RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/30/2021 11:03:51



NOTE:

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

ELEVATIONS: GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS. WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE.
WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

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

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



FRONT & REAR ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED
- PER SITE. 1.41 4X4 CEDAR POST
- 2.61 5/4"X8" TRIM. 1 1/2" ARCH ON GARAGE DOOR TRIM UNLESS NOTED OTHERWISE ON ELEVATION.
- 11 LAP SIDING WITH 5/4X6 TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.
- 3.13 PANEL SIDING WITH 3/4X4 TRIM AROUNI DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6"
- ABOVE GRADE. 3.15 BOARD AND BATTEN
- .17 MANUFACTURED STONE VENEER 3.18 CAST STONE CAP
- 3.42 6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP.
- 3.57 26"X6" CEDAR BRACKET, RE: 3/A1 MINIMUM ROOFING COMPOSITION- 30 YF COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED
- 31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.

CPG DBA

120 SE 30TH ST.

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LEE'S SUMMIT, MO 64082

816-246-6700

STRICTLY PROHIBITED.

A: 2108 SW HOLDBROOKS DR B: 2106 SW HOLDBROOKS DR C: 2104 SW HOLDBROOKS DR D: 2102 SW HOLDBROOKS DR

PROFESSIONAL SEAL:

PE-2015016986

EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS

ONLY. ARCHITECTURAL PLANS

WERE PRODUCED BY OTHERS.

EVERSTEAD 600 SW JEFFERSON SUITE 300

2021.09.27 22:23:57 -05'00'

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

12" —

GENERAL NOTES

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

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

SHEET INDEX

- A1. FRONT AND REAR ELEVATION
- A2. LEFT AND RIGHT ELEVATION
- A3. FOUNDATION FLOOR PLAN

SQUARE FOOTAGE TABLE

FINISHED SQUARE FOOTAGE

- A4. MAIN LEVEL PLAN
- A5. UPPER LEVEL PLAN
- A6. ROOF PLAN

MAIN LEVEL

UPPER LEVEL LOWER LEVEL

GARAGE

LOWER LEVEL

LEE'S SUMMIT, MO 640 816-399-4901

OTAL	DRAWN BY:
2768	C.HOOPER
2584	Oli 1001 Lik
1852	
7204	
OTAGE	
OTAL	SSUE DATE:
1736	OOUL DATE.

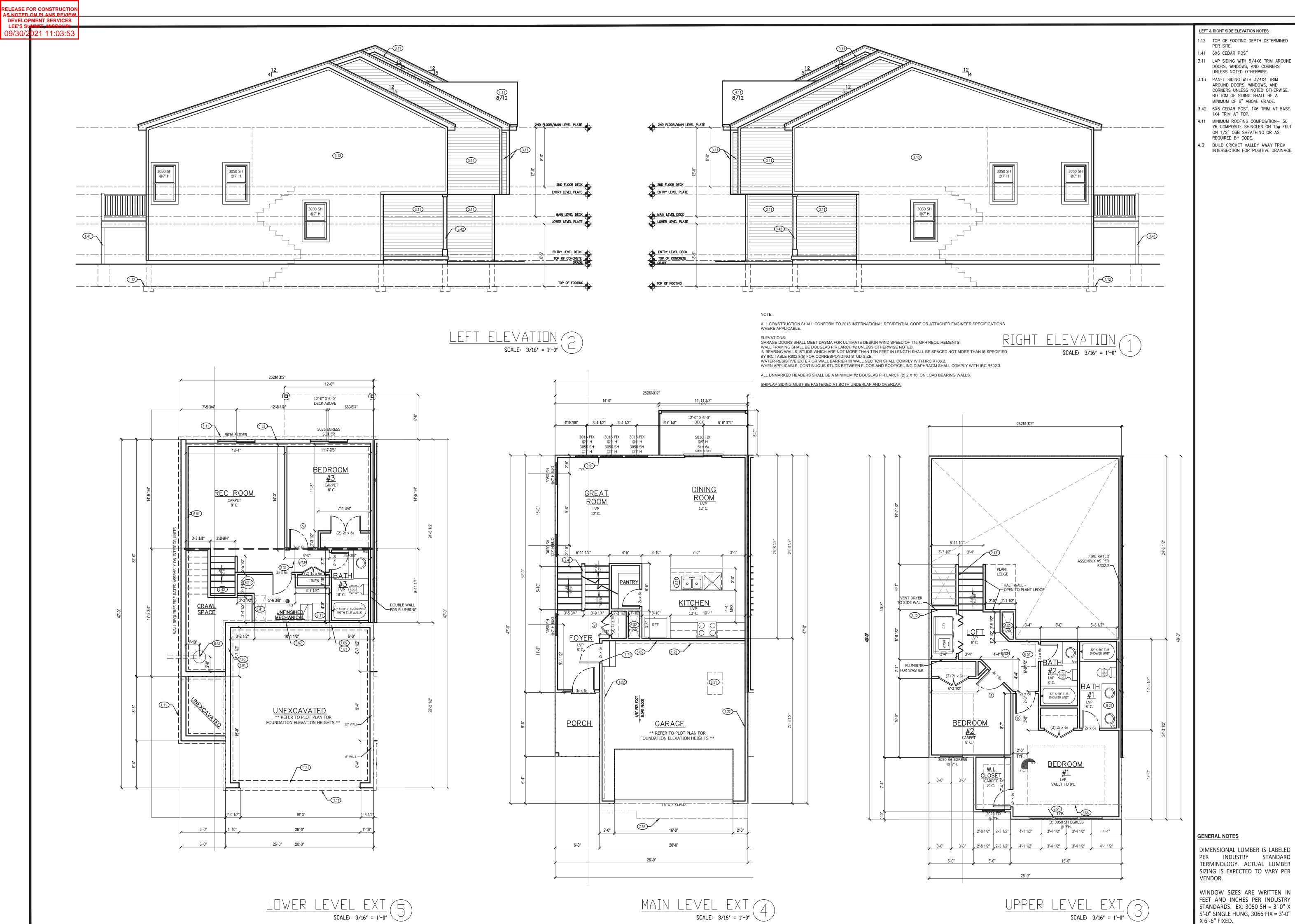
UNFINISH			
	PER UNIT	TOTAL	15
ARAGE	434	1736	
OWER LEVEL	63	252	ll .
ECK	72	288	

