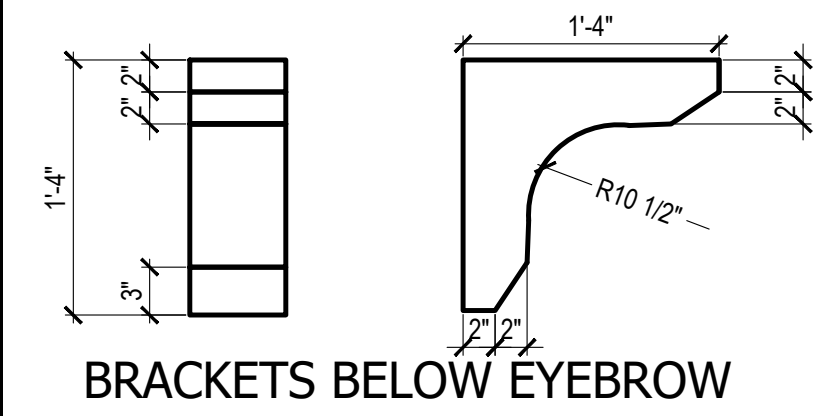
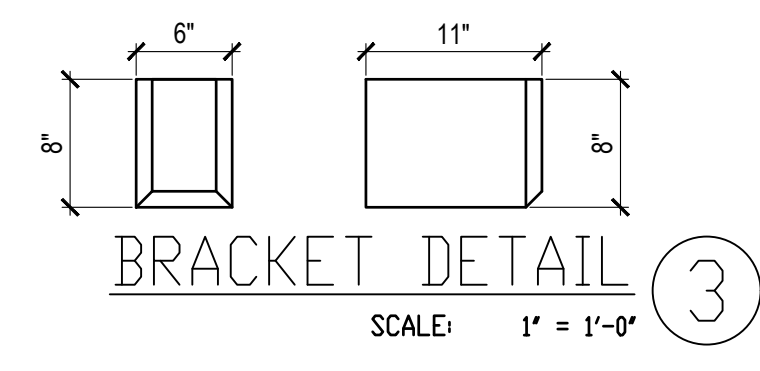


FRONT ELEVATION ②
SCALE: 1/4" = 1'-0"



BRACKETS BELOW EYEBROW

GENERAL NOTES

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

NOTE:

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

ELEVATIONS:

GARAGE DOORS SHALL MEET DASHA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS.

WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN AS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE.

WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WITH IRC R703.2.

WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



REAR ELEVATION ①
SCALE: 1/4" = 1'-0"

- FRONT & REAR ELEVATION NOTES**
- 1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.
 - 1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
 - 2.61 5/4"x8" LP SMART TRIM. 1 1/2" ARCH ON GARAGE DOOR TRIM UNLESS NOTED OTHERWISE ON ELEVATION.
 - 3.13 LP SMART PANEL SIDING WITH 3/4X4 LP SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.
 - 3.16 STUCCO, SHEATHED WITH 15/32" THICK OSB RATED 24/0 SHEATHING. EXTEND STUCCO TO WITHIN 8" OF FINISHED GRADE. 5/4X6 LP SMART TRIM AROUND WINDOWS AND DOORS UNLESS NOTED OTHERWISE.
 - 3.17 MANUFACTURED STONE VENEER.
 - 3.18 CAST STONE CAP
 - 3.39 2X4 STUD WALL WITH STUCCO. ALLOW 2" MIN ON FRONT/SIDES FOR STUCCO TO FIT WITHIN BOUNDARY OF STOOP.
 - 3.49 CUSTOM COLUMN - SEE DETAIL 3/A1
 - 3.55 6"x8"x11" CEDAR CORBEL WITH CHAMFERED EDGES
 - 3.62 CEDAR SHUTTERS. ALL SHUTTERS TO BE 18" WIDE USING (3) 2X6 BOARDS. LP SMART TRIM TO BE INSTALLED AROUND WINDOW PRIOR TO SHUTTER INSTALLATION.
 - 3.66 DECORATIVE FALSE LOUVERED VENT WITH 1X6 LP SMART BOARD.
 - 3.87 FAUX KEYSTONE: LP SOFFIT BOARD. TOP: 8" BOTTOM: 5" HEIGHT: 9 1/4"
 - 4.11 MINIMUM ROOFING COMPOSITION- 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.
 - 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.
 - 7.25 TOP OF FIREPLACE VENT TO BE 3'-8" ABOVE FIRST FLOOR DECK.

SHEET INDEX

A1.	FRONT AND REAR ELEVATION
A2.	LEFT AND RIGHT ELEVATION
A3.	FOUNDATION LEVEL PLAN
A4.	MAIN LEVEL PLAN
A5.	ROOF PLAN

FINISHED	
MAIN FLOOR	1628
LOWER LEVEL - FINISHED	987
FINISHED STAIRS TO LOWER LEVEL	0
TOTAL	2615
UNFINISHED	
LOWER LEVEL - UNFINISHED	475
PATIO	144
GARAGE	704

ENGINEER	TRUSS	I-JOIST
RES	WHEELER	...

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

CPG DBA

SUMMIT HOMES

120 SE 30TH ST.
LEE'S SUMMIT, MO 64082
816-246-6700

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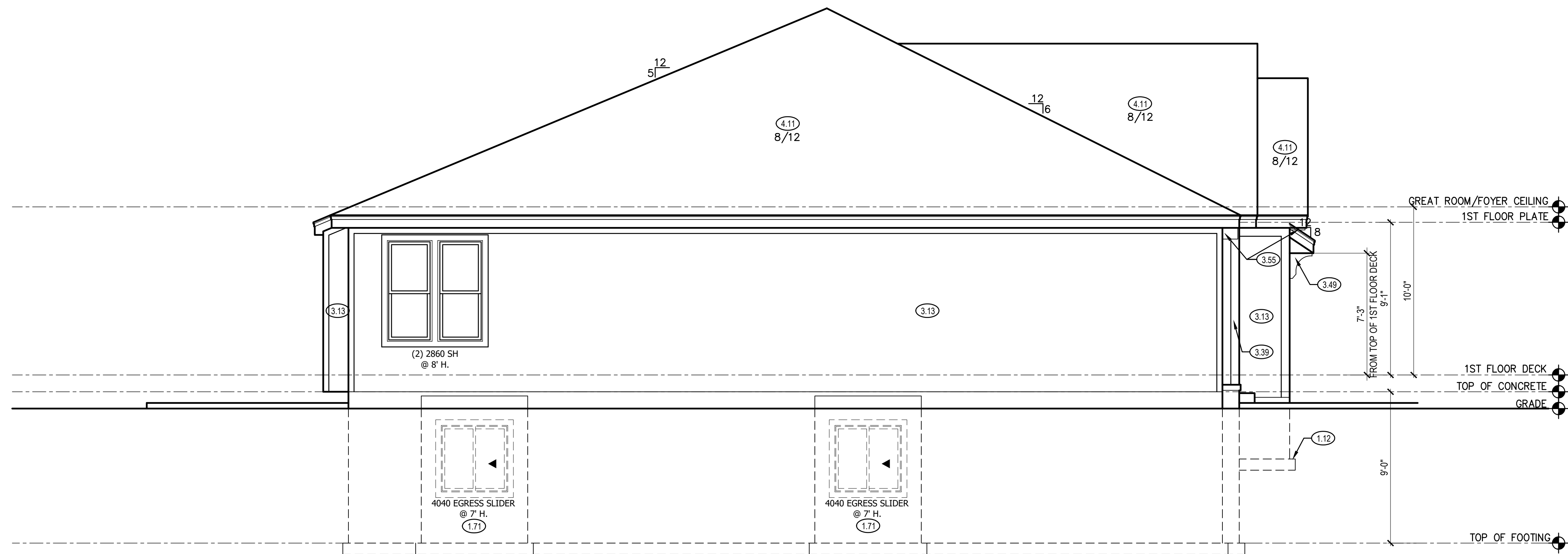
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816-399-4901

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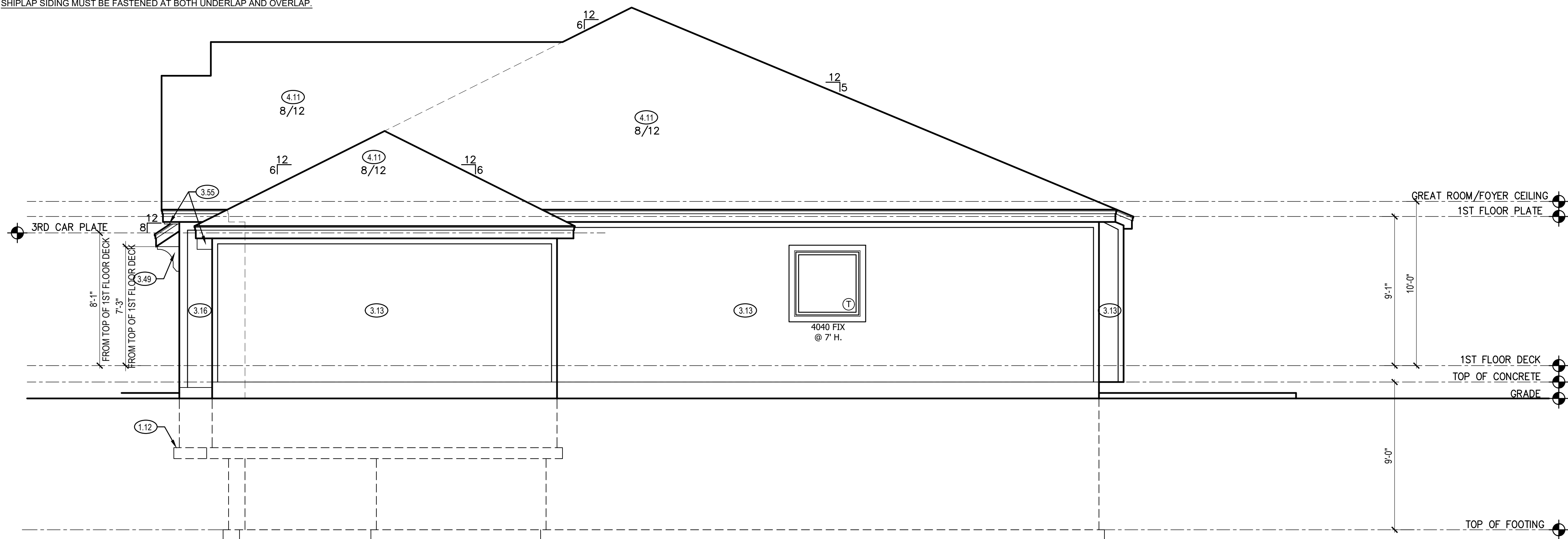
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LEFT ELEVATION ②
 SCALE: 1/4" = 1'-0"



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

LEFT & RIGHT SIDE ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.
- 1.23 STEP FOUNDATION TO BELOW FROST LINE AS REQUIRED PER SITE
- 1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
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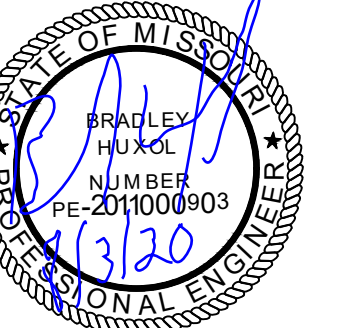
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 LEE'S SUMMIT, MO 64063
 816-399-4901

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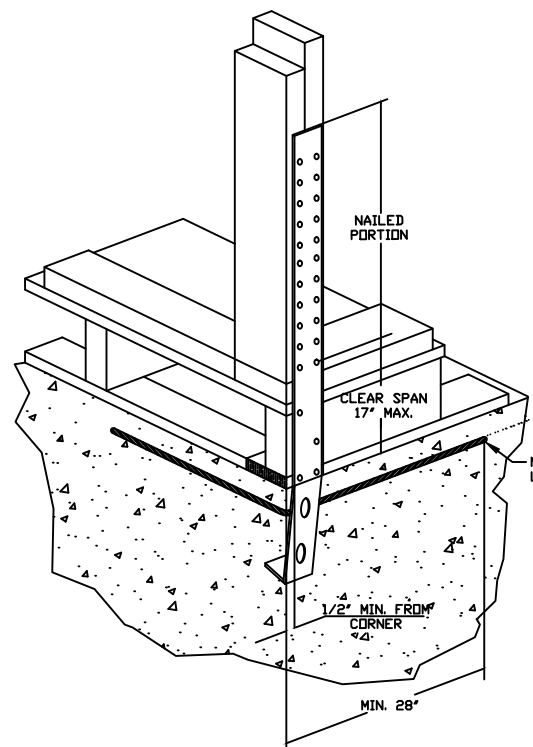
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FOUNDATION NOTES:
 ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".
 SOIL BEARING CAPACITY SHALL BE 1500 PSF.
 COMPRESSIVE STRENGTH OF CONCRETE FC COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%.
 ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. DAMPPROOFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR WATERPROOFING SHALL BE A MINIMUM 5-MIL THICK MOISTURE BARRIER OVER POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS SHALL BE A MINIMUM 6".
 FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406. FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405. BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION R310.1
 ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.
 ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 6' O.C. AND BE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY BACKFILL.



