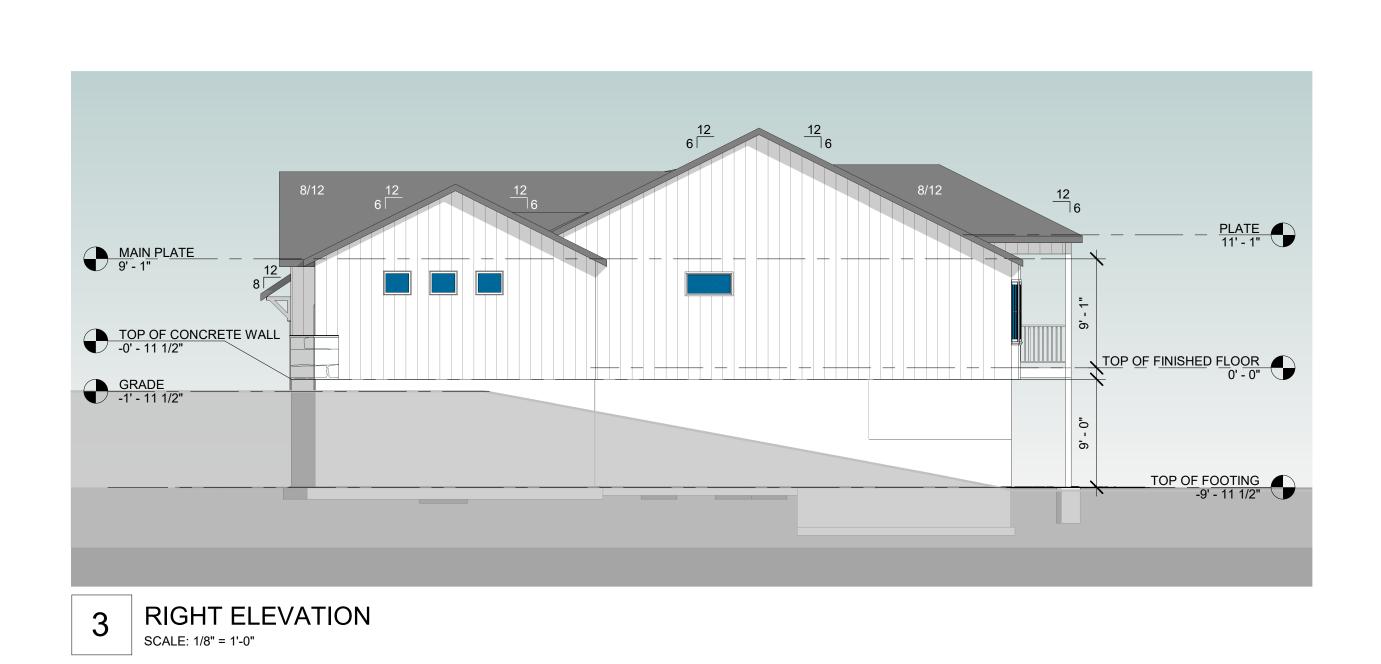




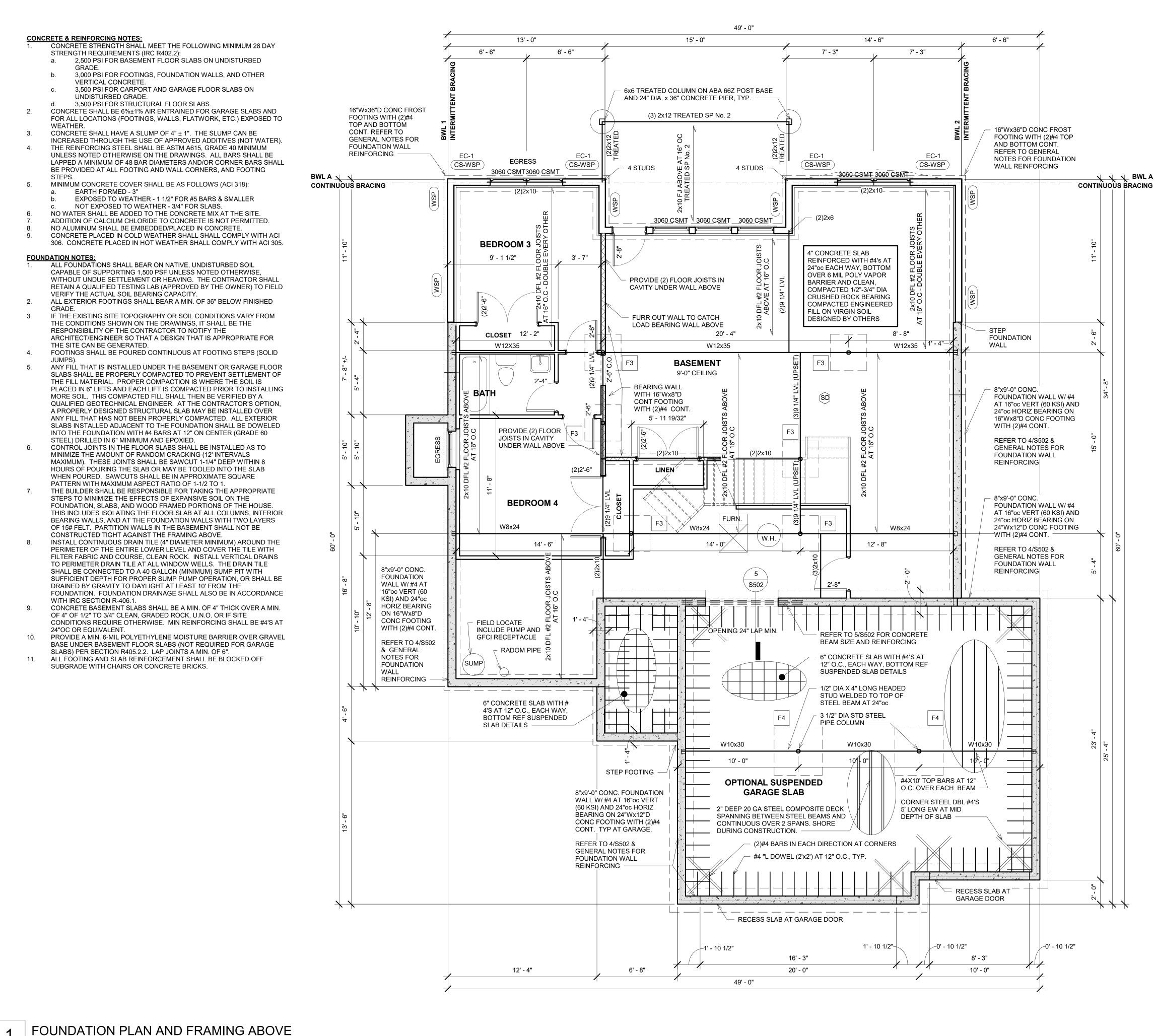
THE NORWAY I



SHEET INDEX			
SHEET	NAME		
A101	COVER SHEET		
S100	FOUNDATION PLAN		
S101	FIRST FLOOR FRAMING PLAN		
S102	ROOF FRAMING PLAN		
S500	GENERAL NOTES		
S501	DETAILS		
S502	DETAILS		
S503	DETAILS		
S504	DETAILS		
S505	DETAILS		

SQUARE FOO	TAGES
NAME	AREA
FIRST FLOOR	1531 SF
FINISHED BASEMENT	1233 SF
	2763 SF

C O	S JOB NUI	ting 1 East 11th Kansas City one: (816) 4 w.nortonsch MBER: 20	A, MO 64116 421-4232 amidt.com 23-1904 Insulting Engined SSOCIAL ON UER WWW AUER R SOCIAL SSOC	eers
PROJECT INFORMATION	THE NORWAY I	2361 SW River Trail Road Lee's summit, Missouri	McFarland Custom Builders, Inc.	
IS #	SUE DA1 9/12/2	re c	EVISIC DESCRIPT	_
СН	_) BY: OR: HEET	TITLE	MLR BSS
		ετ Ν Α1	umber D1	2



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

FLOC	DR FRAMING PLAN NOTES
-	ES ARE TYPICAL UNLESS NOTE NUMBER IS INSIDE OF
	LE, THEN THE NOTE REFERS TO A SPECIFIC LOCATION(S)
	KED ON THE PLAN.
1.	ALL LUMBER SHALL BE DF/L #2 OR BETTER U.N.O.
2.	ALL HEADERS TO HAVE 3" MIN. END BEARING.
3.	PROVIDE 3/4" TONGUE AND GROOVE WOOD STRUCTURAL
	PANEL SHEATHING FOR SUBFLOOR GLUED AND NAILED
	TO WOOD JOISTS WITH 8d NAILS AT 6"oc AT PANEL EDGES
	AND 12"oc AT NON-PANEL EDGES.
4.	ALL EXTERIOR WALL FRAMING SHALL BE 2x4 OR 2x6
-	DOUG-FIR NO. 2 AT 16"oc.
5.	PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING
	NAILED TO WOOD STUDS WITH 8d NAILS AT 6"oc AT PANEL
~	EDGES AND 12" oc AT NON-PANEL EDGES.
6.	ALL INTERIOR BEARING WALL FRAMING SHALL BE 2x4 OR 2x6 DOUG-FIR NO. 2 AT 16"oc.
7.	DOUBLE FLOOR JOISTS UNDER ALL PARTITION WALLS
1.	RUNNING PARALLEL WITH JOISTS.
8.	PROVIDE PROPER WALL INSULATION AS REQUIRED BY
0.	GOVERNING BUILDING CODE.
9.	STAIRS SHALL HAVE A MAXIMUM RISE OF 7-3/4" AND
5.	MINIMUM TREAD OF 10". ALL RISERS AND TREADS TO BE
	EQUAL BETWEEN FLOORS.
10.	PROVIDE WALL BRACING AS SHOWN ON PLAN.
11.	PROVIDE HEADERS AS SHOWN ON PLAN, FOR HEADERS
	NOT MARKED REFERENCE TYPICAL BEARING WALL
	HEADER SCHEDULE 5/S503.

RESIDENTIAL BASEMENT WALL NOTES:

HORIZONTAL REINFORCING FOR CONC FOUND WALLS SHALL BE #4'S AT VERTICAL REBAR SPACING FOR CONCRETE FOUNDATION WALLS SHALL BE PER THE TABLE BELOW:

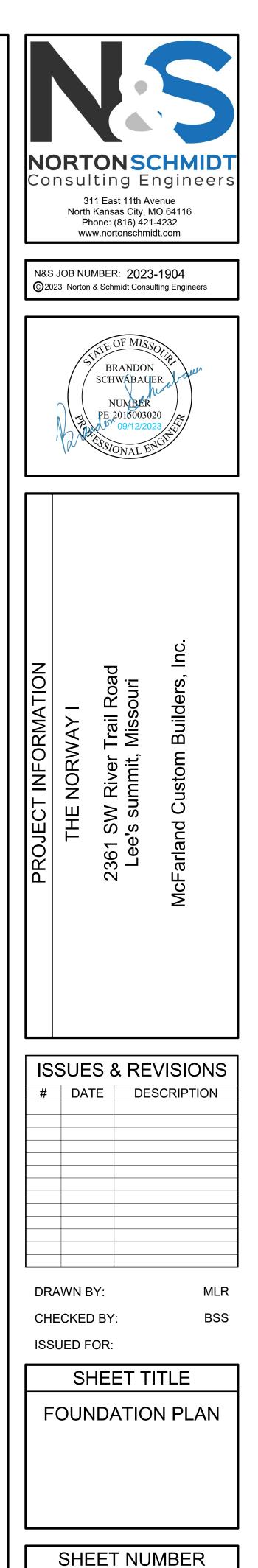
DE PER INE IADLE DELOW.					
	60 KSI R	EINFORCING	40KSI R	EINFORCING	
WALL THICK	8"	10"	8"	10"	
6' OR LESS	#4 @ 36"oc	#4 @ 36"oc	#4 @ 36"oc	#4 @ 36"oc	
7'	#4 @ 32"oc	#4 @ 36"oc	#4 @ 21"oc	#4 @ 36"oc	
8'	#4 @ 24"oc	#4 @ 36"oc	#4 @ 16"oc	#4 @ 36"oc	
9'	#4 @ 16"oc	#4 @ 20"oc	#4 @ 12"oc	#4 @ 16"oc	
10'	#4 @ 12"oc	#4 @16"oc	#4 @ 8"oc	#4 @ 12"oc	

