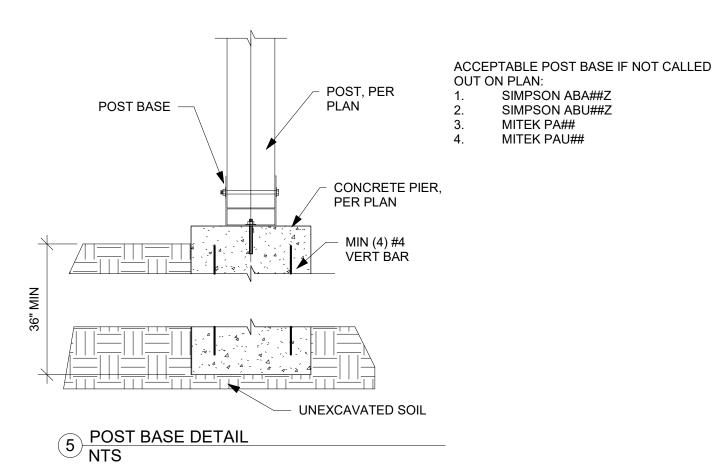
REQUIRED, 1/2" MAX

CONTINUOUS FLASHING EXTENDING PAST JOIST HANGER

PRIOR TO INSTALLATION

 $\underbrace{\textbf{4} \frac{\text{DECK LEDGER DIMENSION DETAIL}}{\text{NTS}}}$ 

LEDGER



DOUBLE NOMINAL BEAM

(2) 1/2" DIA. THROUGH BOLTS W/ WASHERS

3 DETAIL NTS

≥ 2-1/2" MIN. SINGLE PLY BEAM -BEAM SPLICE -<u></u>≥ 3/4"

NOTCHED POST-TO-BEAM CONNECTION

POST CAP; ATTACHMENT PER MANUFACTURERS

6X6 POST

**OPTION 1** 

TYPICAL POST TO BEAM ATTACHMENT

INSTRUCTIONS

3-PLY BEAM

CAP OPTION

OPTION 2

MUST USE POST

DEV

DR 083

**ENGINEERING & DESIGN** 

HANNAH CHRISTINE

NUMBER PE-2023046346 03/20/2024

**EVERSTEAD** 3741 NE TROON DRIVE, SUITE 200

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1929 LEES

REVISIONS

**DECK DETAILS** 

**S520** 

3/19/2024 4:04:32 PM SCALE As indicated

03/26/2024

2-3 2-5 3-4 2-10 3-6 4-2 3-4 4-6

12 16 24 12 9-11 9-0 7-7 1-6 2X6 1-3 1-4 13-1 11-10 9-8 2X10 14-0 16-2 11-5 18-0 16-6 13-6 2X12

MAXIMUM CANTILEVER

SPACING OF DECK JOISTS W/

CANTILEVERS (IN.)

SOUTHERN

SIZE

TABLE R507.6 DECK JOIST SPANS FOR COMMON LUMBER SPECIES (FT. - IN.)

ALLOWABLE JOIST SPAN

SPACING OF DECK JOISTS (IN.)