SOLID BLOCKING BETWEEN JOISTS AT 48" O.C. EXTEND BLOCKING ONE JOIST BAY PAST EACH SIDE OF ISLAND ABOVE

HOLDOWN DEVICE: TYPICAL SHD14RJ CORNER INSTALLATION N.T.S.

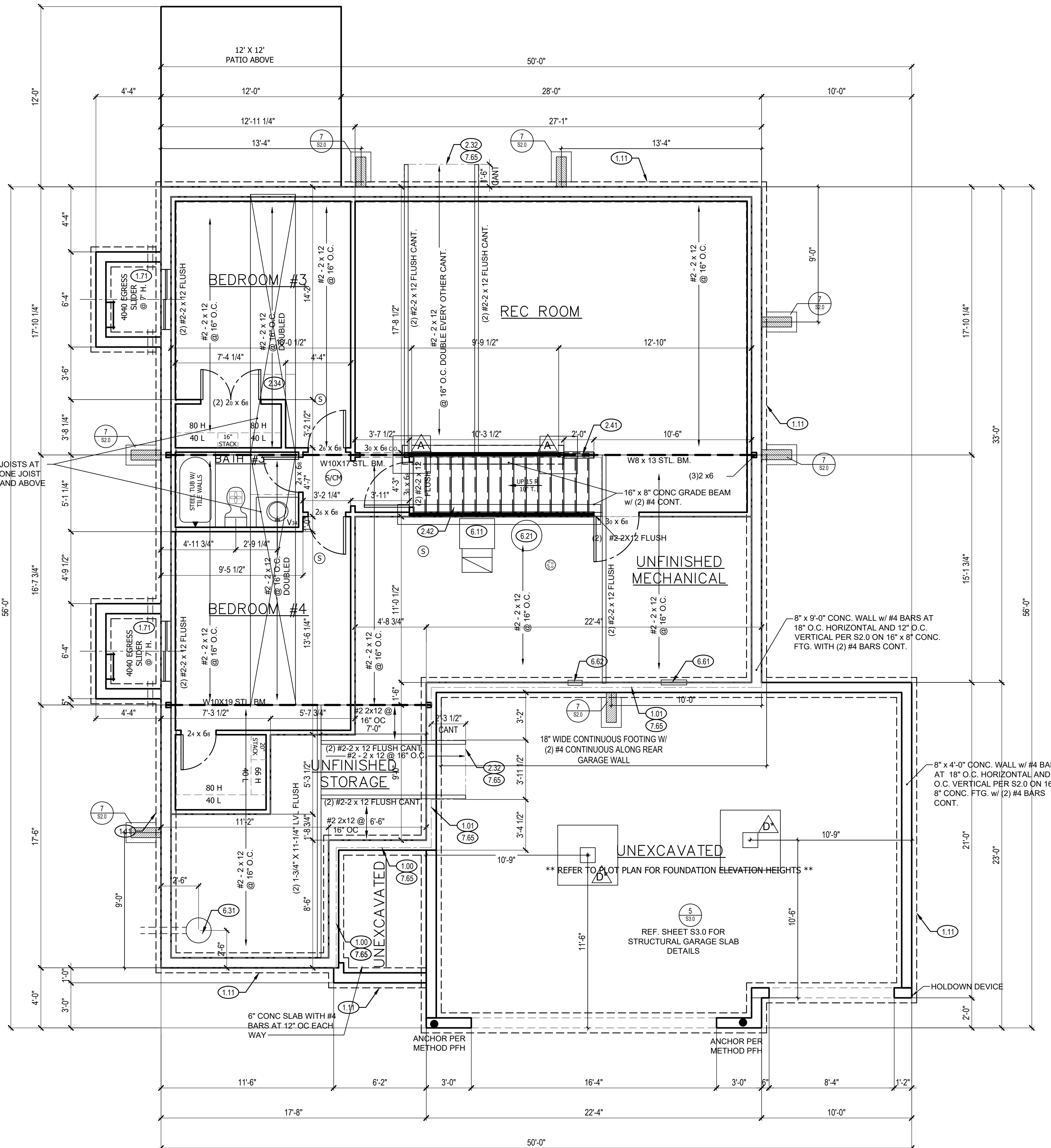
ISOLATED FOOTINGS AND COLUMN PADS

SYM	PIER PAD SIZE	DEPTH	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN FY = 36KSI
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	48"x48"	1'-4"	(8) #4 BAR E.W.	N/A
F	54"x54"	1'-4"	(9) #4 BAR E.W.	3.5" DIAMETER
G	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
I	18"	3'-0"	(4) VERTICAL #4
J	24"	3'-0"	(4) VERTICAL #4
K	28"	3'-0"	(4) VERTICAL #4

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



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

FOUNDATION PLAN NOTES

- 1.00 HOLD SILL PLATE BACK 2"
- 1.01 HOLD SILL PLATE BACK 4"
- 1.11 CONTINUOUS CONCRETE FOOTING
- 1.21 RECESS TOP OF FOUNDATION WALL
- 1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
- 2.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING
- 2.34 PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE.
- 2.41 CURB STAIR SYSTEM WITH OPEN HANDRAILS
- 2.42 FIRE RATED SHEETROCK UNDER STAIRS
- 6.11 DIRECT FURNACE, FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION AIR.
- 6.21 HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE
- 6.31 SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.
- 6.41 HVAC CHASE ABOVE
- 6.61 200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE.
- 6.62 UFER GROUND- VERIFY LOCATION WITH PROJECT MANAGER.
- 7.65 LINE OF FLOOR ABOVE

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 LEE'S SUMMIT, MO 64063
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ISSUE DATE:
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GENERAL NOTES

- BACK WATER VALVES REQUIRED ON ALL BASEMENT PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION.
- ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY SHALL BE OF DECAY-RESISTANT MATERIALS.
- DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.
- ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C.
- SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.
- WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

NOTE:

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

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

DETAILS AND NOTES:
BASEMENT EGRESS WINDOWS ARE TO COMPLY WITH IRC R310.2.
WINDOW FALL PROTECTION REQUIREMENTS TO COMPLY WITH SECTION R612.2.
STAIRS SHALL COMPLY WITH IRC R311.7. THE MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7.314" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1).
SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE TO DWELLING SEPARATION DOORS.
STEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE 40.

ENERGY REQUIREMENTS SHALL CONFORM TO THE IRC CHAPTER 11.
SECURITY SHALL CONFORM TO IRC R326/KCBRC.
AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND).
CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN ACCORDANCE WITH IRC SECTION R315.
THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED (2018 IRC SECTION N1102.4.1 AND TABLE N1102.4.1.1).
DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (2018 IRC SECTION N1103.2.2).

FLOOR PLANS:
LEDGERS (FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507.
ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN.
A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2X6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

APA SIMPLIFIED WALL BRACING (SYSTEM REPORT SR102-D)

METHOD SHALL BE CS-WSP WITH INCREASED SHEATHING THICKNESS (PERFORMANCE CATEGORY).
WSP SHEATHING SHALL BE RATED SHEATHING MINIMUM 1/2" PERFORMANCE CATEGORY MEETING REQUIREMENTS OF DEPARTMENT OF COMMERCE DOC P51 OR PS2 (VOLUNTARY PRODUCT STANDARDS).

PS2-10 TABLE D1 RECOMMENDED THICKNESS LABELING FOR PANELS:
1/2" PERFORMANCE CATEGORY -
MINIMUM THICKNESS OF .406 INCHES (10.32 MM)
MAXIMUM THICKNESS .469 INCHES (11.91 MM)
RECOMMENDED THICKNESS LABEL - THICKNESS .418 IN.

NAIL SIZE SHALL BE 8D HAVING A DIAMETER OF .131" AND LENGTH OF 2.5".

CLOSER NAILING SCHEDULE ON FIRST STORY OF 2ND STORY SHEATHING SHALL BE INSTALLED WITH A MINIMUM 8D COMMON NAILS SPACED AT 4" OC AT PANEL EDGES AND AT 12" OC OVER INTERMEDIATE SUPPORTS.
FOR SINGLE STORY OR TOP OF TWO OR THREE STORY BUILDINGS, SHEATHING MAY BE INSTALLED WITH 8D COMMON NAILS SPACED AT 6" OC AT PANEL EDGES AND 12" AT INTERMEDIATE SUPPORTS.

SHEATHING SHALL BE INSTALLED OVER ALL AREAS EXCLUDING WINDOWS AND DOORS AND INCLUDING GABLE ENDS.

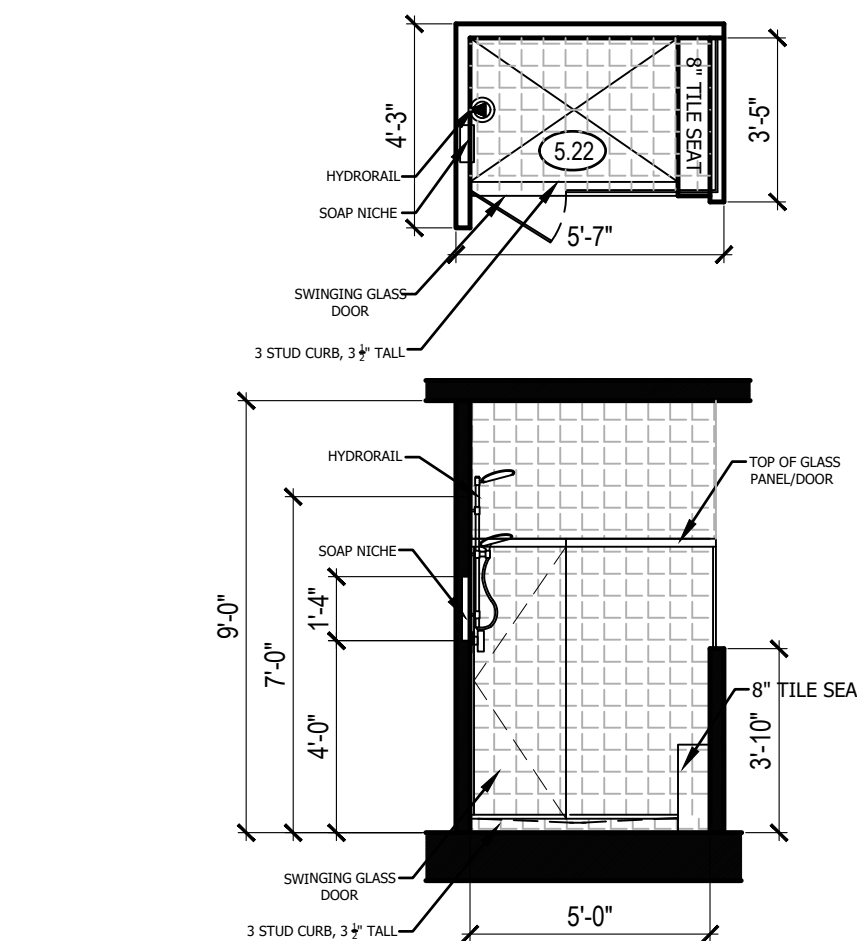
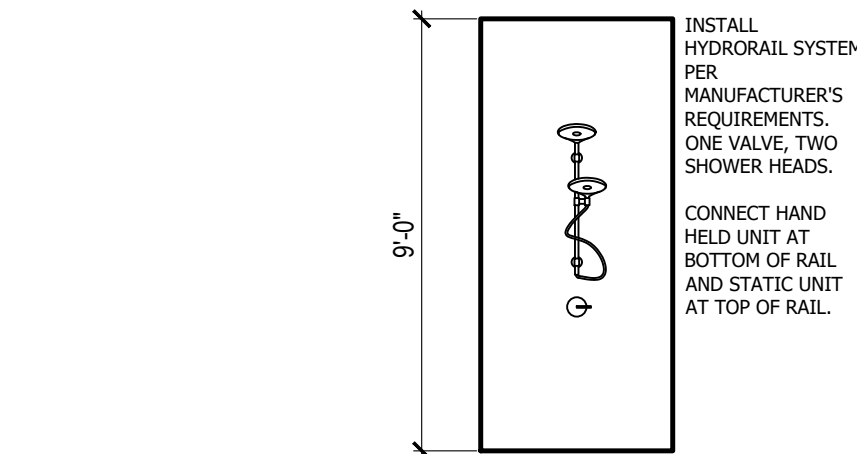
ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE NAILED TO COMMON FRAMING OR BLOCKING WITH AN APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE WITH IRC R602.10.10.