MINIMUM REQUIREMENT FOR VERTICAL REBAR IN PLAIN

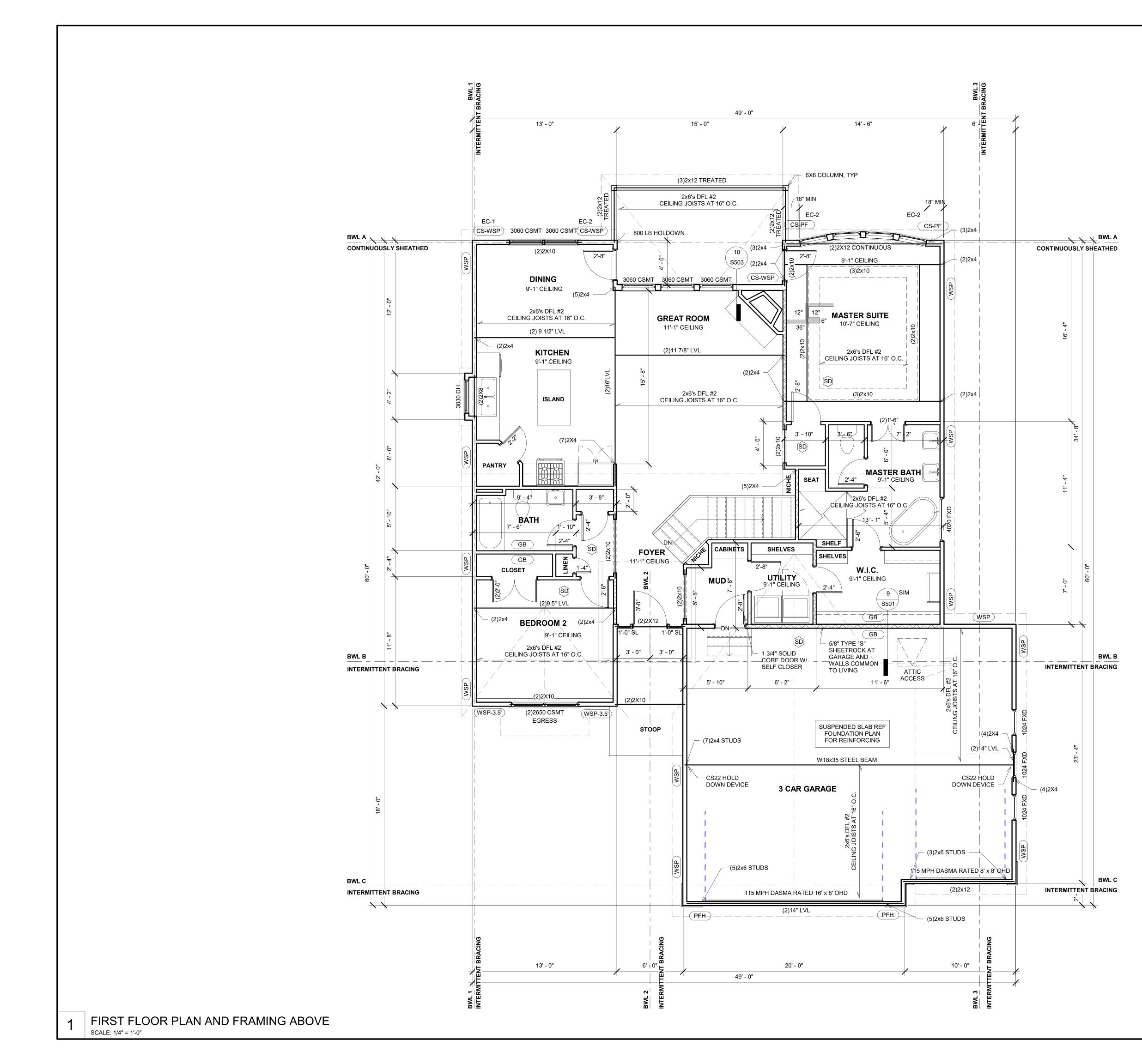
CONCRETE WALLS IS #4 BARS @ 36" O.C. (ACI 332). VERTICAL BARS SHALL BE CONTINUED TO WITHIN 4" OF THE TOP OF THE WALL.

- REBAR SHALL BE POSITIONED AT THE TENSION FACE OF THE WALL (2" FROM THE INSIDE FACE.
- REINFORCEMENT SHALL LAP A MINIMUM OF 24" AT ENDS,
- SPLICES, AND AROUND CORNERS.
- DESIGN BY A PROFESSIONAL ENGINEER IS REQUIRED FOR WALLS OVER 10' IN HEIGHT.
- BARS SHALL LAP A MINIMUM OF 48 BAR DIAMETERS AT ENDS, SPLICES AND AROUND CORNERS. UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- CONTINUOUS WALL FOOTINGS SHALL BE A MINIMUM OF 16" WIDE AND 8" DEEP WITH (2) #4 BARS CONTINUOUS FOR 8" THICK WALLS, U.N.O. CONTINUOUS WALL FOOTINGS SHALL BE A MINIMUM OF 24" WIDE AND 12" DEEP WITH (2) #4 BARS CONTINUOUS FOR 12" THICK WALLS.
- INSTALL 1/2"Ø X 1'-2" LONG ANCHOR BOLTS (7" EMBEDMENT) AT 3'-0" O.C. AND WITHIN 12" OF THE END OF EACH SILL MEMBER. MINIMUM SILL PLATE TO BE 2X6 PRESSURE TREATED.
- THE TOPS OF ALL BASEMENT (LOWER LEVEL) FOUNDATION WALLS SHALL BE CONNECTED TO THE FLOOR JOISTS. NAIL EACH FLOOR JOIST END AND END WALL BLOCKING TO THE WOOD SILL PLATE PER THE IRC NAILING SCHEDULE. WHERE FLOOR JOISTS RUN PARALLEL TO THE FOUNDATION WALLS, PROVIDE BLOCKING IN THE FIRST THREE JOIST
- SPACES AT 2'-0" O.C. OVER THE ENTIRE LENGTH OF THE FLOOR JOISTS. WALLS SHALL BE FULL HEIGHT FROM FOOTING TO FLOOR FRAMING. NO WOOD FRAMED CRIPPLE WALLS EXCEPT AS SPECIFICALLY NOTED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- STRAIGHT WALLS MORE THAN 5 FEET TALL AND MORE THAN 16 FEET 7 LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. REF TYP DEADMAN DETAIL.
- FOUNDATION WALLS SHALL BE DESIGNED FOR AN EQUIVALENT FLUID 8. PRESSURE (EFP) 60 PSF. PROVIDE STEEL SHIMS IN BEAM POCKETS TO LEVEL BEAMS. BEAM
- POCKETS SHALL BE GROUTED SOLID WITH 4,000 PSI NON-SHRINK GROUT AFTER BEAMS ARE LOADED WITH FRAMING MEMBERS.
- REINFORCE AROUND BEAM POCKETS BY BENDING TOP CONTINUOUS 10 HORIZONTAL BAR BELOW BEAM POCKET OR INSTALL SEPARATE BENT BAR LAPPED AND TIED MINIMUM 24" EACH SIDE. PROVIDE TWO #4 X 4'-0" LONG DIAGONAL BARS AT THE CORNERS OF ALL 11.
- OPENINGS IN CONCRETE WALLS AND AT FOOTING STEPS. ALSO PROVIDE 2 ADDITIONAL #4 ON ALL SIDES OF WALL OPENINGS. BARS SHALL BE 3'-0" LONGER THAN OPEN VERTICAL OR HORIZONTAL DIMENSION.
- FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE INTERIOR 12. SPACES AND FLOORS BELOW GRADE SHALL BE DAMP PROOFED FROM THE TOP OF THE FOOTING TO THE FINISHED GRADE WITH A BITUMINOUS COATING IN ACCORDANCE WITH SECTION R406.1. 13. INSULATION SHALL BE INSTALLED FOR ALL BASEMENT WALLS AS
- **REQUIRED PER SECTION N1102.1.**
- ALL SITE RETAINING WALLS GREATER THAN 4'-0" IN HEIGHT SHALL REQUIRE A DESIGN BY A PROFESSIONAL ENGINEER.
- A CONCRETE ENCASED GROUNDING ELECTRODE CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE PER SECTION E3608.1.

	FOOTING SCHEDULE				
MARK	SIZE L x W x THK	REINFORCING (NO) SIZE LOCATION	TOF EL	COLUMN	
F1	2'-0" x 2'-0" x 1'-0"	(4) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN	
F2	2'-6" x 2'-6" x 1'-0"	(4) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN	
F3	3'-0" x 3'-0" x 1'-0"	(6) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN	
F4	4'-0" x 4'-0" x 1'-4"	(8) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN	



S100



BRACED WALL METHODS

WSP - WOOD STRUCTURAL PANEL; WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" FOR 16" STUD SPACING, FASTEN WITH 6d COMMON NAILS (.131" \emptyset x2" LONG) AT 6"oc ALONG EDGES AND 12"oc AT INTERMEDIATE SUPPORTS, WHERE SHOWN ON PLANS. UNLESS OTHERWISE NOTED, PANEL WIDTH = 4'-0".

CS-WSP - CONTINOUSLY SHEATHED WOOD STRUCTURAL PANEL; WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" FOR 16" STUD SPACING, FASTEN WITH 6d COMMON NAILS (.131" \emptyset x2" LONG) AT 6"oc ALONG EDGES AND 12"oc AT INTERMEDIATE SUPPORTS, PLACED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF THE BRACED WALL LINE INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS.

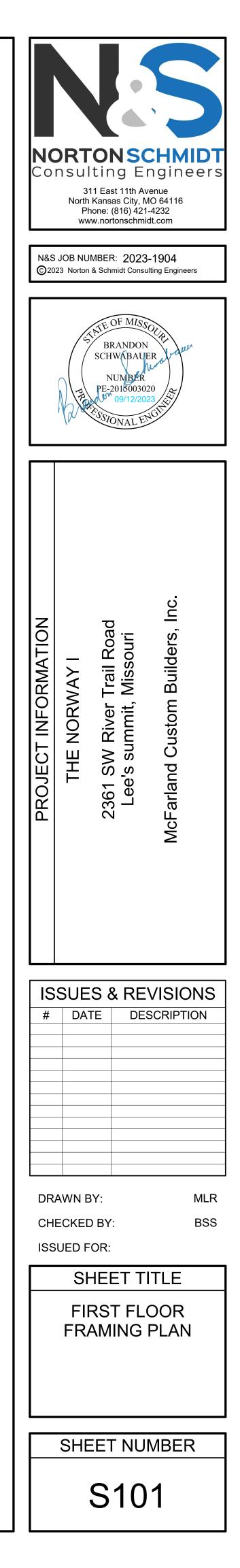
GB - GYPSUM BOARD; 1/2" GYPSUM BOARD WITH 13 GAGE, 1 3/8" LONG, 19/64" HEAD; 0.098" DIA, 1 3/8" LONG, ANNULAR-RINGED; 6d COOLER NAIL, 0.092" DIA, 1 7/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIA, 1 7/8" LONG, 19/64' HEAD; TYPE W OR TYPE S SCREWS; AT 7"oc EDGES & 7"oc FIELD

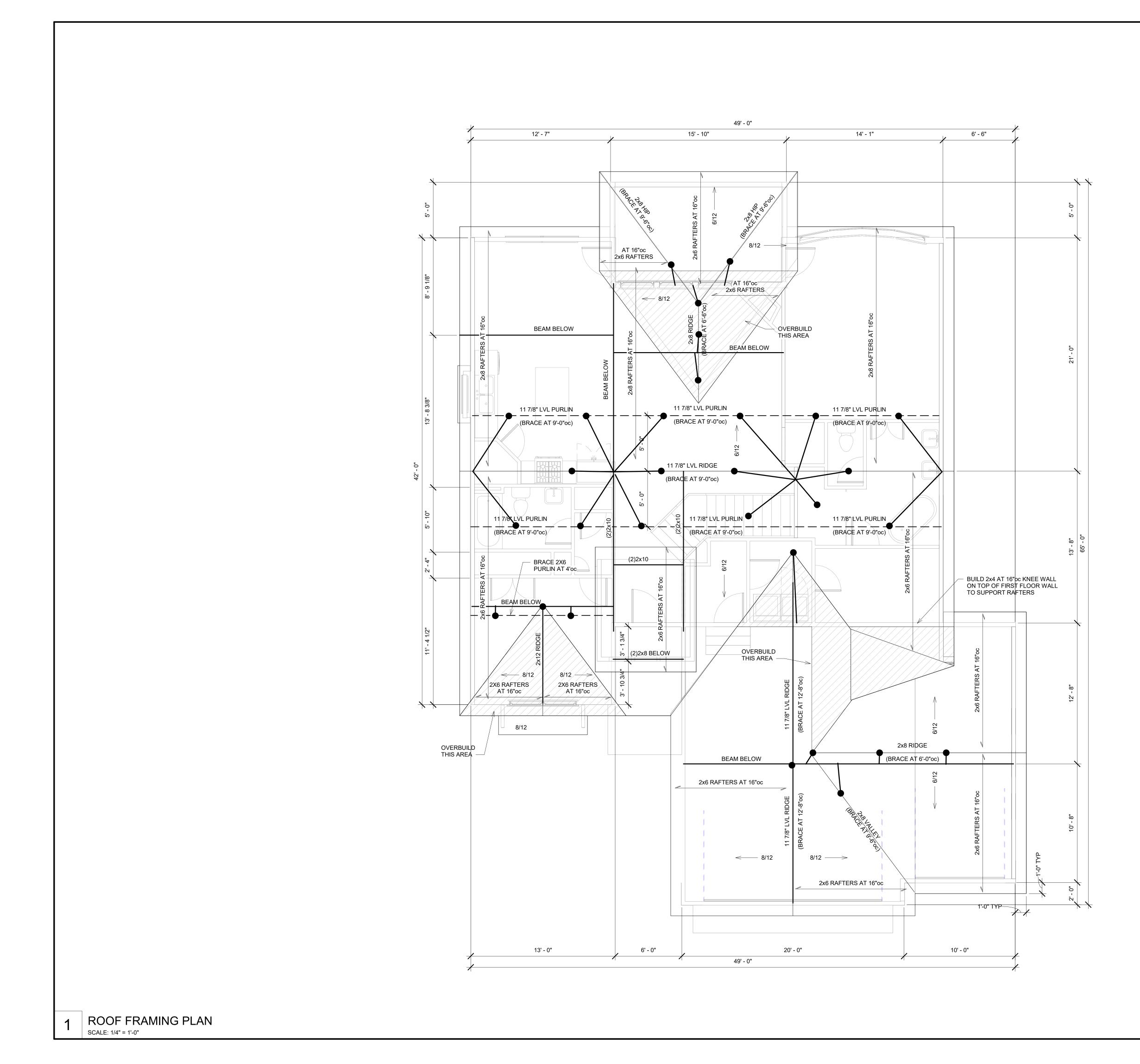
PFH - PORTAL FRAME WITH HOLD-DOWNS; REF PORTAL FRAME WITH HOLD-DOWNS DETAIL

ABW - ALTERNATE BRACED WALL; REF ALTERNATE BRACED WALL DETAIL

CS-PF - CONTINUOUSLY SHEATHED PORTAL FRAME; REF CONTINOUSLY SHEATHED PORTAL FRAME DETAIL

HPS - HARDBOARD PANEL SIDING; HARDBOARD PANEL SIDING WITH A 7/16" THICKNESS. FASTEN WITH 0.092" DIA, 0.225" DIA HEAD NAILS WITH LENGTH TO ACCOMMODATE 1 1/2" PENETRATION INTO STUDS AT 4"oc ALONG EDGES AND 8" AT INTERMEDIATE SUPPORTS.





