

GRADE IS APPROXIMATE AND SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY SITE CONDITIONS.



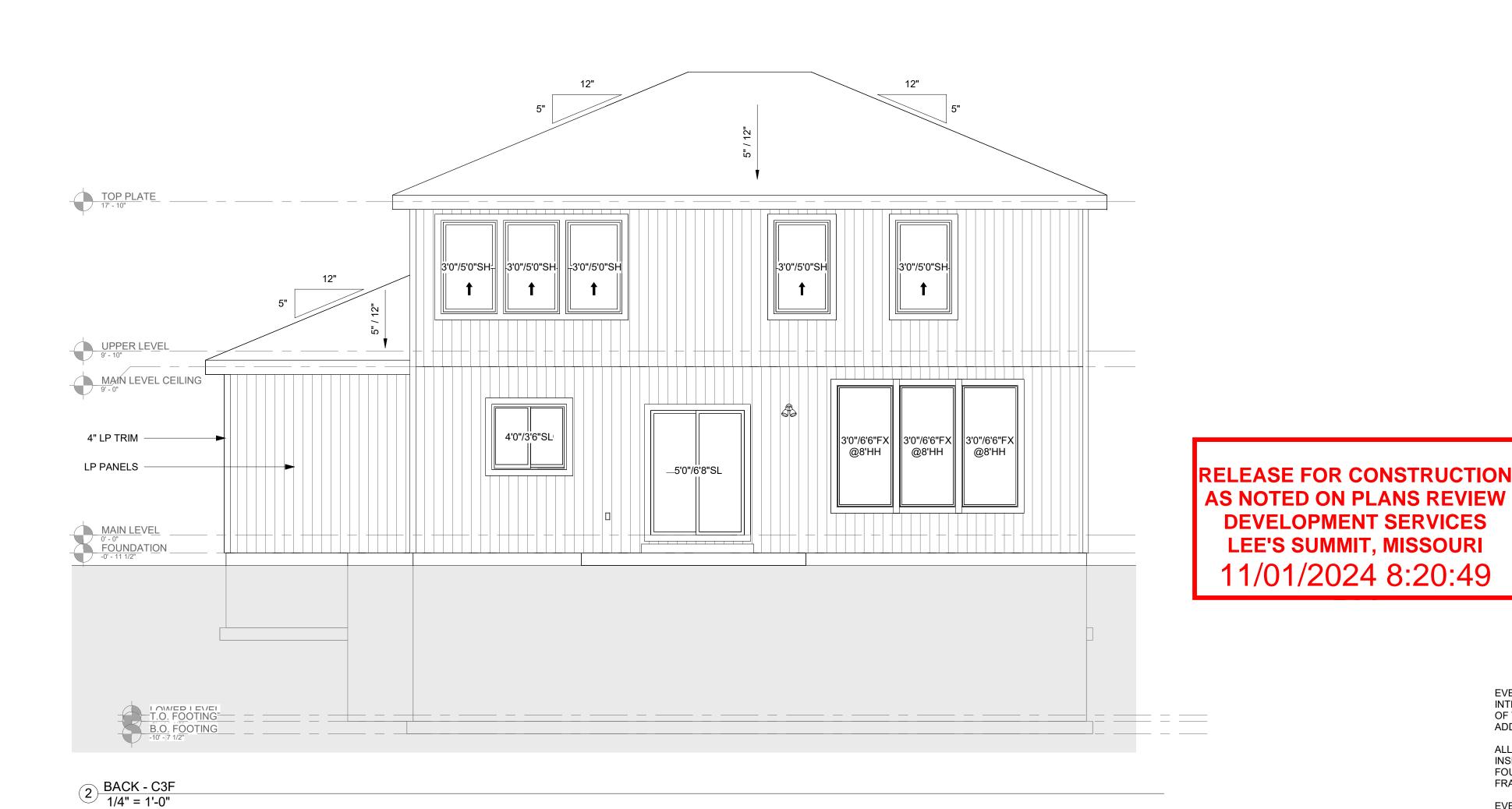


TABLE OF CONTENTS SHEET NUMBER SHEET NAME G000 COVER LOWER LEVEL/ FOUNDATION PLAN MAIN LEVEL PLAN UPPER LEVEL PLAN LIGHTING/OUTLET LOCATIONS G105 ROOF PLAN G200 ELEVATIONS STRUCTURAL GENERAL NOTES S100 FOUNDATION PLAN S501 FOUNDATION DETAILS S503 GARAGE/SLAB DETAILS FRAMING STANDARDS DECK DETAILS S530 BRACING DETAILS FASTENING SCHEDULE EGRESS WINDOWS

BUILDING SQUARE FOOTAGE (SQF	Т)
MAIN LEVEL CONDITIONED SPACE TOTAL	921
UPPER LEVEL CONDITIONED SPACE TOTAL	1105
CONDITIONED SPACE TOTAL (SQ FT)	2026
LOWER LEVEL UNCONDITIONED SPACE TOTAL	898
GARAGE TOTAL	469
PORCHES AND DECKS TOTAL	74
UNCONDITIONED SPACE TOTAL (SQ FT)	1141

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

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

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HOMES
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(816)914-7128



EVERSTEAD 3741 NE TROON DRIVE, SUITE 200 LEE'S SUMMIT, MO 64064

EVERSTEAD.COM (816)399-4901

HIGHTOWN DR. MMIT, MO 64082 1913 LEE'S

REVISIONS

COVER

G000

10/23/2024 4:11:11 PM SCALE As indicated

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.

12'-0" WALL

- 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
- 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).

FOUNDATION	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" v 12" CONC ETC			

#4 BARS @6" O.C.

24" x 12" CONC. FTG.

W/ (3) #4 BARS CONT.

	ISOLATED FOOTINGS AND COLUMN PADS								
SYM	PIER PAD SIZE	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL	SCHEDULE 40 STEEL COLUMN MIN FY = 35 KSI						
A	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					
D	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					

	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

GENERAL PLAN NOTES

MARINE

- 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 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 12. ALL JOIST HANGERS TO BE SIMPSON LUS HANGERS UNO

INTERIOR LOAD BEARING WALL

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

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
- 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.

NAILED TO COMMON FRAMING OR BLOCKING WITH AN

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

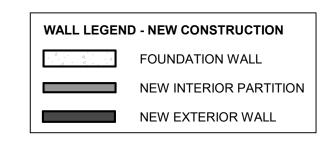
MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5: 55" - 8' TALL WALL HEIGHT

62" - 9' TALL WALL HEIGHT 69" - 10' TALL WALL HEIGHT

| BRACING PFH PER IRC R602.10.6.2

CONSTRUCTION NOTES - NEW CONSTRUCTION

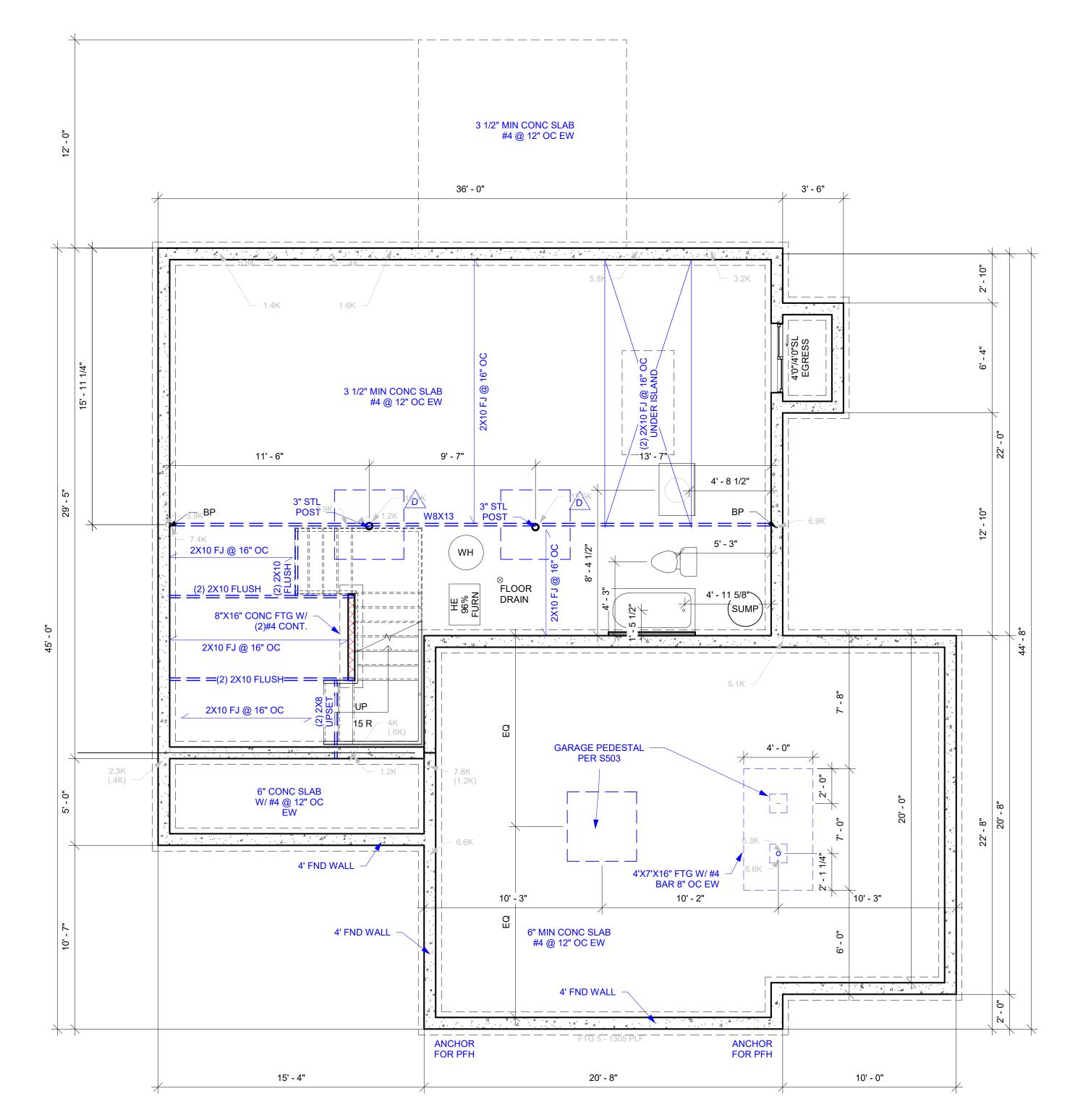
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- ALL STRUCTURAL BEAMS ARE MEASURED TO
- THE CENTER OF THE MEMBER. NEW DOORS AND WINDOWS ARE TAGGED IN
- INCHES ALL CRITICAL DIMENSIONS TO BE FIELD
- VERIFIED BY CONTRACTOR. STRUCTURAL BEAMS ARE SHOWN ON
- ARCHITECTURAL PLANS FOR REFERENCE ONLY. SEE 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.