**RAILING ATTACHED TO RIM JOIST** 

DECK RAILING

DECK BEAM

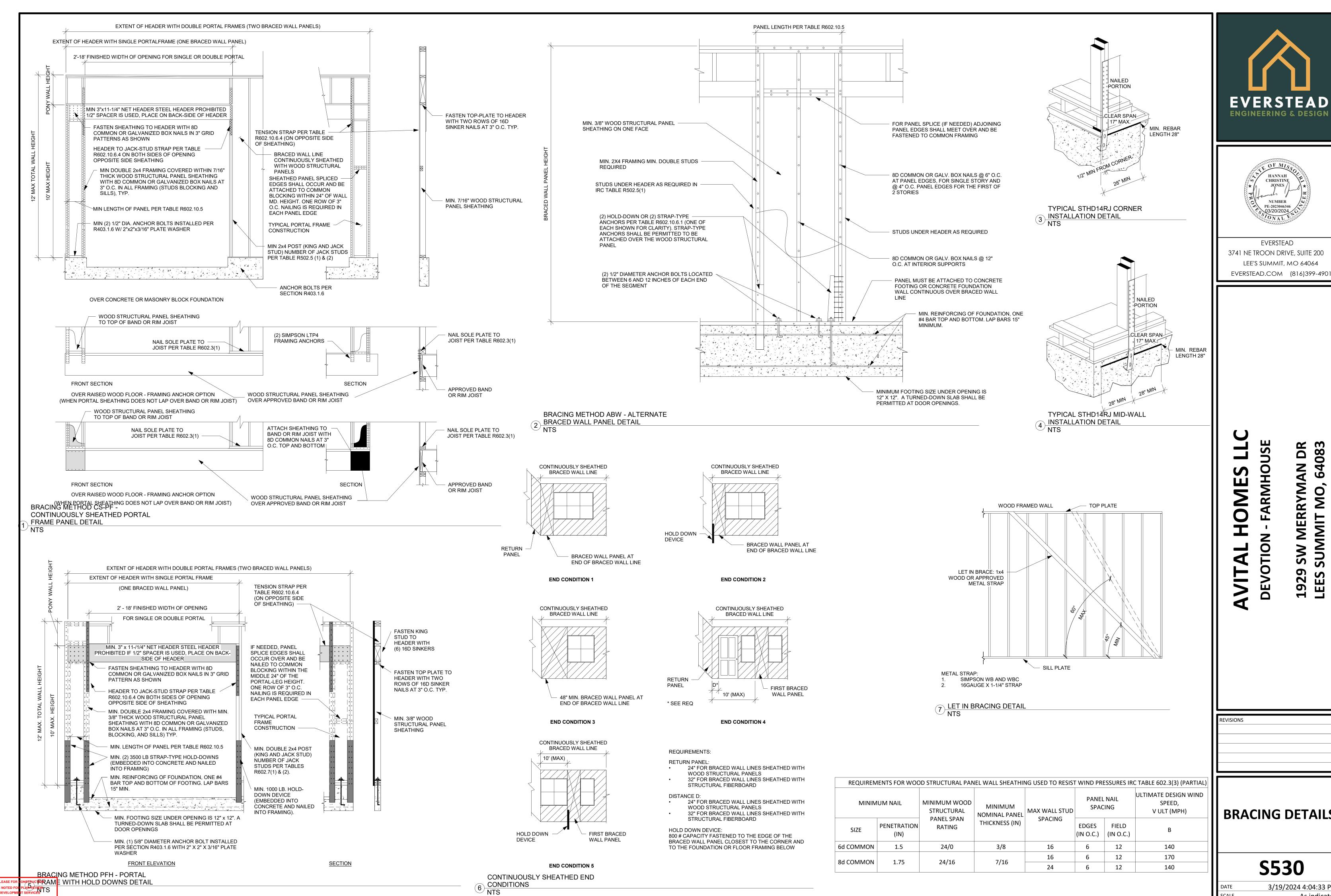
– 2X6 KNEE BRACE, MIN

- 1/2" LAG SCEW W/ WASHER, TYP.