ROOF FRAMING PLAN NOTES

NOTES ARE TYPICAL UNLESS NOTE NUMBER IS INSIDE OF CIRCLE, THEN THE NOTE REFERS TO A SPECIFIC LOCATION(S) MARKED ON THE PLAN.

- PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING NAILED TO ROOF RAFTERS WITH 8d NAILS AT 6"oc AT PANEL EDGES AND 12"oc AT NON-PANEL EDGES.
 PROVIDE ADDITIONAL DEPTH TO JOISTS AS REQUIRED TO PROVIDE 1" AIR GAP TO PREVENT CONDENSATION PLUS 12" INSULATION TO PROVIDE R-38 INSULATION VALUE TO VAULTED CEILING AREA WHERE SHOWN ON PLAN WITH CROSS HATCH.
- ALL RIDGE MEMBERS SHALL BE 1" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. ALL VALLEY AND HIP MEMBERS SHALL BE 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER.
 HIP AND VALLEY MEMBERS SHALL BE SUPPORTED AT
- THE RIDGE WITH A 2x6 T-BRACE TO A BEARING WALL BELOW.
 PROVIDE SOFFIT, RIDGE, AND GABLE END VENTS AS
- REQUIRED TO PROVIDE ADEQUATE VENTILATION FOR ROOF.
 PROVIDE PROPER FLASHING AND BUILDING PAPER
- UNDER SHINGLES AS REQUIRED TO PROVIDE WATER TIGHT SEAL AT ALL ROOF PENETRATIONS, RIDGES, VALLEYS, HIPS AND/OR OTHER SLOPE CHANGES.
 7. GUTTERS, DOWNSPOUTS, AND SPLASH BLOCKS SHALL BE PROVIDED TO INSURE ALL ROOF DRAINAGE IS DIRECTED 5 FEET MINIMUM FROM HOUSE BEFORE TOUCHING SOIL.
- 8. ALL GABLE END WALL FRAMING SHALL BE 2x4 DOUG-FIR NO. 2 AT 16"oc.
- 9. PROVIDE PROPER CEILING INSULATION AS REQUIRED BY GOVERNING BUILDING CODE.

<u>NOTE:</u>

|--|

NOTE:

NOTE: ROOF HAS BEEN DESIGNED WITH STRUCTURAL HIPS & VALLEYS. ALL HIPS & VALLEYS TO BE BRACED PER HIP/VALLEY RAFTER TABLE. ALL HIPS & VALLEYS TO BE 2x8 MIN UNO.

NOTE: ALL HIPS, VALLEYS, RIDGES, AND ROOF BEAMS SHALL COMPLY WITH IRC R802.3 & R802.4.3 & HAVE (1) SIMPSON H2.5A AT EACH END TO RESIST UPLIFT. WHERE THE ROOF MEMBER IS SUPPORTED BY A STRUT, IN ADDITION TO THE ROOF MEMBER TO STRUT UPLIFT CONNECTION, THE STRUT SHALL ALSO BE CONNECTED TO A BEARING WALL OR BEAM BELOW WITH A SIMPSON H2.5A.

C O N&S	In Sul 3 North Pr ww JOB NU 23 Norton	A Schmidt Consulting Engineer MBER: 2023-1904 & Schmidt Consulting Engineer MBER: 2023-1904 MBER: 2024 MBER: 202	ers
PROJECT INFORMATION	THE NORWAY I	2361 SW River Trail Road Lee's summit, Missouri McFarland Custom Builders, Inc.	
		BY:	
	RO	HEET TITLE OF FRAMING PLAN EET NUMBER	

	FIONAL RESIDENTIAL CODE (IRC) AND ITS SUPPLEMENTS	<u>STRI</u> 1.	JCTURAL STEEL: ALL STRUCTURAL STEEL
DESIGN LOADS: ROOF DEAD LOAD:			STRUCTURAL STELL STRUCTURAL STE MISCELLANEOUS
ROOF LIVE LOAD:	15 psf 20 psf		HOLLOW STRUCT
FLOOR DEAD LOAD: FLOOR LIVE LOAD:	10 psf	2.	STEEL PIPE ALL BEAM CONNECTIONS
BEDROOMS: ALL OTHER LIVING AREAS:	30 psf 40 psf		DIRECTION OF A REGISTE ARE SHOWN ON THE DRA
WIND LOADS: SEISMIC LOADS:	Vult=115 MPH, EXPOSURE C SITE CLASS "B"		THE REACTION PROVIDE
ASSUMED ALLOWABLE SOIL BEARING PRESSUR	E 1,500 PSF	3.	BOLTS SHALL BE ASTM A ALL COLUMN ANCHOR BO
GENERAL:		3. 4.	WELDING SHALL CONFOR
1. FURNISH ALL LABOR, MATERIAL AND EQU SHOWN OR INFERRED BY THESE DRAWI	JIPMENT NECESSARY TO COMPLETE THE WORK NGS.		FORTH BY THE AMERICAN ACCEPTED.
	RESPONSIBLE FOR VERIFYING ALL DIMENSIONS S AND FOR COORDINATING ALL DIMENSIONS AND	5.	PROVIDE 30# FELT BOND SLAB-ON-GRADE.
ELEVATIONS SHOWN WITH THE EXISTING	G CONDITIONS. IF ERRORS OR DISCREPANCIES IN HE CONTRACTOR'S RESPONSIBILITY TO BRING ALL	6.	ALL EXTERIOR STEEL EXI UNLESS NOTED OTHERW
DISCREPANCIES TO THE ATTENTION OF	THE ENGINEER BEFORE PROCEEDING WITH THE	7.	ALL STRUCTURAL STEEL TO SPECIFICATIONS. FIE
	TEMPORARY BRACING AND SHORING AS REQUIRED		
	E SAFETY OF ALL INDIVIDUALS INVOLVED. IMBING ELEMENTS SHALL BE INSTALLED PER THE	<u>WOC</u> 1.	D FRAMING NOTES: ALL STRUCTURAL LUMBE
	ILDING CODE AND THE LOCAL MUNICIPALITY. IEERS, L.L.C. HAS DESIGNED THE STRUCTURAL		DOUGLAS FIR LARCH #2 (LOAD BEARING WALL STU
FLOOR FRAMING AND WALL BRACING SY	STEM OF THESE PLANS FOR THE CONSTRUCTION ERENCED IN THE PLANS. NORTON & SCHMIDT	2.	BETTER. GLUE LAMINATED MEMBE
CONSULTING ENGINEERS, L.L.C. WILL NO	TTAKE RESPONSIBILITY FOR ANY RE-USE OF ANY ECIFICATIONS AT ANY OTHER PROPERTY OR		MINIMUM ALLOWABLE BE STRESS (FV) OF 285 PSI, A
ADDRESS WITHOUT OUR PRIOR WRITTE			MANUFACTÚRER'S RECO
BUILDER'S PLANS: THE TERM "BUILDER'S PLANS" REFERS TO A CER	RTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS.	3.	FOLLOWED. FLOOR JOISTS: SEE IRC 1
AS THE NAME IMPLIES, THESE PLANS REQUIRE 1	THAT THE CONTRACTOR POSSESSES	4.	GRADE OF FLOOR JOISTS FLOOR JOISTS BELOW PA
	CONTRACTOR WARRANTS TO NORTON & SCHMIDT		BE DOUBLED. ALL DOUB ON CENTER IN TWO ROW
IN CONSTRUCTION NECESSARY TO BUILD THIS F		5.	SOLID BLOCKING BETWE TOP OF BEAMS OR HEAD
DESIGN SERVICES, AND FOR THAT REASON THE RESTRICTED THE SCOPE OF PROFESSIONAL SE	CONTRACTOR OR HOME OWNER HAS	6.	JOIST MATERIAL SHALL B ALL FLOOR AND CEILING
PROVIDED BY THE LIMITED SERVICES SHALL BE	TERMED "BUILDER'S PLANS" IN RECOGNITION OF GH NORTON & SCHMIDT CONSULTING ENGINEERS,		SHALL BE ANCHORED TO
L.L.C. AND OUR CONSULTANTS HAVE PERFORM	ED THEIR SERVICES WITH DUE CARE AND	7.	ALL SUPPORTS FOR WOO OTHERWISE ON THE DRA
DILIGENCE, WE CANNOT GUARANTEE PERFECTI DISCOVERED BY THE USE OF THESE PLANS SHA	LL BE REPORTED IMMEDIATELY TO NORTON &		DIRECTLY ABOVE A BEAN SHALL BE CARRIED THRO
ADAPT THE "BUILDER'S PLANS" TO THE FIELD CO			WITH 2x4 STUB COLUMNS SUPPORT WALL OR BEAM
ADJUSTMENTS IN FIT, FORM, DIMENSION AND QU WITHOUT THE CONSENT OF NORTON & SCHMID	JANTITY. CHANGES MADE FROM THE PLANS	8.	ALL NAILING NOT INDICAT
	THE CONTRACTOR WILL BE RESPONSIBLE FOR		DISTANCES OF NAILS AN OF THE WOOD.
ELECTRICAL, AND PLUMBING CODE REQUIREME	NTS (WHICH IS EXCLUDED FROM THESE PLANS). IN NEEDED BY THE CONTRACTOR OR HOMEOWNER	9.	ALL NON-LOADBEARING
FOR CONSTRUCTION OF ANY ASPECT OF THE PI	ROJECT, NORTON & SCHMIDT CONSULTING		MINIMUM VERTICAL EXPA
	CHANGES TO THE PLANS SHALL RELIEVE NORTON	10.	SHEATHING FOR HORIZO STRUCTURAL GROUP II C
& SCHMIDT CONSULTING ENGINEERS, L.L.C. OF	ALL RESPONSIBILITIES OF THE CONSEQUENCES.		LARCH OR SOUTHERN PI OTHERWISE NOTED. WH
		11.	JOINTS SHALL BE OFFSE ALL WOOD STRUCTURAL
			TRADEMARK OF THE AME REQUIREMENTS OF PROI
		12.	WOOD STRUCTURAL PAN
ARCHITECTURAL NOTES:		13.	SUPPORTING MEMBERS
1. WATER RESISTIVE EXTERIOR WALL COV	ERING, FREE FROM HOLES AND BREAKS, SHALL BE	14.	ALL SAWN LUMBER EXPO
PER MANUFACTURER'S RECOMMENDAT	LL EXTERIOR WALLS. WRAP SHALL BE INSTALLED IONS AND SHALL BE IN COMPLIANCE WITH SECTION	15.	ROOF FRAMING - RIDGE I NOMINAL THICKNESS OF
	TION R802.5.2 FOR RAFTER AND CEILING JOIST		RAFTERS. HIP AND VALL BRACE TO A BEARING PA
CONNECTIONS. 3. "UFER" GROUND SHALL BE PROVIDED PE			RAFTERS SPAN, USE 2x6 THE RAFTERS. BRACE R
4. GUTTERS, DOWNSPOUTS, AND SPLASH I DRAINAGE IS DIRECTED 5 FEET MINIMUM	BLOCKS SHALL BE PROVIDED TO INSURE ALL ROOF I FROM HOUSE BEFORE TOUCHING SOIL.	16. 17.	PROVIDE CONTINUOUS S CEILING JOISTS: SEE IRC
STAIR NOTES:		18.	GRADE OF CEILING JOIST ROOF RAFTERS: SEE IRC
	AND MINIMUM TREAD IS 10" WITH A MINIMUM 6'-8"	19.	AND GRADE OF ROOF RA
2. PLACE HANDRAILS ON ALL STAIRS AND/C	OR LEVELS THAT EXCEED 30" ABOVE THE FLOOR OR ND HAVE INTERMEDIATE RAILS THAT DO NOT	19. 20.	ALL BEAMS OR HEADERS
ALLOW THE PASSAGE OF A 4" DIAMETER	SPHERE AND SHALL COMPLY WITH IRC SECTIONS		ANOTHER BEAM OR HEAI CONTINUOUS TO THE FO
	STAIRS SHALL HAVE WALLS AND THE UNDERSIDE	21.	ALL LIGHT GAGE METAL F "SIMPSON STRONG TIE" (
PER SECTION R302.7.	O WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE	22.	FRAMING IN ACCORDANC PROVIDE HEADERS AS SI
	RISERS SHALL HAVE A CONTINUOUS HANDRAIL ON 8" ABOVE THE STAIR NOSINGS.	23.	TYPICAL BEARING WALL
	COSS SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM	۷۵.	NAIL TO FLOOR JOISTS W
6. SPIRAL STAIRS SHALL BE CONSTRUCTED		24.	INTERMEDIATE SUPPORT ALL EXTERIOR WOOD WA
WINDOWS AND SAFETY GLAZING NOTES:		25. 26.	ALL INTERIOR BEARING V WOOD TRUSSES AND TH
APPROVED SAFETY GLAZING MATERIALS	IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF S: GLASS IN STORM DOORS; INDIVIDUAL FIXED OR		MANUFACTURER FOR TH CALCULATIONS WITH AN
A 24" ARCH OF THE DOOR IN A CLOSED F	OR WHERE THE NEAREST VERTICAL EDGE IS WITHIN POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60"		SUBMITTED FOR REVIEW REQUIREMENTS OF THE
	RWAYS AND LANDINGS WHERE THE GLAZING IS THE STAIR, ENCLOSURES FOR SPAS, TUBS,	27.	TEMPORARY STABILITY OF THE RESPONSIBILITY OF THE
SHOWERS AND WHIRLPOOLS; GLAZING I	N FIXED OR OPERABLE PANELS EXCEEDING 9 SQ. THAN 18" ABOVE THE FLOOR OR WALKING	00	THE MANUFACTURER.
SURFACE WITHIN 36".	ROTECTION REQUIREMENTS OF SECTION R312.2.	28. 29.	WOOD TRUSSES SHALL N MULTIPLE STUD MEMBER
	CTECHONINEQUINEIVIENTO OF SECTION ROTZ.2.		SHALL BE CARRIED DOW
	SHALL BE PROVIDED WITH PROPER EMERGENCY		CRETE & REINFORCING NOT
BEDROOM THAT HAS A MINIMUM OPERA	C SECTION R310. PROVIDE (1) WINDOW IN EACH BLE AREA OF 5.7 SQ. FT. WITH A MINIMUM	<u>CON</u> 1.	CONCRETE STRENGTH S
OPERABLE HEIGHT OF 24" AND WIDTH O			a. 2,500 PSI FOR BA
THE IMMEDIATE VICINITY OF THE BEDRO	OMS AND ON EACH ADDITIONAL FLOOR, INCLUDING SHALL BE INTERCONNECTED IN SUCH A MANNER		b. 3,000 PSI FOR FO c. 3,500 PSI FOR CA
THAT THE ACTUATION OF ONE ALARM AC	CTIVATES ALL OTHERS AND BE HARD WIRED WITH A	2.	d. 3,500 PSI FOR STI CONCRETE SHALL BE 6%
 BATTERY BACKUP, PER IRC SECTION R3⁻ CARBON MONOXIDE DETECTORS SHALL 		3.	(FOOTINGS, WALLS, FLAT CONCRETE SHALL HAVE
GARAGE			THE USE OF APPROVED
GARAGE: 1. GARAGE FLOORS SHALL SLOPE TOWARI		4.	THE REINFORCING STEEL OTHERWISE ON THE DRA
CORE OR HONEY COMBED STEEL DOOR			DIAMETERS AND/OR COR CORNERS, AND FOOTING
AREAS BY A MINIMUM 1/2" GYPSUM BOAF	OM THE DWELLING AND ITS UNFINISHED ATTIC RD APPLIED TO THE GARAGE SIDE. WHERE	5.	MINIMUM CONCRETE CO a. EARTH FORMED -
UNFINISHED ATTIC AREAS ARE PROVIDE	D ABOVE THE GARAGE, THE SUPPORTING ROTECTED WITH 1/2"GYPSUM BOARD OR		b. EXPOSED TO WEA c. NOT EXPOSED TO
EQUIVALENT. WHERE HABITABLE SPACE		6. 7.	NO WATER SHALL BE AD
BOARD ON THE GARAGE CEILING, SHALL		7. 8. 9.	NO ALUMINUM SHALL BE
COUNTER BALANCE SHALL CONSIST OF	THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING	9.	CONCRETE PLACED IN C
(7) 3 1/4"x0.102" NAILS THRU THE JAMB IN	D WITH 1 3/4"x0.12" NAILS @ 7"oc STAGGERED WITH TO THE HEADER, MINIMUM 2x8 HEADER FOR		
	SYSTEM. QUIREMENTS FOR A SELF CLOSING DOOR BETWEEN		
RESIDENCE AND GARAGE.	IIREMENTS OF DASMA 115 MPH.		