LOWER LEVEL WINDOW SCHEDULE

4'0"/4'0"SL 7' - 0" **EGRESS**

Count Type Mark Head Height



PLAN VIEW - LOWER LEVEL 1 CRAFTSMAN FULL 3RD BAY

> 9'-0" FOUNDATION WALL EXCEPT AT STEP DOWNS TO BE LOCATED IN THE FIELD

UNBALANCED FILL NOT TO EXCEED 4'-0" AT UNRESTRAINED WALLS

ALL FOOTING TO BE BELOW FROST LINE (3'-0")

AS REQUIRED PER SITE

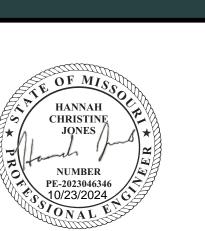
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DR. HTO m s 19 LEE

LOWER LEVEL/ **FOUNDATION PLAN**

G101

SCALE

REVISIONS

10/23<mark>7967464F91392NPTM</mark>U AS NOTED ON PLANS RE DEVEASHINDICATERON 11/01/2024 8:20:49

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 THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT
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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

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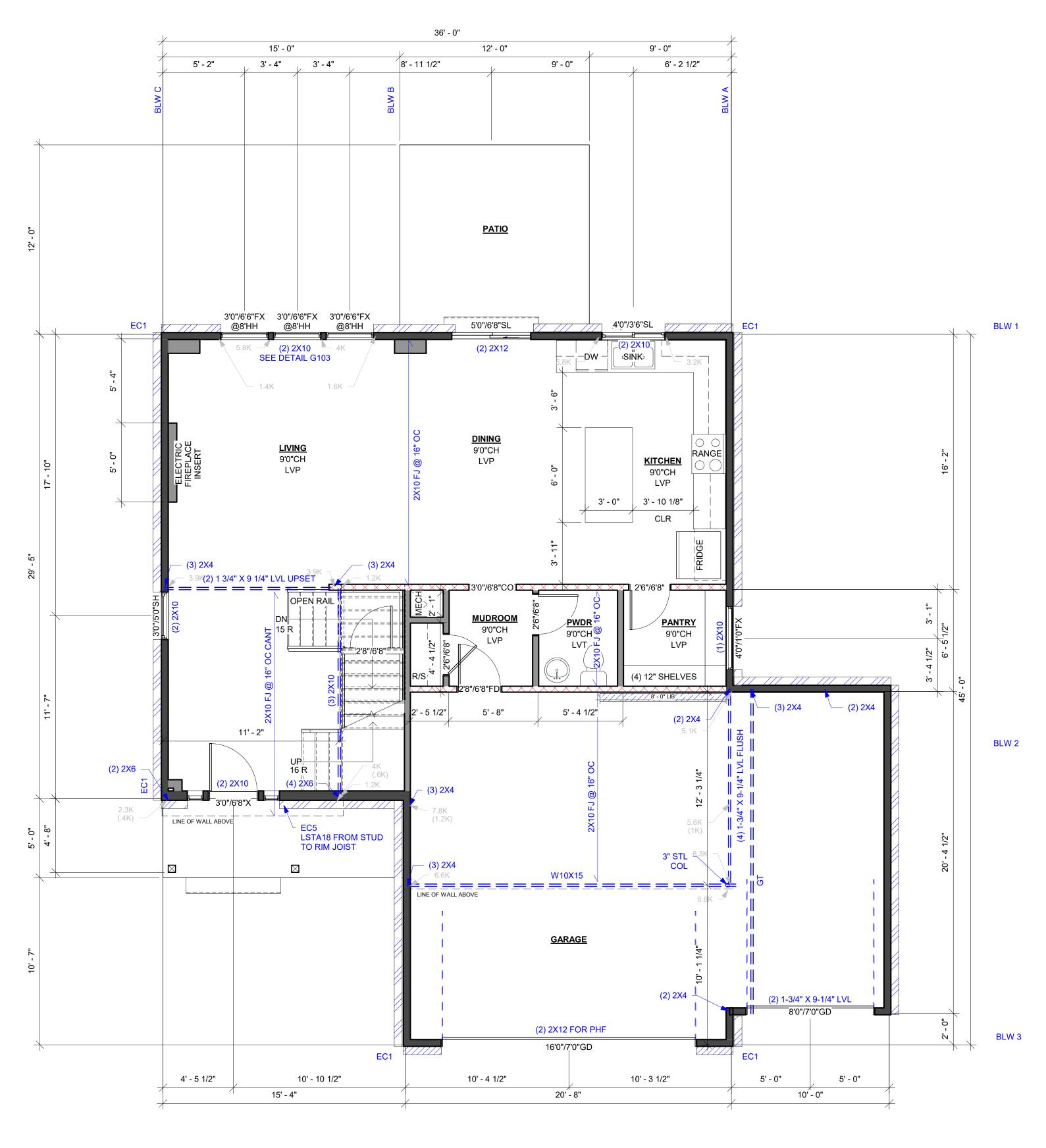
Count	Type Mark	Head Height
2	1'0"/6'8"FX	6' - 8"
1	3'0"/5'0"SH	7' - 0"
3	3'0"/6'6"FX @8'HH	8' - 0"
1	4'0"/1'0"FX	7' - 0"
1	4'0"/3'6"SL	7' - 0"

MAIN LEVEL WINDOW SCHEDULE

MAII	MAIN LEVEL DOOR SCHEDULE								
Count	Type Mark	Comments							
3	2'6"/6'8"	<varies></varies>							
1	2'8"/6'8"	Basement Stairs							
1	2'8"/6'8"FD	Garage Entry							
1	3'0"/6'8"CO	Casements							
1	3'0"/6'8"X	Front Entry							
1	5'0"/6'8"SL	Dining Door							
1	16'0"/7'0"GD	Garage Door							

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

IR	RC TABLE N1102.1.	2 (R402.1.2) II	NSULATION AND F	ENESTRATION	REQUIREM	ENTS BY COMPO	ONENT (PAR	TIAL) AND ENERG	GY CONSERVATION	ON CODE COMPLIA	NCE
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	DUCTWOR R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	49	20 OR 13+5H	19	10/13	10, 2 FT	10/13	8



PLAN VIEW - MAIN LEVEL STRUC 3RD 1 BAY GARAGE CRAFTSMAN 1/4" = 1'-0"

MAIN LEVEL PLAN

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ENGINEERING & DESIGN

NUMBER

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AVITAL HOMES

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G102

SCALE

REVISIONS

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GENERAL PLAN NOTES

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- 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

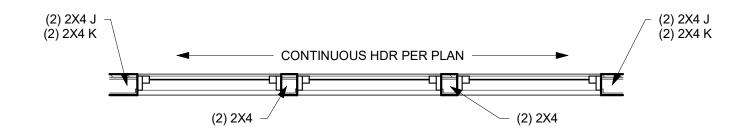
BRACING CS-WSP PER IRC R602.10 BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS

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



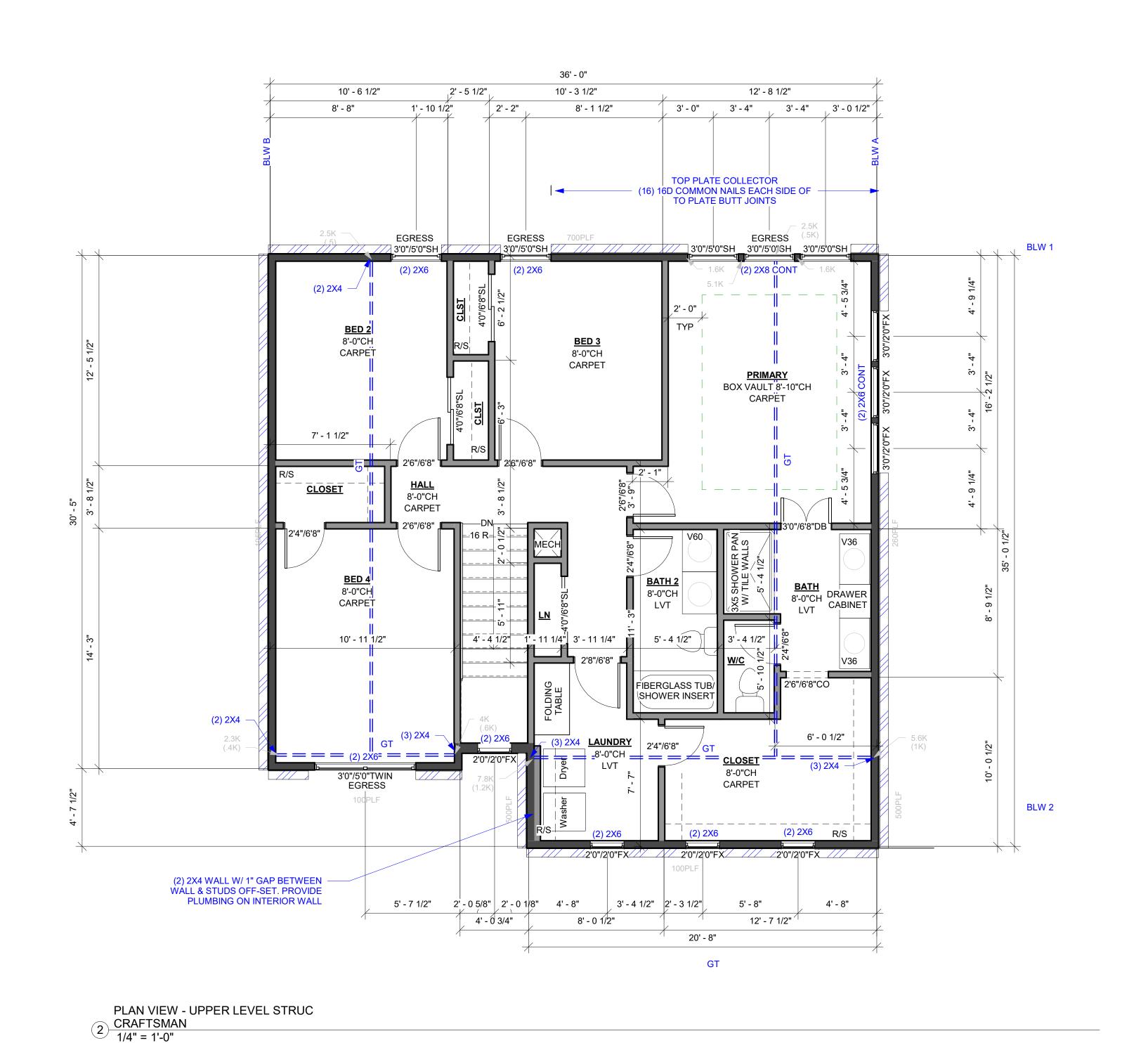
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- ALL TOILETS TO HAVE 21" CLEARANCE AT
- FRONT OF TOILET.
- ALL SINKS TO HAVE 21" CLEARANCE AT FRONT OF SINK.
- ALL SHOWERS TO HAVE 24" CLEARANCE AT OPENING.
- UPPER LEVEL WINDOW SCHEDULE Head Height Type Mark Count 7' - 0" 3'0"/2'0"FX |3'0"/5'0"TWIN |7' - 0"

