

04.11

REFERENCE KEYNOTES

01 - FOUNDATION

01.12 - TOP OF FOOTING DEPTH DETERMINED PER SITE.

01.71 - 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.

02 - TRII

02.61 - 5/4"X8" LP SMART TRIM.
UNLESS NOTED OTHERWISE ON ELEVATION.

03 - SIDING

LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM

03.11 - AROUND DOORS, WINDOWS, AND CORNERS
UNLESS NOTED OTHERWISE.

UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.

03.15 - LP SMART BOARD AND BATTEN.

03.17 - MANUFACTURED STONE VENEER.

03.18 - CAST STONE CAP

03.38 - 6X6 CEDAR POST. 1X6 TRIM AT BASE 1X4 TRIM AT TOP.

04 - ROOF

MINIMUM ROOFING COMPOSITION
04.11 - 30 YR COMPOSITE SHINGLES ON 15# FELT ON

7/16" OSB SHEATHING OR AS REQUIRED BY CODE.

07 - MISCELLANEOUS & PLAN NOTES
07.67 - BACK WALL OF GARAGE.

CPG DBA

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hive

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

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LEES SUMMIT

MO 64082

OSAGE, Lot 75 MARMALADE - FARMHOU

PROFESSIONAL SEAL

CHRISTOPHER

CHRISTOPHER

PAUL

DAVIS

NUMBER

NUMBER

PROFESSIONAL SEAL

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

VERSION:

R2.0

ISSUE DATE:

06/29/2023

SHEET NUMBER:

A1.0

FARMHOUSE 1

TYPE	NAME	SQ FT
	MAIN LEVEL	821
FINISHED	UPPER LEVEL	1246
		2066
	FRONT PORCH	76
	GARAGE	455
UNFINISHED	LOWER LEVEL - UNFINISHED	743
	PATIO	120
		1394
		3461

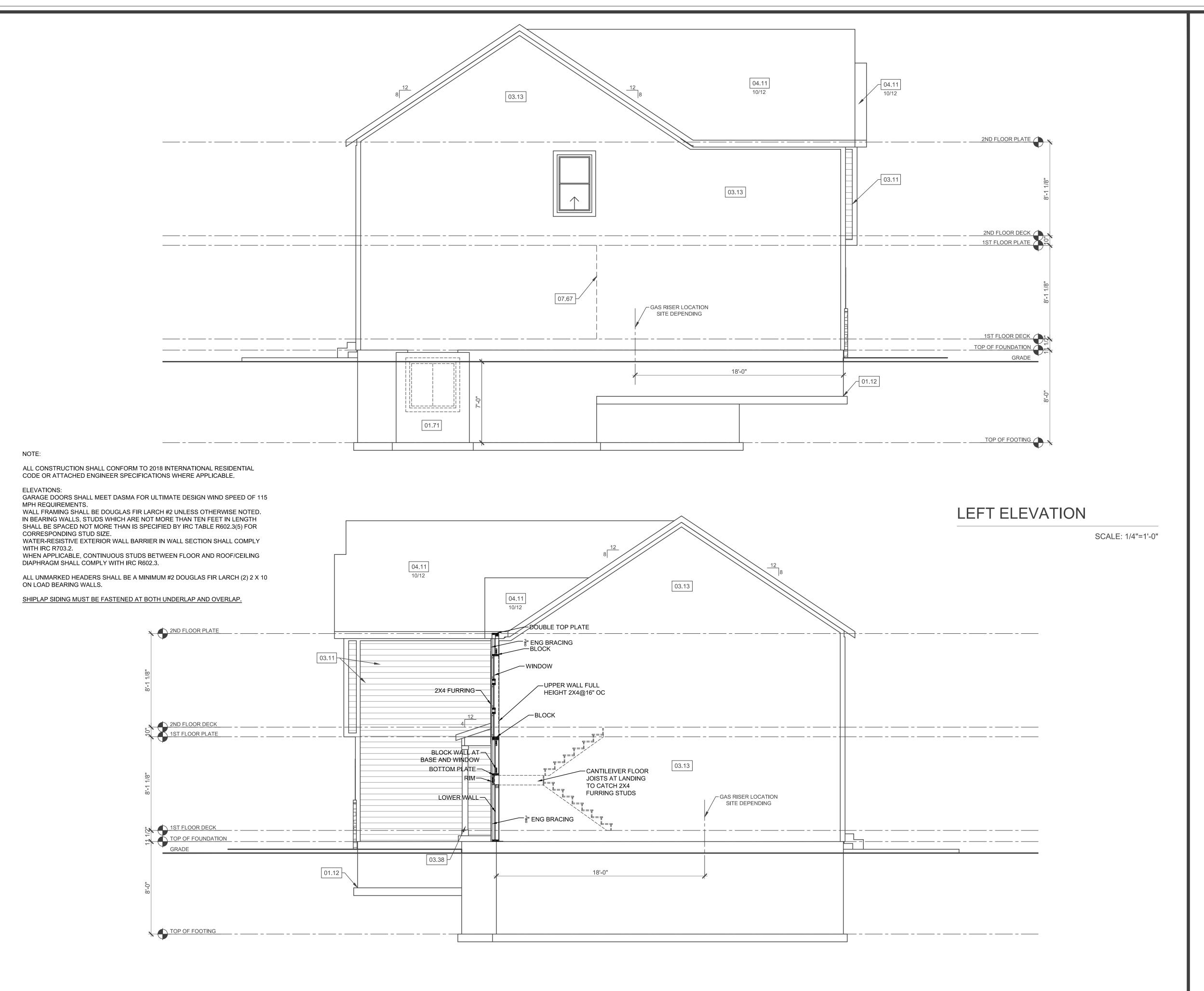
GENERAL NOTES - ELEVATIONS

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

REAR ELEVATION

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

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.



RIGHT ELEVATION

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

REFERENCE KEYNOTES

01 - FOUNDATION

01.12 - TOP OF FOOTING DEPTH DETERMINED PER SITE.

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.

02 - TRIM

UNLESS NOTED OTHERWISE ON ELEVATION.

03 - SIDING

LP SMART LAP SIDING WITH 5/4X6 LP SMART TRIM 03.11 - AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.

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.

03.15 - LP SMART BOARD AND BATTEN.

03.17 - MANUFACTURED STONE VENEER.

03.18 - CAST STONE CAP

6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP.

04 - ROOF

MINIMUM ROOFING COMPOSITION -04.11 - 30 YR COMPOSITE SHINGLES ON 15# FELT ON 7/16" OSB SHEATHING OR AS REQUIRED BY CODE.

07 - MISCELLANEOUS & PLAN NOTES

07.67 - BACK WALL OF GARAGE.

GENERAL NOTES - ELEVATIONS

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES

SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0"

EXPECTED TO VARY PER VENDOR.

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> EVERSTEAD 3741 NE TROON DRIVE SUITE 200 LEE'S SUMMIT, MO 64064 816-399-4901

> > **VERSION:**

ISSUE DATE:

06/29/2023

SHEET NUMBER:

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

FOUNDATION NOTES:

DEAD MEN SPACING:

ANOTHER DEAD MAN.

• ALL DEAD MEN SHALL BE SPACED NO MORE THAN 16' FROM EGRESS

DEAD MEN ARE NOT REQUIRED ON EXTERIOR GARAGE WALLS OR

WALL TRANSITIONING FROM LESS THAN 5' TALL TO MORE THAN 5' TALL

WITH STEP DOWNS: A DEAD MAN IS REQUIRED WITHIN 8' OF STEP DOWN

(TRANSITIONING FROM LESS THAN 5' TALL TO MORE THAN 5' TALL WALL

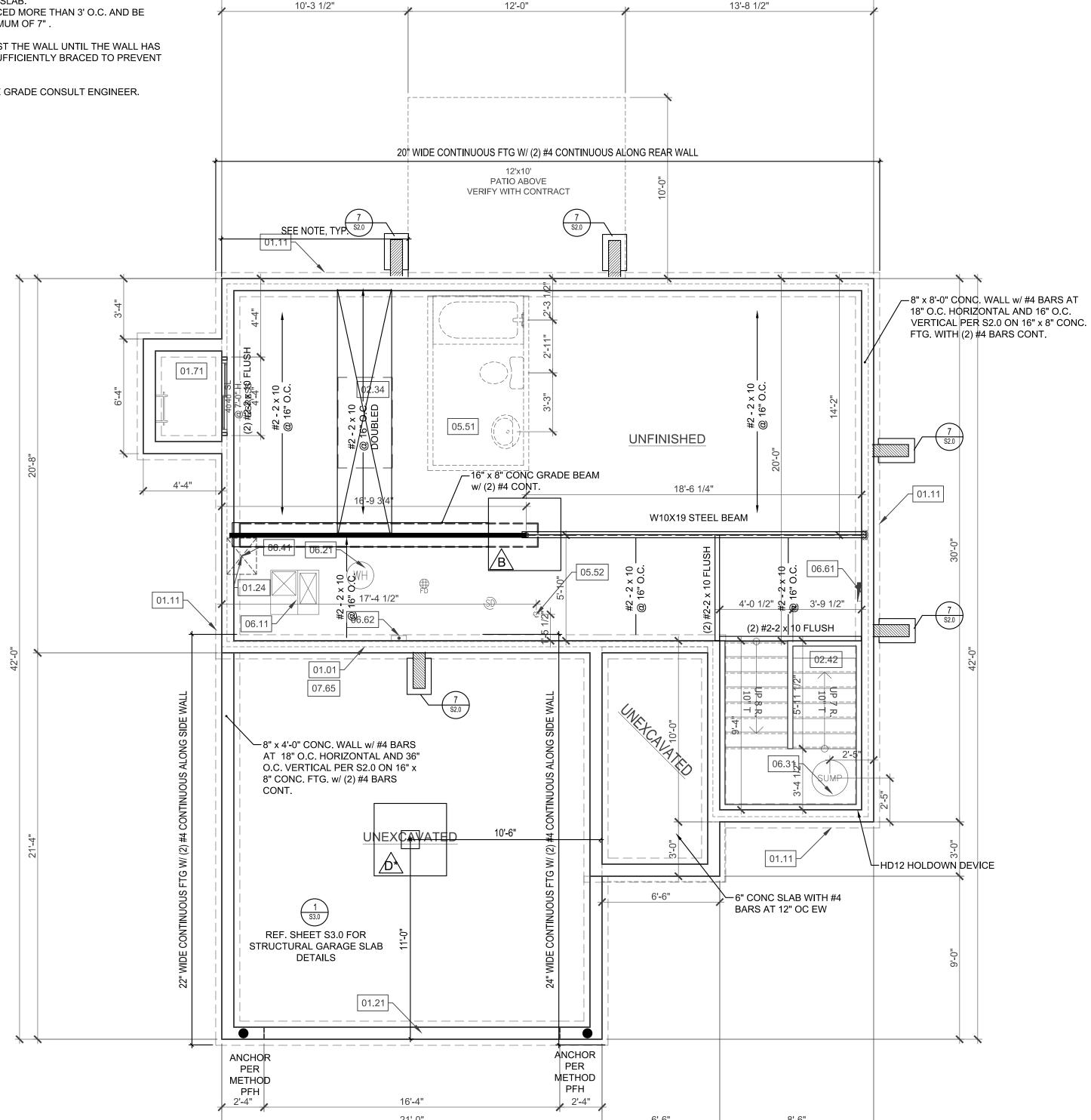
FOUNDATION WALLS THAT ARE 5' OR LESS.