ASTM A500, GRADE B EL (HSS) ASTM A53, GRADE B (SCHED 40 MIN) DESIGNED BY THE STEEL FABRICATOR UNDER THE FESSIONAL ENGINEER UNLESS SPECIFIC CONNECTIONS CONNECTIONS SHALL BE DESIGNED TO 50% U.D.L. OR DRAWINGS, WHICH EVER IS GREATER. CONNECTIONS R AISC STEEL CONSTRUCTION MANUAL 13TH EDITION.

LL BE ASTM F1554 GRADE 36. E LATEST PUBLICATION OF APPLICABLE CODES SET G SOCIETY. NO UNAUTHORIZED WELDS WILL BE

ROUND ALL STEEL COLUMNS WHERE IN CONTACT WITH

THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED VE ONE COAT OF RUST INHIBITIVE PRIMER CONFORMING

HUP ALL UNPAINTED AREAS AND WELD AREAS.

RS, CEILING JOISTS, PURLINS AND HEADERS) SHALL BE R UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL PURLIN STRUTS SHALL BE DOUGLAS FIR STUD GRADE OR

ED "LVL" (LAMINATED VENEER LUMBER) SHALL HAVE A RESS (FB) OF 2950 PSI, A MINIMUM ALLOWABLE SHEAR IIMUM MODULUS OF ELASTICITY (E) OF 2,000 KSI. ALL FIONS FOR NAILING AND CONNECTIONS SHALL BE

02.3.1(1) AND R502.3.1(2) FOR SPAN, SIZE, SPACING, AND

WALLS RUNNING PARALLEL TO THE JOIST SPAN SHALL BERS SHALL BE NAILED TOGETHER WITH 16d NAILS 16" ERED OR PER MANUFACTURER SPECS. R JOISTS SHALL BE INSTALLED WHERE JOISTS BEAR ON BELOW POINT LOADS. ALL SOLID BLOCKING AND RIM

ME SIZE AND GRADE AS THE JOISTS. AT BUTT INTO THE SIDE OF A HEADER OR STEEL BEAM DER OR STEEL BEAM WITH STANDARD JOIST HANGERS. ES, RAFTERS AND PURLINS, UNLESS SHOWN HALL BEAR ON LOAD BEARING WALLS (WALLS LOCATED

CONTINUOUS FOOTING)! ALL CONCENTRATED LOADS FLOOR SYSTEM THICKNESS WITH SOLID BLOCKING OR H BLOCKS) THAT TRANSFER THE LOAD DOWN TO THE IE DRAWINGS SHALL CONFORM TO THE NAILING

JILDING CODE. SPACING, END DISTANCES AND EDGE SHALL BE SUCH AS TO AVOID THE UNUSUAL SPLITTING

LS IN THE BASEMENT SHALL BE PROVIDED WITH A 1" INT TO ALLOW FOR HEAVE IN THE FLOOR SLAB. VEEN THE SLAB AND THE FRAMING ABOVE!

PHRAGMS SHALL BE EXTERIOR GRADE, C/D ROOF AND WALL FRAMING SHALL BE OF DOUGLAS FIR-IDE SOLID BLOCKING AT ALL PANEL EDGES UNLESS ELS ARE APPLIED ON BOTH FACES OF A WALL, PANEL ON DIFFERENT FRAMING MEMBERS.

SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE YWOOD ASSOCIATION (APA) AND SHALL MEET THE NDARD PS-1.

L BE SET WITH FACE GRAIN PERPENDICULAR TO GER END JOINTS 4'-0". SED WITH ALL BOLTS FASTENING WOOD MEMBERS.

VEATHER OR IN CONTACT WITH CONCRETE OR REATED. ALLEY AND HIP RAFTERS SHALL HAVE A MINIMUM NIMUM DEPTH NOT LESS THAN THE END CUT OF THE RS SHALL BE SUPPORTED AT THE RIDGE BY A 2x6 "TEE" WHERE ROOF BRACING IS USED TO PERMIT LONGER

ACES AT 4'-0" O.C. WITH CONTINUOUS 2x6 PURLIN UNDER O BEARING PARTITIONS. ACKS FOR CEILING JOIST SPANS 12'-0" OR GREATER. 302.5(1) AND R805.5(2) FOR SPAN, SIZE, SPACING, AND

805.4.1(1) THRU R802.4.1(8) FOR SPAN, SIZE, SPACING,

E OF ALL BEAMS UNLESS NOTED OTHERWISE. AR ON WOOD FRAMING SHALL BE SUPPORTED BY BUILT-UP STUD COLUMN THE FULL WIDTH OF THE BEAM NOR OTHER STRUCTURAL FRAMING MEMBER, U.N.O. ACCESSORIES NOTED SHALL BE AS MANUFACTURED BY VED EQUAL, ATTACH FRAMING ACCESSORIES TO WOOD ANUFACTURERS RECOMMENDATIONS.

I PLAN, FOR HEADERS NOT MARKED REFERENCE CHEDULE. FONGUE & GROOVE WOOD STRUCTURAL PANEL. GLUE &

ILS AT 6" O.C. AT ALL PANEL EDGES AND AT 12" O.C. AT NG SHALL BE 2x6 DOUG-FIR NO. 2 AT 16"oc, UNO. MING SHALL BE 2x4 DOUG-FIR NO. 2 AT 16"oc, UNO.

ECTIONS SHALL BE DESIGNED BY THE TRUSS STIPULATED ON THE DRAWINGS. SHOP DRAWINGS AND R'S SEAL FOR THE STATE OF MISSOURI SHALL BE) FABRICATION. CONNECTION PLATES SHALL MEET THE NG BUILDING CODE.

TRUSSES DURING ERECTION SHALL BE THE TOR IN CONJUNCTION WITH ALL RECOMMENDATIONS OF

ELD CUT. OUT FOR SUPPORT OF LVL BEAMS AND HEADERS OF FOUNDATIONS OR SUPPORT BEAM(S).

ET THE FOLLOWING MINIMUM 28 DAY STRENGTH

LOOR SLABS ON UNDISTURBED GRADE.

OUNDATION WALLS, AND OTHER VERTICAL CONCRETE. ID GARAGE FLOOR SLABS ON UNDISTURBED GRADE. L FLOOR SLABS.

INTRAINED FOR GARAGE SLABS AND FOR ALL LOCATIONS TC.) EXPOSED TO WEATHER. OF 4" ± 1". THE SLUMP CAN BE INCREASED THROUGH S (NOT WATER).

E ASTM A615, GRADE 40 MINIMUM UNLESS NOTED LL BARS SHALL BE LAPPED A MINIMUM OF 48 BAR S SHALL BE PROVIDED AT ALL FOOTING AND WALL

L BE AS FOLLOWS (ACI 318):

1/2" FOR #5 BARS & SMALLER

R - 3/4" FOR SLABS.

HE CONCRETE MIX AT THE SITE. ED/PLACED IN CONCRETE.

TO CONCRETE IS NOT PERMITTED.

THER SHALL COMPLY WITH ACI 306. CONCRETE PLACED WITH ACI 305.

FOUNDATION NOTE

ALL FOUNDATIONS SHALL BEAR ON NATIVE, UNDISTURBED SOIL CAPABLE OF SUPPORTING 2,000 PSF UNLESS NOTED OTHERWISE, WITHOUT UNDUE SETTLEMENT OR HEAVING. THE CONTRACTOR SHALL RETAIN A QUALIFIED TESTING LAB (APPROVED BY THE OWNER) TO

FIELD VERIFY THE ACTUAL SOIL BEARING CAPACITY. ALL EXTERIOR FOOTINGS SHALL BEAR A MIN. OF 36" BELOW FINISHED GRADE. IF THE EXISTING SITE TOPOGRAPHY OR SOIL CONDITIONS VARY FROM THE CONDITIONS SHOWN ON THE DRAWINGS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT/ENGINEER SO THAT A DESIGN THAT IS APPROPRIATE FOR THE SITE CAN BE GENERATED.

FOOTINGS SHALL BE POURED CONTINUOUS AT FOOTING STEPS (SOLID JUMPS). ANY FILL THAT IS INSTALLED UNDER THE BASEMENT OR GARAGE FLOOR SLABS SHALL BE PROPERLY COMPACTED TO PREVENT SETTLEMENT OF THE FILL MATERIAL. PROPER COMPACTION IS WHERE THE SOIL IS PLACED IN 6" LIFTS AND EACH LIFT IS COMPACTED PRIOR TO INSTALLING MORE SOIL. THIS COMPACTED FILL SHALL THEN BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER. AT THE CONTRACTOR'S OPTION, A PROPERLY DESIGNED STRUCTURAL SLAB MAY BE INSTALLED OVER ANY FILL THAT HAS NOT BEEN PROPERLY COMPACTED. ALL EXTERIOR SLABS INSTALLED ADJACENT TO THE FOUNDATION SHALL BE DOWELED INTO THE FOUNDATION WITH #4 BARS AT 12" ON CENTER (GRADE 60 STEEL) DRILLED IN 6" MINIMUM AND EPOXIED.

CONTROL JOINTS IN THE FLOOR SLABS SHALL BE INSTALLED AS TO MINIMIZE THE AMOUNT OF RANDOM CRACKING (12' INTERVALS MAXIMUM). THESE JOINTS SHALL BE SAWCUT 1-1/4" DEEP WITHIN 8 HOURS OF POURING THE SLAB OR MAY BE TOOLED INTO THE SLAB WHEN POURED. SAWCUTS SHALL BE IN APPROXIMATE SQUARE PATTERN WITH MAXIMUM ASPECT RATIO OF 1-1/2 TO 1.