KNEE BRACING DETAIL

NTS

SPECIES



03/26/2024

**BRACING DETAILS** 

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NUMBER

**S530** 

3/19/2024 4:04:33 PM **SCALE** As indicated

TABLE R507.9.1.3(2) PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES) BOTTOM EDGE TOP EDGE LEDGER 3/4 BAND JOIST

BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	TOE NAIL
CEILING JOISTS TO PLATE	4-8d BOX (2-1/2"x0.131") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10 BOX (3"x0.128") OR 3-3"x0.131" NAILS	TOE NAIL
CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARTITIONS	4-10d BOX (3"x0.128") OR 3-16d COMMON (3-1/2"x0.162") OR 4-3"x0.131" NAILS	FACE NAIL
COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4"x20 GAGE RIDGE STRAP	4-10d BOX (3"x0.128") OR 3-10d COMMON (3"x0.148") OR 4-3"x0.131" NAILS	FACE NAIL EACH RAFTER
RAFTER OR ROOF TRUSS TO TOP PLATE, TOE NAIL	4-16d BOX (3-1/2"x0.135") OR 3-10d COMMON (3"x0.148") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
ROOF RAFTERS TO	4-16d BOX (3-1/2"x0.135") OR 3-10d COMMON (3"x0.148") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS	TOE NAIL
RIDGE, VALLEY OR HIP RAFTERS	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	END NAIL
	WALL	
STUD TO STUD (NOT	16d COMMON (3-1/2"x0.162")	24" O.C. FACE NAIL
AT BRACED WALL PANELS)	10d BOX (3"x0.128") OR 3"x0.131" NAIL	16" O.C. FACE NAIL
STUD TO STUD AND ABUTTING STUDS AT	16d BOX (3-1/2"x0.135") OR 3"x0.131" NAIL	12" O.C. FACE NAIL
INTERSECTION WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL
DUILT LID LIEADED TWO DIEGES	16d COMMON (3-1/2"x0.162")	16" O.C. EACH EDGE FACE NAIL
BUILT-UP HEADER, TWO PIECES WITH 1/2" SPACER	16d BOX (3-1/2"x0.135")	12" O.C. EACH EDGE FACE NAIL
CONTINUOUS HEADER TO STUD	5-8d BOX (2-1/2"x0.113") OR 4-8d COMMON (2-1/2"x0.131") OR 4-10d BOX (3"x0.128")	TOE NAIL
	16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL
TOP PLATE TO TOP PLATE	10d BOX (3"x0.128") OR 3"x0.131" NAIL	12" O.C. FACE NAIL
DOUBLE TOP PLATE SPLICE	8-16d COMMON (3-1/2"x0.162") OR 12-16d BOX (3-1/2"x0.135") OR 12-10d BOX (3"x0.128") OR 12-3"x0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
OTTOM PLATE TO JOIST, RIM JOIST,	16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL
BAND JOIST, OR BLOCKING (NOT BRACED WALL PANELS)	-16d BOX (3-1/2"x0.135") OR 3"x0.131" NAIL	12" O.C. FACE NAIL
DTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (AT BRACED WALL PANELS)	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 4-3"x0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2-1/2"x0.113") OR 3-16d BOX (3-1/2"x0.135") OR 4-8d COMMON (2-1/2"x0.131") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS	TOE NAIL
TOP OR BOTTOM PLATE TO STOD	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	END NAIL
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3"x0.128") OR 2-16d COMMON (3-1/2"x0.162") OR 3-3"x0.131" NAILS	FACE NAIL
1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 2-10d BOX (3"x0.128") OR 2 STAPLES 1-3/4"	FACE NAIL
1"x6" SHEATHING TO EACH BEARING	3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 2-10d BOX (3"x0.128") OR 2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG	FACE NAIL
1"x8" AND WIDER SHEATHINGTO EACH BEARING	3-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG  WIDER THAN 1"x8": 4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 4 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG	FACE NAIL

NUMBER AND TYPE OF FASTENER

ROOF

SPACING AND LOCATION

OF FASTENERS

DESCRIPTION OF BUILDING

MATERIALS

BRACING METHODS TABLE R602.10.4 (PARTIAL)

ANGLES FOR MAX 16" STUD SPACING SIMPSON WB/WBC INSTALLED IN "X"

MINIMUM

THICKNESS

3/8" PANEL W/ MINIMUM 24/0

7/16" PANEL W/ MINIMUM 24/16

3/8"

3/8"

1x4 WOOD OR APPROVED METAL STRAPS AT 45 TO 60 DEGREE

1/2"

STRUCTURAL PANEL SPAN RATING

METHODS, MATERIAL

CS-WSP CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL

PFH - PORTAL

FRAME WITH HOLD-DOWNS

PFG - PORTAL FRAME AT GARAGE

LET-IN-BRACING

**GB-GYPSUM** 

BOARD

WSP - WOOD STRUCTURAL PANEL AND STRUCTURAL PANEL SPAN RATING

CONNECTION CRITERIA

SPACING

6" EDGES, 12"

FIELD

SEE DETAIL ON

THIS PAGE

SEE IRC SECTION

WOOD: PER STUD

**BOTTOM PLATES** 

METAL: PER STUD

AND TOP AND

BOTTOM PLATES

FOR ALL BRACED

WALL PANEL LOCATIONS: 7"

**EDGES** 

(INCLUDING TOP

AND BOTTOM

PLATES) 7" FIELD

AND TOP AND

R602.10.6.3

6" EDGES, 12"

FIELD

**FASTENERS** 

6d COMMON NAILS (2.0" x .113") W/

8d COMMON NAILS (2.5" x .131") W/

MINIMUM 1.75" PÈNETRATION

SEE DETAIL ON THIS PAGE

SEE IRC SECTION R602.10.6.3

WOOD: 2-8d COMMON NAILS OR

3-8d (2-1/2" LONG x .113" DIA.) NAILS

PAIRS OR IN OPPOSING "V" FASHION AND FASTENED W/ (2) 16d COMMON

NAILS FOR PLATE AND (1) 8d

COMMON NAIL FOR STUDS

1/2" INTERIOR SHEATHING W/ STUDS AT 16" O.C.: 13 GAGE, 1-3/8" LONG, 19/64" HEAD; .098" DIA., 1-1/4" LONG, ANNULAR-RINGED; 5d COOLER NAIL, .086" DIA., 1-5/8" LONG, 15/64" HEAD; OR GYPSUM BOARD NAIL, .086" DIA. 1-5/8" LONG, 9/32" HEAD PER