LOCATION) ON WALL 5' TALL OR MORE

WELL, REAR GARAGE WALL, 24" RETURN ON FOUNDATION WALL OR

ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".

- SOIL BEARING CAPACITY SHALL BE 1500 PSF.
- COMPRESSIVE STRENGTH OF CONCRETE F'C 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. DAMPPRROFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR WATERPROOFING SHALL BE A MINIMUM 6-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
- BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION
- 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 3' O.C. AND BE
- EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".
- BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT
- IF BASEMENT SLAB ELEVATION IS ABOVE GRADE CONSULT ENGINEER.



	ISOLATED FOOTINGS AND COLUMN PADS						
SYM	PIER PAD SIZE	DEPTH			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		
<u>c</u>	42"x42"	1'-2"		(7) #4 BAR E.W.	3" DIAMETER		
<u>₽</u>	48"x48"	1'-4"		(8) #4 BAR E.W.	3" DIAMETER		
É	54"x54"	1'-4"		(9) #4 BAR E.W.	3" DIAMETER		
A	60"x60"	1'-6"		(10) #4 BAR E.W.	3.5" DIAMETER		
ANY	SIZE FE	DTING	W	ITH AN (*)	NO COLUMN NEEDED		
	ISOL	ATED F	-00	OTINGS AND COLUMN F	PADS		
SYM	PIER DIAMET	ER DEPT	Ή	MINIMUM REINFORCEMENT G	RADE 40 KSI STEEL		
G	12"	3'-0)"	(4) VERTICAL	_ #4		
Á	16"	3'-0)"	(4) VERTICAL	_ #4		
\triangle	18"	3'-0)"	(4) VERTICAL	#4		
Ŕ	24"	3'-0)"	(4) VERTICAL			
	28"	3'-0)"	(4) VERTICAL			

DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'.

COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED

WINDOW SCHEDULE WIDTH | HEIGHT | TEMP | QUANTITY SL BASEMENT EGRESS SLIDER 4'-0" 4'-0"

DOOR SCHEDULE STYLE | WIDTH | HEIGHT | FRAME DEPTH | QUANTITY |

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

REFERENCE KEYNOTES

01 - FOUNDATION

01.01 - HOLD SILL PLATE BACK 4"

01.11 - CONTINUOUS CONCRETE FOOTING

01.21 - RECESS TOP OF FOUNDATION WALL

BLOCK OUT FOUNDATION FOR VENTILATION AS REQUIRED.

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.

02.34 - PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE.

02.42 - FIRE RATED SHEETROCK UNDER STAIRS

05 - PLUMBING

DRAIN LINE ONLY FOR FUTURE USE. 05.51 - LOCATION TO BE MARKED WITH REBAR AND CUT FLUSH TO FLOOR FINISH.

05.52 - PLUMBING FLANGE ABOVE. HEADER JOISTS AS NEEDED

06 - MECHANICAL

DIRECT FURNACE. FUEL BURNING APPLIANCES 06.11 - SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION AIR.

HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE

SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI 06.31 PROTECTION, PROVIDE SLEEVE THROUGH FOOTING.

06.41 - HVAC CHASE ABOVE

200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE.

UFER GROUND- VERIFY LOCATION WITH PROJECT MANAGER.

07 - MISCELLANEOUS & PLAN NOTES

07.65 - LINE OF FLOOR ABOVE

09 - ELECTRICAL - SEE ELECTRICAL PLANS

09.01 - PROVIDE GFCI RECEPTACLE AND SWITCH FOR HUMIDIFIER.

GENERAL NOTES - FOUNDATION BASEMENT

PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING

ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR

MASONRY SHALL BE OF DECAY-RESISTANT MATERIALS.

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY

ALL INTERIOR NON-LOAD BEARING, NON-BRACED,

NON-CABINET WALLS ARE ALLOWED AT 24" O.C.

STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS

SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER

INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE

PLANS ARE TO BE CONSIDERED RECOMMENDATIONS

ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY

BACK WATER VALVES REQUIRED ON ALL BASEMENT

PRESSURE CAUSED BY THERMAL EXPANSION.

EXPECTED TO VARY PER VENDOR.

MUNICIPAL REQUIREMENTS.

HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

CONTINUE SWITCH CIRCUIT DOWN TO SWITCH 09.04 -AT BOTTOM OF STAIRS.

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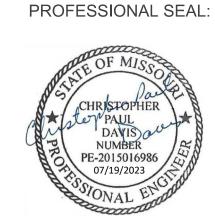
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> > **VERSION:**

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06/29/2023

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AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/19/2024 4:11:22

FOUNDATION PLAN

BRACING METHODS

EXTERIOR BRACING CS-PF PER IRC R602.10 FOR CS-PF ABOVE: WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WITH MINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST.

///// EXTERIOR BRACING CS-WSP PER IRC R602.10 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2) INTERIOR 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

EXTERIOR BRACING PFH (SEE DETAILS) PER IRC R602.10.5

CONTINUOUSLY SHEATHED EXTERIOR WALL BRACING 3/8" PANEL THICKNESS OSB WITH 24/0 STRUCTURAL PANEL SPAN RATING. 1-3/8" MIN PEN, 8d FASTENERS AT 3" FOR PANEL EDGES AND 12" IN FIELD. INSTALL BLOCKING @ 3' O.C. VERTICALLY. WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WITH MINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST.

INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE ASSUMED LOAD BEARING)

05.05

10'-3 1/2"

6'-11 1/2"

SHELVES

(2) #2-2**/x** 10

8'-0" CLG.

∕-G.T. BEARING

× O

(G) #

R-VALUE

10/13

2'-6"

|MASS WALL | FLOOR |

8/13

R-VALUE | R-VALUE

FROM ABOVE

@ 7'-¹0" H.

KITCHEN

(2) #2-2 x 10 L

8'-0" CLG. ♀

−(3)2X4 - UP TO 9' HT —

3" SCH 40 STL COL - UP TO 10' HT GARAGE

NOTE: 5/8" FIRE RATED GYP. BD

ON GARAGE WALLS ADJACENT

TO LIVING AREAS, CEILINGS,

BEAMS, AND WALLS.

*REFER TO PLOT PLAN FOR FOUNDATION ELEVATION HEIGHTS**

(2)1-3/4" X 14" LVL

CONTICORNER-TO-CORNER

21'-0"

R-VALUE

10/13

07.65

BASEMENT WALL SLAB R-VALUE & CRAWL SPACE WAL

10, 2 FT

W12 X 16 STEEL BEAM

12'-0"

PATIO

VERIFY WITH CONTRACT

(2) #2**-**2 × 10

DINING ROOM

G.T. BEARING-

FROM ABOVE

8'-9 3/4"

13'-8 1/2"

3'-4 1/2" 3'-4 1/2" 4'-1 3/4"

12'-8"

(3) 2 x 4

╭─2 x 6 CONTIXUOU\$

STUD WALL重ULL

HEIGHT

✓G.T. BEARING FROM ABOVE

CATCH 2X4 FURRING STUDS

-#2 2x10 @ 16" OC CANTILIEVER

FLOOR JOISTS AT LANDING TO

///////////// @_7'-0"H. @_7'-0"H. ____@_7'-0"H. ____//////

TYP 02.51 #2-2 x 10 CONTINUOUS

GREAT ROOM

W8 X 15 STEEL BEAM

<u>(2) #2-2 x 10/</u>€↓/USH

(2) #2-2x10 FLUSH

3020 FX

@ 15'-0" H.

2 x 4 @ 16" STUD-

BLOCK WALL AT

WALL FULL HEIGHT

BASE AND WINDOW

└ 03.38

02.12

BWL A

8'-0" CLG.

Ч 05.52 ▮

У́#2₅2 у 1

(G) #

COVERED

PORCH

G.T. BEARING FROM ABOVE 2X2

(2) #2-2 x 10

BWL B

BWL 3

BWL 4 🔭

IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)

WOOD FRAME WALL

R-VALUE

20 OR 13+5^h

FENESTRATION

U-FACTOR

.32

CLIMATE ZONE

MARINE

SKYLIGHT

U-FACTOR

GLAZED

FENESTRATION,SHGC

R-VALUE

GENERAL NOTES - FLOOR PLAN 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

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
- 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 7-3/4" 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).
- EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS:
- $\frac{3}{8}$ " THICK OSB FOR METHODS: WSP, CS-WSP AND PFH
- $\frac{7}{16}$ " THICK OSB FOR METHOD CS-PF.
- SPECIFIED THICKNESS OF OSB SHALL BE INSTALLED UNDERNEATH LP LAP SIDING AND/OR ENGINEERED BRACED WALL PANELS.
- LP PANEL SIDING 7/16" GROOVED SHALL BE EQUIVALENT TO \(\frac{3}{8} \) THICK OSB. OSB MAY BE OMITTED UNDERNEATH 7/16" GROOVED PANEL SIDING IN AREAS REQUIRING 3" THICK OSB.
- INSTALL FASTENERS AND NAILING PATTERN PER 2018 IRC SECTION R602.10.

- 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 OADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.

LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB PROVIDE FULL BEARING FOR DOUBLE, TRIPLE JOISTS, LVL'S AND STEEL BEAMS.