THE BUILDER SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE STEPS TO MINIMIZE THE EFFECTS OF EXPANSIVE SOIL ON THE FOUNDATION, SLABS, AND WOOD FRAMED PORTIONS OF THE HOUSE. THIS INCLUDES ISOLATING THE FLOOR SLAB AT ALL COLUMNS. INTERIOR BEARING WALLS, AND AT THE FOUNDATION WALLS WITH TWO LAYERS OF 15# FELT. PARTITION WALLS IN THE BASEMENT SHALL NOT BE CONSTRUCTED TIGHT AGAINST THE FRAMING ABOVE.

INSTALL CONTINUOUS DRAIN TILE (4" DIAMETER MINIMUM) AROUND THE PERIMETER OF THE ENTIRE LOWER LEVEL AND COVER THE TILE WITH FILTER FABRIC AND COURSE, CLEAN ROCK. INSTALL VERTICAL DRAINS TO PERIMETER DRAIN TILE AT ALL WINDOW WELLS. THE DRAIN TILE SHALL BE CONNECTED TO A 40 GALLON (MINIMUM) SUMP PIT WITH SUFFICIENT DEPTH FOR PROPER SUMP PUMP OPERATION, OR SHALL BE DRAINED BY GRAVITY TO DAYLIGHT AT LEAST 10' FROM THE FOUNDATION. FOUNDATION DRAINAGE SHALL ALSO BE IN ACCORDANCE WITH IRC SECTION R-405.1.

- CONCRETE BASEMENT SLABS SHALL BE A MIN. OF 4" THICK OVER A MIN. OF 4" OF 1/2" TO 3/4" CLEAN, GRADED ROCK, U.N.O. OR IF SITE CONDITIONS REQUIRE OTHERWISE. MIN REINFORCING SHALL BE #4'S AT 24"oc OR EQUIVALENT.
- PROVIDE A MIN. 6-MIL POLYETHYLENE MOISTURE BARRIER OVER GRAVEL BASE UNDER 10. BASEMENT FLOOR SLABS (NOT REQUIRED FOR GARAGE SLABS) PER SECTION R405.2.2. LAP JOINTS A MIN. OF 6".
- ALL FOOTING AND SLAB REINFORCEMENT SHALL BE BLOCKED OFF SUBGRADE WITH 11. CHAIRS OR CONCRETE BRICKS.

RESIDENTIAL BASEMENT WALL NOTES

VERTICAL REBAR SPACING FOR CONCRETE FOUNDATION WALLS SHALL BE PER THE TABLE

	_OW:	60 KSI REII	NFORCING	40 KSI REIN	IFORCING
WALL THICKNESS		8"	10"	8"	10"
т	6' OR LESS	#4 @ 36" O.C.	#4 @ 36" O.C.	#4 @ 36" O.C.	#4 @ 36" O.C.
HEIGHT	7'	#4 @ 32" O.C.	#4 @ 36" O.C.	#4 @ 21" O.C.	#4 @ 36" O.C.
	8'	#4 @ 24" O.C.	#4 @ 36" O.C.	#4 @ 16" O.C.	#4 @ 36" O.C.
WALL	9'	#4 @ 16" O.C.	#4 @ 20" O.C.	#4 @ 12" O.C.	#4 @ 16" O.C.
>	10'	#4 @ 12" O.C.	#4 @ 16" O.C.	#4 @ 8" O.C.	#4 @ 12" O.C.
a.	-			REBAR IN PLAIN (CONCRETE WALL

BARS @ 36" O.C. (ACI 332). VERTICAL BARS SHALL BE CONTINUED TO WITHIN 4" OF THE TOP OF THE WALL. REBAR SHALL BE POSITIONED AT THE TENSION FACE OF THE WALL (2" FROM THE

INSIDE FACE. REINFORCEMENT SHALL LAP A MINIMUM OF 24" AT ENDS, SPLICES, AND AROUND d. CORNERS

- DESIGN BY A PROFESSIONAL ENGINEER IS REQUIRED FOR WALLS OVER 10' IN e. HEIGHT
- HORIZONTAL REINFORCING SHALL MATCH THE SIZE OF THE VERTICAL f. REINFORCING. PROVIDE 1 - BAR WITHIN 12" OF THE TOP OF THE WALL WITH ADDITIONAL BARS SPACED AT 24" O.C. MAX.

BARS SHALL LAP A MINIMUM OF 48 BAR DIAMETERS AT ENDS, SPLICES AND AROUND 2

- CORNERS. UNLESS OTHERWISE NOTED ON THESE DRAWINGS. CONTINUOUS WALL FOOTINGS SHALL BE A MINIMUM OF 16" WIDE AND 8" DEEP WITH (2) #4 3. BARS CONTINUOUS FOR 8" THICK WALLS, U.N.O. CONTINUOUS WALL FOOTINGS SHALL BE
- A MINIMUM OF 24" WIDE AND 12" DEEP WITH (2) #4 BARS CONTINUOUS FOR 12" THICK WALLS. INSTALL 1/2"Ø x 1'-2" LONG ANCHOR BOLTS (7" EMBEDMENT) AT 2'-0" O.C. AND WITHIN 12" 4.
- OF THE END OF EACH SILL MEMBER. MINIMUM SILL PLATE TO BE 2x6 PRESSURE TREATED. THE TOPS OF ALL BASEMENT (LOWER LEVEL) FOUNDATION WALLS SHALL BE CONNECTED TO THE FLOOR JOISTS. NAIL EACH FLOOR JOIST END AND END WALL BLOCKING TO THE WOOD SILL PLATE PER THE IRC NAILING SCHEDULE. WHERE FLOOR JOISTS RUN PARALLEL TO THE FOUNDATION WALLS, PROVIDE BLOCKING IN THE FIRST THREE JOIST SPACES AT
- 2'-0" O.C. OVER THE ENTIRE LENGTH OF THE FLOOR JOISTS. WALLS SHALL BE FULL HEIGHT FROM FOOTING TO FLOOR FRAMING. NO WOOD FRAMED CRIPPLE WALLS EXCEPT AS SPECIFICALLY NOTED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 7. FOUNDATION WALLS SHALL BE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE (EFP) 60 PSF PROVIDE STEEL SHIMS IN BEAM POCKETS TO LEVEL BEAMS. BEAM POCKETS SHALL BE 8.
- GROUTED SOLID WITH 4,000 PSI NON-SHRINK GROUT AFTER BEAMS ARE LOADED WITH FRAMING MEMBERS
- REINFORCE AROUND BEAM POCKETS BY BENDING TOP CONTINUOUS HORIZONTAL BAR 9. BELOW BEAM POCKET OR INSTALL SEPARATE BENT BAR LAPPED AND TIED MINIMUM 24" EACH SIDE.
- PROVIDE TWO #4 X 4'-0" LONG DIAGONAL BARS AT THE CORNERS OF ALL OPENINGS IN 10. CONCRETE WALLS AND AT FOOTING STEPS. ALSO PROVIDE 2 ADDITIONAL #4 ON ALL SIDES OF WALL OPENINGS. BARS SHALL BE 3'-0" LONGER THAN OPEN VERTICAL OR HORIZONTAL DIMENSION.
- FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS 11. BELOW GRADE SHALL BE DAMP PROOFED FROM THE TOP OF THE FOOTING TO THE FINISHED GRADE WITH A BITUMINOUS COATING IN ACCORDANCE WITH SECTION R406.1. 12.
- INSULATION SHALL BE INSTALLED FOR ALL BASEMENT WALLS AS REQUIRED PER SECTION N1102.1 ALL SITE RETAINING WALLS GREATER THAN 4'-0" IN HEIGHT SHALL REQUIRE A DESIGN BY A 13. PROFESSIONAL ENGINEER.
- A CONCRETE ENCASED GROUNDING ELECTRODE CONNECTION SHALL BE PROVIDED TO 14. THE ELECTRICAL SERVICE PER SECTION E3608.1.
- WOOD DECK FRAMING NOTES: ALL WOOD DECK FRAMING SHALL COMPLY WITH THE LATEST EDITION OF THE

"RESIDENTIAL DECKS - PERMIT AND CONSTRUCTION GUIDELINES" AS PUBLISHED BY THE JOHNSON COUNTY CONTRACTOR LICENSING PROGRAM. WOOD FRAMING FOR EXTERIOR DECKS SHALL BE TREATED SOUTHERN PINE #2 OR 2.

BETTER.

ABBREVIATIONS LEGEND

•	AB	ANCHOR BOLT
	ACI	AMERICAN CONCRETE INSTITUTE
	AFF	ABOVE FINISH FLOOR
	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
	AISI	AMERICAN IRON AND STEEL INSTITUTE
	ARCH	
	ASTM	AMERICAN SOCIETY FOR TESTING AND
	AWS	MATERIALS
	BFF	AMERICAN WELDING SOCIETY
	BFS	BELOW FINISH FLOOR
	BO	BOTTOM OF FOOTING STEP
	BOS	BOTTOM OF
	BRG	BOTTOM OF STEEL
	BWP	BEARING
	CIP	BRACED WALL PANEL
	CJ	CAST-IN-PLACE CONCRETE
	CL	CONTROL JOINT (WALL)
	CLR	CENTER LINE
	COL	CLEAR
	CONC CONST	CONCRETE
	CONT	CONSTRUCTION
	DIA	CONTINUOUS
	EIFS	DIAMETER
	EL	EXTERIOR INSULATION AND FINISH SYSTEM
	ELEC	ELEVATION
	EQ	ELECTRICAL
	EW	EQUAL
	FDN	EACH WAY
	FF	FOUNDATION
	FS	FINISH FLOOR
	FTG	FAR SIDE
	GA	FOOTING
	GC	GAGE
	GYP BD	
	HORIZ	
	HSA	HORIZONTAL
	INFO	HEADED STUD ANCHOR
	JST	INFORMATION
	JT	JOIST
	KSI	JOINT
	LBS	KIPS PER SQUARE INCH
	LONG	POUNDS
	MAX	LONGITUDINAL
	IVIAA	

ECH FR IN	MECHANICAL MANUFACTURER MINIMUM
ISC	MISCELLANEOUS
TL O	METAL NUMBER
S	
TS C	NOT TO SCALE ON CENTER
H AF	OPPOSITE HAND POWDER ACTUATED
CF	FASTENERS
- _F	POUNDS PER CUBIC FEET PLATE
SF SI TY EF	POUNDS PER LINEAR FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH QUANTITY
EINF	REFERENCE
EQD EV	REINFORCING REQUIRED
D D	REVERSE
M &B	ROUGH OPENING SIMILAR
-S	TOP AND BOTTOM
HK D	TOP OF FOOTING STEP THICK
C	TOP OF
DF DP	TOP OF CONCRETE TOP OF FOOTING
DS	TOP OF PAVING TOP OF STEEL
RANS /P	TRANSVERSE
NO ERT	TYPICAL UNLESS NOTED OTHERWISE VERTICAL
BM	WIDTH
P S	WALL BRACE METHOD WORK POINT
WF	WALL STEP
	WELDED WIRE FABRIC

SYMBOLS LEGEND

MAXIMUM

	ELEVATION DESIGNATIO N		REVISION DESIGNATION
\	CUT SYMBOL	(22)	PLAN NOTE SYMBOL
TYPE NO/SHEET	SECTION CUT	1	SLAB JOINT DESIGNATION
TYPE NO/SHEET	ELEVATION DETAIL	↔ 100'-0"	SPOT ELEVATION
	BLOWUP DETAIL		CONCRETE WALL
WSP	WOOD STRUCTURAL PANEL		WOOD NON-LOAD BEARING STUD WALL
ABW	ALTERNATE BRACED WALL PANEL		BRACED WALL PANEL
PFH	PORTAL FRAME WITH HOLD-DOWNS		BRACED WALL LINE
PFG	PORTAL FRAME AT GARAGE		WOOD STUD BEARING WALL
(SD)	SMOKE DETECTOR		
CD	CARBON-MONOXIDE DETECTOR		

INSULATION AND FENESTRATION REQUIREMENTS - IRC TABLE N1102.1.2 THESE VALUES ARE BASED ON CLIMATE ZONE 4 PER IRC FIGURE N1101.7 OR TABLE N1101.7.