INTERIOR FINISH OF EXTERIOR WALLS SHALL BE MINIMUM 1/2" GYPSUM BOARD INSTALLED ON THE INTERIOR SIDE FASTENED IN ACCORDANCE WITH IRC TABLE R702.3.5 (NOT REQUIRED ON CS-WSP PANELS ADJACENT TO CS-G OR CS-PF PANELS)

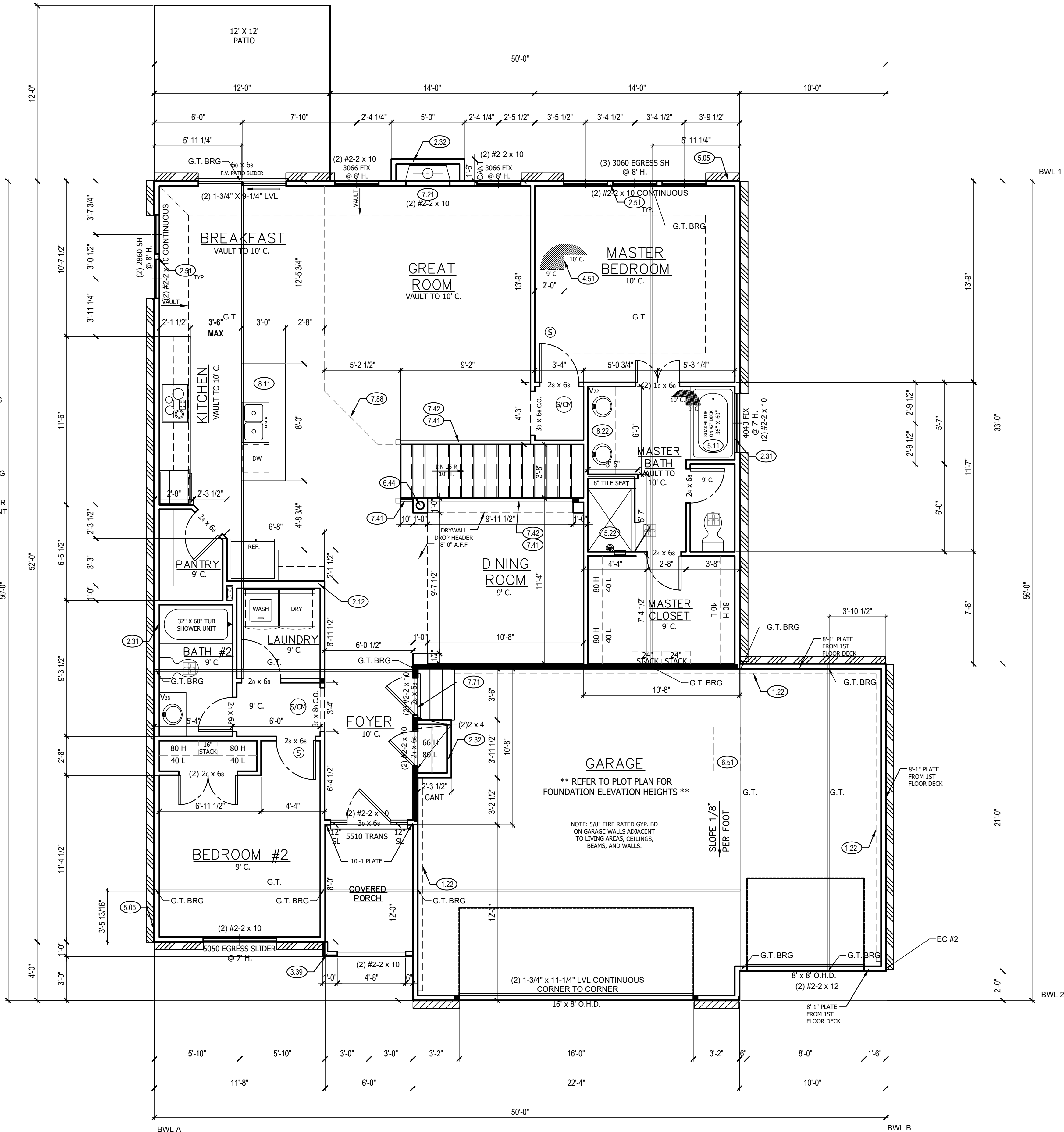
EXTERIOR BRACING METHOD CS-WSP AND INTERIOR METHOD GB ON INTERIOR FINISH OF EXTERIOR WALLS PER SPECS
INTERIOR WALL BRACING NOT REQUIRED ON INTERIOR WALLS

EC#2 - END CONDITION #2 SHALL BE ONE OF THE FOLLOWING DEVICES ATTACHED TO THE END STUD OF THE BRACED WALL PANEL CLOSEST TO CORNER IF NOT NOTED OTHERWISE:
2ND FLOOR AND/OR MAIN FLOOR ALONG WALKOUT/DAYLIGHT WALL - 800 # MINIMUM TENSION STRAP INSTALLED PER MANUFACTURER'S SPECS
MAIN FLOOR TO FOUNDATION WALL - STD14 EMBEDDED HOLDOWN INSTALLED PER MANUFACTURER'S SPECS

EXTERIOR BRACING PFH PER IRC R602.10.5
INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE ASSUMED LOAD BEARING)



DETAIL: 5.22
SCALE: 1/4" = 1'-0"



IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)										
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC ^{1,2}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT ¹ WALL R-VALUE	SLAB ¹ R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 DR 13+5	8/13	19	10/13	10.2 FT	10/13

MAIN FLOOR PLAN 1
SCALE: 1/4" = 1'-0"

MAIN FLOOR PLAN NOTES

- 1.22 EXPOSED TOP OF FOUNDATION WALL.
- 2.12 2X6 STUD WALL
- 2.31 SIX SIDED TUB ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF TUB DECK OR TUB/SHOWER UNIT
- 2.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING
- 2.51 3 STUDS BETWEEN WINDOW UNITS
- 3.39 2X4 STUD WALL WITH STUCCO. ALLOW 2" MIN ON FRONT/SIDES FOR STUCCO TO FIT WITHIN BOUNDARY OF STOOP.
- 4.51 SINGLE BOX VAULT
- 5.05 HOSE BIBB
- 5.11 SOAKER TUB: SEE PLAN FOR DETAILS
- 5.22 TILE BASE WITH TILE WALLS: SEE DETAIL
- 6.44 FLUE
- 6.51 1'-10"x3'-0" MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC ACCESS.
- 7.21 DIRECT VENT FIREPLACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FIREPLACE PLATFORM DIMENSIONS 7 3/8" TALL, 37" WIDE, 16" DEEP. INSTALL INSULATION AND AIR BARRIER BEHIND PLATFORM.
- 7.41 OPEN HANDRAILS
- 7.42 PROVIDE ADDITIONAL BLOCKING UNDER SUBFLOOR @ 6'-0" O.C. FOR OPEN HANDRAIL.
- 7.71 20 MINUTE FIRE RATED SOLID CORE WITH SELF-CLOSING HINGES
- 7.88 CHANGE IN FLOORING MATERIAL
- 8.11 24" CABINET + 12" OVERHANG FLAT ISLAND. VERIFY LOCATION WITH PERSONAL BUILDER.
- 8.22 CONTINUOUS FLAT VANITY

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LEE'S SUMMIT, MO 64063
816-399-4901

DRAWN BY:
J. ROSENBLUM

ISSUE DATE:
07.15.20

SHEET NUMBER:
A4.0

GENERAL NOTES

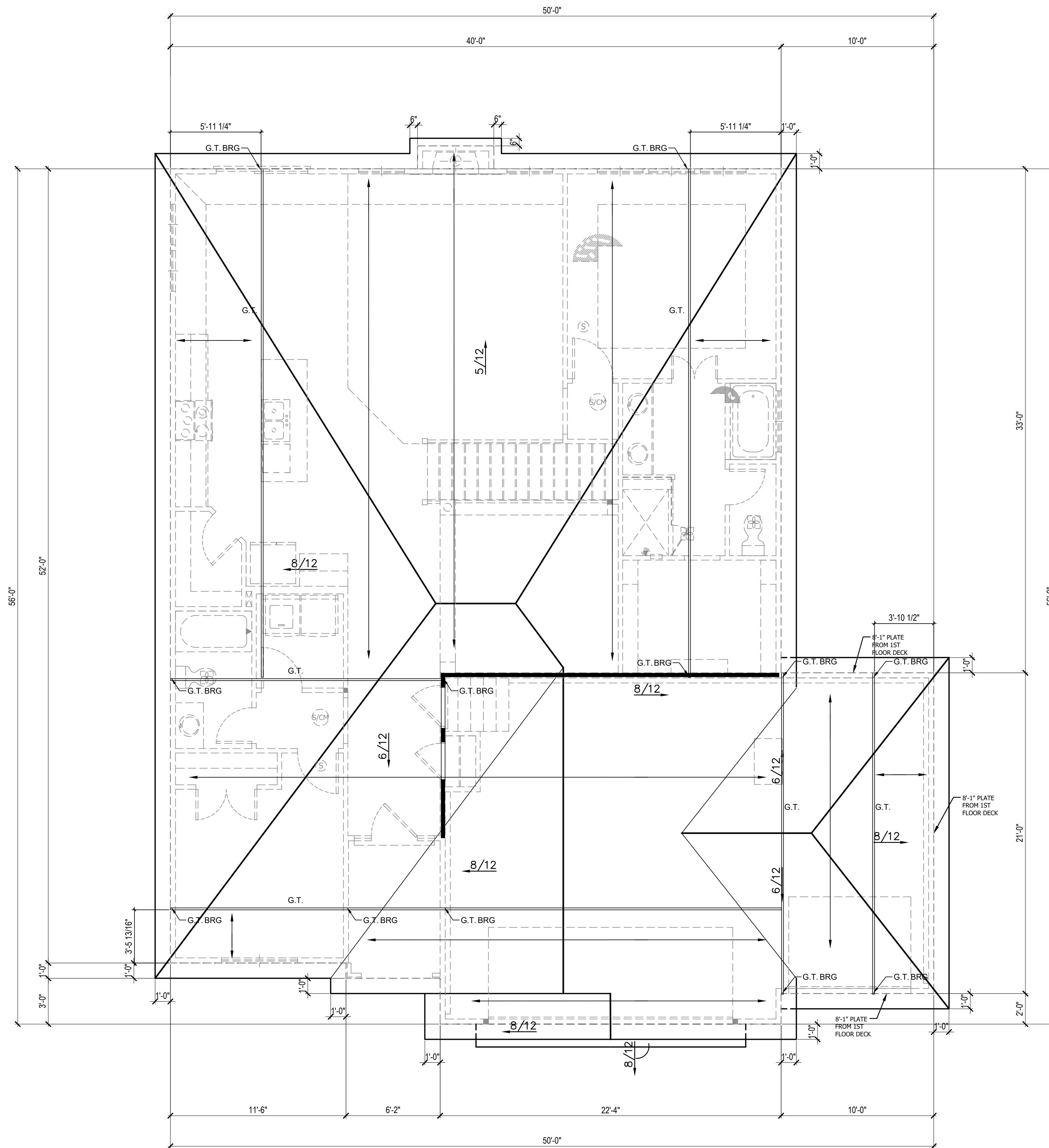
- WINDOWS TO COMPLY WITH IRC R312.2 FOR FALL PROTECTION.
- ALL EXTERIOR WALLS, INTERIOR BEARING WALLS, AND INTERIOR BRACED WALLS ARE AT 16" O.C. UNLESS NOTED OTHERWISE.
- ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C.
- ROOF AND CEILING FRAMING ARE PRE-ENGINEERED WOOD TRUSSES UNLESS NOTED OTHERWISE.
- DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.
- HVAC DUCTWORK RUNNING THROUGH THE ATTIC SPACE SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.
- PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.
- 2X6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR #2.
- SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.
- SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.
- WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

- TRUSS ROOF NOTES: (BY OTHERS)
- DESIGNED FOR LIGHT ROOF COVERING
 - ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED.
 - CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS SHOWN AS NON-LOAD BEARING ON APPROVED PRINTS.
 - MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.
 - PROVIDE 2x SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.
 - ROOF IS ENGINEERED TO COMPLY WITH IRC 802

→ = ROOF TRUSS FRAMING DIRECTION
 □ = "G.T." = GIRDER TRUSS LOCATION
 — = INTERIOR LOAD BEARING WALL

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

ROOF:
ROOF IS DESIGNED FOR 20 PSF SNOW LOAD.
WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC SECTION R802.10.
CEILING JOIST OR RAFTER TIE CONNECTIONS BETWEEN RAFTERS, RIDGE BEAM, REQUIRED COLLAR TIES OR RIDGE STRAPS SHALL COMPLY WITH DETAILS AND IRC SECTION R802, R802.3, R802.3.1, R802.11.



ROOF PLAN NOTES

- MINIMUM ROOFING COMPOSITION- 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.
- BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.