	WINDOW SCHEDULE					
TYPE	STYLE	WIDTH	HEIGHT	TEMP	QUANTITY	
FX	FIXED	1'-0"	6'-9"		1	
SL	SLIDER	4'-0"	4'-0"		1	
SH	SINGLE HUNG	3'-0"	5'-0"		3	
FX	FIXED	3'-0"	2'-0"	✓	3	

DOO	R SC	HED	ULE	
STYLE	WIDTH	HEIGHT	FRAME DEPTH	QUANTITY
HINGED - SINGLE	2'-8"	6'-8"	4 1/2"	1
GARAGE DOOR - 16 - 32 PANEL	16'-0"	7'-0"	4 1/2"	1
SLIDING - DOUBLE - FULL LITE	5'-0"	6'-8"	4"	1
HINGED - DOUBLE	3'-4"	6'-8"	4 1/2"	1
FRONT DOOR - 2 PANEL - CRAFTSMAN	3'-0"	6'-8"	4 1/2"	1
HINGED - SINGLE - GARAGE	2'-8"	6'-8"	4 5/8"	1
HINGED - SINGLE	2'-4"	6'-8"	4 1/2"	2
DBAWALL OBENING	3'_0"	6'-8"	4 1/2"	1

MAIN LEVEL PLAN

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

REFERENCE KEYNOTES

01 - FOUNDATION

01.22 - EXPOSED TOP OF FOUNDATION WALL.

02 - TRIM

02.12 - 2X6 STUD WALL

02.41 - CURB STAIR SYSTEM WITH OPEN HANDRAILS 02.51 - 3 STUDS BETWEEN WINDOW UNITS

03 - SIDING

6X6 CEDAR POST. 1X6 TRIM AT BASE. 03.38 -1X4 TRIM AT TOP.

05 - PLUMBING

05.05 - HOSE BIBB

05.52 - PLUMBING FLANGE ABOVE. HEADER JOISTS AS NEEDED

06 - MECHANICAL

HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS 06.42 - AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC ACCESS.

07 - MISCELLANEOUS & PLAN NOTES

07.65 - LINE OF FLOOR ABOVE

20 MINUTE FIRE RATED SOLID CORE WITH SELF-CLOSING HINGES

08 - CABINETRY

24" CABINET + 12" OVERHANG FLAT ISLAND. VERIFY LOCATION WITH PERSONAL BUILDER.

08.44 - BENCH WITH COAT HOOKS

09 - ELECTRICAL - SEE ELECTRICAL PLANS CONTINUE SWITCH CIRCUIT DOWN TO SWITCH

AT BOTTOM OF STAIRS.

09.05 - SWITCH AND POWER FOR GARBAGE DISPOSAL. 09.06 - PROVIDE POWER BELOW COUNTER FOR DISHWASHER.

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hive

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

VERSION:

816-399-4901

R2.0

ISSUE DATE:

06/29/2023

SHEET NUMBER:

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/19/2024 4:11:22

LOAD BEARING WALLS.

- 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

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 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF
- 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
- 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).
- EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS:
- §" THICK OSB FOR METHODS: WSP, CS-WSP AND PFH
- $\frac{7}{16}$ " THICK OSB FOR METHOD CS-PF.
- SPECIFIED THICKNESS OF OSB SHALL BE INSTALLED UNDERNEATH LP LAP SIDING AND/OR ENGINEERED BRACED WALL PANELS.
- LP PANEL SIDING 7/16" GROOVED SHALL BE EQUIVALENT TO $\frac{3}{8}$ " THICK OSB. OSB MAY BE OMITTED UNDERNEATH 7/16" GROOVED PANEL SIDING IN AREAS REQUIRING \(\frac{3}{8} \)" THICK OSB.
- INSTALL FASTENERS AND NAILING PATTERN PER 2018 IRC SECTION R602.10.

- 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 OTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING
- PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.

LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB

PROVIDE FULL BEARING FOR DOUBLE. TRIPLE JOISTS. LVL'S AND STEEL BEAMS.

BRACING METHODS EXTERIOR BRACING CS-PF PER IRC R602.10 FOR CS-PF ABOVE: WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WITH MINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST. EXTERIOR BRACING CS-WSP PER IRC R602.10 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2) INTERIOR 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

EXTERIOR BRACING PFH (SEE DETAILS) PER IRC R602.10.5

FENESTRATION

U-FACTOR

FENESTRATION, SHGC

R-VALUE

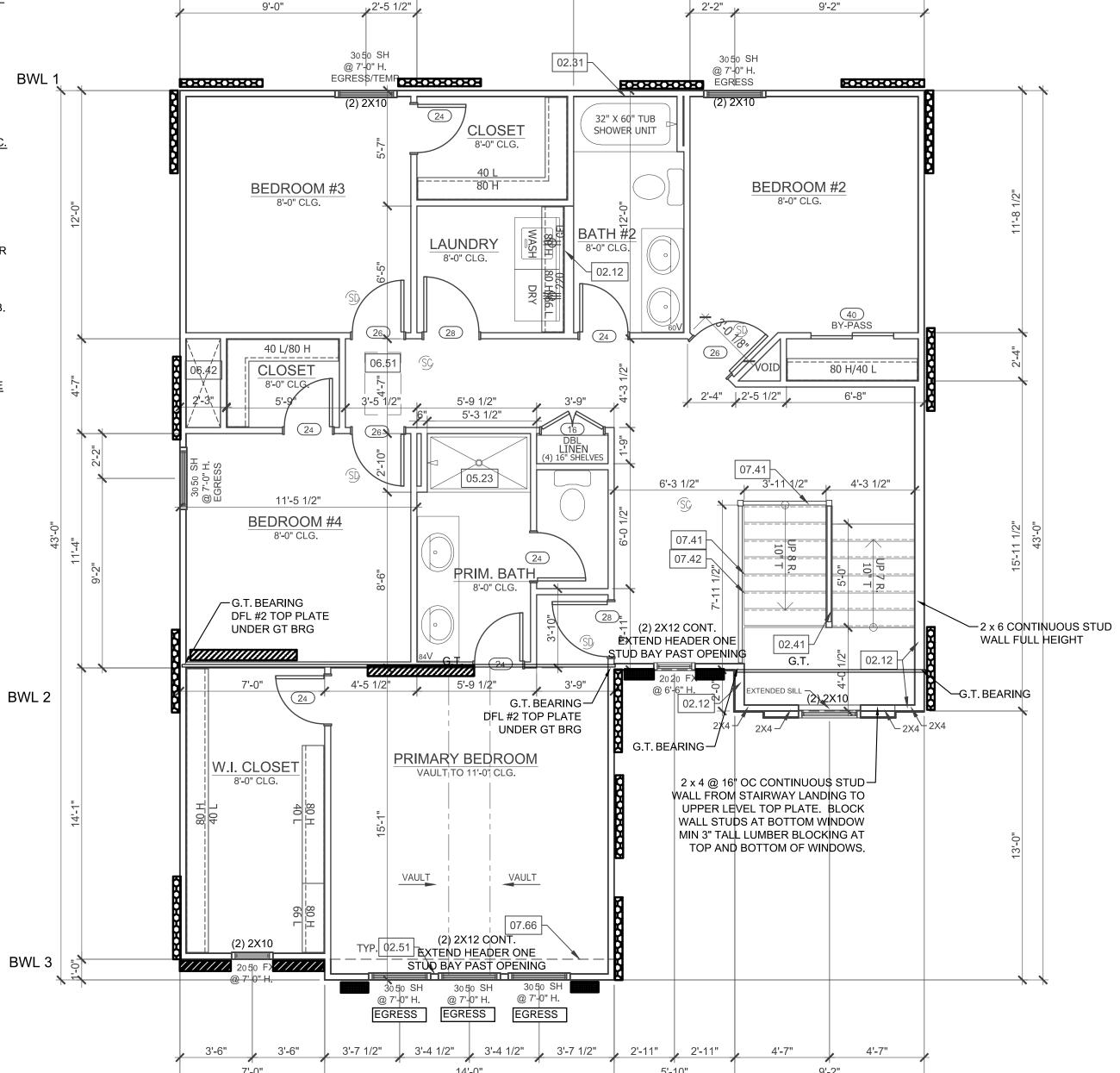
U-FACTOR b

.32

CLIMATE ZONE

4 EXCEPT

INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE ASSUMED LOAD BEARING)



7'-7"

11'-5 1/2"

BWL (

R-VALUE

10/13

BASEMENT WALL | SLAB R-VALUE & | CRAWL SPACE WALL

10, 2 FT

R-VALUE

10/13

IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)

WOOD FRAME WALL

20 OR 13+5^h

|MASS WALL | FLOOR |

| R-VALUE | R-VALUE

19

8/13

	WINDOW SCHEDULE					
TYPE	STYLE	WIDTH	HEIGHT	TEMP	QUANTITY	
SH	SINGLE HUNG	3'-0"	5'-0"		5	
SH	SINGLE HUNG	3'-0"	5'-0"	/	1	
FX	FIXED	2'-0"	2'-0"		1	
FX	FIXED	2'-0"	5'-0"		1	

	OOF	RSCI	HEDULE	
STYLE	WIDTH	HEIGHT	FRAME DEPTH	QUANTIT
SLIDING - DOUBLE	4'-0"	6'-8"	4 1/2"	1
HINGED - DOUBLE	3'-0"	6'-8"	4 1/2"	1
HINGED - SINGLE	2'-6"	6'-8"	4 1/2"	3
HINGED - SINGLE	2'-4"	6'-8"	4 1/2"	6
HINGED - SINGLE	2'-8"	6'-8"	4 1/2"	2

UPPER LEVEL PLAN

BWL A

BWL B

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

REFERENCE KEYNOTES

02 - TRIM

02.12 - 2X6 STUD WALL

SIX SIDED TUB ASSEMBLY INCLUDING THERMOPLY 02.31 - ON EXTERIOR WALL TO 2" ABOVE TOP OF TUB DECK OR TUB/SHOWER UNIT

02.41 - CURB STAIR SYSTEM WITH OPEN HANDRAILS

02.51 - 3 STUDS BETWEEN WINDOW UNITS

05 - PLUMBING

05.23 - FIBERGLASS UNIT

06 - MECHANICAL

HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS 06.42 - AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC ACCESS.

1'-10"X3'-0" MINIMUM ATTIC ACCESS WITH 3/4" 06.51 - BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC ACCESS.

07 - MISCELLANEOUS & PLAN NOTES

07.41 - OPEN HANDRAILS

PROVIDE ADDITIONAL BLOCKING UNDER SUBFLOOR @ 6'-0" O.C. FOR OPEN HANDRAIL.

07.66 - LINE OF FLOOR BELOW

CONTINUE SWITCH CIRCUIT DOWN TO SWITCH AT BOTTOM OF STAIRS.

09 - ELECTRICAL - SEE ELECTRICAL PLANS

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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.

GENERAL NOTES - FLOOR PLAN

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.

STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY

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

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.