TABLE R702.3.5 (SEE TABLE FOR

OTHER PANEL THICKNESS OPTIONS)

EXTERIOR 1/2" SHEATHING: 1-1/2"

GALVANIZED, 1-1/2" LONG; 1-1/4"

SCREWS, TYPE W OR S PER TABLE R602.3(1)

EXTERIOR 5/8" SHEATHING: 1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE W OR S PER TABLE R602.3(1)

GALVANIZED ROOFING NAIL; STAPLE

MINIMUM 1.5" PENETRATION

	FLOOR		
JOIST TO SILL, TOP PLATE, OR GIRDER	4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	TOE NAIL	
RIM JOIST, BAND JOIST OR	8d BOX (2-1/2"x0.113")	4" O.C. TOE NAIL	
BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d COMMON (2-1/2"x0.131") OR 10d BOX (3"x0.128") OR 3"x0.131" NAIL	6" O.C. TOE NAIL	
1"x6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG	FACE NAIL	
2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162")	BLIND AND FACE NAIL	
2" PLANKS (PLANK & BEAM-FLOOR & ROOF)	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162")	AT EACH BEARING FACE NAIL	
BAND OR RIM JOIST TO JOIST	3-16d COMMON (3-1/2"x0.162") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS OR 4 3"x14 GA. STAPLES, 7/16" CROWN	END NAIL	
	20d COMMON (3"x0.128")	O.C AT TOP END	ER AS FOLLOWS: 32' D AND BOTTOM AND GGERED.
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	10d BOX (3"x0.128") OR 3"x0.131" NAIL	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSIT SIDES	
	AND: 2-20d COMMON (4"x0.192") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE	
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3-1/2"x0.135") OR 3-16d COMMON (3-1/2"x0.162") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL	
BRIDGING OR BLOCKING TO JOIST	2-10d BOX (3"x0.128") OR 2-8d COMMON (2-1/2"x0.131") OR 2-3"x0.131" NAILS	EACH END, TOE NAIL	
DESCRIPTION OF BUILDING MATERIALS	NUMBER AND TYPE OF FASTENER	EDGES (IN)	INTERMEDIATE SUPPORTS (IN)
WOOD STRUCTURAL PANE	ELS, SUBFLOOR, ROOF AND INTERIOR WALL SH	LATUING TO EDAN	
			IING AND
F	PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SH	G	
F	PARTICLEBOARD WALL SHEATHING TO FRAMIN	G	
[SEE TABLE R602.3(3) FOR W	PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SH 6d COMMON (2"x0.113") NAIL (SUBFLOOR, WALL) OR 8d COMMON (2-1/2"x0.131") NAILS (ROOF) OR	G EATHING TO WALL	FRAMING]
[SEE TABLE R602.3(3) FOR W	PARTICLEBOARD WALL SHEATHING TO FRAMING TOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO FRAMING TOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO FRAMING TOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO FRAMING TOOD STRUCTURAL PANEL SHEATHING TOOD S	G EATHING TO WALL 6	FRAMING]
[SEE TABLE R602.3(3) FOR W	PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SHE GOOD STRUCTURAL PANEL EXTERIOR WALL SHE GOOD STRUCTURAL PANEL EXTERIOR WALL SHE GOOD STRUCTURAL PANEL (SUBFLOOR, WALL) OR 8d COMMON (2-1/2"x0.131") NAILS (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	G EATHING TO WALL 6	FRAMING]  12  12
[SEE TABLE R602.3(3) FOR W	PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SHE GOOD STRUCTURAL PANEL (SUBFLOOR, WALL) OR RSRS-01 (2-1/2"x0.131") NAIL (ROOF) NAIL (ROOF)  8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  10d COMMON (3"x0.148") NAIL OR 8d (2-1/2"x0.131") DEFORMED NAIL	G EATHING TO WALL 6	FRAMING]  12  12