GENERAL NOTES

- ROOF AND CEILING FRAMING ARE PRE-ENGINEERED ROOF TRUSSES.
- ASPHALT SHINGLES MIN 2/12. FLASH ALL PENETRATIONS AND INTERSECTIONS.
- VENT EACH ENCLOSED ATTIC SPACE. NET AREA OPENING = 1/50TH OF VENTED AREA OR 1/300TH IF 580% OF VENTING NEAR TOP.
- BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. SEE FRAMING SPECIFICATIONS FOR DETAILS.
- DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.
- HVAC DUCTWORK RUNNING THROUGH ATTIC SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.
- PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.
- PROVIDE FOAM INSULATION AT EXTERIOR WHERE MAIN LEVEL ROOF LINE MEETS UPPER LEVEL WALLS.

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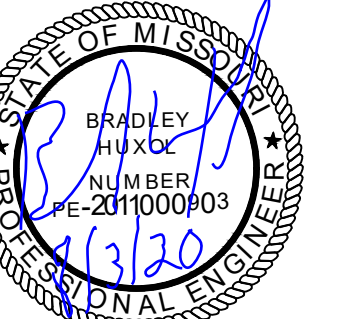
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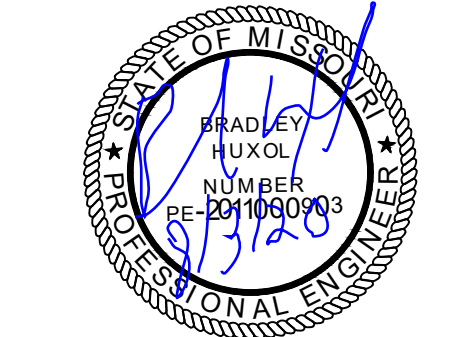
SHEET NUMBER:

A5.0

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



RES
ENGINEERING + DESIGN



FRAMING DETAILS

SHEET #

S1.0

2018 IRC TABLE R602.3(1) (SEE IRC FOR FOOTNOTES)

Table with columns: ITEM, DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Includes sections for ROOF, FLOOR, and WALL.

2018 IRC TABLE R602.3(1) (SEE IRC FOR FOOTNOTES)

Table with columns: ITEM, DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING OF FASTENERS (EDGES AND INTERMEDIATE SUPPORTS). Includes sections for FLOOR and OTHER WALL SHEATHING.

TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS

Table with columns: MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES), TOP EDGE, BOTTOM EDGE, ENDS, ROW SPACING. Includes rows for LEDGER and BAND JOIST.

TABLE R507/2 FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK LIVE LOAD = 40PSF, DECK DEAD LOAD = 10 PSF)

Table with columns: JOIST SPAN, CONNECTION DETAILS, ON CENTER SPACING OF FASTENERS. Includes rows for 1/2" diameter lag screw, 1/2" diameter bolt, and 1/2" diameter bolt with stacked washers.

REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL)

Table with columns: MINIMUM NAIL SIZE, MINIMUM WOOD STRUCTURAL PANEL RATING, MINIMUM NOMINAL PANEL THICKNESS (IN), MAX WALL STUD SPACING, PANEL NAIL SPACING (EDGES AND FIELD), ULTIMATE DESIGN WIND SPEED, V ULT (MPH).

Table with columns: MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE, MAXIMUM PONY WALL HEIGHT (FEET), MAXIMUM TOTAL WALL HEIGHT (FEET), MAXIMUM OPENING WIDTH (FEET), TENSION STRAP CAPACITY REQUIRED (POUNDS) FOR 90 MPH EXPOSURE B.

MINIMUM LENGTH OF BRACED WALL PANELS TABLE R602.10.5 (PARTIAL)

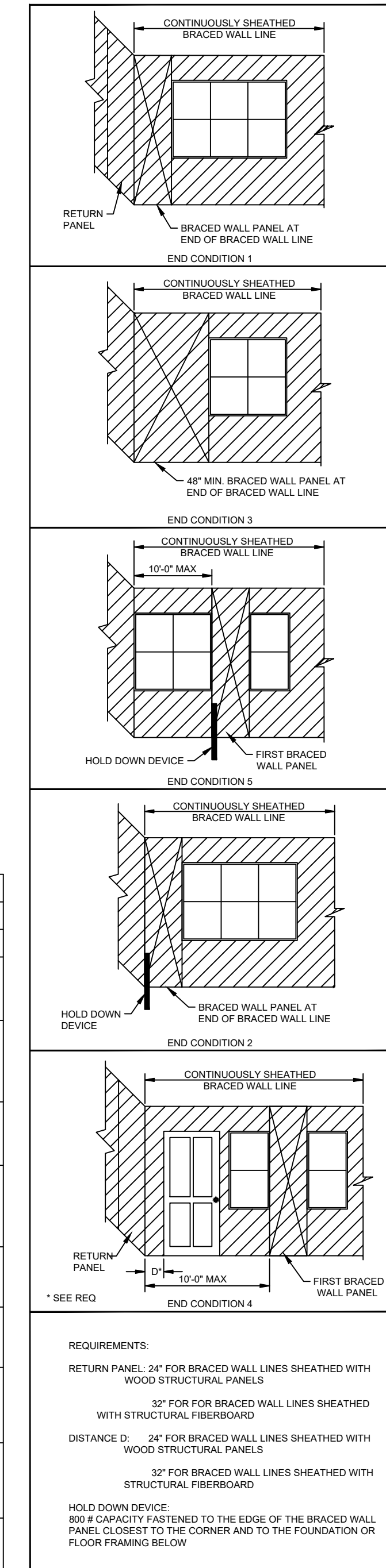
Table with columns: METHOD, MINIMUM LENGTH (INCHES), WALL HEIGHT. Includes rows for PFH, CS-PF, CS-WSP, and PFG.

BRACED METHODS TABLE R602.10.4 (PARTIAL)

Table with columns: METHODS, MATERIAL, MINIMUM THICKNESS, CONNECTION CRITERIA (FASTENERS, SPACING). Includes rows for WSP, CS-WSP, PFH, PFG, LIB, and GB.

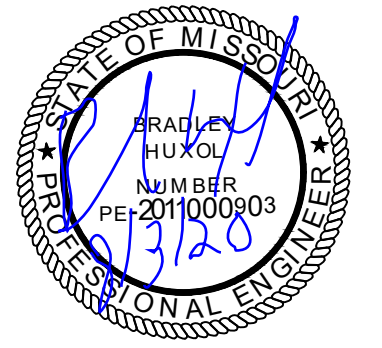
ENGINEERED LUMBER MINIMUM DESIGN REQUIREMENTS

Table with columns: LUMBER TYPE, fb (PSI), E (PSI), Fv (PSI). Includes rows for VERSA-LAM LVL and DOUGLAS FIR-LARCH #2.

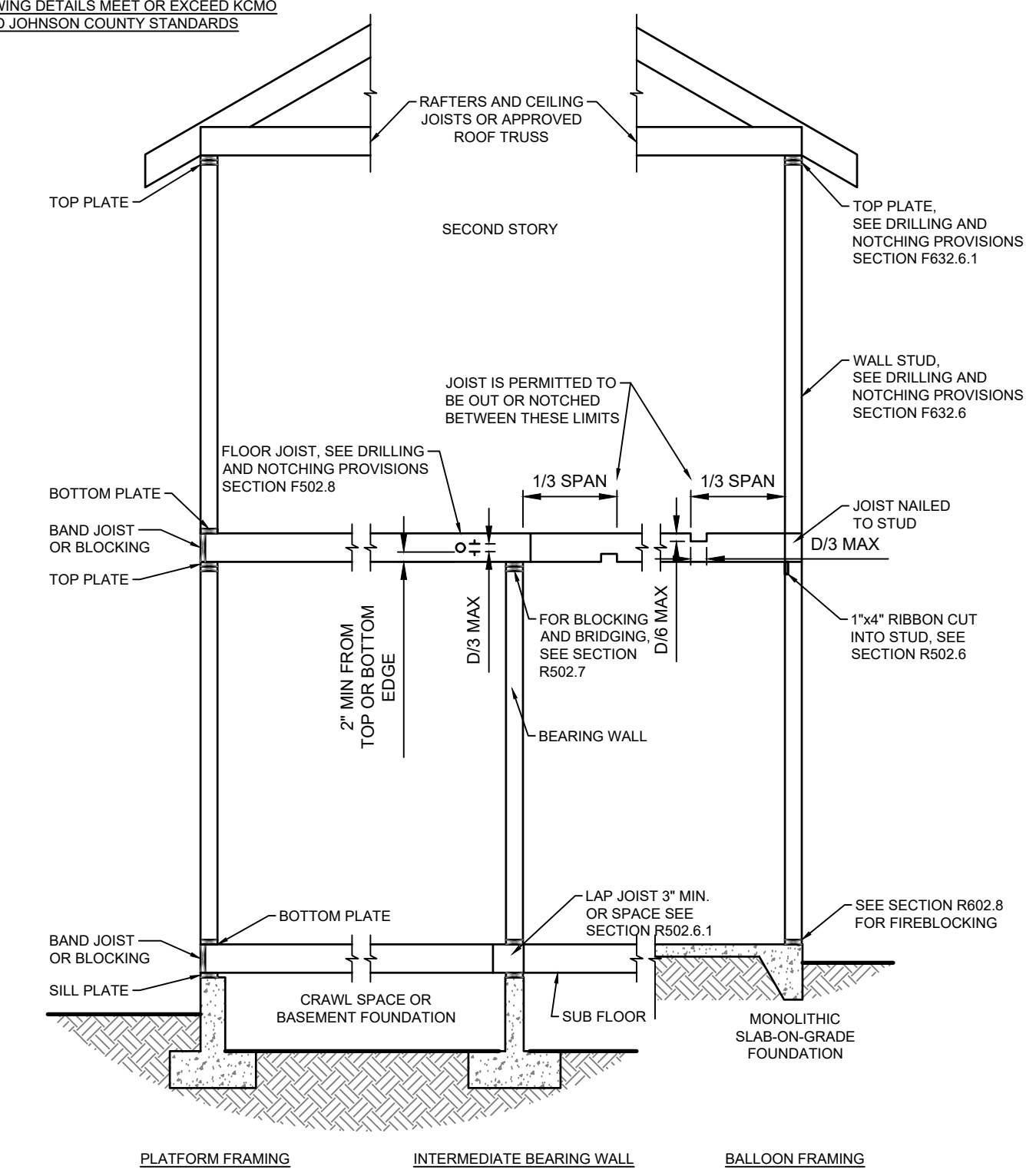


1 S1.0 END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING (IRC FIGURE R602.10.7) N.T.S.

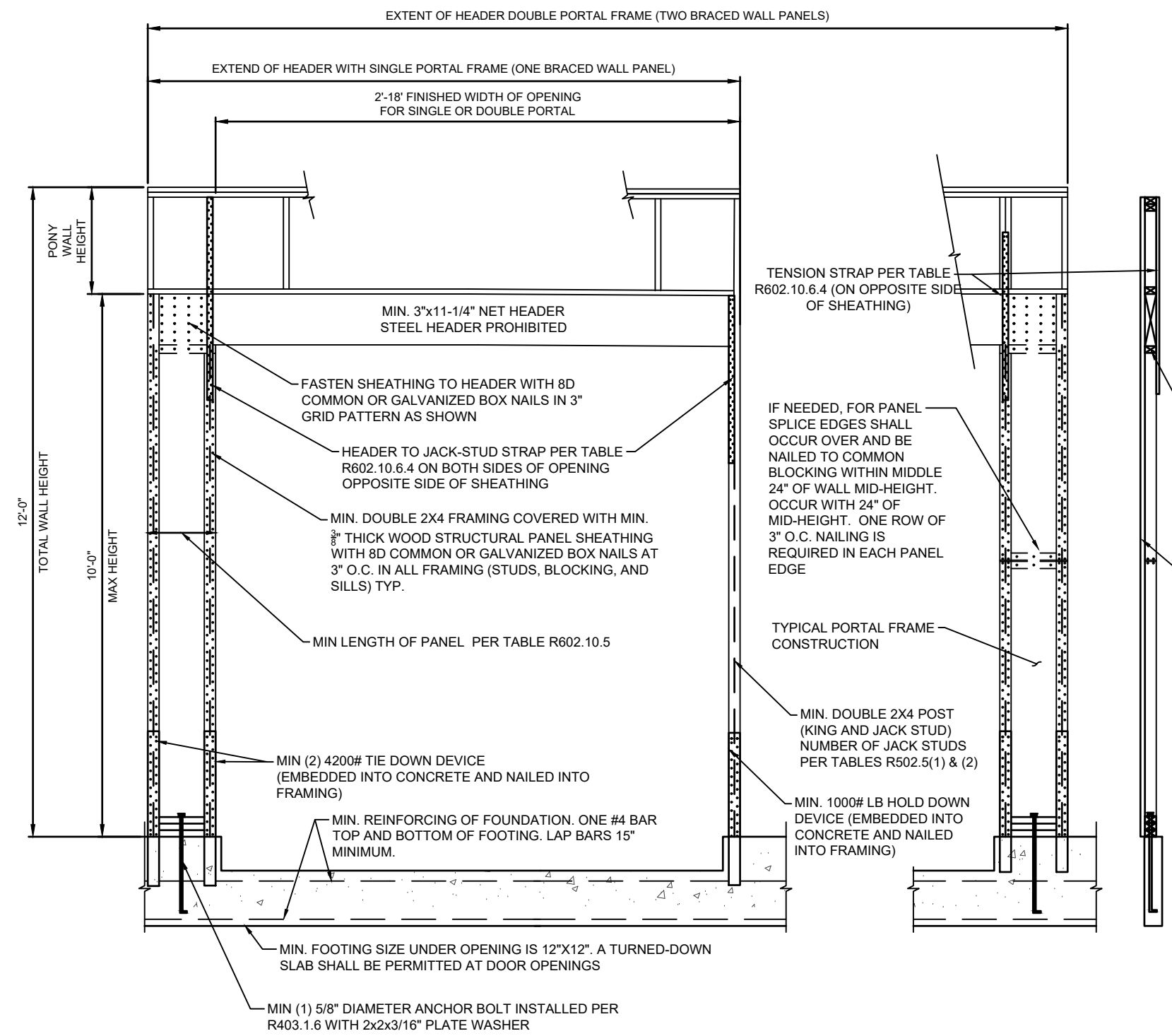
REQUIREMENTS:
RETURN PANEL: 2x4 FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS
3/8" FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD
DISTANCE D: 2x4 FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS
3/8" FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD
HOLD DOWN DEVICE: 80# CAPACITY FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FLOOR FRAMING BELOW