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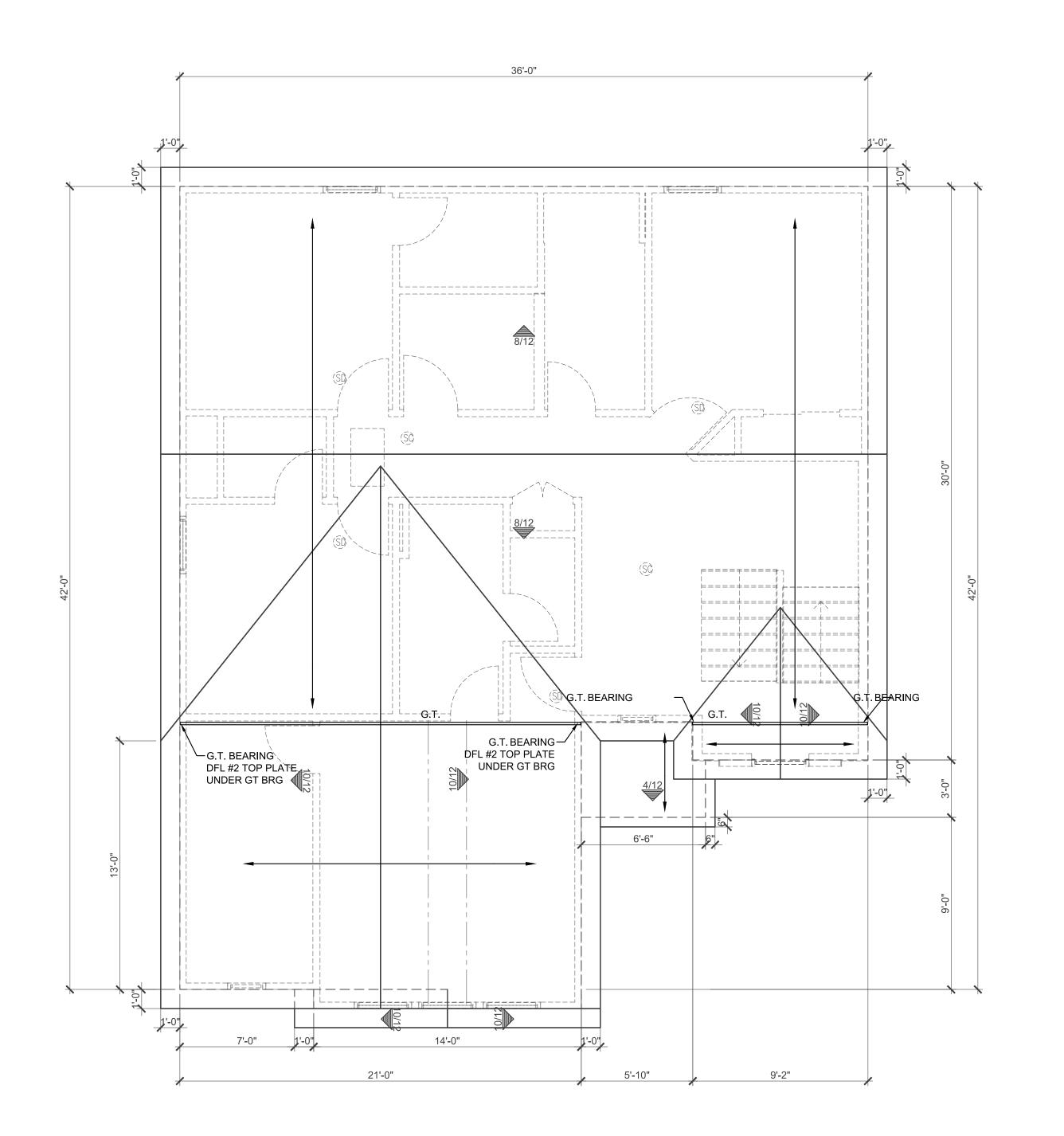
> EVERSTEAD 3741 NE TROON DRIVE SUITE 200 LEE'S SUMMIT, MO 64064 816-399-4901

> > **VERSION:**

ISSUE DATE:

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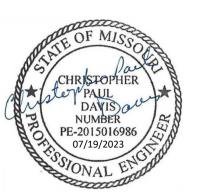
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GENERAL NOTES - ROOF

ROOF AND CEILING FRAMING ARE PRE-ENGINEERED

VENT EACH ENCLOSED ATTIC SPACE. NET AREA OPENING = 1/50TH OF VENTED AREA OR 1/300TH IF

BUILD CRICKET VALLEY AWAY FROM INTERSECTION

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY

STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS

HVAC DUCTWORK RUNNING THROUGH ATTIC SHALL BE

HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION

PROVIDE BLOCKING AT ALL CEILING JUMPS FOR

PROVIDE FOAM INSULATION AT EXTERIOR WHERE MAIN LEVEL ROOF LINE MEETS UPPER LEVEL WALLS.

ASPHALT SHINGLES MIN 2/12. FLASH ALL PENETRATIONS AND INTERSECTIONS.

FOR POSITIVE DRAINAGE. SEE FRAMING

580% OF VENTING NEAR TOP.

SPECIFICATIONS FOR DETAILS.

EXPECTED TO VARY PER VENDOR.

ROOF TRUSSES.

SURROUND.

INSULATION.

VERSION:

R2.0

ISSUE DATE:

06/29/2023

SHEET NUMBER:

ROOF PLAN

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 03/19/2024 4:11:23

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

GENERAL NOTES

PLANS SHALL COMPLY WITH THE 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.

<u>LOADING</u>

LIGHT ROOF	10 PSF	
HEAVY ROOF	+10 PSF	(CONCRETE, SLATE, TILE)
ROOF + CEILING (NO STORAGE)	15 PSF	
ROOF + CEILING (STORAGE)	20 PSF	
CEILING JOISTS (STORAGE)	10 PSF	
EXTERIOR BACONIES / DECK	10 PSF	
INTERIOR FLOOR (MAIN FLOOR)	15 PSF	
INTERIOR FLOOR (UPPER FLOORS)	10 PSF	
8" THICK MASONRY WALL	80 PSF	
6" THICK MASONRY WALL	85 PSF	
EXTERIOR LIGHT FRAMED WOOD WALLS	15 PSF	
INTERIOR LIGHT FRAMED WOOD WALLS	10 PSF*	
*(INTERIOR WALLS	INCLUDED IN 1	5 PSF DEAD LOAD)

LIVE		
ROOF LIVE LOAD FLOOR LIVE LOAD GARAGE	20 PSF 40 PSF 50 PSF	(HABITABLE)
STORAGE GUARDRAII	20 PSF	(UN-INHABITABLE)
CONTINUOUS LINEAR MAXIMUM POINTLOAD	50 PLF 200 LBS	
SNOW		
GROUND SNOW LOAD	20 PSF	
WIND		
ULTIMATE DESIGN WIND SPEED VELOCITY	115 MPH	

SOIL AND SITE ASSUMPTIONS:

EXPOSURE CATEGORY

- 1. FOUNDATION DESIGN ASSUME A MINIMUM SOIL BEARING PRESSURE FOR THE SITE OF 1,500 PSF. CONTRACTOR TO VISUALLY INSPECT SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS SW, SP, SM, SC, GM, AND GX AS DEFINED PER IRC TABLE R301.5. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND CONTACTING THE ENGINEER OF RECORD.
- 2. PROVIDE A MINIMUM SOIL COVER OF <u>36 INCHES MEASURED FROM THE BOTTOM OF CONCRETE ON ALL FOUNDATIONS.</u>
- ACCESSORY STRUCTURES WITH AN EAVE HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT² MAT PROVIDE A MINIMUM SOIL COVER OF 12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.
- 4. SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 0.5%.
- 5. LATERAL SOIL PRESSURES

 ACTIVE 30 PSF

 AT-REST 60 PSF

 PASSIVE 150 PSF

FOUNDATION NOTES:

FOUNDATION ANCHORAGE (IRC 403.1.6)

SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDER AT LEAST 7" INTO THE CONCRETE. BOLTS SHALL BE SPACED NO GREATER THAN 6' 0.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 EXCEEDS A 9" LONG BOLT.)

WALL BRACING METHODS PER IRC R602 MAY REQUIRE ADDITIONAL ANCHORAGE.

CONCRETE SLABS PLACED ON FILL MATERIAL WHICH EXCEEDS 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' OVER-DIG ADJACENT TO FOUNDATION WALL:
WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4' 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' OVER-DIG
DIAGRAM FOR DETAILS.

VAPOR RETARDER / BARRIER (IRC R506.2.3)

A 6 MIL 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 ACCESSORY BUILDINGS)

FOUNDATION AND LOT GRADING (IRC R401.3)

GRADES SHALL BE SLOPED AWAY FROM THE FOUNDATION A MINIMUM OF 6" IN THE FIRST 10'. ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

IRC R403.1.4

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST

 DROTTOTION
- FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SF OR LESS AND AN EAVE HEIGHT OF 10' OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF 12".

FOOTINGS:

EXTERIOR WALLS, BEARING WALLS, COLUMN 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" DIAGRAMS FOR MORE DETAIL (PER KC, MO STANDARDS)

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-11 AND THE 2018 INTERNATIONAL RESIDENTIAL CODE.
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2
- 3. CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ALL CONCRETE TO HAVE MAXIMUM 0.10 PERCENT WATER SOLUBLE CHLORIDE CONTENT BY WEIGHT OF CEMENT. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- 4. CONCRETE POURED AGAINST AN EXISTING SURGACE SHOULD BE ROUGHENED TO A MINIMUM 1/4 INCH AMPLITUDE.
- 5. REBAR CLEAR DISTANCE SHALL BE AS FOLLOWS:

 -CAST AGAINST AND PERMANENT CONTACT WITH GROUND3 IN

 -EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 2 IN

 NOT EXPOSED TO WEATHER OR GROUND 1.5 IN
- 6. CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER.
- 7. SHORING AND RESHORING:
 -SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS
 BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28

DAYS.
-SHORING MAY NOT BE REMOVED SOONER THAN RECOMMENDED BY ASTM 374-04 SECTION 3.7.2.3.

MINIMUM STANDARDS

CONCRETE SHALL BE 6% (\pm 1%) AIR-ENTRAINED FOR GARAGE SLABS AND FOR ALL LOCATION'S FOOTINGS, WALLS OR FLATWORK WHERE EXPOSED TO WEATHER. REBAR SHALL BE MINIMUM 60 KSI UNLESS NOTED OTHERWISE. REINFORCING BAR SHALL BE GRADE 60 MINIMUM.