EFERENCE IRC FOR DIFFEREN	T CLIMATE ZONE VALUES						
COMPONENT		VALUE					
ENESTRATION		U ≤ TO 0.32	(b)				
KYLIGHT		U ≤ TO 0.55	(b)				
AZED FENESTRATION SHGC	ZED FENESTRATION SHGC U ≤ TC						
EILING		R-49					
EILING WITH ATTIC SPACES (O	R-38						
EILING- VAULTED (500 SQ.FT. O EILING AREA, WHICHEVER IS LE	R 20% OF THE TOTAL INSULATED ESS)	R-30					
OOD FRAME WALL		R-20 OR R-13 + 5	(h)				
ASS WALL	S WALL						
OOR		R-19					
ASEMENT WALL		R-10 / R-13	(c)				
AB (R VALUE/DEPTH)	AB (R VALUE/DEPTH)						
RAWLSPACE WALL W/ FLOOR I	NSULATION	R-10 / R-13	(c)				
JCTS OUTSIDE OF THE	SUPPLY AND RETURN	R-8					
ONDITIONED SPACE	IN FLOOR & CEILING ASSEMBLY	R-6					

R VALUES ARE MINIMUMS. U - FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE. THE FENESTRATION U - FACTOR EXCLUDES SKYLIGHTS. THE SHGC APPLIES TO ALL GLAZED

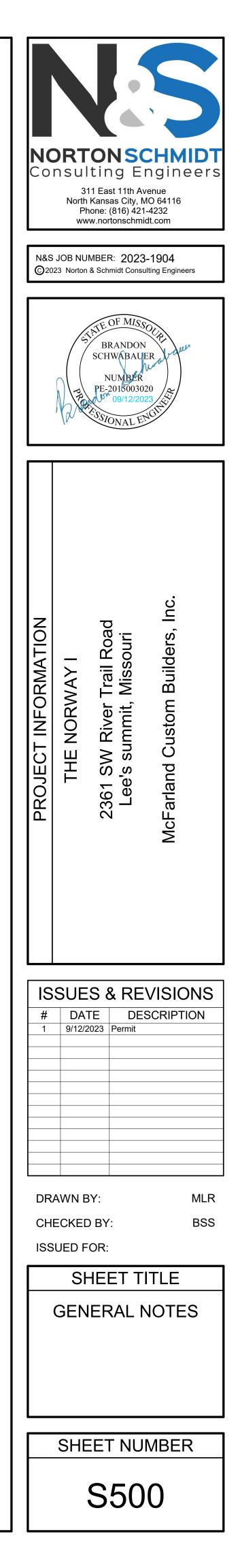
FENESTRATION. "10/13" MEANS R-10 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION ON THE INTERIOR OF THE BASEMENT WALL.

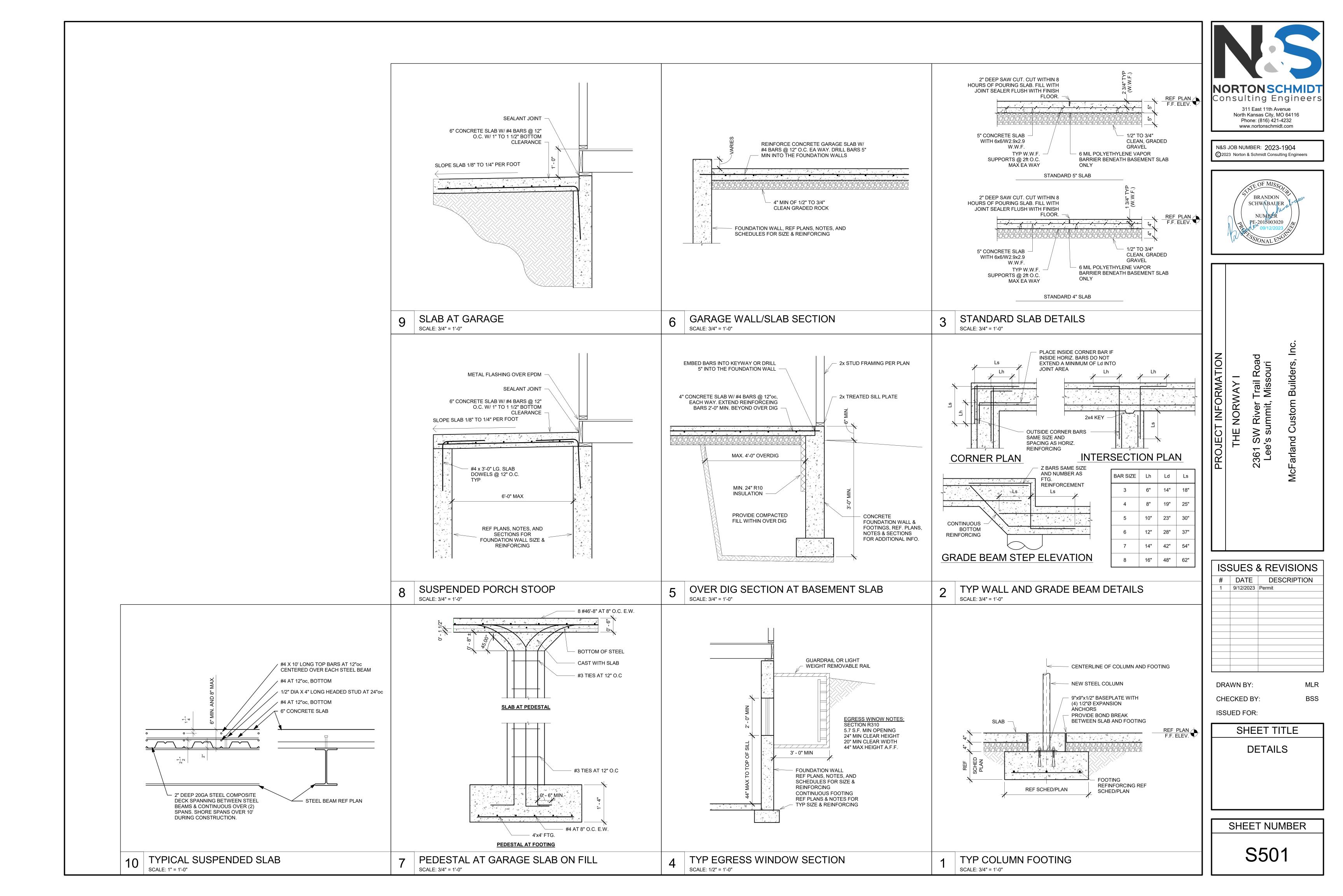
R - 5 SHALL BE PROVIDED UNDER THE FULL SLAB AREA OF A HEATED SLAB IN ADDITION TO THE REQUIRED SLAB EDGE INSULATION R-VALUE FOR SLABS, AS INDICATED IN THE TABLE. THE SLAB EDGE INSULATION FOR HEATED SLABS SHALL NOT BE REQUIRED TO EXTEND BELOW THE SLAB.

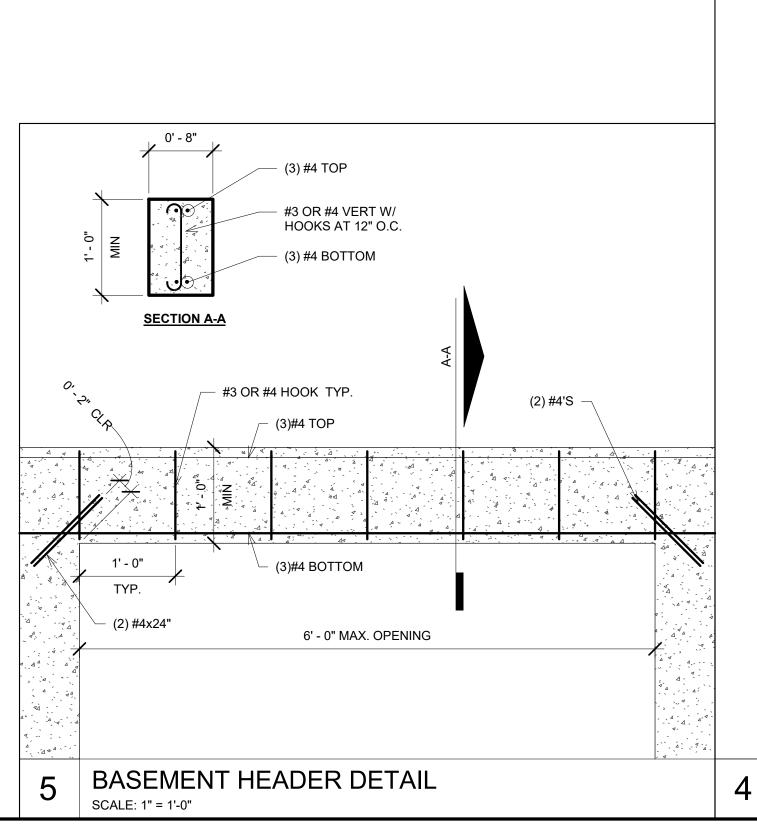
THERE ARE NO SHGC REQUIREMENTS IN THE MARINE ZONE. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N1101.10 AND TABLE N1101.10. ALTERNATIVELY, INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY PROVIDING NOT

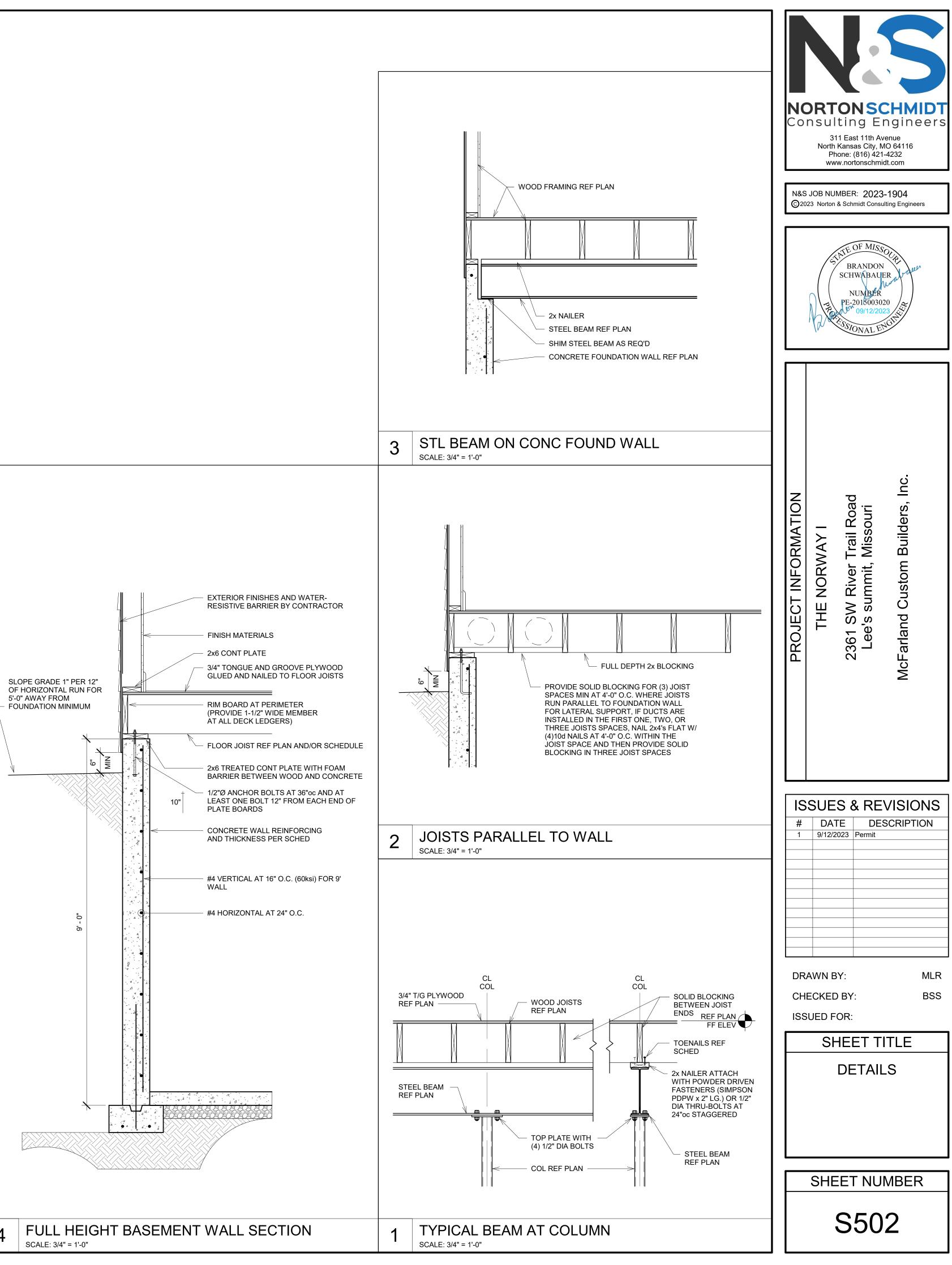
LESS THAN AN R-VALUE OF R-19. FIRST VALUE IS CAVITY INSULATION. SECOND VALUE IS CONTINUOUS INSULATION THEREFORE, AS AN EXAMPLE, "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5