[SEE TABLE R602.3(3) FOR W 3/8" - 1/2" 19/32" - 1" 1-1/8" - 1-1.4"	PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SHE GOOD STRUCTURAL PANEL (SUBFLOOR, WALL) OR 8d COMMON (2-1/2"x0.131") NAIL (ROOF)  8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  10d COMMON (3"x0.148") NAIL (ROOF)  10d COMMON (3"x0.148") NAIL OR 8d (2-1/2"x0.131") DEFORMED NAIL  OTHER WALL SHEATHING  1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1"	G EATHING TO WALL  6  6	12 12 12
[SEE TABLE R602.3(3) FOR W 3/8" - 1/2"  19/32" - 1"  1-1/8" - 1-1.4"  1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	PARTICLEBOARD WALL SHEATHING TO FRAMING OOD STRUCTURAL PANEL EXTERIOR WALL SHE GOOD STRUCTURAL PANEL (SUBFLOOR, WALL) OR 8d COMMON (2"x0.131") NAIL (ROOF)  8d COMMON (2-3/8"x0.113") NAIL (ROOF)  8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  10d COMMON (3"x0.148") NAIL OR 8d (2-1/2"x0.131") DEFORMED NAIL  OTHER WALL SHEATHING  1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1"	6 6 3	12 12 12 6
[SEE TABLE R602.3(3) FOR W 3/8" - 1/2"  19/32" - 1"  1-1/8" - 1-1.4"  1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING  25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	PARTICLEBOARD WALL SHEATHING TO FRAMING ODD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO STRUCTURAL PANEL EXTERIOR WALL SHEATHING (2-1/2"x0.113") NAIL (SUBFLOOR, WALL) OR 8d COMMON (2-1/2"x0.131") NAIL (ROOF)  8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  10d COMMON (3"x0.148") NAIL (ROOF)  10d COMMON (3"x0.148") NAIL OR 8d (2-1/2"x0.131") DEFORMED NAIL  OTHER WALL SHEATHING  1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS,	6 6 3 3	12 12 6 6
[SEE TABLE R602.3(3) FOR W 3/8" - 1/2"  19/32" - 1"  1-1/8" - 1-1.4"  1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING  25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING  1/2" GYPSUM INTERIOR COVERING (R702.3.5)  5/8" GYPSUM INTERIOR COVERING (R702.3.5)	PARTICLEBOARD WALL SHEATHING TO FRAMING OOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO STRUCTURAL PANEL EXTERIOR WALL SHEATHING OOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING OR BIT OF THE STREET OOD STRUCTURAL PANEL SHEATHING OTHER WALL SHEATHING  1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S"	6 6 6 7	12 12 12 7
[SEE TABLE R602.3(3) FOR W 3/8" - 1/2"  19/32" - 1"  1-1/8" - 1-1.4"  1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING  25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING  1/2" GYPSUM INTERIOR COVERING (R702.3.5)  5/8" GYPSUM INTERIOR COVERING (R702.3.5)	PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SHEATHOOD OR WALL) OR 8d COMMON (2"x0.131") NAIL (ROOF)  8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)  10d COMMON (3"x0.148") NAIL OR 8d (2-1/2"x0.131") DEFORMED NAIL  OTHER WALL SHEATHING  1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN  1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S"  1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S"	6 6 6 7	12 12 12 7
[SEE TABLE R602.3(3) FOR W  3/8" - 1/2"  19/32" - 1"  1-1/8" - 1-1.4"  1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING  25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING  1/2" GYPSUM INTERIOR COVERING (R702.3.5)  5/8" GYPSUM INTERIOR COVERING (R702.3.5)	PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO STRUCTURAL PANEL PANEL SHEATHING TO STRUCTURAL PANEL PA	6 6 6 7 7 MENT TO FRAMIN	12 12 12 6 6 7 7 G