CONCRETE REINFORCEMENT STEEL

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 2. SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 3. ALL REBAR LAP SPLICES SHALL BE CLASS B LAP SPLICES AS SHOWN ON THE LAP SPLICE SCHEDULE.
- 4. DEVELOPMENT LENGTH NOTED IS EQUAL TO 80% OF THE LENGTH NOTED IN THE LAP SPLICE SCHEDULE.
- 5. 90% HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14 -STRAIGHT EXTENSION LENGTH = $12x\emptyset_{BAR}$ -BEND DIAMETER = $12X\emptyset_{RAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)
- 7. HOOKED DOWELS:
- 7. HOOKED DOWELS:
 7.1. HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL
- REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF FOUNDATION
 7.2. HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO FOUNDATION
- 8. PROVIDE 2 #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS
- 9. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK
- 10. TOP AND BOTTOM HORIZONTAL REINFORCING SHALL BE PLACED 1-1/2" TO 2" FROM THE TOP AND BOTTOM OF THE WALL

FOOTNOTES:

- 1. WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB.
- 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 PLACE AS FOLLOWS:
 - A. 8" WALL MINIMUM 5" FROM THE OUTSIDE FACE.
 B. 10" WALL MINIMUM 6-3/4" FROM THE OUTSIDE FACE.
 - C. EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL.
- 3. HORIZONTAL REINFORCEMENT:
- A. ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.
- B. OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C.C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE).
- D. 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.
- 4. REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.
- 5. 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.
- 6. STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16' 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).

TABLE 1.1

	NORMAL WEIGHT CONCRETE LAP SPLICE SCHEDULE, IN						
BAR	AR TOP BARS OTHER BARS						
SIZE	CASE 1	CASE 2	CASE 1	CASE 2			
#3	28	42	22	32			
#4	37	56	29	43			
#5	47	70	36	54			
#6	56	84	43	64			

STEEL DECK - SUSPENDED SLABS

- STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.
- 2. STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION
- DRAWINGS:
- WIDE RIB CONFIGURATION1.5" DEPTH
- 24GA DESIGN THICKNESS
- MAXIMUM SINGLE SPAN OF 4'-8" OR CONTINUOUS SPAN OF 5'-10"
 GALVANIZE PER ASTM A653 OR SHOP PRIME PER ASTM A1008
- GALVANIZE PER ASTM A653 OR SHOP PRIME PER ASTM A1008
 ATTACH STEEL ROOF DECK TO SUPPORTS WITH #12 TEK AT 18" O.C.
- ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR MID-SPAN, WHICHEVER IS SMALLER
- 3. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING.
- 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

STEEL DECK - SUSPENDED SLABS
STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.

CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING.

STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

- 2" COMPOSITE DECK WITH 6" TOTAL SLAB THICKNESS
 19GA DESIGN THICKNESS
- 19GA DESIGN THICKNESS
 MAXIMUM SINGLE SPAN DURING CONSTRUCTION OF 8', 2 SPAN OF 10'-1", OR 3 SPAN OF 10'-5".
- MAXIMUM SPAN SHALL NOT EXCEED 12.5'.
 PROVIDE W2.1xW2.1 WELDED WIRE MESH OR #4 @ 12" O.C. EACH WAY. PROVIDE 2" REBAR COVER MEASURED FROM TOP OF THE SLAB
- GALVANIZE PER ASTM A653
- MINIMUM BEARING LENGTH AT EDGE SUPPORTS IS 2"
- MINIMUM BEARING LENGTH AT INTERIOR SUPPORTS IS 4"
 ATTACH STEEL COMPOSITE FLOOR DECK TO SUPPORTS WITH 5/8" ARC PUDDLE WELDS AT 12"
 O.C. MECHANICAL FASTENERS EITHER POWDER ACTUATED, PNEUMATICALLY DRIVEN, OR
- SCREWS MAY BE USED IN LIEU OF WELDING PROVIDED THEY ARE APPROVED.

 ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR

MID-SPAN, WHICHEVER IS SMALLER.
CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY POUR STOPS, COLUMN CLOSURES, END PLATES, AND COVER PLATES AS NEEDED.

STRUCTURAL STEEL

- 1. STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS:

 HOLLOW STRUCTURAL SECTIONS:

 CHANNELS, PLATES AND ANGLES:

 WIDE FLANGES:

 COLUMNS:

 ASTM A500 (Fy = 46 KSI)

 ASTM A36 (Fy = 36 KSI)

 ASTM A992 (Fy = 50 KSI)

 ASTM A53 GR. B (Fy= 35 KSI)
- 3. BOLTS SHALL CONFORM TO ASTM A307

ANCHOR RODS:

- 4. WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.
- 5. WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OR 3/16" SIZE UNLESS NOTED OTHERWISE.
- 6. ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

ENERGY REQUIREMENTS:

- 1. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.4.
- 2. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.1.1.
- 3. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.3.2.1.
- 4. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- 5. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4.
- 6. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC M1504.3.
- 7. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1503.6.
- 8. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6 ENERGY CONSERVATION.

GARAGES:

- 1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.
- 2. DOORS BETWEEN THE GARAGE AND THE DWELLING MINIMUM 1-3/8" SOLID CORE OR HONEY COMBED STEEL DOOR OR 20 MINUTE FIRE RATED.
- 3. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND IT'S ATTIC AREAS BY A MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS PROVIDED
- 4. THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYPSUM BOARD OR EQUIVALENT. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE THE FLOOR CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM PS TYPE "X" GYPSUM BOARD ON THE GARAGE CEILING.
- 5. 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 CEILING, ATTACHED WITH 1-3/4"x0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4"x0.120" NAILS THROUGH THE JAMB INTO THE HEADER. A MINIMUM OF 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.
- 6. SELF CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING SEPARATION DOORS
- 7. GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 90 MPH WIND LOAD REQUIREMENTS OF DASMA 108 AND ASTM E330-96 (IRC 301.2.1).

STAIRWAYS:

- 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.
- PROVIDE GUARD RAILS BETWEEN 36" GUARD RAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES; MINIMUM 34" GUARD RAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW.
- 3. GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
- 4. EACH STAIRWAY OF THREE OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- 5. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2-5/8" OR OTHER APPROVED GRASPABLE SHAPE PER IRC R311.5.6.
- 6. MINIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS.

GLAZING

ASTM F1554 (Fy = 36 KSI)

1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS; GLASS IN STORM DOORS; INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR; WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR; ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS; GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING 8 SF AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".

7. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE

STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE PER IRC R311.2.2.

2. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH R312.2.

EMERGENCY EGRESS AND RESCUE

- 1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SF WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21"
- 2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.
- 3. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.
- 4. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER R315.

FRAMING NOTES:

- 1. ALL LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.
- 2. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2x10 ON LOAD BEARING WALLS.
- 3. ALL HEADER/BEAMS TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE.
- 4. DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.
- 5. CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED
- 6. ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- 7. 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.

8. LVL STRENGTH SHALL BE VERSA-LAM 3100 Fb UNLESS NOTED OTHERWISE.



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GENERAL NOTES

SHEET#

GN1.0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/19/2024 4:11:23

ITEM	DESCRIPTION OF BUILDING	NI IMBED AND TYPE OF EASTENED	SPACING AND LOCATION
ı⊏IVI	ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
		ROOF 4-8D BOX (2-1/2"x0.113") OR	
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL
2	CEILING JOSTS TO TOP PLATE	4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	PER JOIST, TOE NAIL
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARTITIONS	4-10D BOX (3" X 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS	FACE NAIL
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	TABLE R802.5.2	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4"x20 GAGE RIDGE STRAP TO RAFTER	4-10D BOX (3" X 0.128"); OR 3-10D COMMON (3" X 0.148"); OR 4-3" X 0.131" NAILS	FACE NAIL EACH RAFTER
6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-10D BOX (3" X .128"); OR 4-3" X 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
7	ROOF RAFTERS TO RIDGE, VALLEY	4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X0.131" NAILS	TOE NAIL
7	OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS	END NAIL
		WALL	
8	STUD TO STUD (NOT AT BRACED	16D COMMON (3-1/2" X 0.162")	24" O.C. FACE NAIL
σ	WALL PANELS)	10d BOX (3"x0.128"); OR 3" X 0.131" NAILS	16" O.C. FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL	16D BOX (3-1/2"x0.135"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL
	PANELS)	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL
10	BUILT-UP HEADER (2" TO 2"	16D COMMON (3-1/2"x0.162")	16" O.C. ALONG EACH EDGE FACE NAIL
	HEADER WITH ½" SPACER)	16D BOX (3-1/2" X 0.135)	12" ALONG EACH EDGE FACE NAIL
11	CONTINUOUS HEADER TO STUD	5-8D BOX (2-1/2" X 0.113"); OR 4-8D COMMON (2-1/2" X 0.131"); OR 4-10D BOX (3" X 0.128")	TOENAIL
		16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL
12	TOP PLATE TO TOP PLATE	10d BOX (3"x0.128"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON(3-1/2" X 0.162"); OR 12-16D BOX (3-1/2" X 0.135"); OR 12-10D BOX (3" X 0.128"); OR 12-3" X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
	BOTTOM PLATE TO JOIST, RIM	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL
14	JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D BOX (3-1/2"x0.135"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST BLOCKING (AT BRACED WALL PANELS)	3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON (3-1/2"x0.162"); OR 4-3" X 0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2-1/2"x0.113") OR 3-16D BOX (3-1/2" x 0.135"); OR 4-8D COMMON (2-1/2" X 0.131"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL
		3-16D BOX (3-1/2" x 0.135"); OR 2-16D COMMON (3-1/2" X 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" X 0.128"); OR 2-16D COMMON (3-1/2" X 0.162"); OR 3-3" X 0.131" NAILS	FACE NAIL
18	1" BRACE TO EACH STUD AND PLATE	3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR 2 STAPLES 1-3/4"	FACE NAIL
19	1"x6" SHEATHING TO EACH BEARING	3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE NAIL
20	1"x8" AND WIDER SHEATHING TO EACH BEARING	3-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG WIDER THAN 1" X 8" 4-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR	FACE NAIL