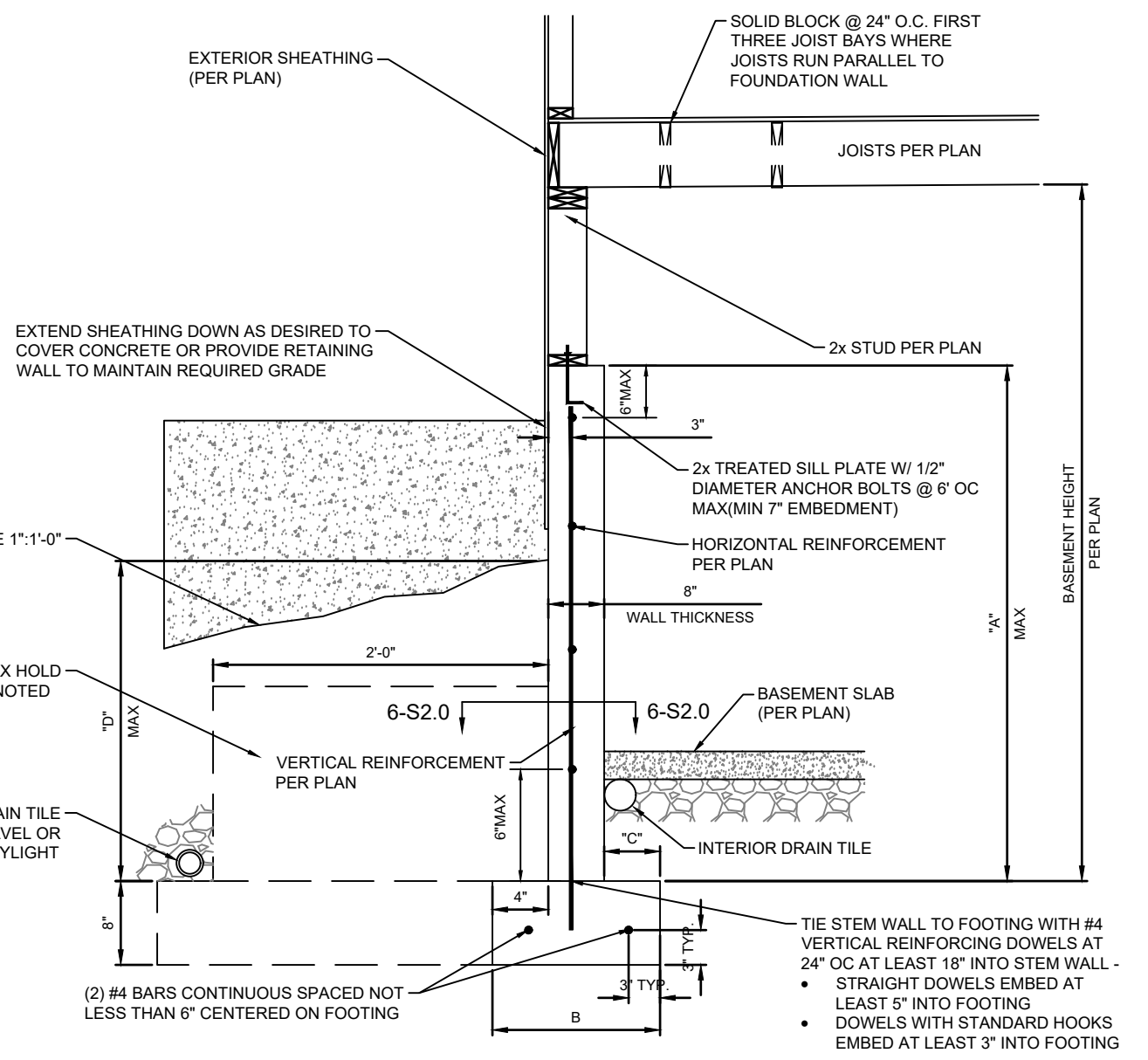
THE FOLLOWING DETAILS MEET OR EXCEED KCMO CPD-US, AND JOHNSON COUNTY STANDARDS



11 S2.0 TYPICAL WALL, FLOOR AND ROOF FRAMING (IRC FIGURE R602.3(1)) N.T.S.



12 S2.0 PORTAL FRAME WITH HOLD DOWNS (METHOD PFH) IRC FIGURE R602.10.6.2 N.T.S.



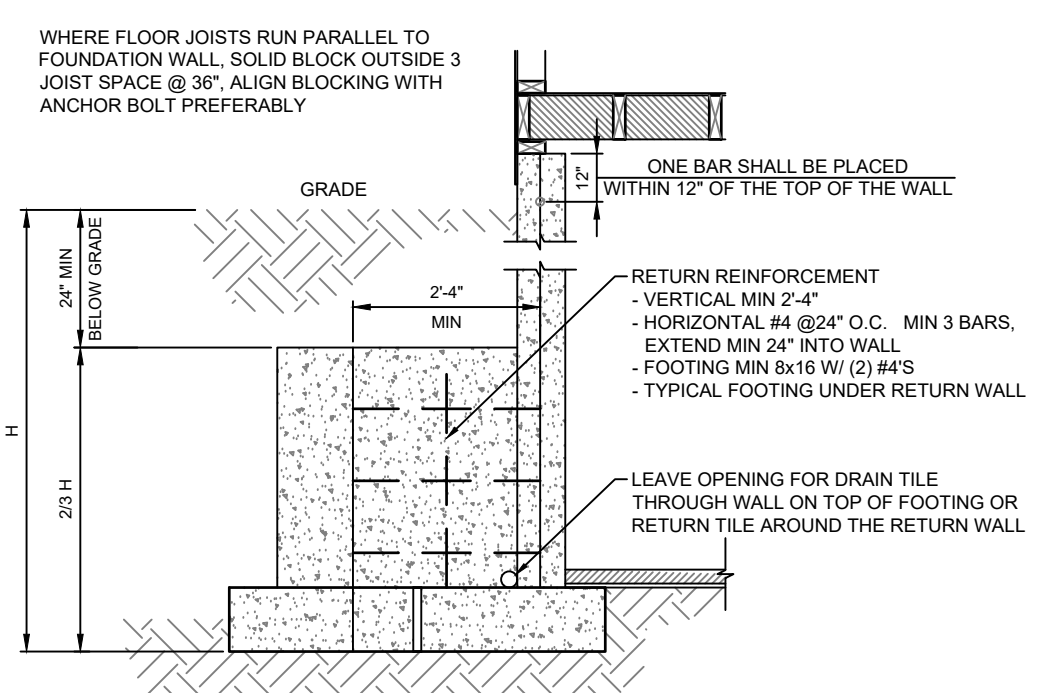
CONCRETE DIMENSIONS			
"A"	"B"	"C"	"D"
4'-0"	1'-4"	4"	3'-4"
6'-0"	1'-4"	4"	4'-4"
9'-0"	1'-8"	5"	4'-4"

DIMENSIONS SHOWN ARE FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN INSTALLATION. A MINIMUM 2' RETURN OR OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH.

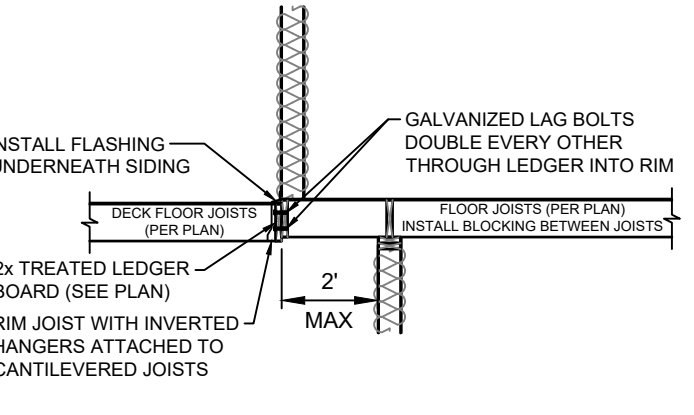
VERTICAL REINFORCING STEEL TO EXTEND TO WITHIN 6" OF TOP WALL. MINIMUM (1) #4 HORIZONTAL BAR WITHIN 12" OF TOP AND BOTTOM OF WALL.

THE BASEMENT SLAB IS AN INTEGRAL PART OF THE "UNRESTRAINED" FOUNDATION WALL DESIGN. THEREFORE IF THE WALL IS BACKFILLED PRIOR TO PLACEMENT OF THE BASEMENT SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BRACING THE WALL UNTIL THE BASEMENT SLAB HAS BEEN PLACED.

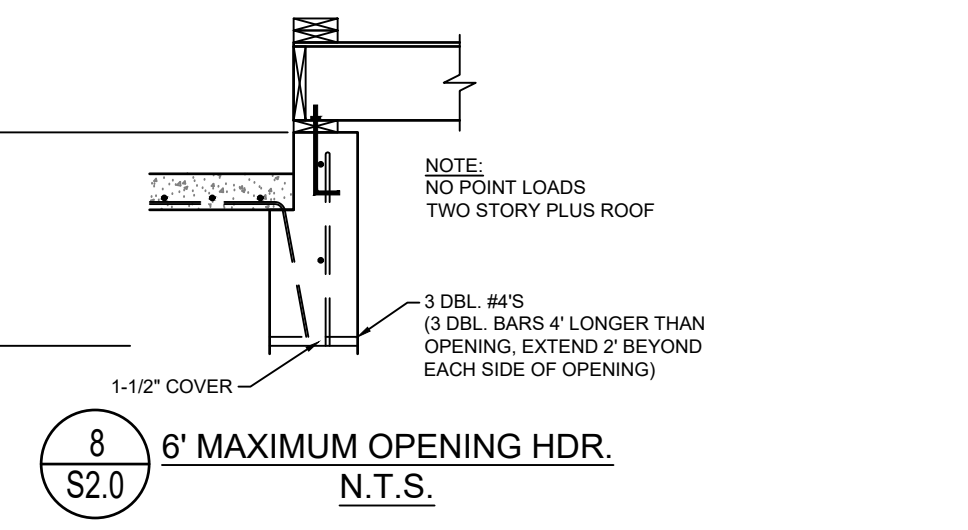
13 S2.0 TYPICAL "UNRESTRAINED" FOUNDATION WALL DETAIL N.T.S.



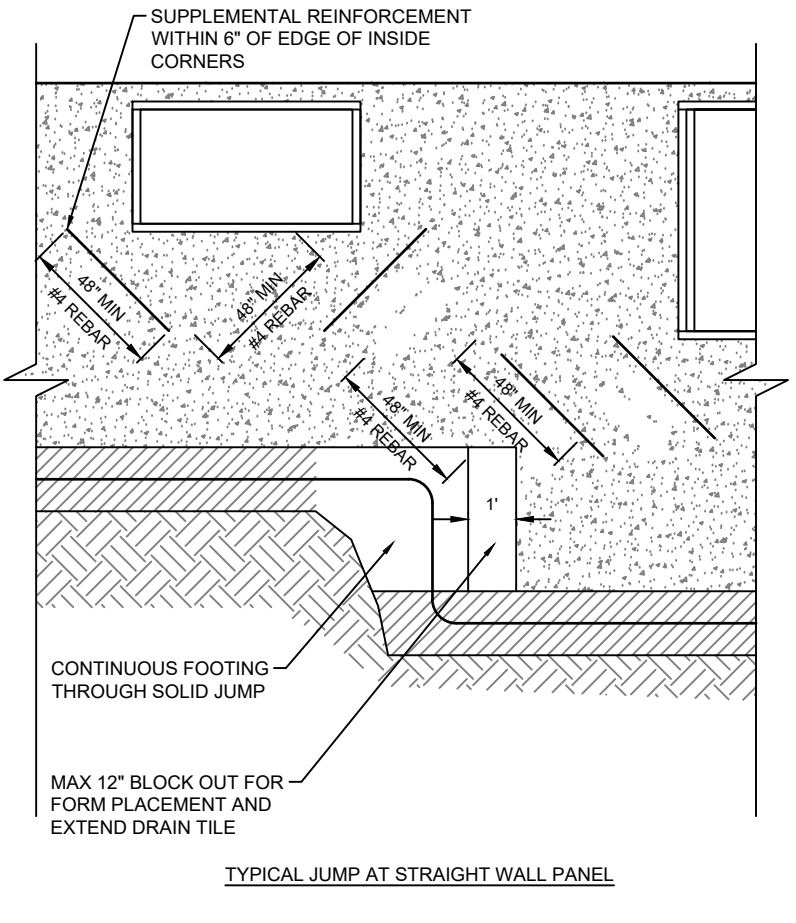
7 S2.0 TYPICAL DEAD MAN SECTION N.T.S.