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

WALL LEGEND - NEW CONSTRUCTION FOUNDATION WALL 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							NCE				
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	DUCTWORI R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	49	20 OR 13+5H	19	10/13	10, 2 FT	10/13	8



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ALL PATHS LEAD HOME

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ENGINEERING & DESIGN

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HTO

9. E

AVITAL HOMES

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UPPER LEVEL PLAN

G103

SCALE

10/23<mark>7/9/67/464F@R 99/09TM</mark>U AS NOTED ON PLANS RE DEVE**ASRIMENICASE** 11/01/2024 8:20:49

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PLAN VIEW - LOWER LEVEL

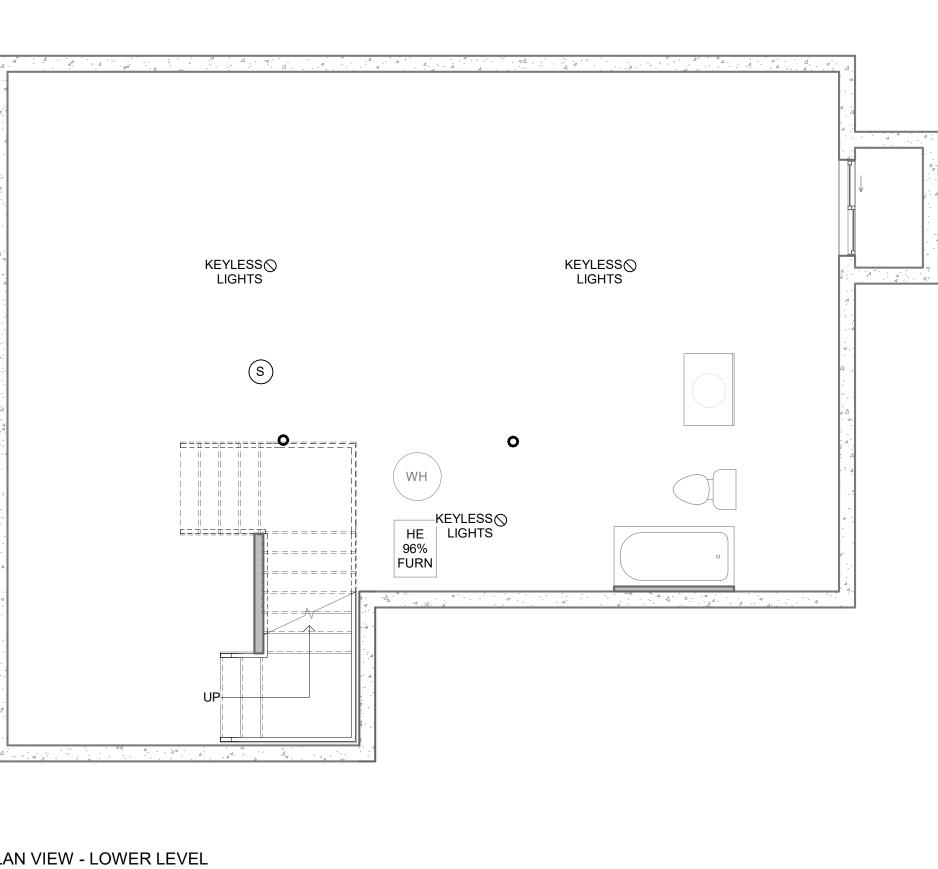
UNFINISHED LIGHTING/OUTLET

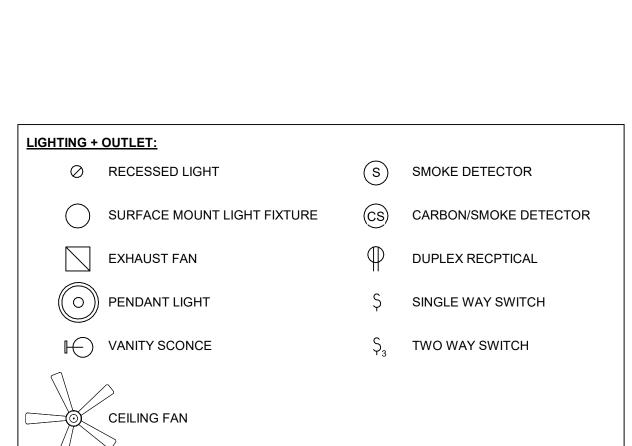
1/4" = 1'-0"

PLAN VIEW - UPPER LEVEL

LIGHTING/OUTLET

1/4" = 1'-0"





KEYLESS LIGHTS

KEYLESS LIGHTS

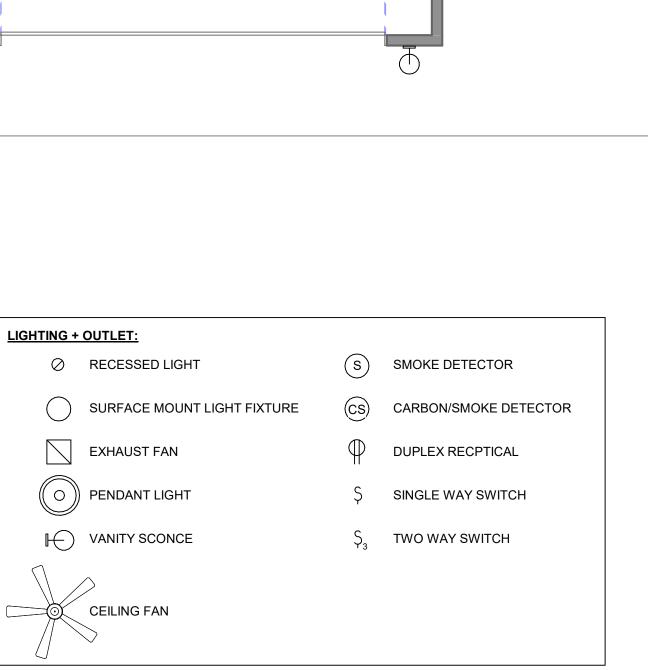
COACH LIGHT_

KEYLESS LIGHTS

FLOOD LIGHT

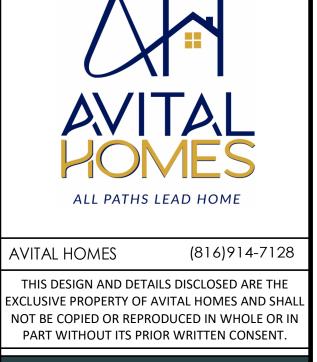
- ADJUST RECEPTICLE LOCATED BASED ON FIREPLACE OPTION

PLAN VIEW - MAIN LEVEL
2 LIGHTING/OUTLET 3RD BAY
1/4" = 1'-0"



EVERSTEAD 3741 NE TROON DRIVE, SUITE 200 LEE'S SUMMIT, MO 64064 EVERSTEAD.COM (816)399-4901

EVERSTEAD ENGINEERING & DESIGN



G104 10/23/5/5/ASE/FOR GONDTOUCTI AS NOTED ON PLANS REVI DEVELD/4/IENT/SEQVICE

11/01/2024 8:20:49

LIGHTING/OUTLET

LOCATIONS

REVISIONS

- TRUSS FRAMED ROOF NOTES

 1. ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.
- DESIGNED FOR LIGHT ROOF COVERING, UNO. SEE G000 FOR MINIMUM LOADING. ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS SHALL BE MIN. (2) #2 2X10 UNO. CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS SHOWN AS NON-LOAD BEARING ON APPROVED POINTS.
- 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. GIRDER TRUSSES MUST HAVE LOAD CARRIED DOWN TO THE FOUNDATION OR LOAD
- SUPPORTING MEMBER. STUD PACK / COLUMN SHOWN ON PLANS. 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).
- 12. EVERSTEAD STRUCTURAL SCOPE ENDS AT TOP PLATE FOR ROOF TRUSSES.
- TRUSS DIRECTION