DESCRIPTION OF BUILDING MATERIALS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION OF FASTENERS	
	FLOOR		
JOIST TO SILL, TOP PLATE, OR GIRDER	4-8d BOX (2-1/2"x0.113") OR 3-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 3-3"x0.131" NAILS	TOE NAIL	
RIM JOIST, BAND JOIST OR	8d BOX (2-1/2"x0.113")	4" O.C. TOE NAIL	
BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d COMMON (2-1/2"x0.131") OR 10d BOX (3"x0.128") OR 3"x0.131" NAIL	6" O.C. TOE NAIL	EVERSTEAD ENGINEERING & DESIGN
1"x6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2-1/2"x0.113") OR 2-8d COMMON (2-1/2"x0.131") OR 3-10d BOX (3"x0.128") OR 2 STAPLES, 1" CROWN, 16 GA., 1-3/4" LONG	FACE NAIL	
2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162")	BLIND AND FACE NAIL	OF MISSO
2" PLANKS (PLANK & BEAM-FLOOR & ROOF)	3-16d BOX (3-1/2"x0.135") OR 2-16d COMMON (3-1/2"x0.162")	AT EACH BEARING FACE NAIL	HANNAH CHRISTINE JONES
BAND OR RIM JOIST TO JOIST	3-16d COMMON (3-1/2"x0.162") OR 4-10d BOX (3"x0.128") OR 4-3"x0.131" NAILS OR 4 3"x14 GA. STAPLES, 7/16" CROWN	END NAIL	PE-2023046346 93/20/2024 ONAL



EVERSTEAD

3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

EVERSTEAD.COM (816)399-4901

MAN DR 0, 64083

**S550** 

**FASTENING** 

**SCHEDULE** 

REVISIONS

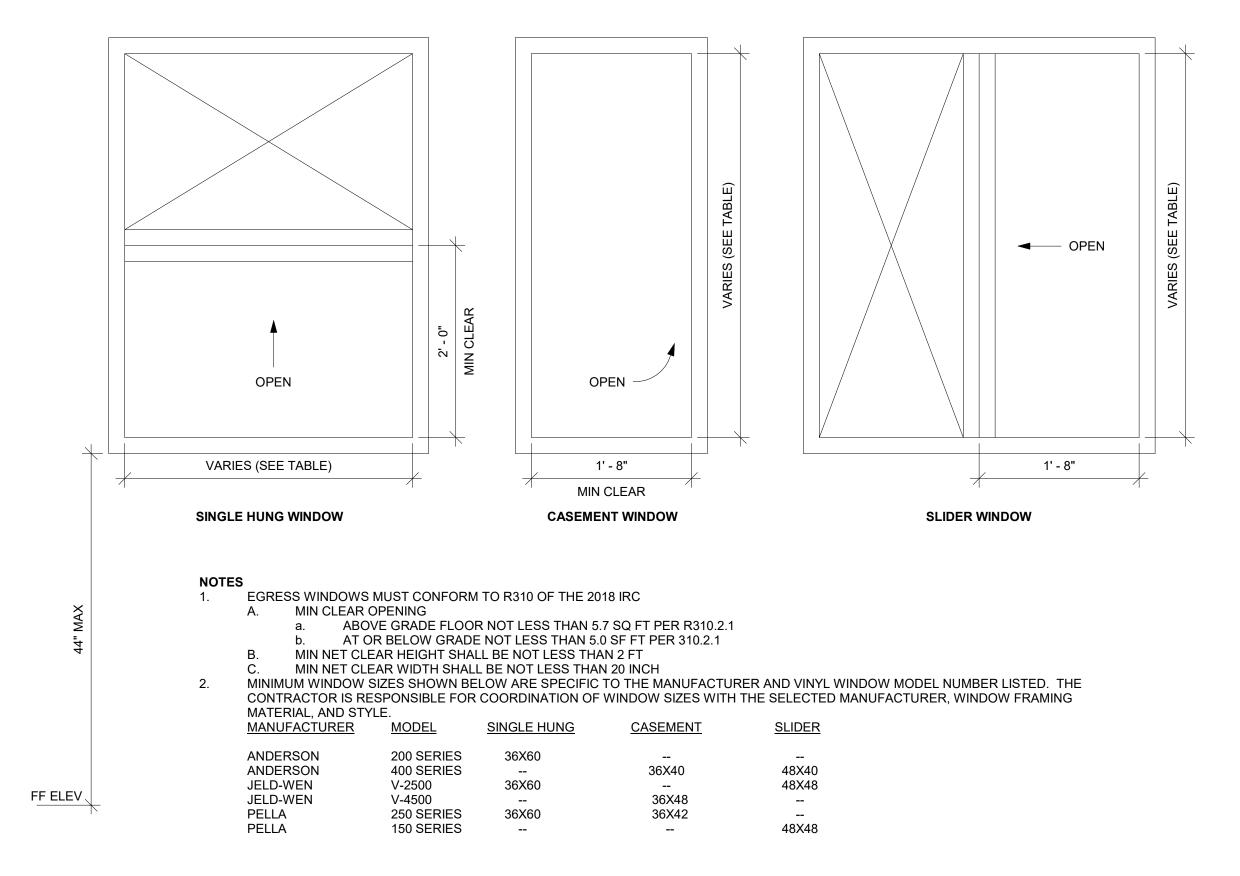
3/19/2024 4:04:34 PM 1/4" = 1'-0"