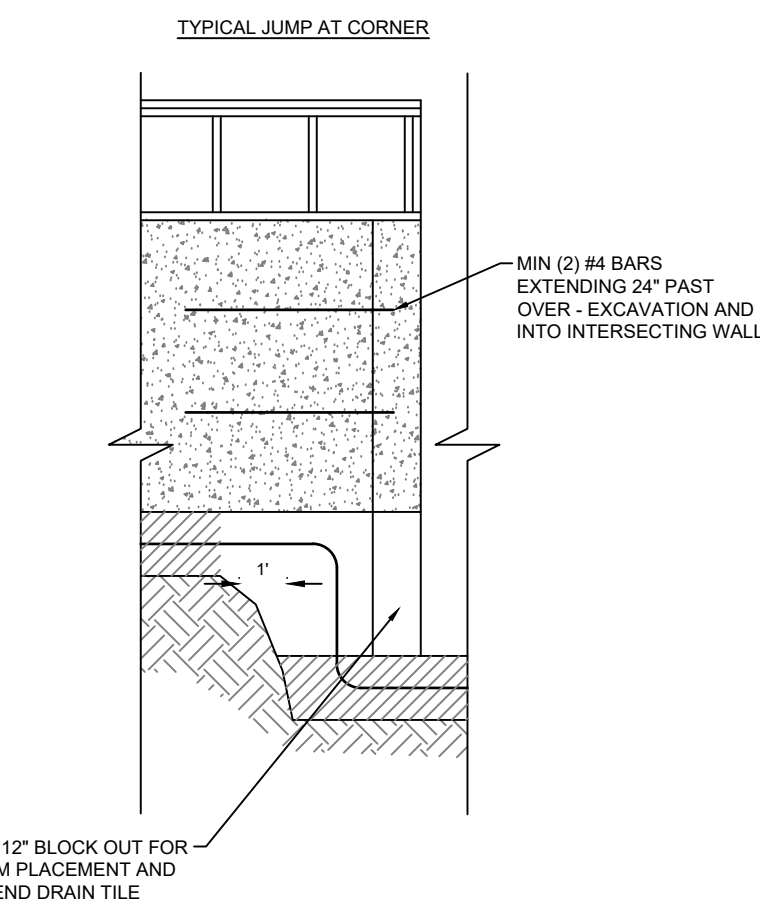
10 S2.0 TYPICAL CANTILEVER FRAMING WITH DECK ATTACHMENT N.T.S.



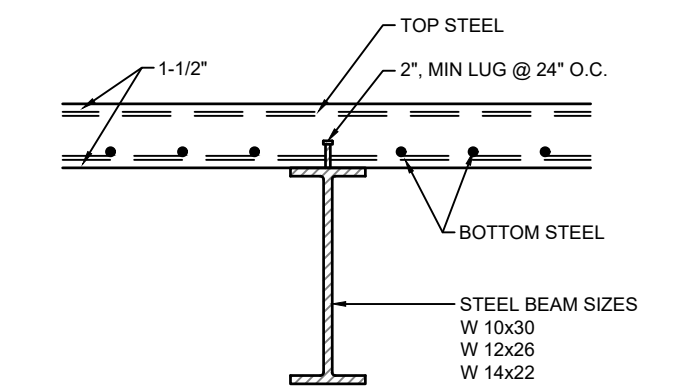
8 S2.0 6' MAXIMUM OPENING HDR. N.T.S.



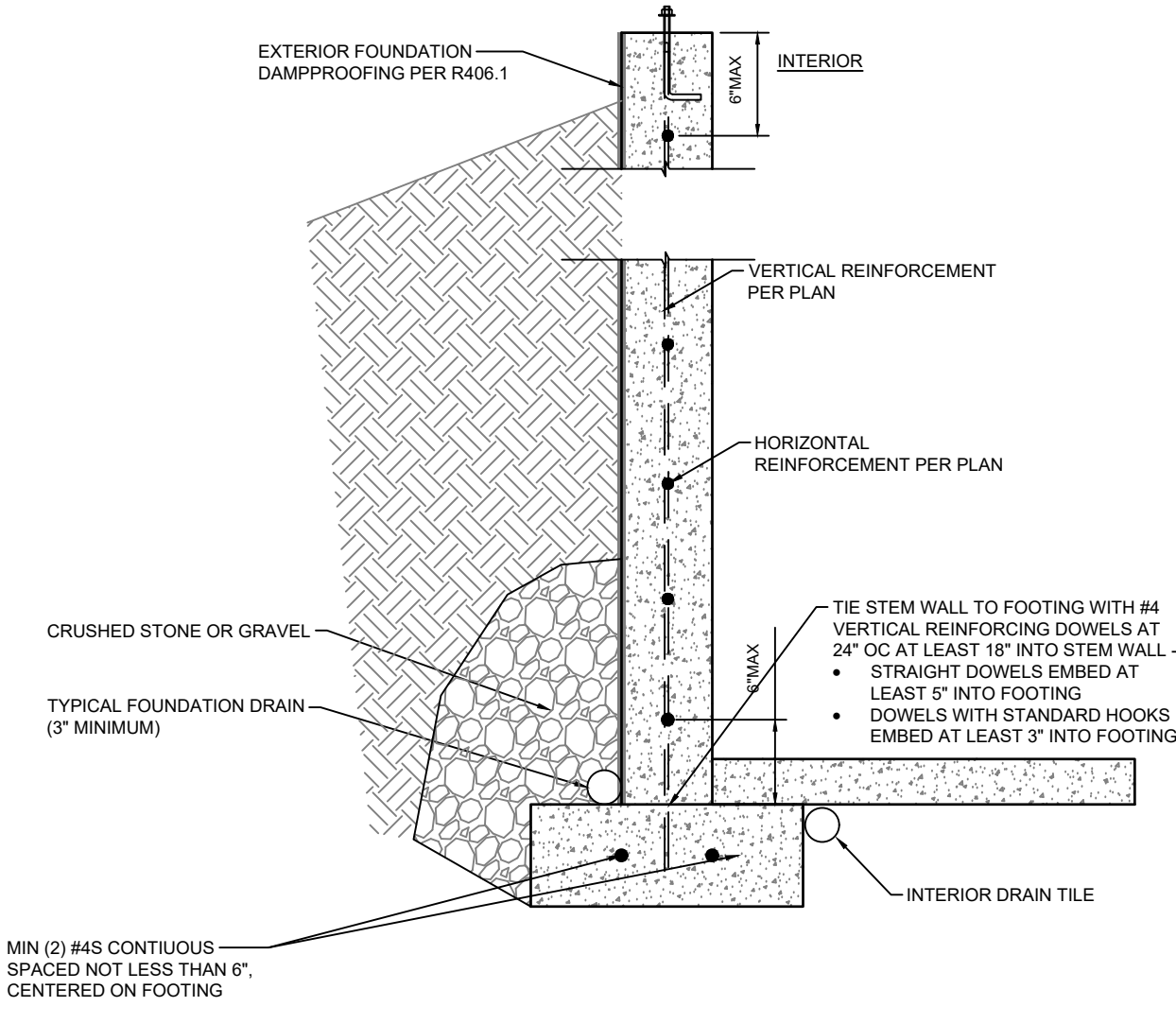
6 S2.0 FOUNDATION WALL JUMP DETAIL N.T.S.



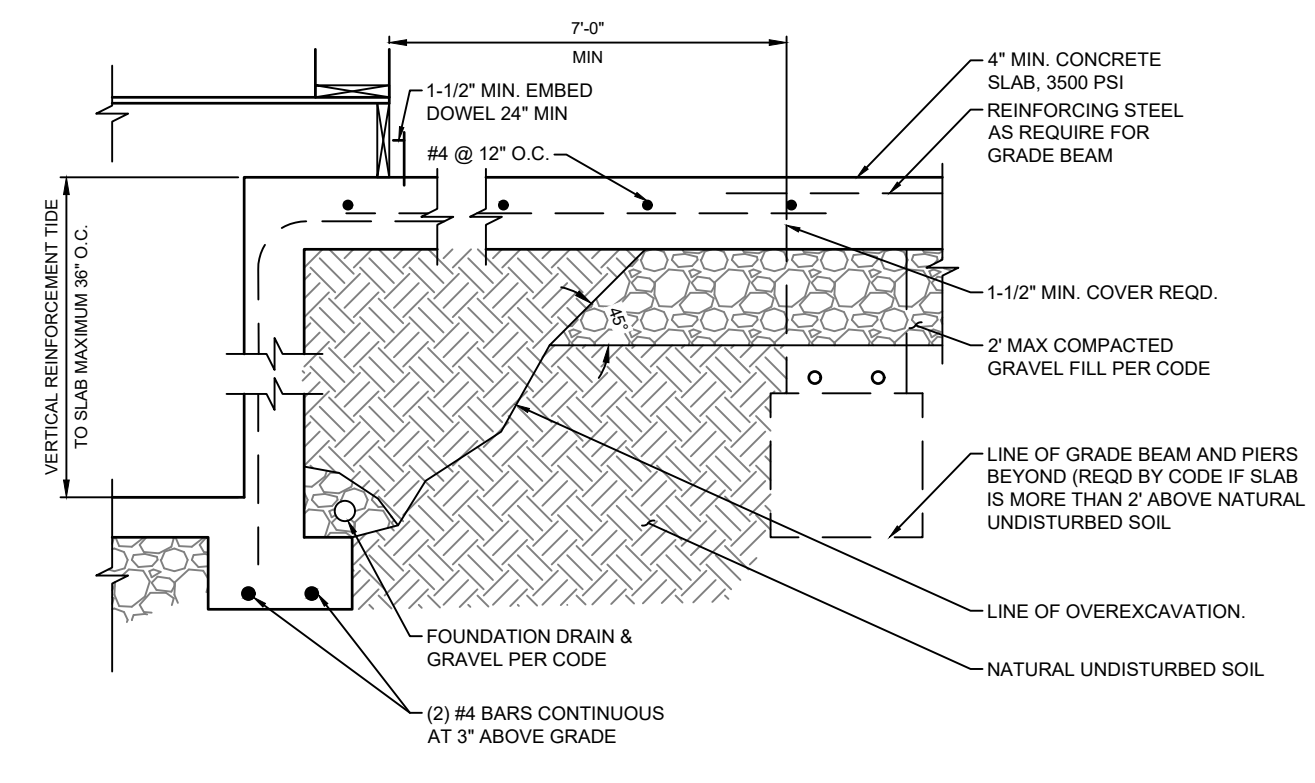
5 S2.0 FOUNDATION WALL JUMP DETAIL N.T.S.



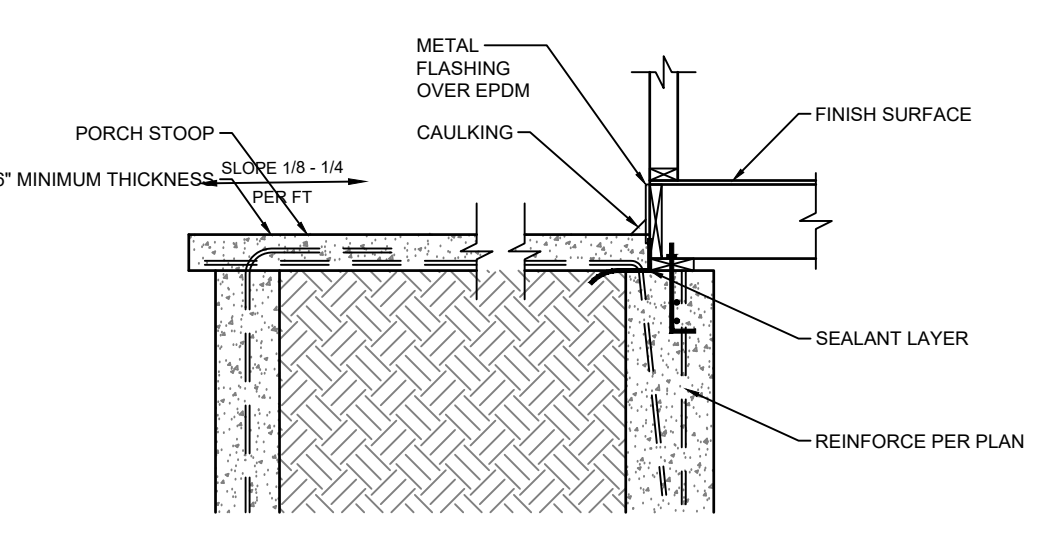
9 S2.0 SLAB OVER BEAM N.T.S.