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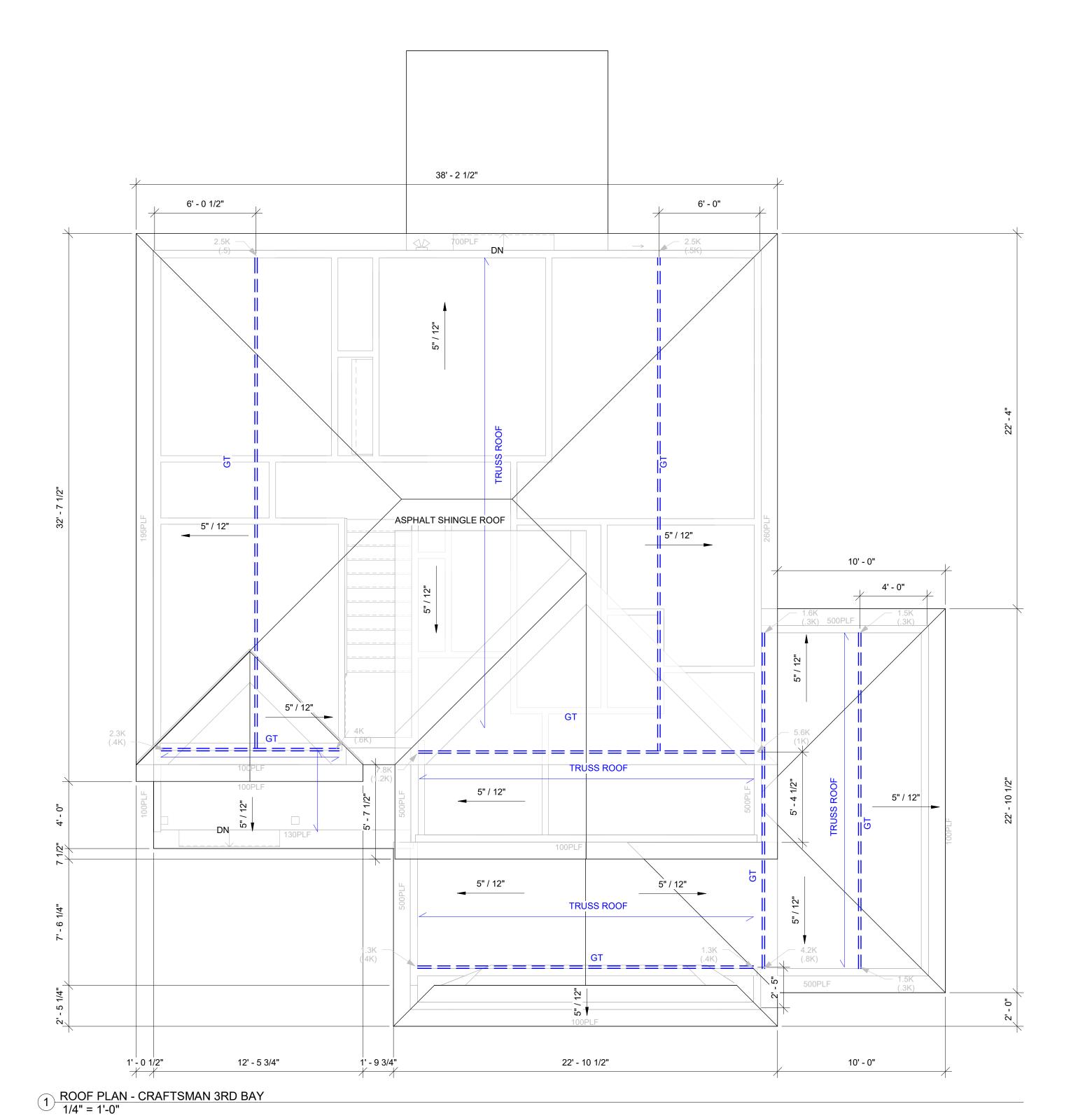
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INTERIOR LOAD BEARING WALL

GIRDER TRUSS LOCATION

TRUSS SCREWS

- TRUSS SCREWS MAY BE USED INSTEAD OF THE
- FASTENING NOTED IN TABLE R602.3(1)
- TRUSS SCREWS MUST BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- BASIS OF DESIGN SHOWN ON PLANS: A. LENGTH: 6"
- FASTENED THROUGH THE BOTTOM SIDE OF A # 2 DOUGLAS FIR - LARCH DOUBLE TOP PLATE
 - INTO THE BEARING END OF A TRUSS a. (1) 6" SCREW - MAX 835 LBS UPLIFT WHEN INSTALLED IN THE CENTER OF
 - THE TOP PLATE ON A MAX 20 DEG. ANGLE FROM VERTICAL
 - b. (2) 6" SCREWS MAX 1195 LBS UPLIFT WHEN BOTH SCREWS ARE INSTALLED VERTIALLY INTO TRUSS.
- 4. TRUSS BEARING WITH UPLIFT THAT EXCEEDS THE TRUSS SCREW CAPACITY LISTED ABOVE MUST HAVE ADDITIONAL FASTENING, AS SHOWN ON PLAN.



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ENGINEERING & DESIGN

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NUMBER

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ROOF PLAN

G105

REVISIONS

3'0"/2'0"FX 3'0"/2'0"FX 3'0"/2'0"FX UPPER LEVEL 5" MAIN LEVEL CEILING 4'0"/1'0"FX 2 LEFT - C3F 1/4" = 1'-0" MAIN LEVEL CEILING T.O. FOOTING

B.O. FOOTING

-10' - 7 1/2" 1 RIGHT 1/4" = 1'-0"

ELEVATION NOTES

GRADE IS APPROXIMATE AND SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY SITE CONDITIONS.

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ELEVATIONS

G200

REVISIONS

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

<u>DEAD</u>	
ROOF	

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
- 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

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

- 3/4 IN CLR SLABS, WALLS, JOISTS 1.5 IN CLR BEAMS, COLUMNS
- 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 MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c) TYPE OR LOCATION OF CONCRETE FOR SEVER WEATHERING POTENTIAL CONSTRUCTION BASEMENT WALLS, FOUNDATIONS AND OTHER CONCRETE NOT 2,500 EXPOSED TO THE WEATHER BASEMENT SLABS AND INTERIOR SLABS ON 2,500 GRADE, EXCEPT GARAGE FLOOR SLABS BASEMENT WALLS, FOUNDATION WALLS, EXTERIOR WALLS AND OTHER VERTICAL CONCRETE WORK 3,000 EXPOSED TO THE WEATHER PORCHES, CARPORT SLABS AND STEPS EXPOSED TO THE WEATHER, AND GARAGE 3,500 FLOOR SLABS SUSPENDED SLABS 4,000

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

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)
- 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
- 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

C2, LP-22, AND IRC SECTION R317. ALL LUMBER < 8" ABOVE THE FINISHED GRADE SHALL BE

ENGINEERED LUMBER MIIMUM DESIGN REQUIREMENTS						
	F _b (PSI)	E (PSI)	F _v (PSI)			
LVL	3100	1.9X10 ⁶	285			
DOUGLAS FIR-LARCH	900	1.6X10 ⁶	180			
GLU-LAM	2400	1.8X10 ⁶	230			

ASTM A653 TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. FOR

D.2 STRUCTURAL STEEL

STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

ASTM A500 ($F_Y = 46 \text{ KSI}$)

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

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

ASTM A36 ($F_Y = 36 \text{ KSI}$) ASTM A992 (F_Y = 50 KSI)

- 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

EXCEPTIONS, REFER TO R317.3.1.

- 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.
- 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.

<u>GLAZING</u>

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

GLASS IN STORM DOORS: INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A

GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN A 60 IN HORIZONTAL

OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS

- 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
- 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.
- 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

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

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 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).

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

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.

- (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.

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

- BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- 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 CFM AS REQUIRED PER IRC M1503.6. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER

EX

FV

FJ

FTG

FND

STL

TYP

IRC M1601.6 ENERGY CONSERVATION. **ABBREVIATIONS**

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

ABOVE FINISHED FLOOR

COL COLUMN CONC CONCRETE CONCRETE MASONRY UNIT CXN CONNECTION CONT CONTINUOUS DOUBLE

DIAMETER DIA EW **EACH WAY** EFF **EFFECTIVE** FI EVATION END CONDITION

ENGINEER OF RECORD FΩ FQUAL **EQUIV EQUIVALENT** EFP EQUIVALENT FLUID PRESSURE

HDR HEADER HORZ HORIZONTAL MAX MAXIMUM MINIMUM MIN NTS NOT TO SCALE OC ON CENTER PED PEDESTAL PCF POUNDS PER CUBIC FOOT POUNDS PER LINEAR FOOT POUNDS PER SQUARE FOOT PSI POUNDS PER SQURE INCH PRESSURE TREATED PT RAF RAFTER STRUCTURAL INSULATED PANEL SIP

STEEL

VERT VERTICAL

TYPICAL

UNO UNLESS NOTED OTHERWISE

EXISTING

FOOTING

FIELD VERIFY

FLOOR JOIST

FOUNDATION

FINISHED FLOOR

SCALE

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HANNAH CHRISTINE

EVERSTEAD 3741 NE TROON DRIVE, SUITE 200 LEE'S SUMMIT, MO 64064 everstead.com (816)399-490°

NUMBER

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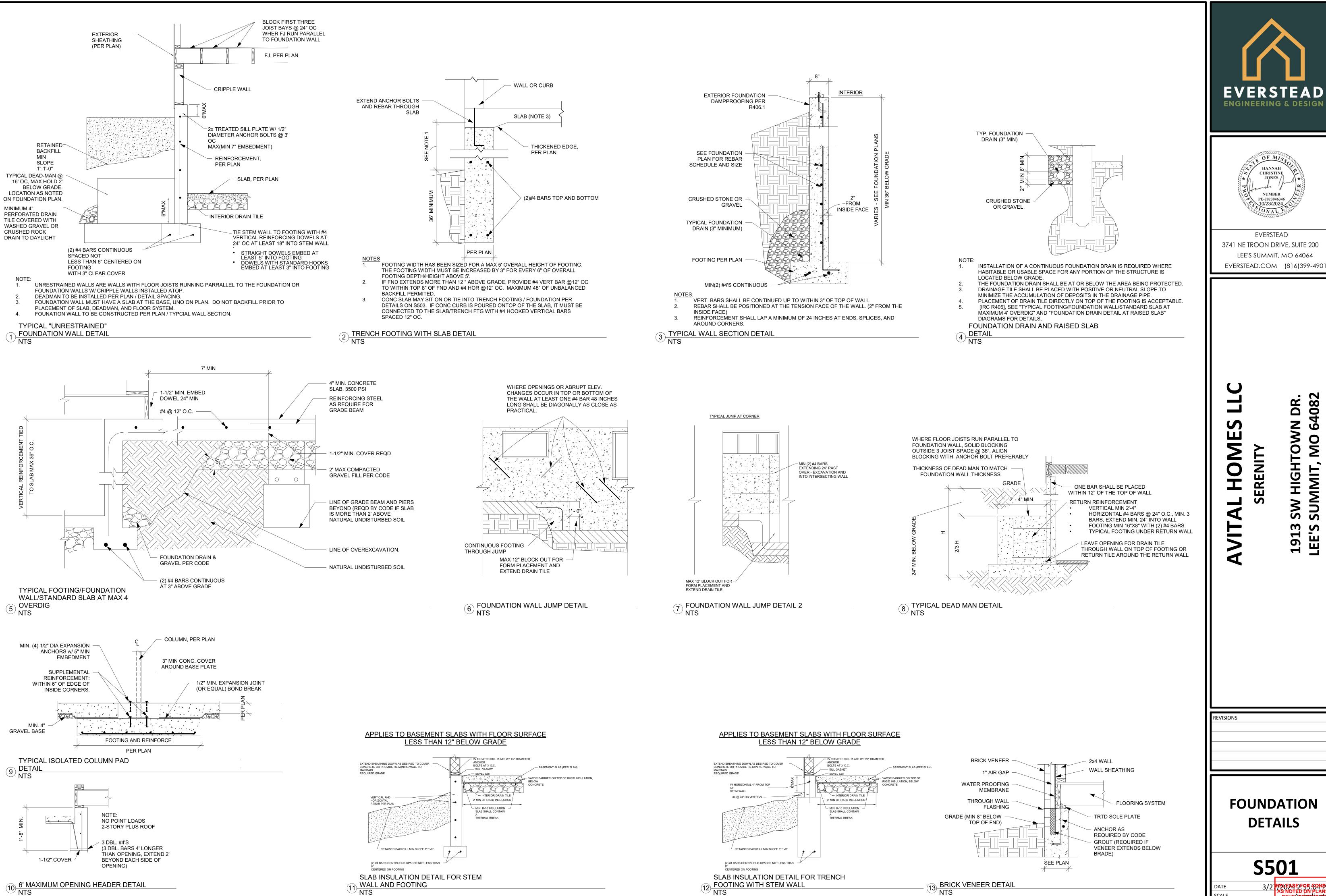
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HANNAH CHRISTINE