03/26/2024

ROW SPACING 1-5/8 MIN. 5 MAX 1-5/8 MIN 5 MAX

LAN REVIEW 03/26/2024

# WINDOW EGRESS (NTS)



ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

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

CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND DIMENSIONS CRITICAL FOR CONSTRUCTION OF NEW WORK.

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.

4'-9"

7'-6"

9'-3"

5'-11"

DIMENSIONAL LUMBER SHALL BE MINIMUM DOUGLAS FIR LARCH NO. 2.

STEEL POST COLUMNS SHALL BE MINIMUM SCHEDULE 40, Fy=35KSI.

MEANS AND METHODS OF CONTRUCTION ARE OUT OF SCOPE OF THE DESIGN PROVIDED.

TEMPORARY SUPPORTS SHALL BE INSTALLED BEFORE REMOVAL OF LOAD BEARING STRUCTURES.

ASSUMED SOIL MINIMUM BEARING CAPACITY 1500 PSF.

LVL BEAMS SHALL HAVE MINIMUM 2.0E AND 3100Fb

PER TABLE R602.7(1)

MINIMUM HEADERS

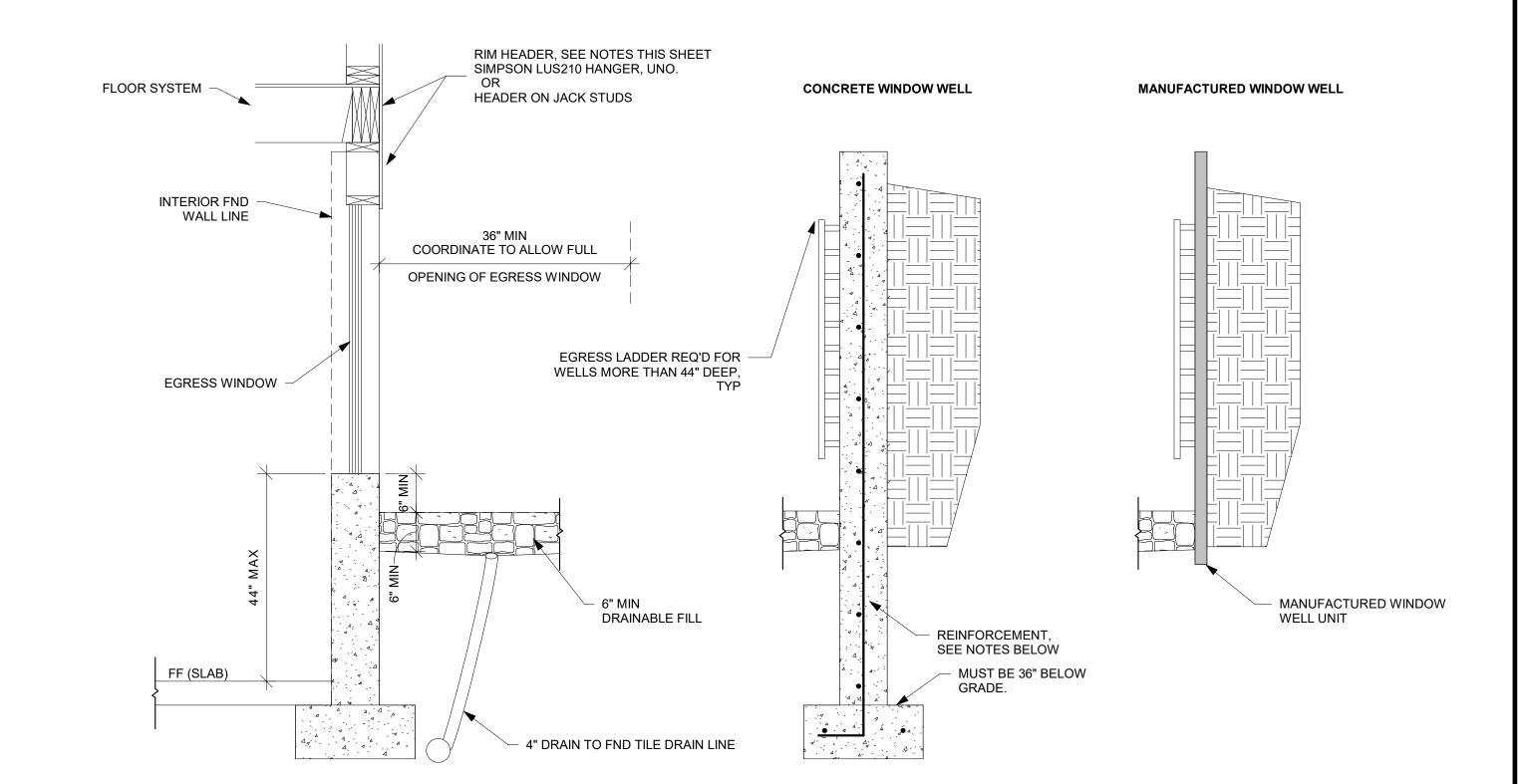
HEADER (2) 2X10

(3) 2X10 (2) 2X12

(3) 2X12

(2) 1.75X9.25 LVL

(2) 1.75X11.25 LVL



# SECTION

CONCRETE WINDOW WELL