		C TABLE R602.3(1) (SEE IRC FOR FOOTI			
		FLOOR	,		
21	JOST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	TOE	NAIL	
	RIM JOIST, BAND JOIST OR	8d BOX (2-1/2"x0.113")	4" O.C. 1	OE NAIL	
22	BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D COMMON (2-1/2" X 0.131"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	6" O.C. 1	OE NAIL	
23	1"x6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE	: NAIL	
		FLOOR			
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162")	BLIND AND	FACE NAIL	
25	2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	2-16D COMMON (3-1/2"x0.162")	AT EACH BEAR	ING, FACE NAIL	
26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, ⁷ / ₁₆ " CROWN	END	NAIL	
		20D COMMON (4" X 0.192"); OR	NAIL EACH LAYER AS F TOP END AND BOTTON		
27	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	24" O.C. FACE NAIL AT STAGGERED ON OPPO		
	LOWBER LATERS	AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPL		
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16D BOX (3-1/2" X 0.135"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE N		
29	BRIDGING OR BLOCKING TO JOIST	2-10D BOX (3" X 0.128"); OR 2-8D COMMON (2-1/2" X 0.131"; OR 2-3" X 0.131") NAILS	EACH END, TOE NAIL		
	DESCRIPTION OF BUILDING		SPACING OF FASTENERS		
ITEM	ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGES (IN)	INTERMEDIA SUPPORTS (I	
30	3/8" - 1/2"	6d COMMON (2"x0.113") NAILS (SUBFLOOR, WALL) 8d COMMON (2-1/2"x0.131") NAIL (ROOF); OR RSRS-01 (2-38" X 0.113") NAIL (ROOF)	6	12	
31	19/32"-1"	8d COMMON NAIL (2-1/2"x0.131"); OR RSRS-01 (2-3/8" X 0.113") NAIL (ROOF)	6	12	
32	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	T	Γ	
33	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 $\frac{7}{16}$ " OR 1" CROWN	3	6	
34	25/32" STRUCTURAL CELLULOSTIC FIBERBOARD SHEATHING	1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1-1/2" LONG 16 GA STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	3 6	
35	1/2" GYPSUM SHEATHING	1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S"	7 7		
36	5/8" GYPSUM SHEATHING	1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S"	7	7	
	WOOD STRUCTURA	L PANELS, COMBINATION SUBFLOOR U	NDERLAYMENT TO FE	RAMING	
37	3/4" AND LESS	6D DEFORMED (2"x0.120") NAIL OR 8D COMMON (2-1/2"x0.131") NAIL	6	12	
38	7/8" - 1"	8D COMMON (2-1/2"x0.131") NAIL OR 8D DEFORMED (2-1/2"x0.120") NAIL	6	12	
		10D COMMON (3"x0.148") NAIL OR	- 12		

TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS					
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)					
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING	
LEDGER	2	1/4	2	1-5/8	
BAND JOIST	3/4	2	2	1-5/8	

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
	0	10	18	1,000
			9	1,000
	1	10	16	1,000
			18	1,000
		10	9	1,200
	2		16	1,000
2x4 NO 2 GRADE			18	2,025
		12	9	2,400
	2		16	1,200
			18	3,200
			9	3,200
	4	12	16	2,350
			18	DR
			9	1,000
	2	12	16	2,050
2x6 STUD			18	2,450
GRADE			9	1,500
	4	12	16	3,150
			18	3,675

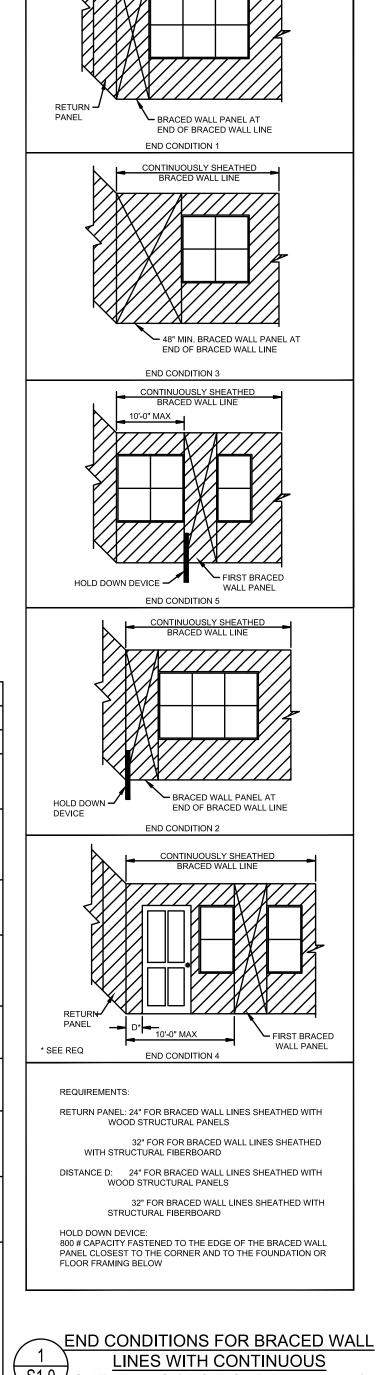
TENSION

MINIMU	M LENGTH OF BRA	ACED WALL F (PARTIAL)	PANELS TABLE	R602.10.5					
MINIMUM LENGTH (INCHES)									
М	ETHOD		WALL HEIGHT	Γ					
		8 FEET 9 FEET 10 FEET							
	SUPPORTING ROOF ONLY	16	16	16					
PFH	SUPPORTING ONE STORY AND ROOF	24	24	24					
	PFG	24	27 30						
	CS-PF	16	18	20					
CS-WSP	ADJACENT CLEAR OPENING HEIGHT (INCHES)								
	LESS THAN OR EQUAL TO 64	24	27	30					

BRACING METHODS TABLE R602.10.4 (PARTIAL)								
METHODS,	MINIMUM	CONNECT	ION CRITEIA					
MATERIAL	THICKNESS	FASTENERS	SPACING					
WSP - WOOD		EXTERIOR SHEATHING PER TABLE R602.3(3)	6" EDGES, 12" FIELD					
STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	VARIES BY FASTENER					
CS-WSP CONTINUOUSLY		EXERIOR SHEATHING PER TABLE R602.3(3)	6" EDGES, 12" FIELD					
SHEATHED WOOD STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	VARIES BY FASTENER					
PFH - PORTAL FRAME WITH HOLD DOWNS	3/8	SEE IRC SECTION R602.10.6.2	SEE IRC SECTION R602.10.6.2					
PFG - PORTAL FRAME AT GARAGE	3/8	SEE IRC SECTION R602.10.6.3	SEE IRC SECTION R602.10.6.3					
LIB	1x4 WOOD OR APPROVED METAL STRAPS AT 45 TO 60	WOOD: 2-8d COMMON NAILS OR 3-8d NAILS	WOOD: PER STUD AND TOP AND BOTTOM PLATES					
LET-IN-BRACING	DEGREE ANGLES FOR MAX 16" STUD SPACING	METAL STRAP: PER MANUFACTURER	METAL: PER MANUFACTURER					
GB-GYPSUM BOARD	1/2	NAILS OR SCREWS PER TABLE R602.3(1) FOR EXTERIOR LOCATIONS	FOR ALL BRACED WALL PANEL LOCATIONS: 7"					
	112	NAILS OR SCREWS PER TABLE R702.3.5 FOR INTERIOR	EDGES (INCLUDING TOP AND BOTTOM PLATES) 7" FIELD					

LOCATIONS

	ENGINEERED LUMBER MINIMUM DESIGN REQUIREMENTS									
		fb (PSI)	E (PSI)	Fv (PSI						
	VERSA-LAM LVL	3100	2.0x106	285						
	DOUGLAS FIR-LARCH #2	900	1.6x106	180						

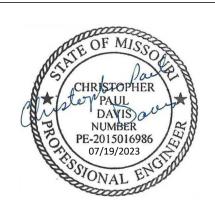


S1.0 SHEATHING (IRC FIGURE R602.10.7)

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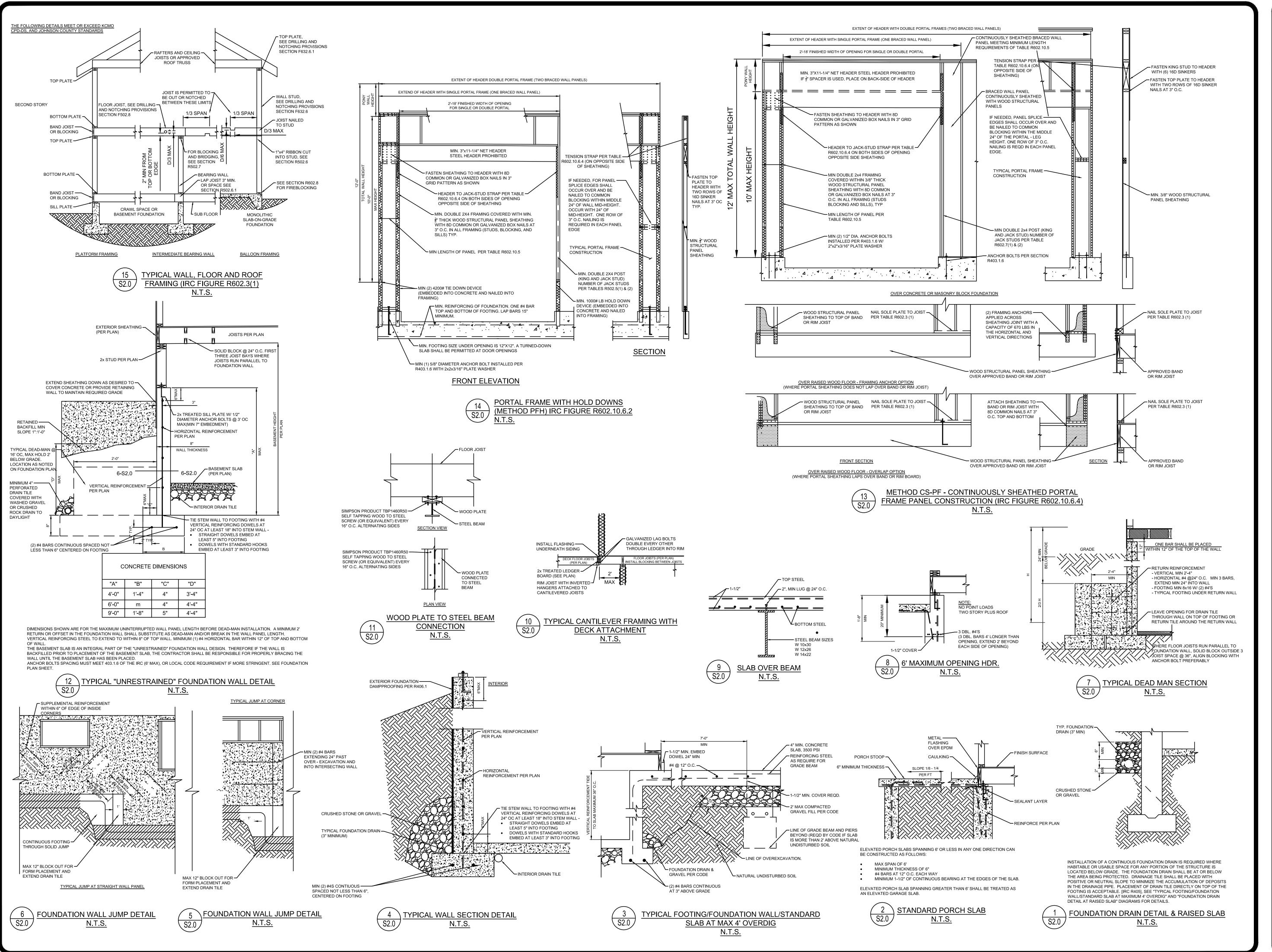
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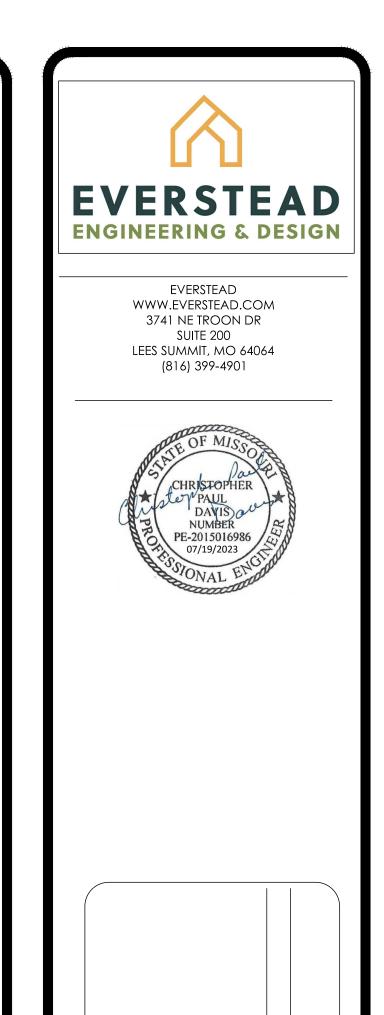
TABLE R507/2 FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK LIVE LOAD = 40PSF, DECK DEAD LOAD = 10 PSF)