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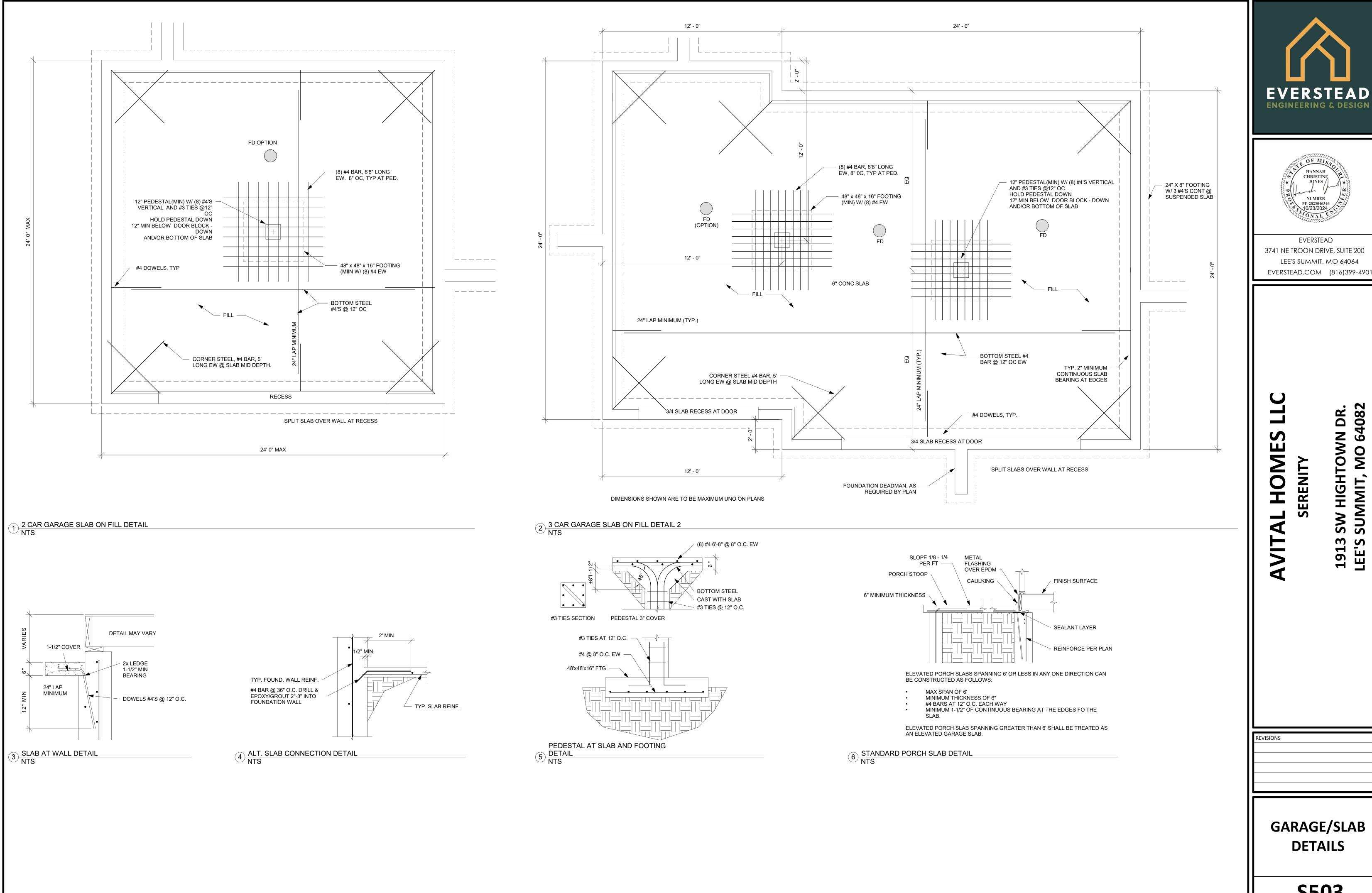
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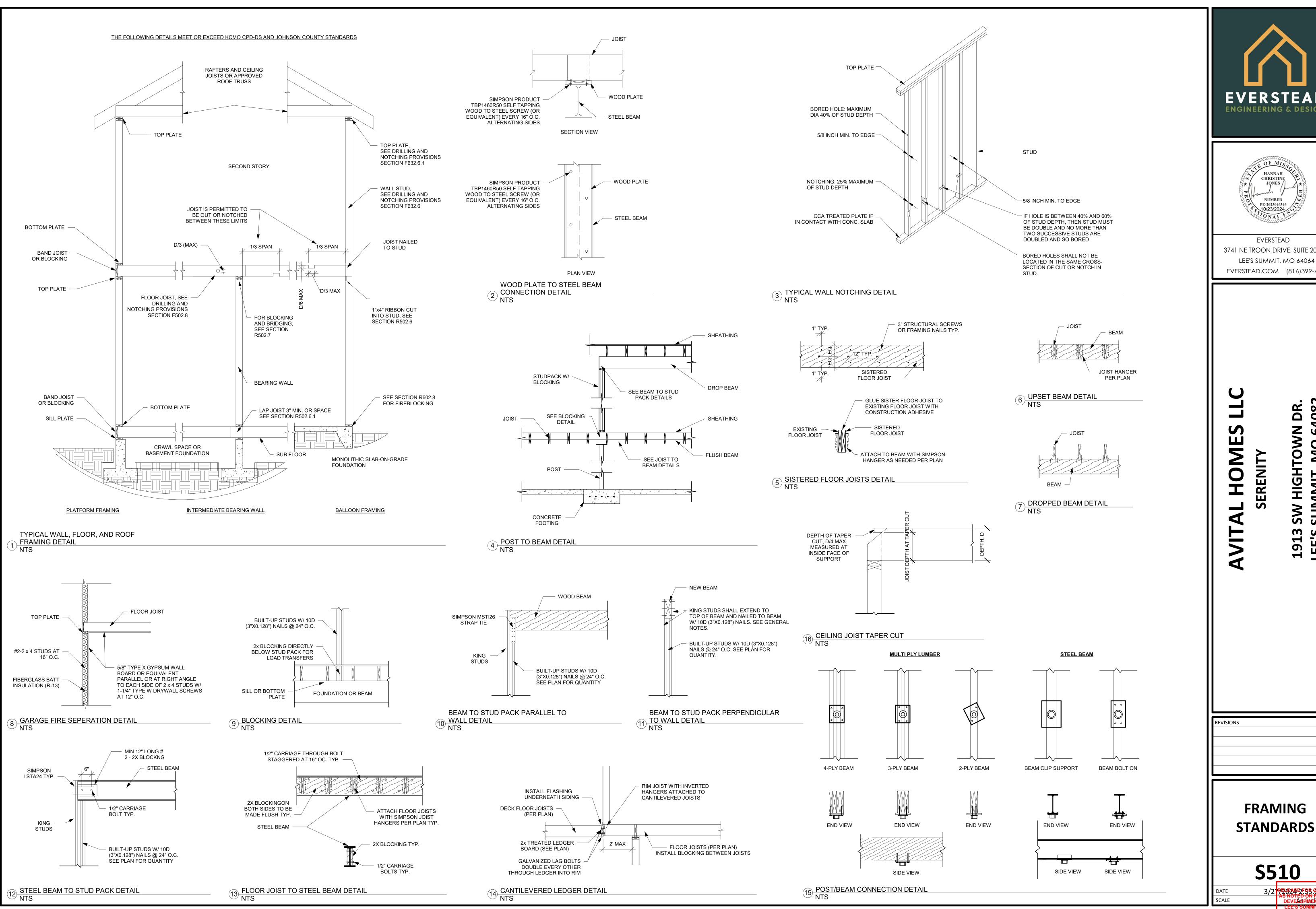
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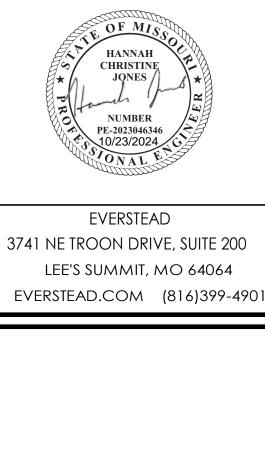
GARAGE/SLAB DETAILS