MANUFACTURED WINDOW WELL

INTALLED WITH NEW FOUNDATION

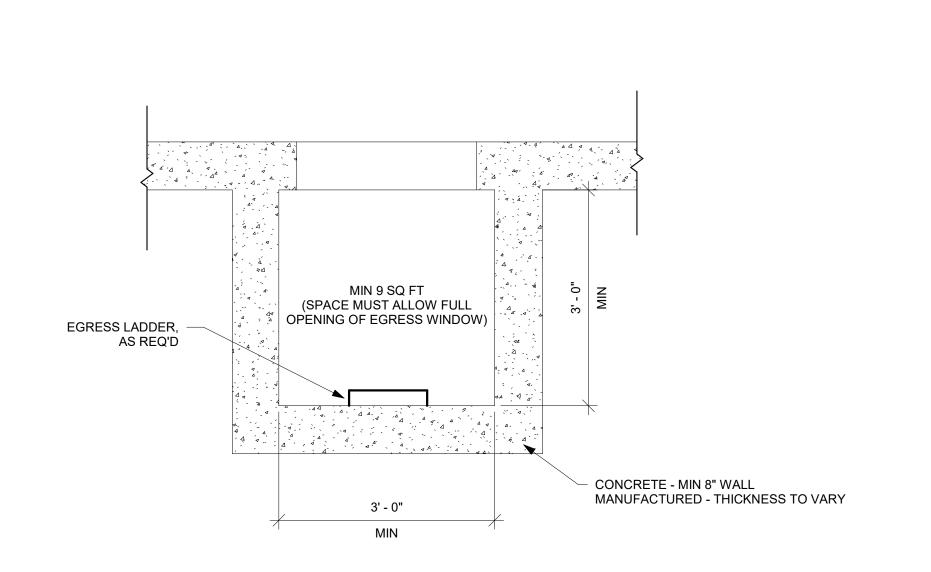
REINFORCEMENT

B. INSTALLED TO EXISTING FOUNDATION a. REINFORCEMENT

#4 BAR @ 12" OC EW IN WALLS

A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS

(2) #4 BAR CONT IN WALL FTG.



WINDOW WELL MUST MEET REQUIREMENT IN R310.2.6 OF THE IRC AND LOCALLY ADOPTED CODE

POUR WINDOW WELL MONOLITHICALLY WITH ADJACENT FND WALL.

COORDINATE DEPTH OF WELL WITH WINDOW AND MANUFACTURER REQUIREMENTS.

DRILL AND EXPOY HOR BAR INTO EX FND, MIN 6" EMBEDMENT INTO EX FND WALL.

b. SEAL WHERE NEW CONCRETE IS POURED AGAINST EX FND WITH MASTIC STRIPS OR OTHER WATER STOP MATERIAL.

MATCH ADJACENT WALL REINFORCEMENT, SEE PLANS

PLAN

WINDOW WELL FOR EGRESS (NTS)

REVISIONS

HANNAH CHRISTINE

NUMBER NUMBER PE-2023046346

EVERSTEAD 3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

EVERSTEAD.COM (816)399-4901

**S560** 3/19/2024 4:04:34 PM As indicated

**EGRESS** 

**WINDOWS** 

SCALE