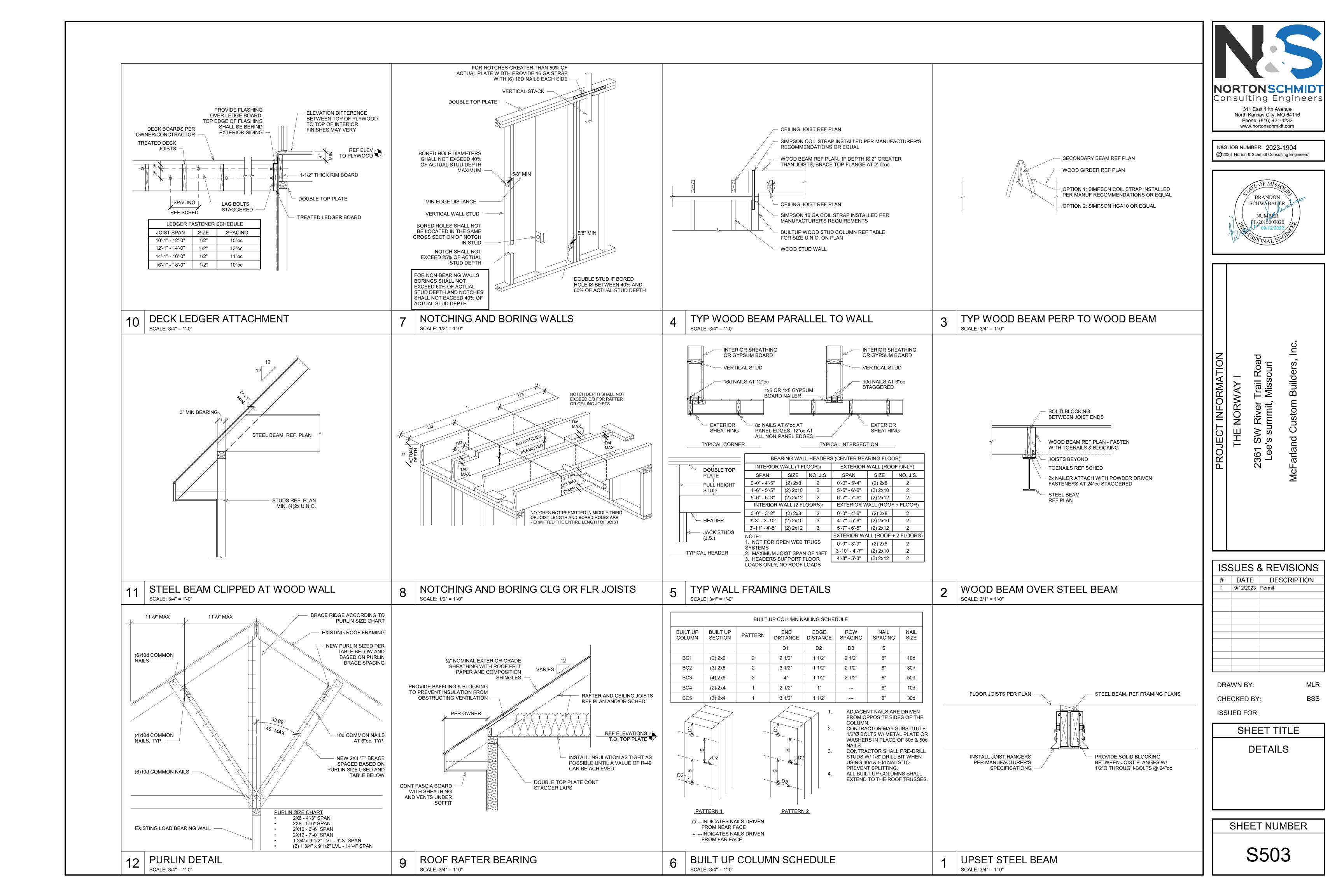
CONTINUOUS INSULATION. MASS WALLS SHALL BE IN ACCORDANCE WITH SECTION N1102.2.5. THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF OF THE INSULATION IS ON THE INTERIOR OF THE MASS WALL











																		1	
	R802.5		•	/													Γ		
				GF	RO	UN	١D	SN	10)	W	LO	A) (F	PS	F)				
			20)(f)			3	0			5	0			7	0			
						RC	0	F٤	SPA	٩N	(F	EE	ET)						-
RAFTER		12	20	28	36	12	20	28	36	12	20	28	36	12	20	28	36		
SLOPE	SPACING				RI	EQUI		NUMI R HEE						AILS(a	a,b)				
3:12	12 16 24	4 5 7	6 8 11	8 10 15	10 13 19	4 5 7	6 8 11	8 11 16	11 14 21	5 6 9	8 11 16	12 15 23	15 20 30	6 8 12	11 14 21	15 20 30	20 26 39		
4:12	12 16 24	3 4 5	5 6 8	6 8 12	8 10 15	3 4 5	5 6 9	6 8 12	8 11 16	4 5 7	6 8 12	9 12 17	11 15 22	5 6 9	8 11 16	12 15 23	15 20 29		RETUF
5:12	12 16 24	3 3 4	4 5 7	5 6 9	6 8 12	3 3 4	4 5 7	5 7 10	7 9 13	3 4 6	5 7 10	7 9 14	9 12 18	4 5 7	7 9 13	9 12 18	12 16 23		
7:12	12 16 24	3 3 3	4 4 5	4 5 7	5 6 9	3 3 3	3 4 5	4 5 7	5 6 9	3 3 4	4 5 7	5 7 10	7 9 13	3 4 5	5 6 9	7 9 13	9 11 17		REQI
9:12	12 16 24	3 3 3	3 4 4	4 4 6	4 5 7	3 3 3	3 3 4	3 4 6	4 5 7	3 3 3	3 4 6	4 5 8	5 7 10	3 3 4	4 5 7	5 7 10	7 9 13		RETU 24" F0 STRU 32" F0
12:12	12 16 24	3 3 3	3 3 4	3 4 4	3 4 5	3 3 3	3 3 3	3 3 4	3 4 6	3 3 3	3 3 4	3 4 6	4 5 8	3 3 3	3 4 6	4 5 8	5 7 10		DIST/ RETU

40d BOX NAILS SHALL BE PERMITTED TO BE SUBSTITUTED FOR 16D COMMON NAILS. a. NAILING REQUIREMENTS SHALL BE PERMITTED TO BE REDUCED 25% IF NAILS ARE CLINCHED. b.

HEEL JOINT CONNECTIONS ARE NOT REQUIRED WHEN THE RIDGE IS SUPPORTED BY A LOAD-BEARING C. WALL, HEADER, OR RIDGE BEAM. WHEN INTERMEDIATE SUPPORT OF THE RAFTER IS PROVIDED BY VERTICAL STRUTS OR PURLINS TO A LOAD-BEARING WALL, THE TABULATED HEEL JOINT CONNECTION REQUIREMENTS SHALL BE d.

PERMITTED TO BE REDUCED PROPORTIONALLY TO THE REDUCTION IN SPAN. EQUIVALENT NAILING PATTERNS ARE REQUIRED FOR CEILING JOIST TO CEILING JOIST LAP SPLICES. e. APPLIES TO ROOF LIVE LOAD OF 20 PSF OR LESS.

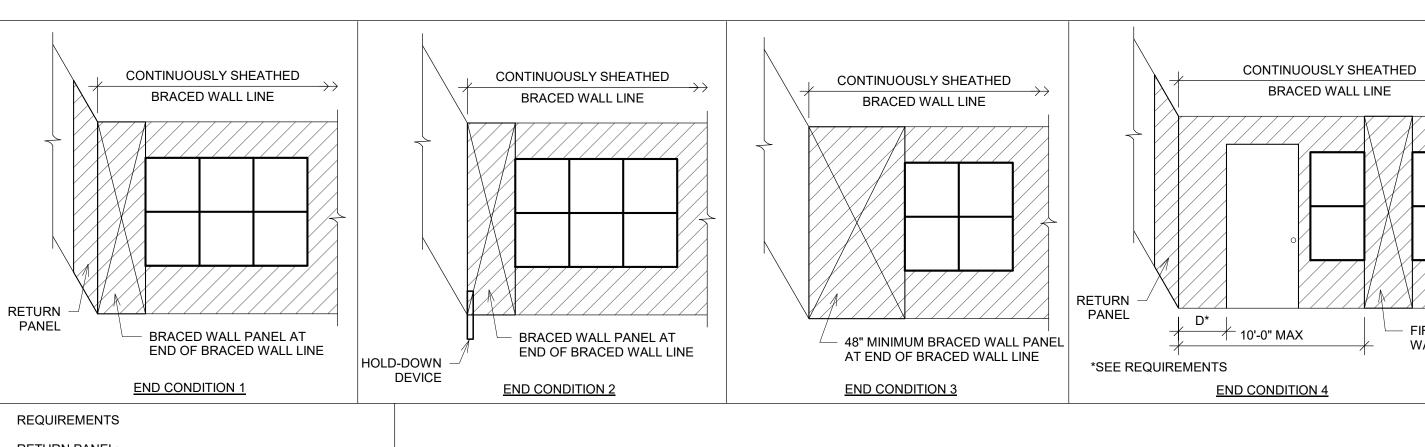
TABULATED HEEL JOINT CONNECTION REQUIREMENTS ASSUME THAT CEILING JOISTS OR RAFTER TIES g. ARE LOCATED AT THE BOTTOM OF THE ATTIC SPACE. WHEN CEILING JOISTS OR RAFTER TIES ARE LOCATED HIGHER IN THE ATTIC, HEEL JOINT CONNECTION REQUIREMENTS SHALL BE INCREASED BY THE FOLLOWING FACTORS:

Hc/Hr	HEEL JOINT CONNECTION ADJUSTMENT FACTOR
1/3	1.5
1/4	1.33
1/5	1.25
1/6	1.2
1/10 OR LESS	1.11

WHERE:

Hc= HEIGHT OF CEILING JOISTS OR RAFTER TIES MEASURED VERTICALLY ABOVE THE TOP OF THE RAFTER SUPPORT WALLS.

Hr=HEIGHT OF ROOF RIDGE MEASURED VERTICALLY ABOVE THE TOP OF THE RAFTER SUPPORT WALLS.



TURN PANEL:

4" FOR BRACED WALL LINES SHEATHED WITH WOOD TRUCTURAL PANELS 2" FOR BRACED WALL LINES SHEATHED WITH RUCTURAL FIBERBOARD

STANCE D: RETURN PANEL:

24" FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS 32" FOR BRACED WALL LINES SHEATHED WITH STRUCTURAL FIBERBOARD

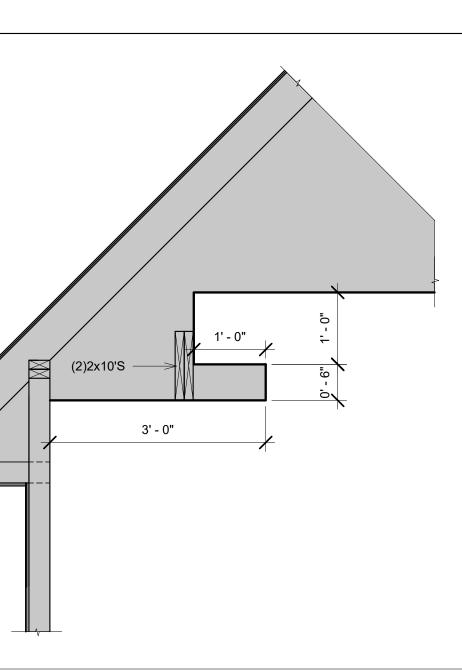
HOLD-DOWN DEVICE: 800 lbs CAPACITY FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FLOOR FRAMING BELOW



GRADE	MEMBER SIZE / SPACING	MAX SPAN CEILING JSTS AT TOP PLATE	MAX SPAN HℓH _ਵ 0.16	MAX SPAN HℓH _₹ 0.20	MAX SPAN HℓH _₹ 0.25	MAX SPAN HℓHह0.33
#2 DF/L	2x6 / 16"oc	14'-1"	12'-8"	11'-8"	10'-8"	9'-5"
#2 DF/L	2x8 / 16"oc	18'-2"	16'-4"	15'-1"	13'-9"	12'-2"
#2 DF/L	2x10 / 16"oc	22'-3"	20'-0"	18'-5"	16'-10"	14'-10"
#2 DF/L	2x12 / 16"oc	25'-9"	23'-2"	21'-4"	19'-7"	17'-3"
	S THAN 42' ON IN 11: ND CAN BE CONNEC					
	RIDG STRA R802	AR TIE OR E P, RE: SECT. 3.1 CEILINO LAP, RE: SEC PURLIN & P BRACE, RE: SECT. F	CT. R802.3.2 URLIN R802.5.1	RIDGE BOAR R802.3 & R80 RAI SP/ THI AD. (He	ISED RAFTER TIE, I CT. 802.3.1. SEE FTER AN TABLES R802.5. RU R802.5.1(8) FOF JUSTED RAFTER S /Hr = 1/3 MAX.)	RE:
	CEILING JOISTS, — TABLES R802.4(1 R802.4(2) — TOP PLATE(S), R SECT. R602.3.2 — BEARING WALL) &	BEARING PARTITION, — RE: R802.5.1	CON RE: S	TER TO JOIST	

TRAY CEILING 3 SCALE: 3/4" = 1'-0"