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SCALE

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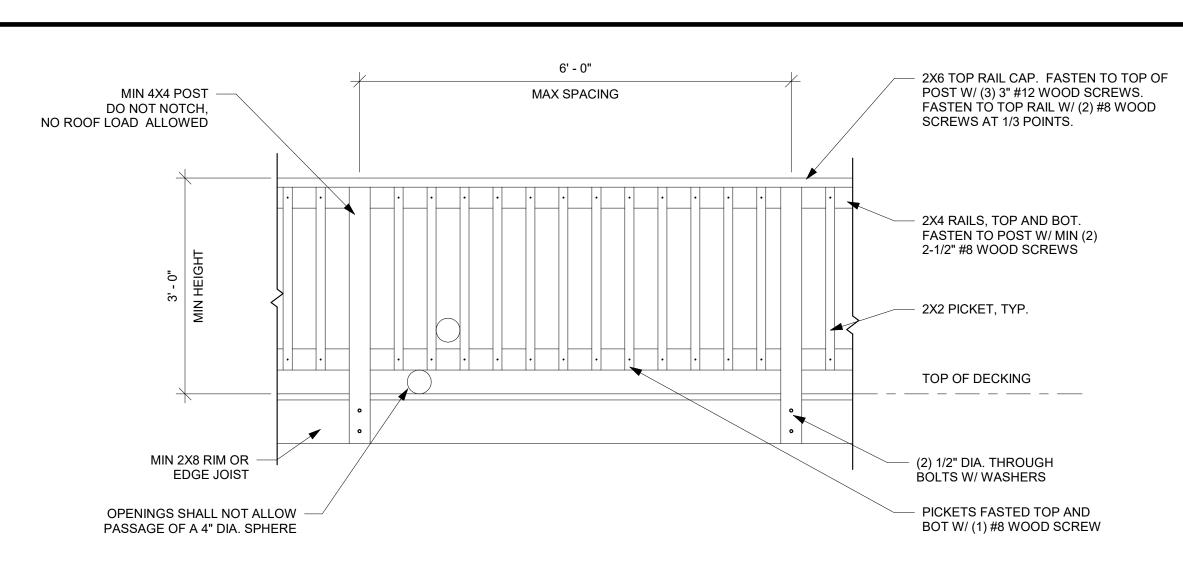
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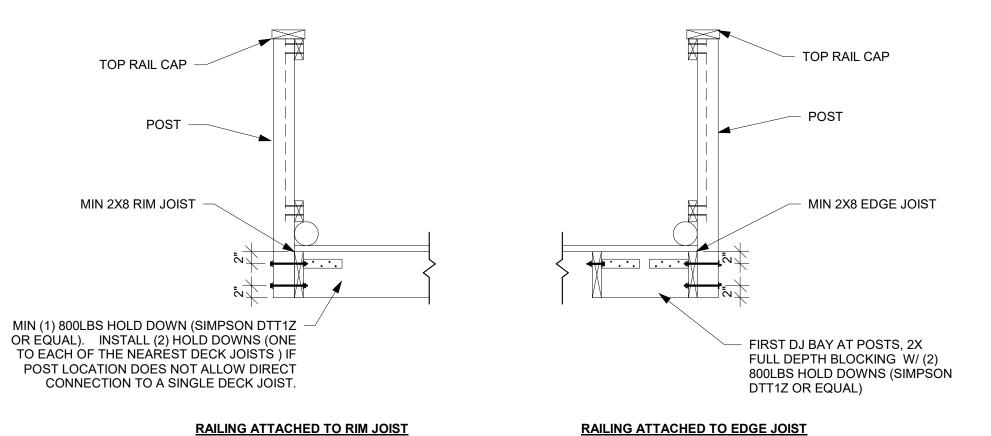
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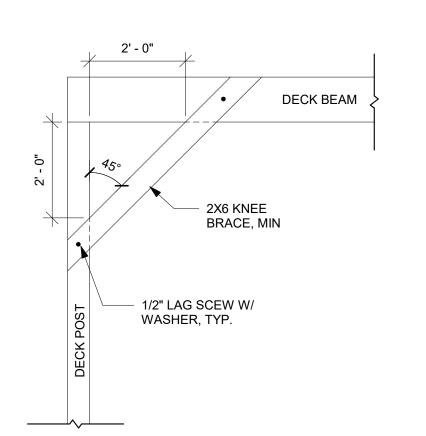
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DECK RAILING DETAIL DRAWN TO MEET THE INTENT OF R312 OF THE 2018 IRC AND A CONCENTRATED LOAD OF 200 LBS PER 1607.8.1 OF THE 2018 IBC.

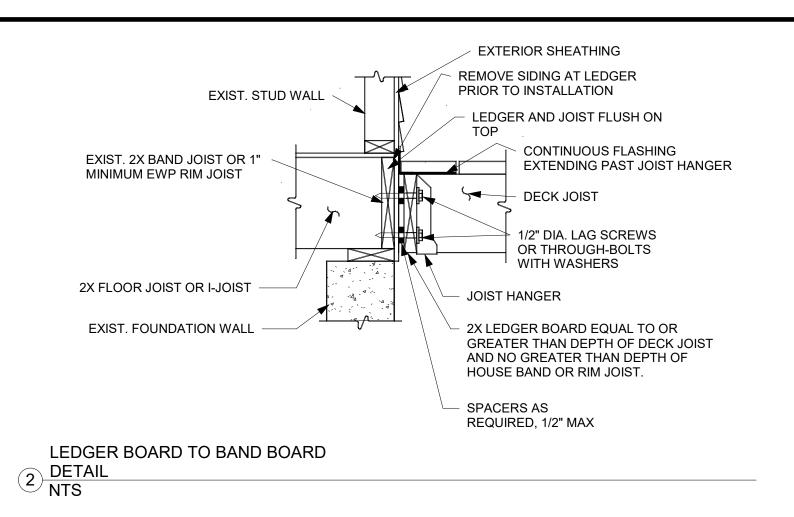


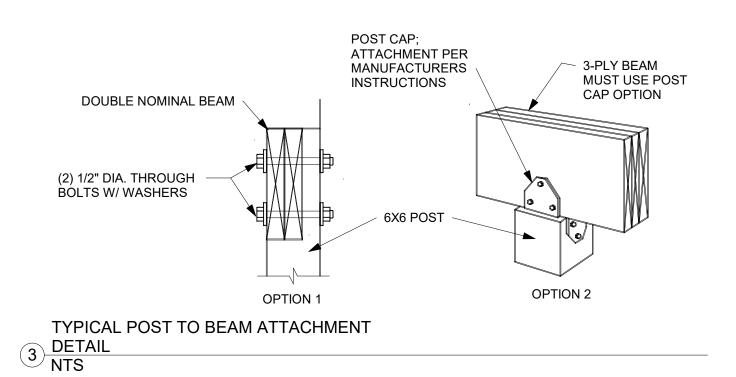
DECK RAILING NTS



KNEE BRACING DETAIL

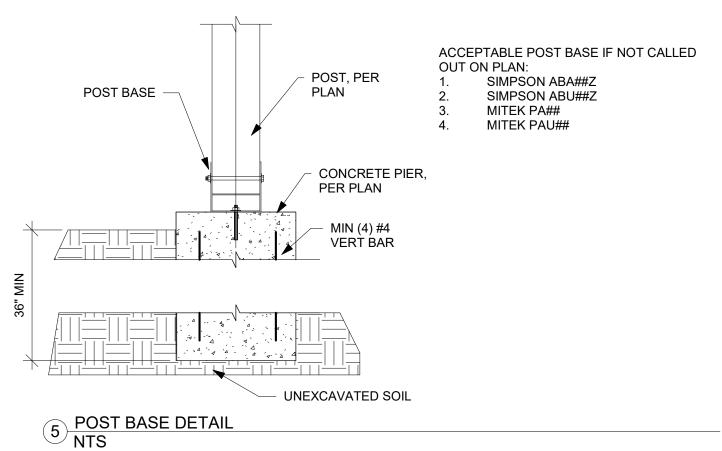
TABLE R507/2 FASTENER SPACING F	OR A SOUTHERN P		ECK LEDGER 2" NC 40PSF, DEAD LOAD = 10 P		'N SPRUCE-PINE-FI	R BAND JOIST (DEC	K LIVE LOAD =
JOIST SPAN	6' AND LESS	6'1 TO 8'	8'1 TO 10'	10'1 TO 12'	12'1 TO 14'	14'1 TO 16'	16'1 TO 18'
CONNECTION DETAILS	ON CENTER SPACING OF FASTENERS						
1/2" DIAMETER LAG SCREW WITH 15/32" MAX SHEATHING	30	23	18	15	13	11	10
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING	36	36	34	29	24	21	19
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED WASHERS	36	36	29	24	21	18	16





- STAGGER FASTENERS IN TWO ROWS LEDGER LAG SCREW OR BOLT D = 5.5" MIN. FOR 2x8* D = 6.5" MIN. FOR 2x10 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

4 DECK LEDGER DIMENSION DETAIL NTS



ENGINEERING & DESIGN

HANNAH CHRISTINE

NUMBER PE-2023046346 10/23/2024

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LEE'S SUMMIT, MO 64064 EVERSTEAD.COM (816)399-4901

/N DR. 64082

HTOWN T, MO 64

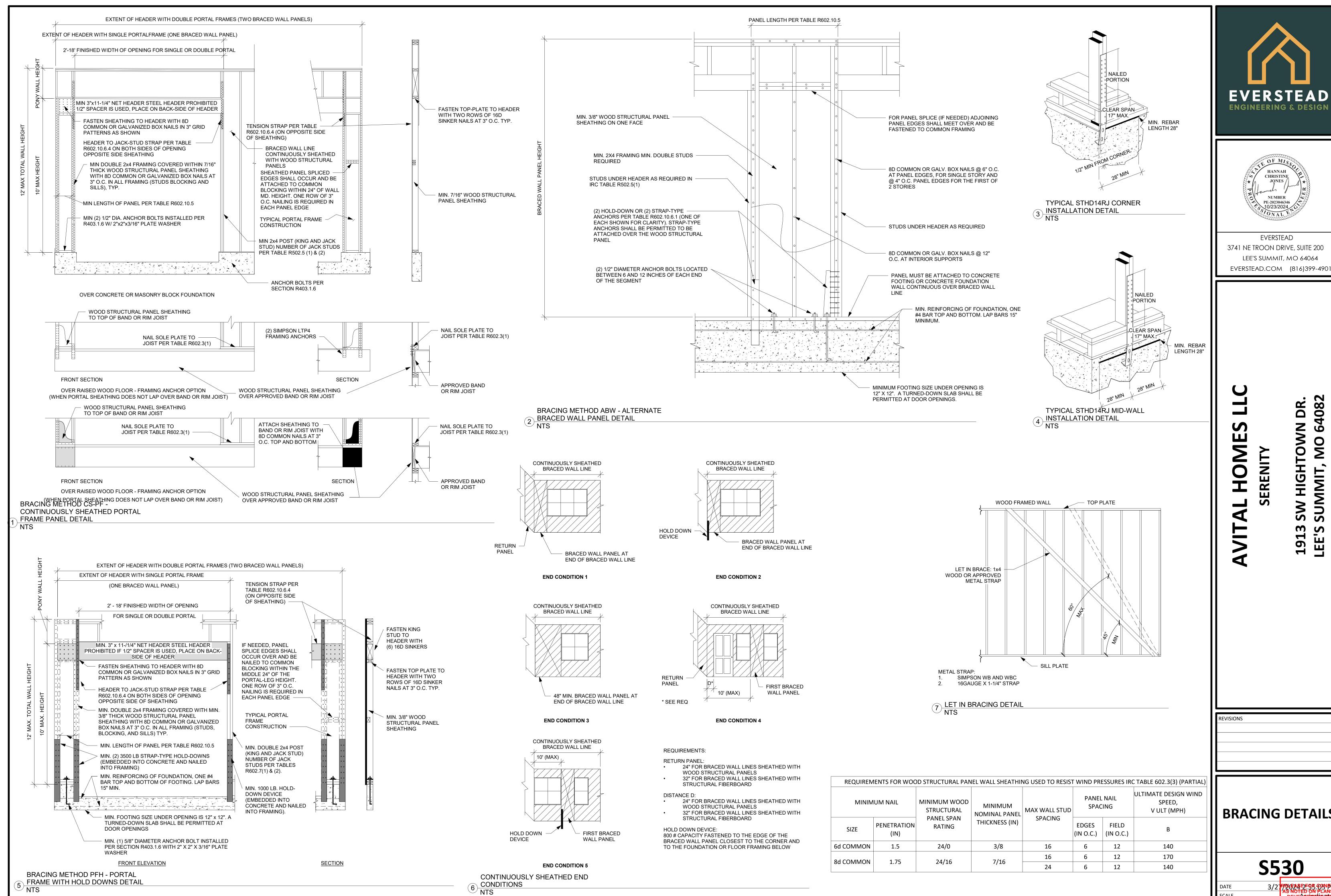
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DECK DETAILS