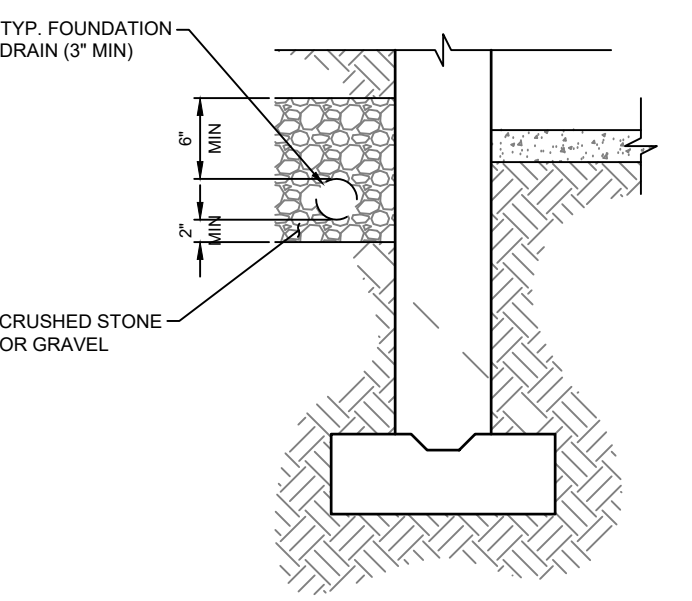
4 S2.0 TYPICAL WALL SECTION DETAIL N.T.S.



3 S2.0 TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAX 4' OVERDIG N.T.S.



2 S2.0 STANDARD PORCH SLAB N.T.S.



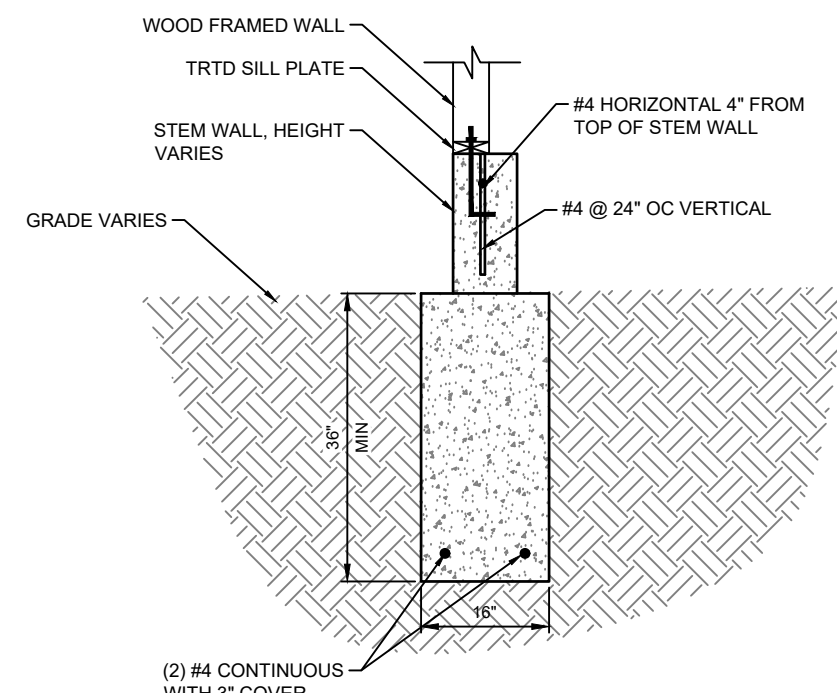
1 S2.0 FOUNDATION DRAIN DETAIL & RAISED SLAB N.T.S.

ELEVATED PORCH SLABS SPANNING 6' OR LESS IN ANY ONE DIRECTION CAN BE CONSTRUCTED AS FOLLOWS:

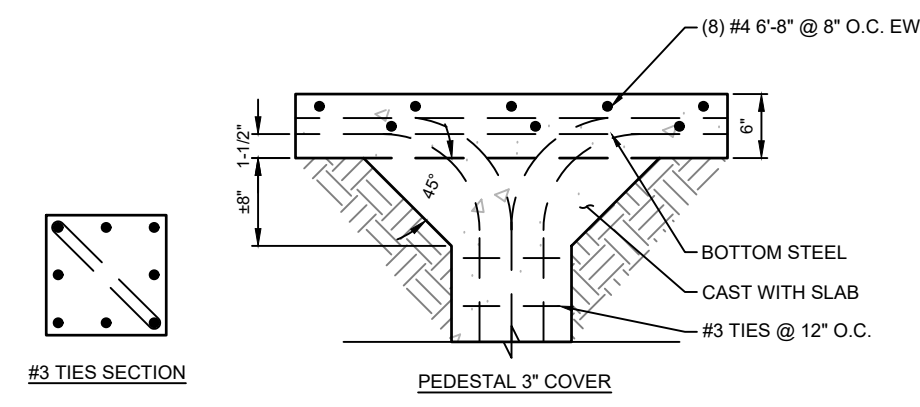
- MAX SPAN OF 6'
- MINIMUM THICKNESS OF 6"
- #4 BARS AT 12" O.C. EACH WAY
- MINIMUM 1-1/2" OF CONTINUOUS BEARING AT THE EDGES OF THE SLAB.

ELEVATED PORCH SLAB SPANNING GREATER THAN 6' SHALL BE TREATED AS AN ELEVATED GARAGE SLAB.

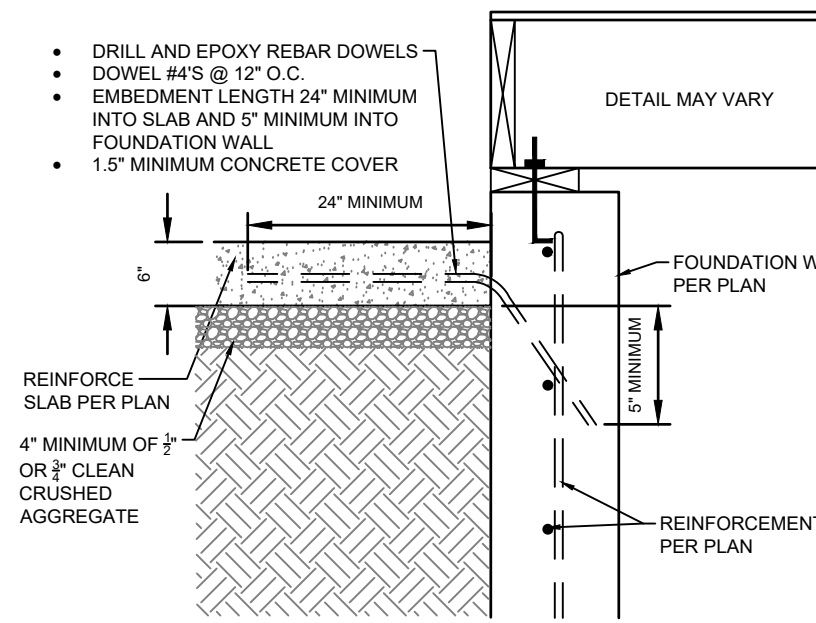
INSTALLATION OF A CONTINUOUS FOUNDATION DRAIN IS REQUIRED WHERE HABITABLE OR USABLE SPACE FOR ANY PORTION OF THE STRUCTURE IS LOCATED BELOW GRADE. THE FOUNDATION DRAIN SHALL BE AT OR BELOW THE AREA BEING PROTECTED. DRAINAGE TILE SHALL BE PLACED WITH POSITIVE OR NEUTRAL SLOPE TO MINIMIZE THE ACCUMULATION OF DEPOSITS IN THE DRAINAGE PIPE. PLACEMENT OF DRAIN TILE DIRECTLY ON TOP OF THE FOOTING IS ACCEPTABLE. (IRC R405) SEE "TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAXIMUM 4' OVERDIG" AND "FOUNDATION DRAIN DETAIL AT RAISED SLAB" DIAGRAMS FOR DETAILS.



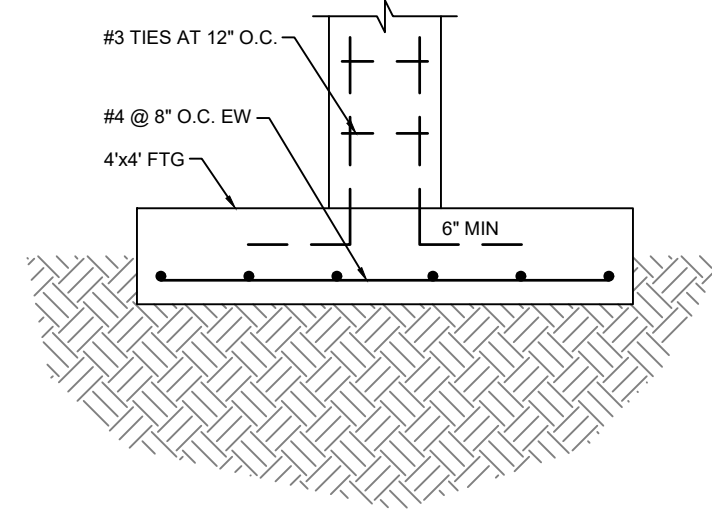
10
S3.0 TRENCH FOOTING WITH STEM WALL
N.T.S.



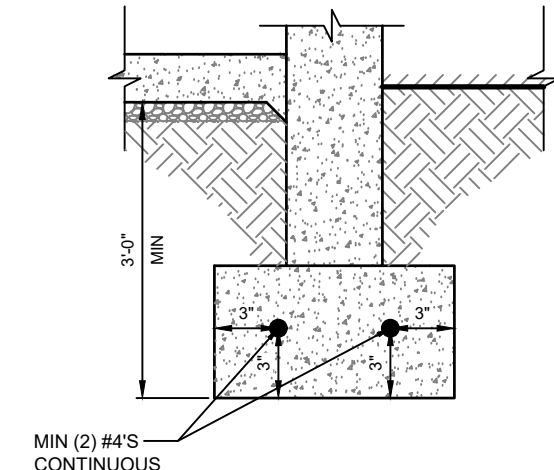
9
S3.0 SLAB AT PEDESTAL
N.T.S.



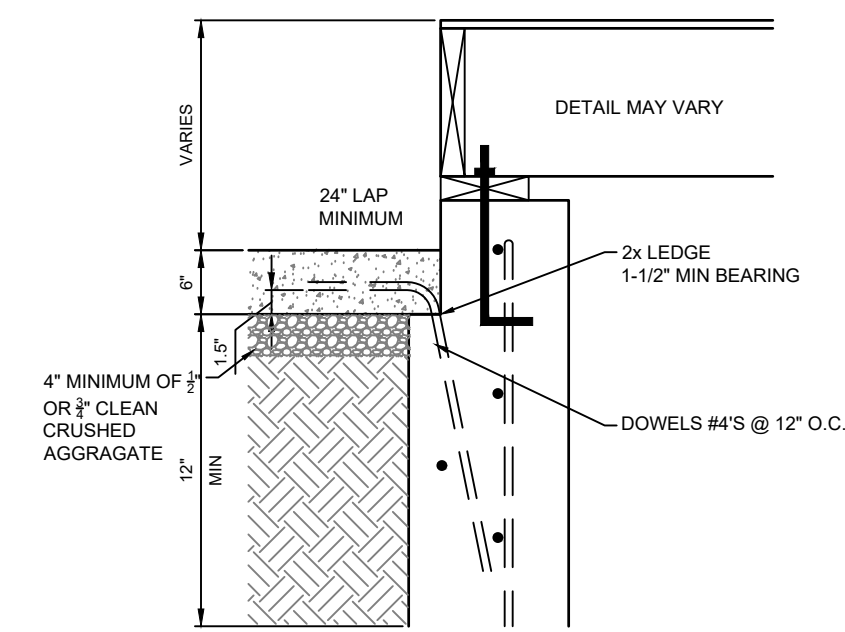
8
S3.0 ALTERNATE SLAB AT WALL
N.T.S.