End Conditions for BWL's with Cont. Sheathing R602.10.7



											_		
		CONTINUOUSLY SHEATHED BRACED WALL LINE		DNTINUOUSLY SHEATHED BRACED WALL LINE		→→ BRACED WALL 10'-0" MAX	\longrightarrow					SCH g Engi	
										No	311 East rth Kansa Phone: (8	t 11th Avenue as City, MO 64 816) 421-4232 onschmidt.con	e 4116 2
	k		RETURN						N&			: 2023-190	
		48" MINIMUM BRACED WALL PA	ANEL PANEL 10'		RST BF	RACED NEL HOLD-DOWN	- FIRST BRACED			023 Nor	on & Schm	nidt Consulting E	ingineers
		AT END OF BRACED WALL LINI	*SEE REQUIREMENTS <u>END C</u>	ONDITION 4				Τ			STATE BR. SCHV NU PE-20	OF MISSOLA ANDON WABAUER UMBER 015003020 09/12/2023	and
	F	ASTENING SCHE	DULE IRC 2018 TABLE RE	602.3(1)	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (a)(b)(c) Floor	SPACING AND LOCATION	$\lfloor L$	(1/2	~310	NALENC	
	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (a)(b)(c) Roof 4-8d box (2-1/2" × 0.113") or	SPACING AND LOCATION	- 21	Joist to sill, top plate or girder	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail	[
	1	Blocking between ceiling joists or rafters to top plate	3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail	22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d box (2-1/2" × 0.113") 8d common (2-1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails	4" o.c. toe nail 6" o.c. toe nail					
7	2	Ceiling joists to top plate	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Per joist, toe nail	23	1" × 6" subfloor or less to each joist	3-8d box (2-1/2" × 0.113"); or 2-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1-3/4" long	Face nail					
	3	Ceiling joist not attached to parallel rafter, laps over partitions (see Section R802.5.2 and Table R802.5.2) Ceiling joist attached to parallel rafter	4-10d box (3" × 0.128"); or 3-16d common (3-1/2" × 0.162"); or 4-3" × 0.131" nails	Face nail	24 25	2" subfloor to joist or girder 2" planks (plank & beam—floor & roof)	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162") 3-16d box (3-1/2" × 0.135"); or	Blind and face nail At each bearing, face nail			_		nc.
	4	(heel joint) (see Section R802.5.2 and Table R802.5.2)	Table R802.5.2 4-10d box (3" × 0.128"); or	Face nail	23	Band or rim joist to joist	2-16d common (3-1/2" × 0.162") 3-16d common (3-1/2" × 0.162") 4-10 box (3" × 0.128"), or	End nail			Road		ulders,
	5	Collar tie to rafter, face nail or 11/4" × 20 ga. ridge strap to rafter	3-10d common (3" × 0.148"); or 4-3" × 0.131" nails 3-16d box nails (3-1/2" × 0.135"); or 3-10d common nails (3" × 0.148"); or	Face nail each rafter 2 toe nails on one side and	20		4-3" × 0.131" nails; or 4-3" × 14 ga. staples, 7/16" crown 20d common (4" × 0.192"); or	Nail each layer as follows: 32" o.c. at top and	INFORMAT	VAY I		Miss	Build
	6	Rafter or roof truss to plate	4-10d box (3" × 0.128"); or 4-3" × 0.131" nails 4-16d (3-1/2" × 0.135"); or	1 toe nail on opposite side of each rafter or truss(i)	27	Built-up girders and beams, 2-inch lumber layers	10d box (3" × 0.128"); or 3" × 0.131" nails	24" o.c. face nail at top and bottom staggered on opposite sides		NORWAY	River	ummit,	Custom
	7	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails 3-16d box (3-1/2" × 0.135"); or	Toe nail	-		And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or	Face nail at ends and at each splice	JECT		SW	S S	
			2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails Wall	End nail	- 28	Ledger strip supporting joists or rafters	3-3" × 0.131" nails 4-16d box (3-1/2" × 0.135"); or 3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"); or	At each joist or rafter, face nail	PROJEC		2361		charland
	8	Stud to stud (not at braced wall panels)	16d common (3-1/2" × 0.162") 10d box (3" × 0.128"); or 3" × 0.131" nails	24" o.c. face nail 16" o.c. face nail	20	Bridging or blocking to joist	4-3" × 0.131" nails 2-10d box (3" × 0.128"), or 2-8d common (2-1/2" ×	Fach and tap pail					Mc
	9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d box (3-1/2" × 0.135"); or 3" × 0.131" nails 16d common (3-1/2" × 0.162")	12" o.c. face nail 16" o.c. face nail	29		0.131"); or 2-3" × 0.131") nails NUMBER AND TYPE	Each end, toe nail SPACING OF FASTENERS					
	10	Built-up header (2" to 2" header with 1/2" spacer)	16d common (3-1/2" × 0.162") 16d box (3-1/2" × 0.135") 5-8d box (2-1/2" × 0.113"); or	16" o.c. each edge face nail 12" o.c. each edge face nail		DESCRIPTION OF BUILDING ELEMENTS	OF FASTENER (a)(b) (c) wall sheathing to framing and particleboa	Edges (inches)(h) supports(c)(e) (inches) ard wall sheathing to framing					
	11	Continuous header to stud	4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128") 16d common (3-1/2" × 0.162")	Toe nail 16" o.c. face nail	- 30		uctural panel exterior wall sheathing to w 6d common (2" × 0.113") nail (subfloor, wall)(i) 8d common (2-1/2" > 0.131") nail (roof); or RSRS-01 (2-3/8"	vall framing]	L				
	12	Top plate to top plate	10d box (3" × 0.128"); or 3" × 0.131" nails 8-16d common (3-1/2" × 0.162"); or 12-16d box (3-1/2" × 0.135"); or	12" o.c. face nail Face nail on each side of end joint (minimum 24"	31	19/32" – 1"	 × 0.113") nail (roof)(j) 8d common nail (21/2" × 0.131"); or RSRS-01; (2-3/8" × 0.113") nail 	6 12(f)					
	13	Double top plate splice	12-10d box (3" × 0.128"); or 12-3" × 0.131" nails 16d common (3-1/2" × 0.162")	lap splice length each side of end joint) 16" o.c. face nail	32	1-1/8" - 1-1/4"	(roof)(j) 10d common (3" × 0.148") nail; or 8d (21/2" × 0.131") deformed nail	6 12	- #		ATE 2/2023 F	DESCR Permit	
_	14	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d box (3-1/2" × 0.135"); or 3" × 0.131" nails 3-16d box (3-1/2" × 0.135"); or	12" o.c. face nail 3 each 16" o.c. face nail	33	1/2" structural cellulosic	her wall sheathing(g) 1-1/2" galvanized roofing nail, 7/16" head diameter, or 1-1/4" long 16 ga.	3 6					
	15	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	2-16d common (3-1/2" × 0.162"); or 4-3" × 0.131" nails	2 each 16" o.c. face nail 4 each 16" o.c. face nail	34	fiberboard sheathing 25/32" structural cellulosic fiberboard	staple with 7/16" or 1" crown 1-3/4" galvanized roofing nail, 7/16" head diameter, or 1-1/2" long 16 ga.	3 6					
	10		4-8d box (2-1/2" × 0.113"); or 3-16d box (3-1/2" × 0.135"); or 4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	Toe nail	35	sheathing 1/2" gypsum sheathing(d)	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	7 7					
	16	Top or bottom plate to stud	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or	End nail	36	5/8" gypsum sheathing(d)	1-3/4" galvanized roofing nail; staple galvanized, 1-5/8" long; 1-5/8" screws, Type W or S	7 7		RAWN	BV.		MLR
	17	Top plates, laps at corners and intersections	3-3" × 0.131" nails 3-10d box (3" × 0.128"); or 2-16d common (3-1/2" × 0.162"); or 3-3" × 0.131" nails	Face nail	37	3/4" and less	ombination subfloor underlayment to fram6d deformed (2" × 0.120") nail; or8d common (2-1/2" × 0.131") nail8d common (2-1/2" × 0.131") nail; or	6 12	CH	IECKI	ED BY:		BSS
	18	1" brace to each stud and plate	3-8d box (2-1/2" × 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2 staples 1-3/4"	Face nail	38 39	7/8" – 1" 1-1/8" – 1-1/4"	8d deformed (2-1/2" × 0.120") nail 10d common (3" × 0.148") nail; or 8d deformed (2-1/2" × 0.120") nail	6 12 6 12			FOR:		
	19	1" × 6" sheathing to each bearing	3-8d box (2-1/2" × 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or	Face nail		Nails are smooth-common, box or deformed sh sheathing connections shall have minimum ave 0.192 inch (20d common nail), 90 ksi for shank 100 ksi for shank diameters of 0.142 inch or les	erage bending yield strengths as shown: diameters larger than 0.142 inch but not ss.	80 ksi for shank diameter of			DE	TAILS	
	20	1" × 8" and wider sheathing to each bearing	2 staples, 1" crown, 16 ga., 1-3/4" long 3-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3 staples, 1" crown, 16 ga., 1-3/4" long Wider than 1" × 8" 4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 4 staples, 1" crown, 16 ga., 1-3/4" long (continued)	g Face nail	c. d. e. f. g.	Staples are 16 gage wire and have a minimum Nails shall be spaced at not more than 6 inches Four-foot by 8-foot or 4-foot by 9-foot panels sh Spacing of fasteners not included in this table s For wood structural panel roof sheathing attach inches of roof edges and ridges, nails shall be s less than 130 mph and shall be spaced 4 inche greater but less than 140 mph. Gypsum sheathing shall conform to ASTM C13 sheathing shall conform to ASTM C208. Spacing of fasteners on floor sheathing panel e required blocking and at floor perimeters only.	s on center at all supports where spans a nall be applied vertically. shall be based on Table R602.3(2). ned to gable end roof framing and to inter spaced at 6 inches on center where the u s on center where the ultimate design w 396 and shall be installed in accordance of edges applies to panel edges supported b	mediate supports within 48 ultimate design wind speed is ind speed is 130 mph or with GA 253. Fiberboard by framing members and		SF		NUMB	
			(continued)		i.	edges supported by framing members and requ perpendicular to the framing members need not Floor perimeter shall be supported by framing n Where a rafter is fastened to an adjacent paralle on one side of the rafter and toe nails from the o on the opposite side of the rafter shall not be re RSRS-01 is a Roof Sheathing Ring Shank nail	uired blocking. Blocking of roof or floor sh t be provided except as required by othe nembers or solid blocking. lel ceiling joist in accordance with this sc ceiling joist to top plate in accordance wi equired.	heathing panel edges er provisions of this code. hedule, provide two toe nails th this schedule. The toe nail		<u> </u>		504	· · `

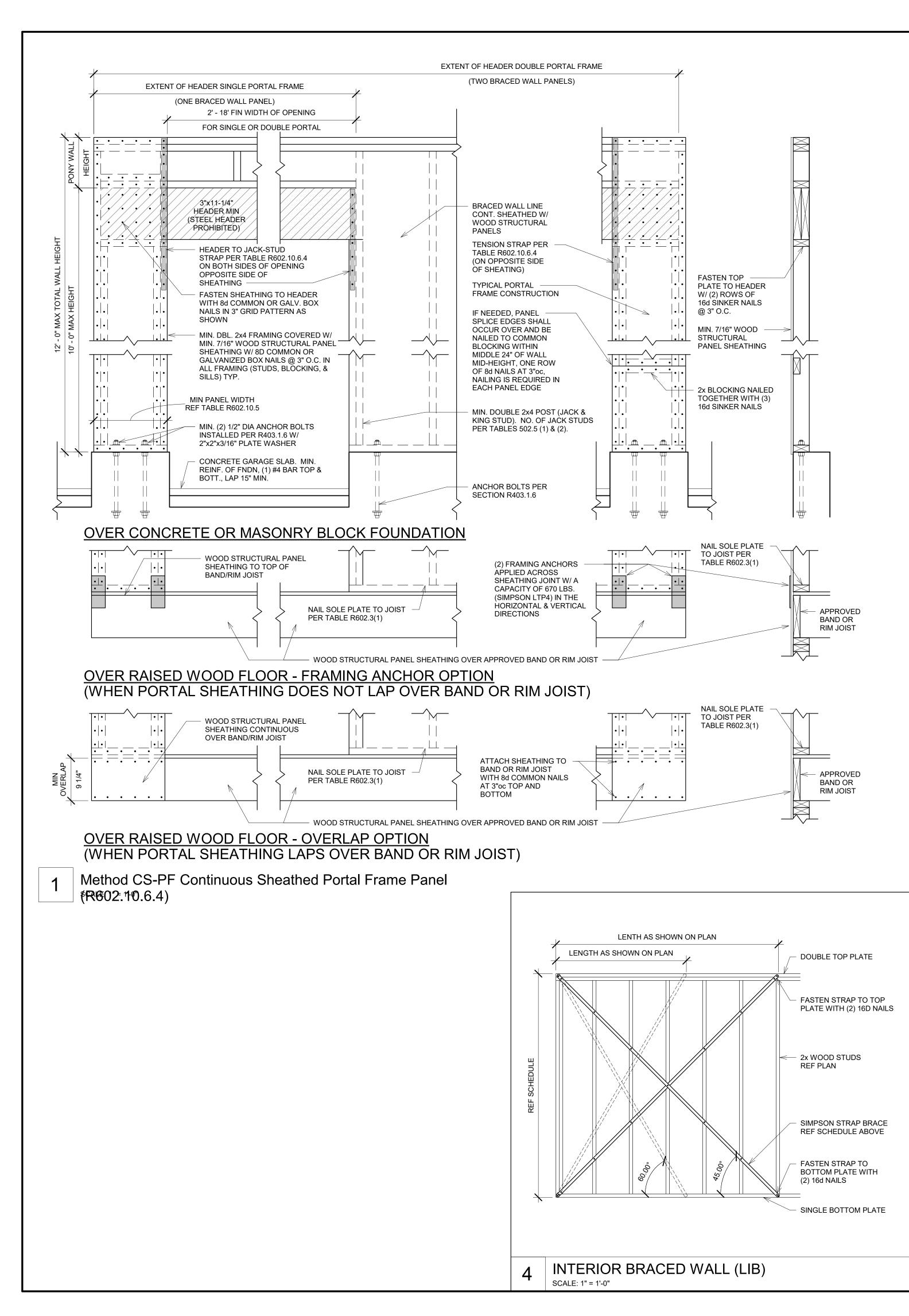


TABLE R602.10.5 - MINIMUM LENGTH OF BRACED WALL PANELS										
	METHOD	WALL LENGTH PER PORTAL HEADER HEIGHT								
	METHOD	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET				
DELL	SUPPORTING ROOF	16"	16" 16"		(c)	(c)				
PFH	SUPPORTING ONE STORY AND ROOF	24"	24"	24"	(c)	(c)				
PFG		24"	27"	30"	(d)	(d)				
00.05	SEISMIC DESIGN CATEGORY A,B,C	16"	16"	16"	(c)	(c)				
CS-PF	SEISMIC DESIGN CATEGORY D ₀ , D ₁ , D ₂	24"	24"	24"	(c)	(c)				
(a) M						NCE				

12 FEET WITH PONY WALL.

12 FEET WITH PONY WALL

(e) MAXIMUM HEADER HEIGHT FOR CS-PF IS 10 FEET IN ACCORDANCE 12 FEET WITH PONY WALL.