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DATE SCALE





HANNAH

CHRISTINE

NUMBER

PE-2023046346

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BRACING DETAILS

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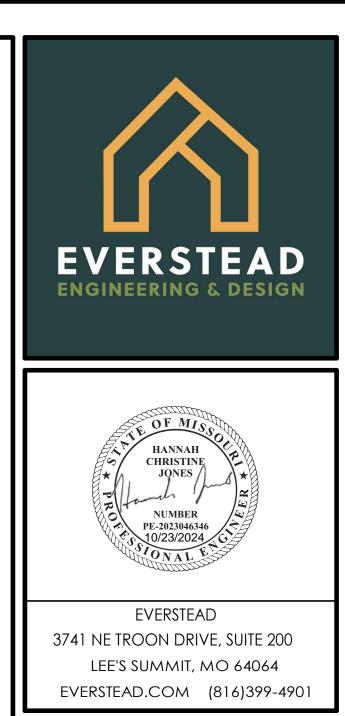
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	BRACING METHODS TABLE R602.	10.4 (PARTIAL)		
	MINIMUM	CONNECTION CRITERIA		
METHODS, MATERIAL	THICKNESS	CONNECTION C FASTENERS 6d COMMON NAILS (2.0" x .113") W/ MINIMUM 1.5" PENETRATION 8d COMMON NAILS (2.5" x .131") W/ MINIMUM 1.75" PENETRATION SEE 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 L NG SIMPSON WB/WBC INSTALLED IN "X" 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"	SPACING	
WSP - WOOD STRUCTURAL PANEL AND CS-WSP CONTINUOUSLY SHEATHED	3/8" PANEL W/ MINIMUM 24/0 STRUCTURAL PANEL SPAN RATING		6" EDGES, 12" FIELD	
WOOD STRUCTURAL PANEL	7/16" PANEL W/ MINIMUM 24/16 STRUCTURAL PANEL SPAN RATING		6" EDGES, 12" FIELD	
PFH - PORTAL FRAME WITH HOLD-DOWNS	3/8"	SEE DETAIL ON THIS PAGE	SEE DETAIL ON THIS PAGE	
PFG - PORTAL FRAME AT GARAGE	3/8"	SEE IRC SECTION R602.10.6.3	SEE IRC SECTION R602.10.6.3	
LIB LET-IN-BRACING	1x4 WOOD OR APPROVED METAL		WOOD: PER STUD AND TOP AND BOTTOM PLATES	
	STRAPS AT 45 TO 60 DEGREE ANGLES FOR MAX 16" STUD SPACING	PAIRS OR IN OPPOSING "V" FASHION AND FASTENED W/ (2) 16d COMMON NAILS FOR PLATE AND (1) 8d	METAL: PER STUD AND TOP AND BOTTOM PLATES	
		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	FOR ALL BRACED WALL PANEL LOCATIONS: 7" EDGES (INCLUDING TOP AND BOTTOM PLATES) 7" FIELD	
GB-GYPSUM BOARD	1/2"	GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE W OR S PER TABLE		
		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)		

DESCRIPTION OF BUILDING MATERIALS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION OF FASTENERS	
	ROOF		
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 INTERSECTION WALL CORNERS	16d BOX (3-1/2"x0.135") OR 3"x0.131" NAIL	12" O.C. FACE NAIL	
(AT BRACED WALL PANELS)	16d COMMON (3-1/2"x0.162")	16" O.C. FACE NAIL	
BUILT-UP HEADER, TWO PIECES	16d COMMON (3-1/2"x0.162")	16" O.C. EACH EDGE FACE NAIL	
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	40" O C FACE NAU	
	3"x0.131" NAIL´ 8-16d COMMON (3-1/2"x0.162") OR 12-16d BOX (3-1/2"x0.135") OR	12" O.C. FACE NAIL FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP	
DOUBLE TOP PLATE SPLICE	12-10d BOX (3"x0.128") OR 12-3"x0.131" NAILS	SPLICE LENGTH EACH SIDE OF END JOINT)	
BOTTOM 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	
BOTTOM 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	
	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	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		
EACH BEARING	WIDER THAN 1"x8":	FACE NAIL	

DESCRIPTION OF BUILDING MATERIALS	NUMBER AND TYPE OF FASTENER		ND LOCATION STENERS
	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 EN	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)
F	LLS, SUBFLOOR, ROOF AND INTERIOR WALL SP PARTICLEBOARD WALL SHEATHING TO FRAMIN OOD STRUCTURAL PANEL EXTERIOR WALL SP	G	
. ,	6d COMMON (2"x0.113") NAIL (SUBFLOOR,		
3/8" - 1/2"	WALL) OR 8d COMMON (2-1/2"x0.131") NAILS (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	6	12
19/32" - 1"	8d COMMON NAIL (2-1/2"x0.131") OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	6	12
1-1/8" - 1-1.4"	10d COMMON (3"x0.148") NAIL OR 8d (2-1/2"x0.131") DEFORMED NAIL	6	12
	OTHER WALL SHEATHING		
1/2" STRUCTURAL CELLULOSIC FIBERBOARD 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	3	6
25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER OR 1-1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN	3	6
1/2" GYPSUM INTERIOR COVERING (R702.3.5)	1-1/2" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S"	7	7
5/8" GYPSUM INTERIOR COVERING (R702.3.5)	1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S"	7	7
(R702.3.5)	1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS,		
(R702.3.5)	1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S"		
(R702.3.5) WOOD STRUCTURAL	1-3/4" GALVANIZED ROOFING NAIL: STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S" PANELS, COMBINATION SUBFLOOR UNDERLAY 6d DEFORMED (2"x0.120") NAIL OR	YMENT TO FRAMIN	G



AVITAL HOMES

SERENITY

1913 SW HIGHTOWN DR. LEE'S SUMMIT, MO 64082

FASTENING SCHEDULE

S5<u>50</u>

DATE SCALE

REVISIONS

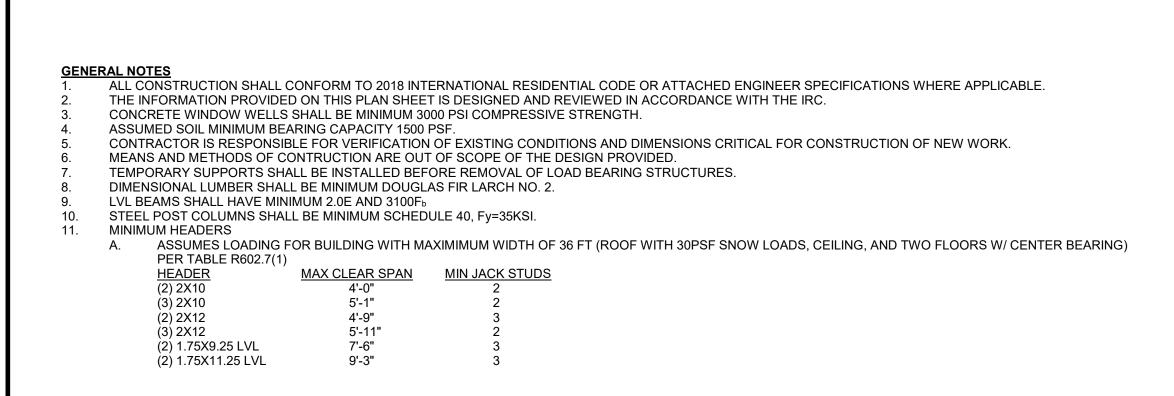
3/2 MOLE AS EDFOR COUNTINUES

AS NOTED ON PLANS REVIL

DEVELD/4/IENT/SEQVICES

LEE'S SUMMIT, MISSOURI

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VARIES (SEE TABLE)

SINGLE HUNG WINDOW

EGRESS WINDOWS MUST CONFORM TO R310 OF THE 2018 IRC

200 SERIES

400 SERIES

250 SERIES

150 SERIES

V-2500

V-4500

MIN NET CLEAR HEIGHT SHALL BE NOT LESS THAN 2 FT MIN NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCH

ABOVE GRADE FLOOR NOT LESS THAN 5.7 SQ FT PER R310.2.1 AT OR BELOW GRADE NOT LESS THAN 5.0 SF FT PER 310.2.1

36X60

MIN CLEAR OPENING

MATERIAL, AND STYLE.