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			

F	REQUIREMENTS FO	R WOOD STRUCTURA	AL PANEL WALL SHEAT	HING USED TO RESIST	WIND PRESSUR	RES IRC TABLE 60	02.3(3) (PARTIAL)	
MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL SPAN	MINIMUM NOMINAL PANEL	MAX WALL STUD	PANEL NAI	L SPACING	ULTIMATE DESIGN WIND SPEED, V ULT (MPH)	
SIZE	PENETRATION (IN)	RATING	THICKNESS (IN)	SPACING	EDGES (IN O.C.)	FIELD (IN O.C.)	В	
6d COMMON	1.5	24/0	3/8	16	6	12	140	
8d COMMON	1.75	1 75	24/16	7/16	16	6	12	170
		24/10	//10	24	6	12	140	

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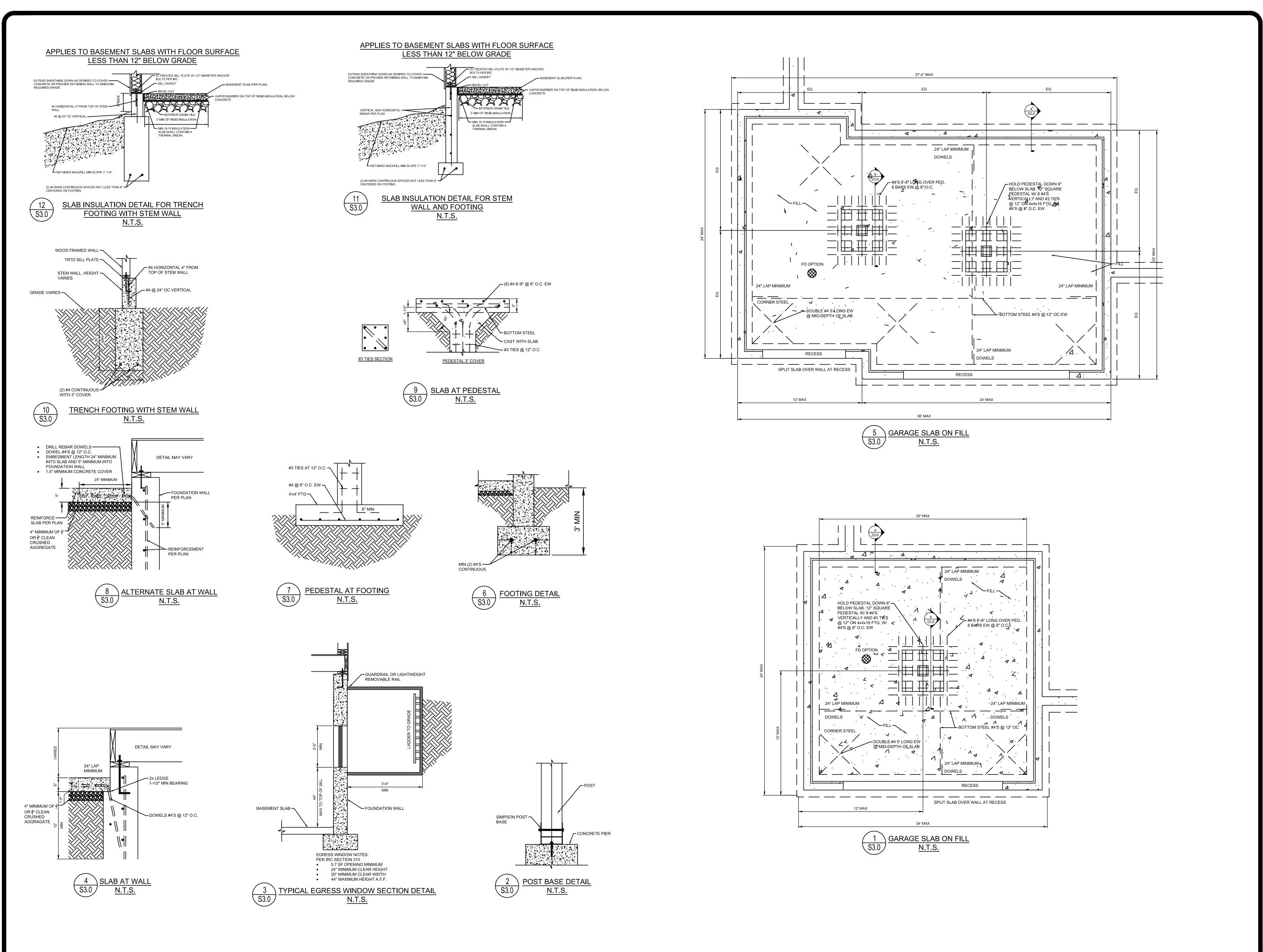


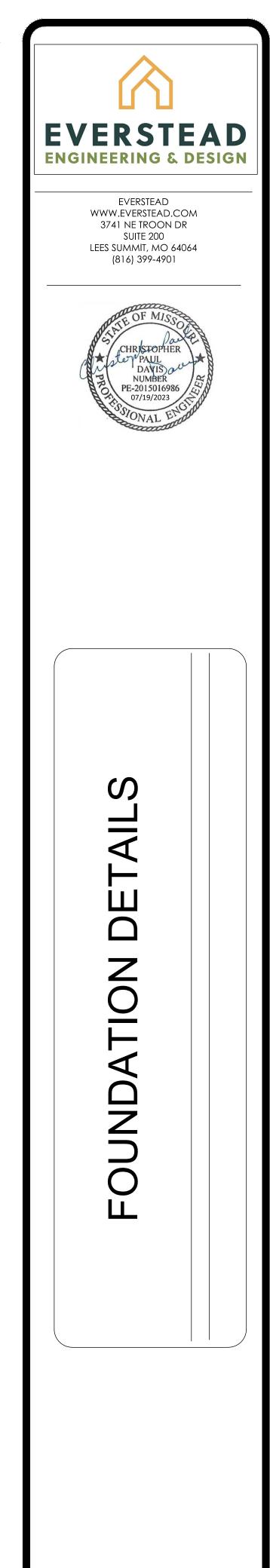
STRUCTURAL DETAILS

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HELIX REQUIREMENTS:

- FOUNDATION WALL SHALL NOT EXCEED 9' HEIGHT.
- DEAD MAN SHALL BE A MAXIMUM 3'8" FROM TOP OF FOUNDATION WALL ELSE HELIX NOT PERMITTED.

ALL CONCRETE SHALL BE REINFORCED WITH HELIX MICRO REBAR ALONG WITH ANY ADDITIONAL REBAR AS NOTED:

- 9.0 LB/CUBIC YARD DOSAGE OF HELIX 5-25.
- VERIFY DOSAGE AT FORM INSPECTION.SEE MIXING REQUIREMENTS ON THIS PAGE.
- SEE MIXING REQUIREMENTS ON THIS PAGE.
 MINIMUM 3000 PSI FOOTING COMPRESSIVE STRENGTH
- MINIMUM 3000 PSI WALL COMPRESSIVE CONCRETE STRENGTH.
- AIR ENTRAINED BETWEEN 5-7% OF CONCRETE VOLUME.
- GRADE 60 REINFORCING STEEL UNLESS OTHERWISE NOTED.
 LAP SPLICES 24" MINIMUM.
- ASSUMED 1500 PSF SOIL BEARING.
- WALL SHALL BE BACK-FILLED WITH CLEAN, LEAN CLAY, OR BETTER, LOW VOLUME CHANGE MATERIAL. ON-SITE MATERIAL MAY BE USED IF DEEMED ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

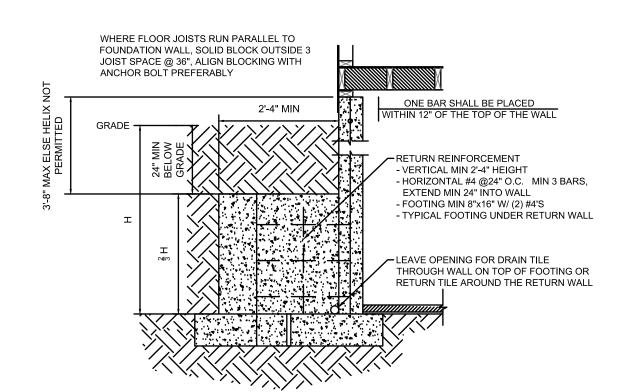
HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

- NON-UNIFORM FOOTING SUPPORT (IE. CAST IN PLACE PIERS, PUSH PILES).
- DAYLIGHT WALLS EXCEEDING 6' TALL FOR A LENGTH GREATER THAN 6'.