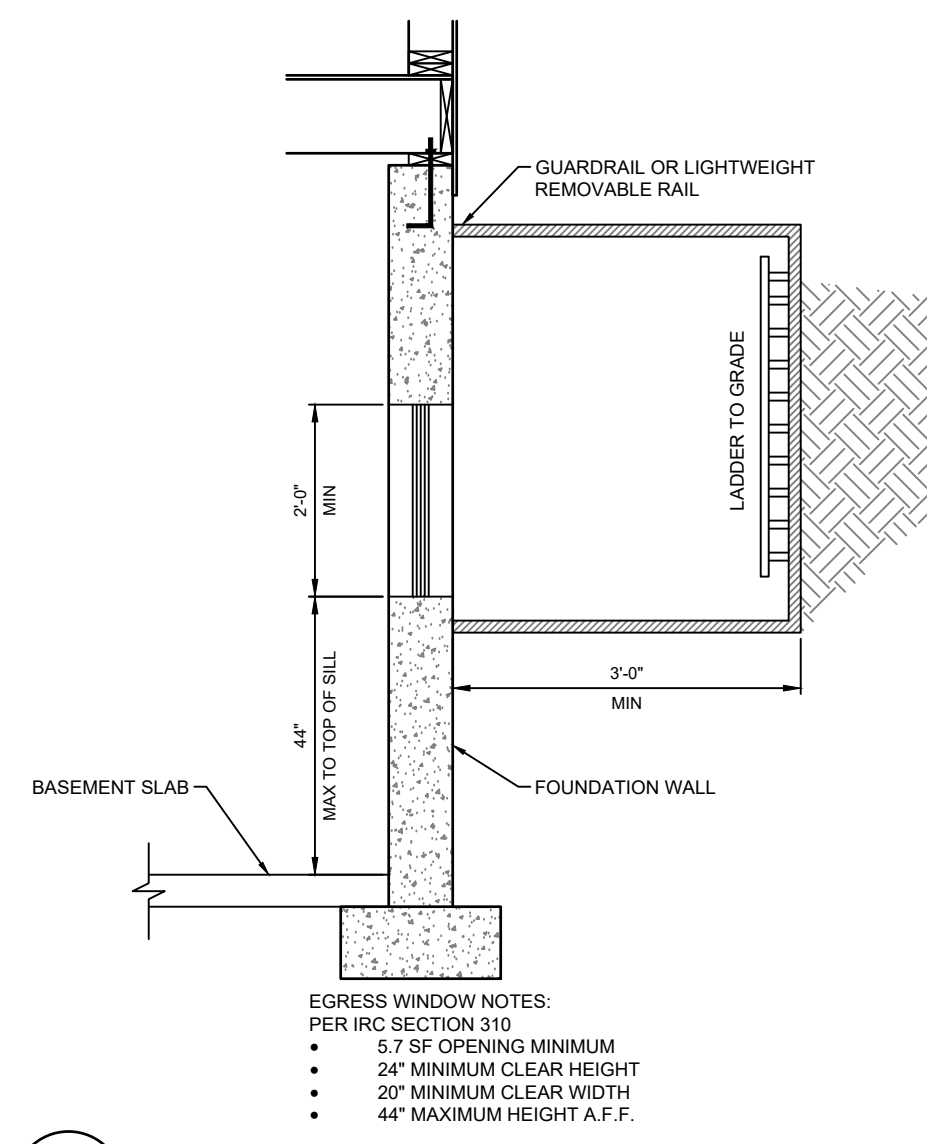
7
S3.0 PEDESTAL AT FOOTING
N.T.S.



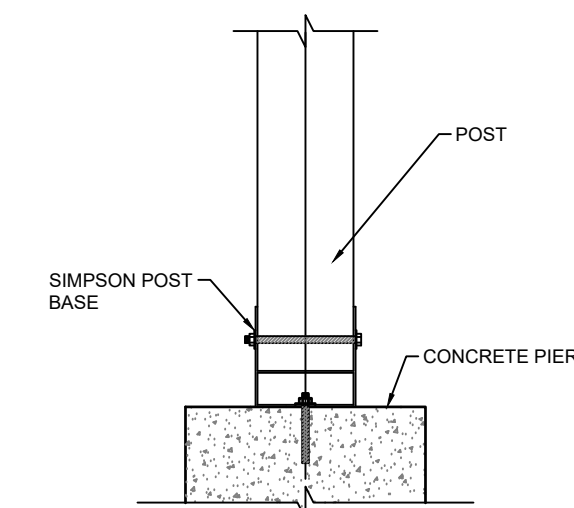
6
S3.0 FOOTING DETAIL
N.T.S.



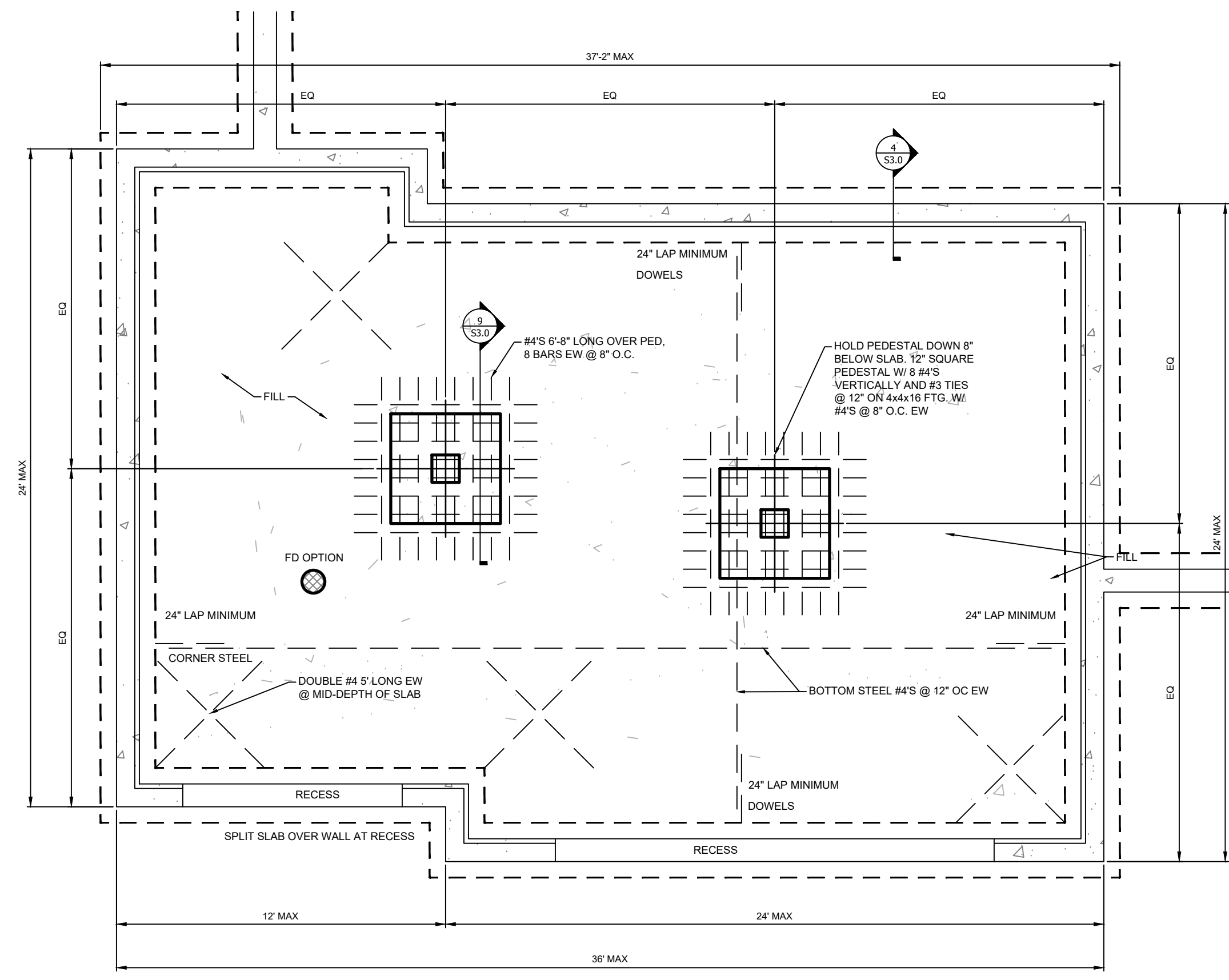
4
S3.0 SLAB AT WALL
N.T.S.



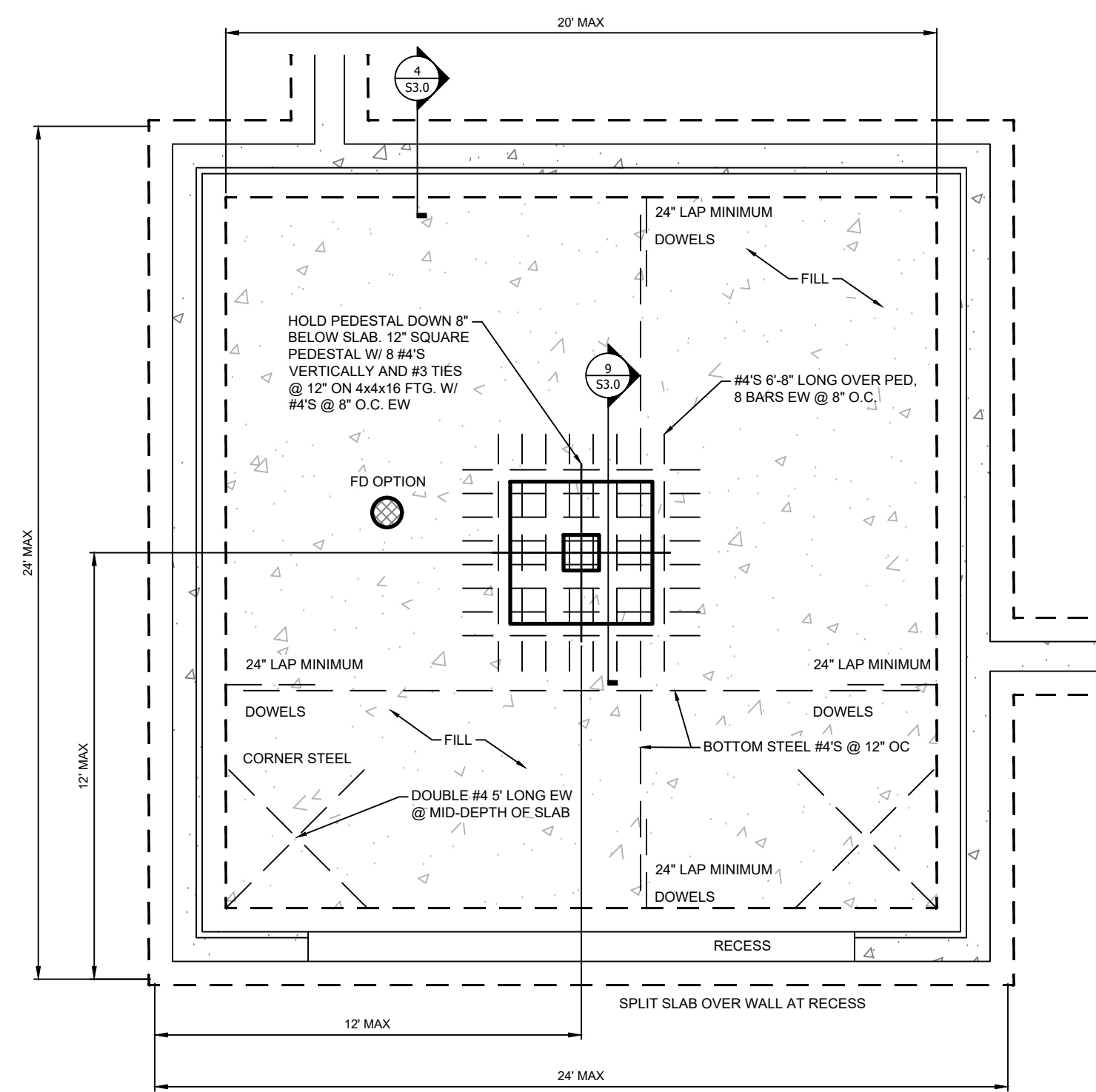
3
S3.0 TYPICAL EGRESS WINDOW SECTION DETAIL
N.T.S.



2
S3.0 POST BASE DETAIL
N.T.S.



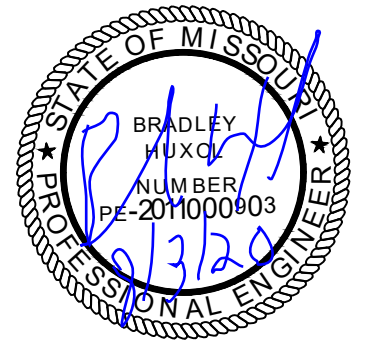
5
S3.0 GARAGE SLAB ON FILL
N.T.S.



1
S3.0 GARAGE SLAB ON FILL
N.T.S.



RESIDENTIAL ENGINEERING SERVICES, LLC
WWW.RES-KC.COM
600 SW JEFFERSON ST SUITE 300
LEES SUMMIT, MO 64063
(816) 399-4901



FOUNDATION DETAILS