MANUFACTURER

ANDERSON

ANDERSON

JELD-WEN

JELD-WEN

PELLA

PELLA

FF ELEV

WINDOW EGRESS (NTS)

1' - 8"

MIN CLEAR **CASEMENT WINDOW**

36X40

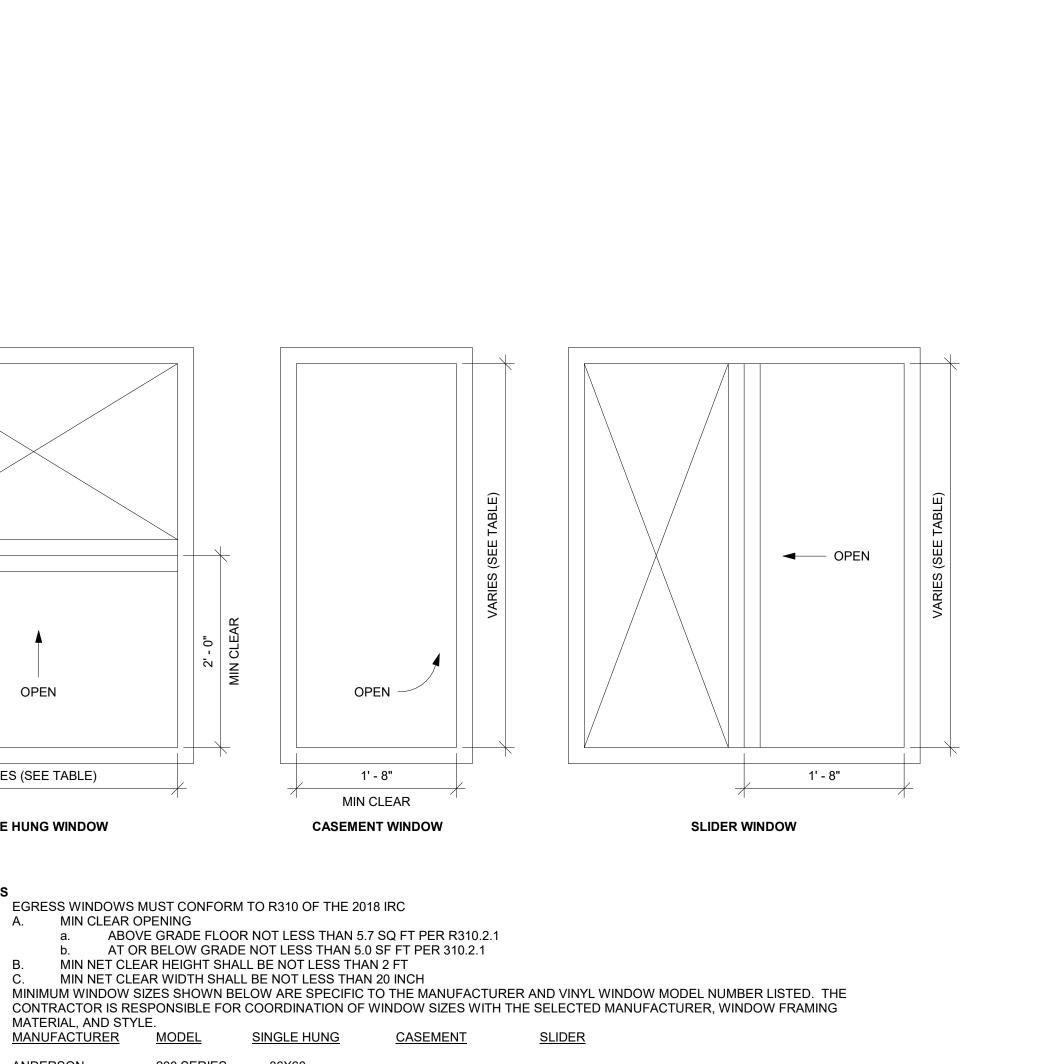
36X48

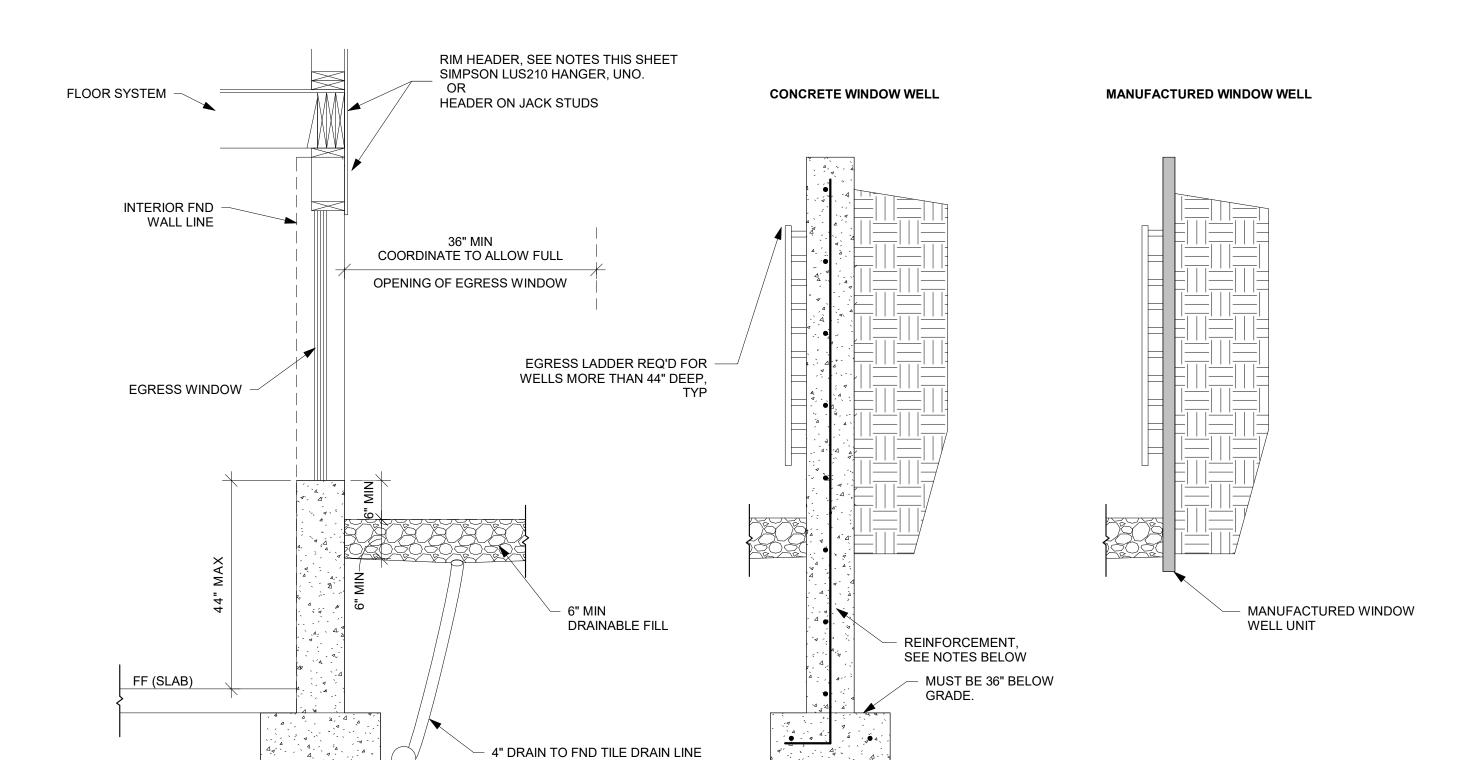
36X42

48X40

48X48

48X48





WINDOW WELL MUST MEET REQUIREMENT IN R310.2.6 OF THE IRC AND LOCALLY ADOPTED CODE CONCRETE WINDOW WELL INTALLED WITH NEW FOUNDATION POUR WINDOW WELL MONOLITHICALLY WITH ADJACENT FND WALL. REINFORCEMENT

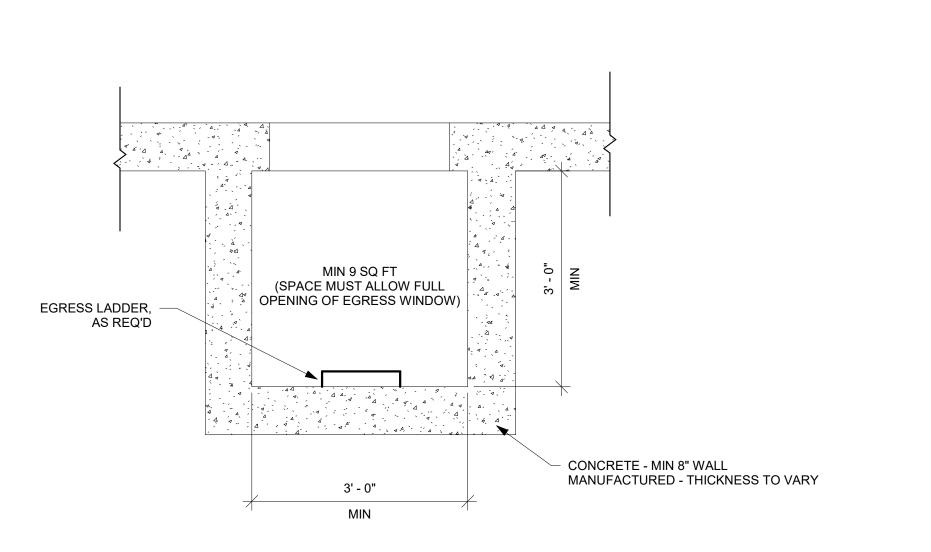
MATCH ADJACENT WALL REINFORCEMENT, SEE PLANS B. INSTALLED TO EXISTING FOUNDATION

a. REINFORCEMENT #4 BAR @ 12" OC EW IN WALLS DRILL AND EXPOY HOR BAR INTO EX FND, MIN 6" EMBEDMENT INTO EX FND WALL.

(2) #4 BAR CONT IN WALL FTG. b. SEAL WHERE NEW CONCRETE IS POURED AGAINST EX FND WITH MASTIC STRIPS OR OTHER WATER STOP MATERIAL.

MANUFACTURED WINDOW WELL A. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS COORDINATE DEPTH OF WELL WITH WINDOW AND MANUFACTURER REQUIREMENTS.

SECTION



PLAN

WINDOW WELL FOR EGRESS (NTS)

REVISIONS

SCALE

HANNAH CHRISTINE

EVERSTEAD 3741 NE TROON DRIVE, SUITE 200

LEE'S SUMMIT, MO 64064

EVERSTEAD.COM (816)399-4901

NUMBER PE-2023046346 NUMBER 10/23/2024

1913 LEE'S

EGRESS

WINDOWS

S560

11/01/2024 8:20:49