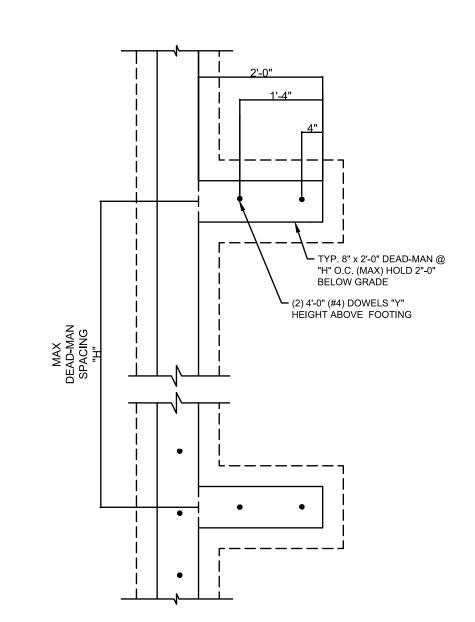
HELIX DOSING INSTRUCTIONS:

MIXING SHOULD BE DONE ACCORDANCE WITH ASTM C94 AND THE MIXING INSTRUCTIONS BELOW. THE DOSAGES OF HELIX ADDED TO THE MIX SHOULD BE NOTED ON THE BATCH DOCUMENTATION IN ACCORDANCE WITH UNIFORM EVALUATION SERVICE ER 279 SECTION 5.15. VERIFIED USING PROCEDURE IN ER 279 APPENDIX A.

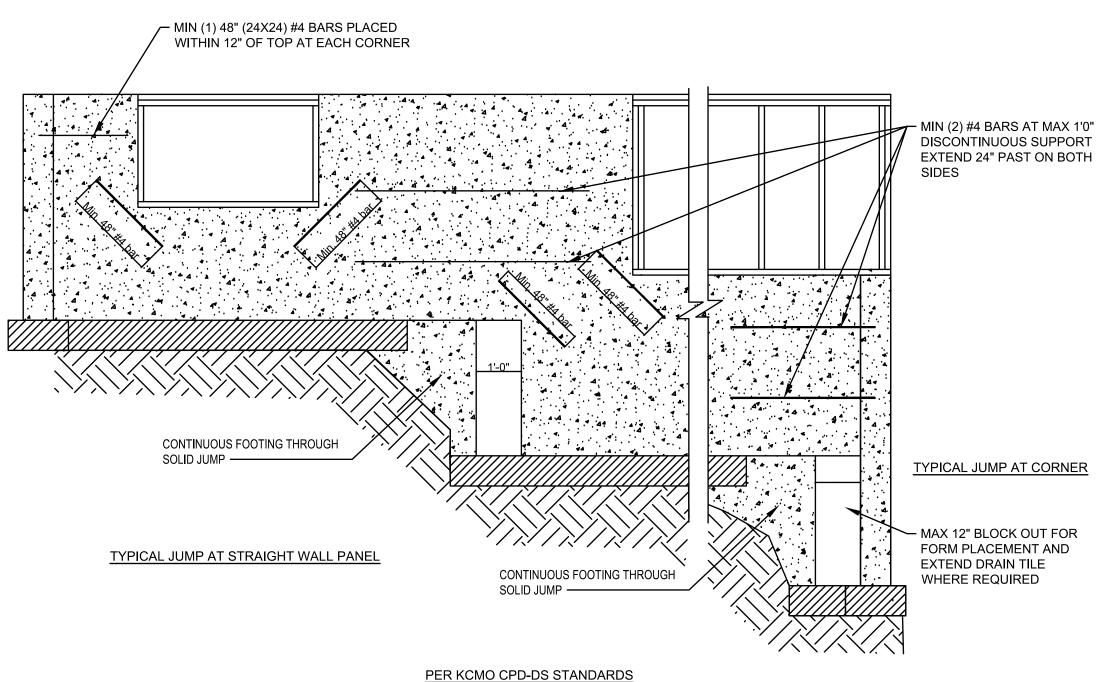
A SLUMP OF 125 MM OR 5" OR HIGHER WILL FACILITATE STRIKE OFF. A SLUMP OF LESS THAN 4" IS NOT RECOMMENDED AS THIS WILL PREVENT SURFACE SEGREGATION OF THE CEMENT AND FINES FROM THE AGGREGATE AND HELIX. SLUMP SHOULD BE MEASURED ON THE INITIAL LOAD AND ADJUSTMENTS MADE WITH A WATER REDUCER OR PLASTICIZER (NOT WATER).



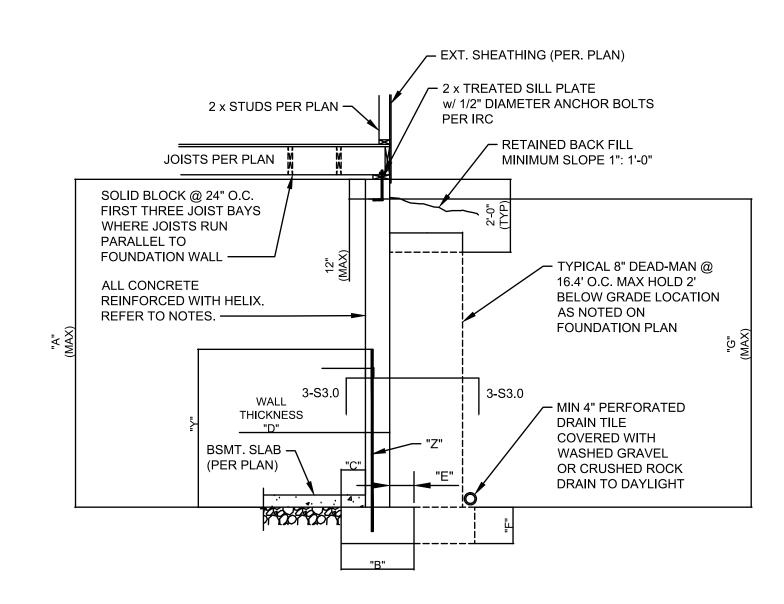












CONCRETE DIMENSIONS							HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.	
"A"	"B"	"C"	"D"	"E"	"F"	"G"	"Y"	"Z"		
8'-0"	1'-4"	4"	8"	4"	8"	7'-6"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	
9'-0"	1'-4"	4"	8"	4"	8"	8'-6"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	

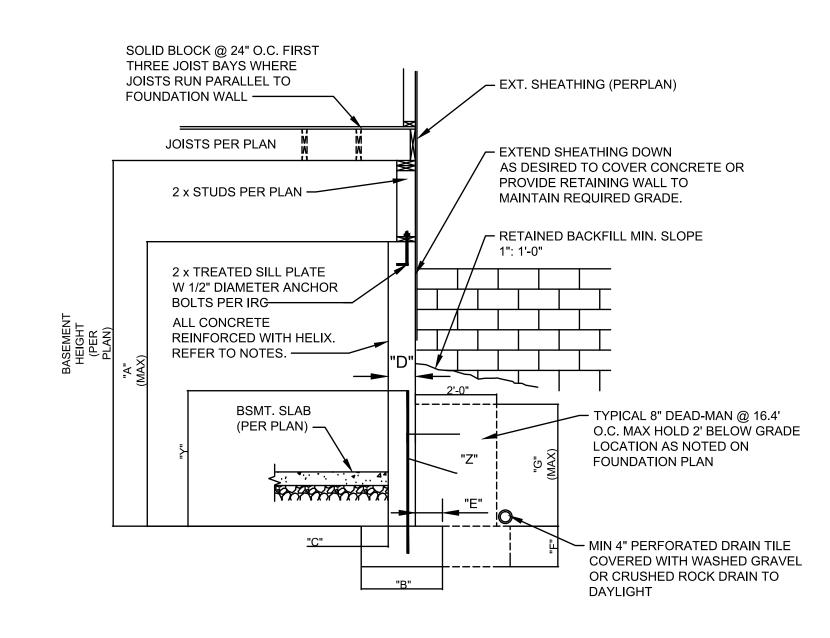
DIMENSIONS SHOWN IS FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN SHALL BE INSTALLED. A MINIMUM 2' RETURN OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH.

WALL WILL NOT ACHIEVE FULL STRENGTH UNTIL FIRST FLOOR DECK AND BASEMENT SLAB HAVE BEEN PLACED.



		HELIX DOSAGE					
Α	LL STRI	P F	00	TINGS AND GRADE BI	EAMS	9 LB/CU FT	
		ISC	DLA [.]	TED FOOTINGS AND	COLUMN PAD	S	
SYM	PIER PAD SIZE	DEF	РТН	MINIMUM REINFORCEMENT GRADE 60 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI	HELIX DOSAGE	
A	30"x30"	1'-	-0"	(5) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
B	36"x36"	1'-	-0"	(6) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
<u></u>	42"x42"	1'-	-2"	(7) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
\triangle	48"x48"	1'-	-4"	(8) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
<u></u>	48"x48"	1'-	-4"	(8) #4 BAR E.W.	N/A	12.5 LB/CU FT	
E	54"x54"	1'-	-4"	(9) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT	
F	60"x60"	1'-	-6"	(10) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT	
SYM	PIER DIAMETE	R	DEP1	MINIMUM REINFORCEMENT GRADE 60 KSI STEEL		HELIX DOSAGE	
G	12"	12" 3'-0		" (4) VERTICA	(4) VERTICAL #4		
H	16"		3'-0'	" (4) VERTICA	(4) VERTICAL #4		
	18"		3'-0'	" (4) VERTICA	(4) VERTICAL #4		
K	24"		3'-0'	" (4) VERTICA	AL #4	12.5 LB/CU FT	
<u></u>	28"		3'-0'	" (4) VERTICA	AL #4	12.5 LB/CU FT	

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.



			CONCR	ETE DIN	MENSION	IS	HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.
"A"	"B"	"C"	"D"	Ë	"F"	"G"	"Y"	"Z"	THEE IN BOOK OF.
4'-0"	1'-4"	4"	8"	4"	8"	3'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD
6'-0"	1'-4"	4"	8"	4"	8"	4'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD

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

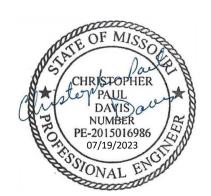


TYPICAL "UNRESTRAINED" FOUNDATION WALL DETAIL

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HELIX DETAILS

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