REVISIONS					
Ο.	DATE	DESCRIPTION			
1					
2					
3					

SHEET NUMBER:

09.07.21

SCALE: 3/16" = 1'-0"



LEFT & RIGHT SIDE ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED
- PER SITE.
- 1.41 6X6 CEDAR POST
- 3.11 LAP SIDING WITH 5/4X6 TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. .13 PANEL SIDING WITH 3/4X4 TRIM
 - AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.
 - 3.42 6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP. MINIMUM ROOFING COMPOSITION- 30
- REQUIRED BY CODE. .31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.

CPG DBA



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

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EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901

> DRAWN BY: C.HOOPER

ISSUE DATE: 09.07.21

SHEET NUMBER:

X 6'-6" FIXED.

LEFT & RIGHT SIDE ELEVATION NOTES

1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.

1/2" OSB SHEATHING OR AS REQUIRED

- 1.41 4X4 CEDAR POST
- 3.11 LAP SIDING WITH 5/4X6 TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS
- NOTED OTHERWISE. 3.42 6X6 CEDAR POST. 1X6 TRIM AT BASE.
- 1X4 TRIM AT TOP. 4.11 MINIMUM ROOFING COMPOSITION- 30 YR COMPOSITE SHINGLES ON 15# FELT ON
- BY CODE. 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.

120 SE 30TH ST.

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EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901

> DRAWN BY: C.HOOPER

ISSUE DATE: 09.07.21

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD

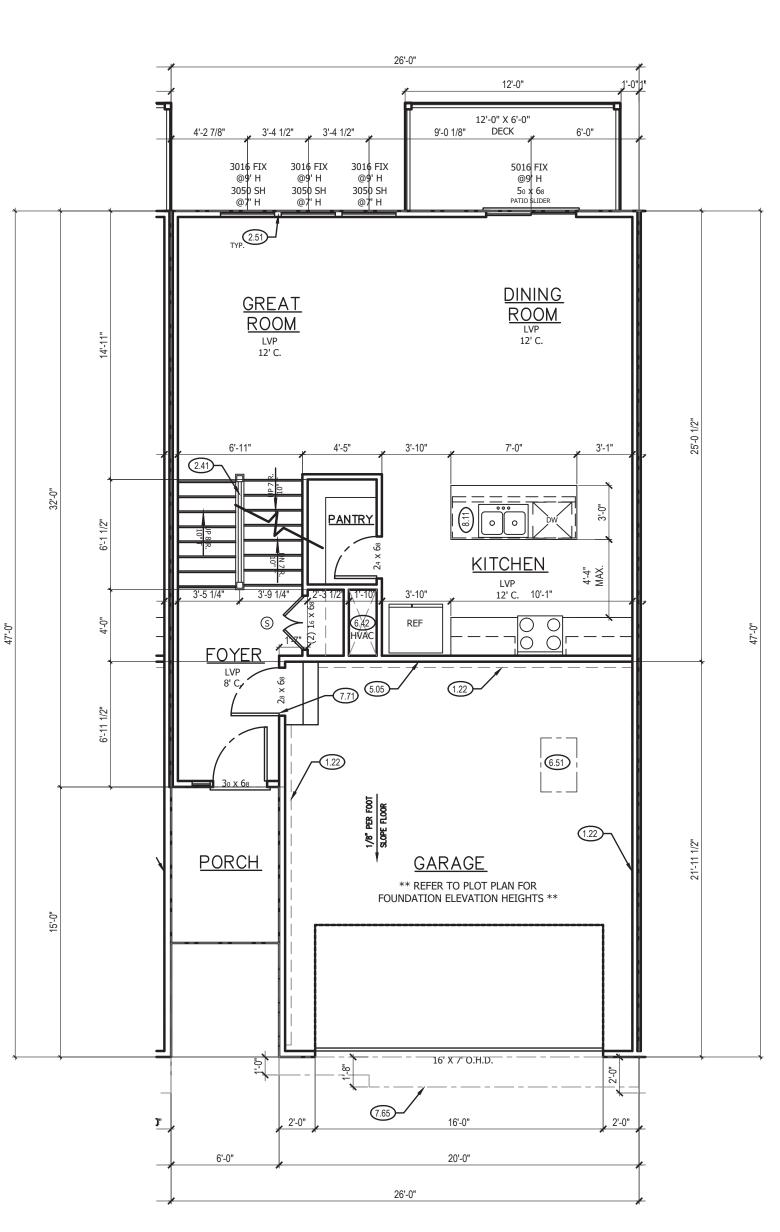
GENERAL NOTES

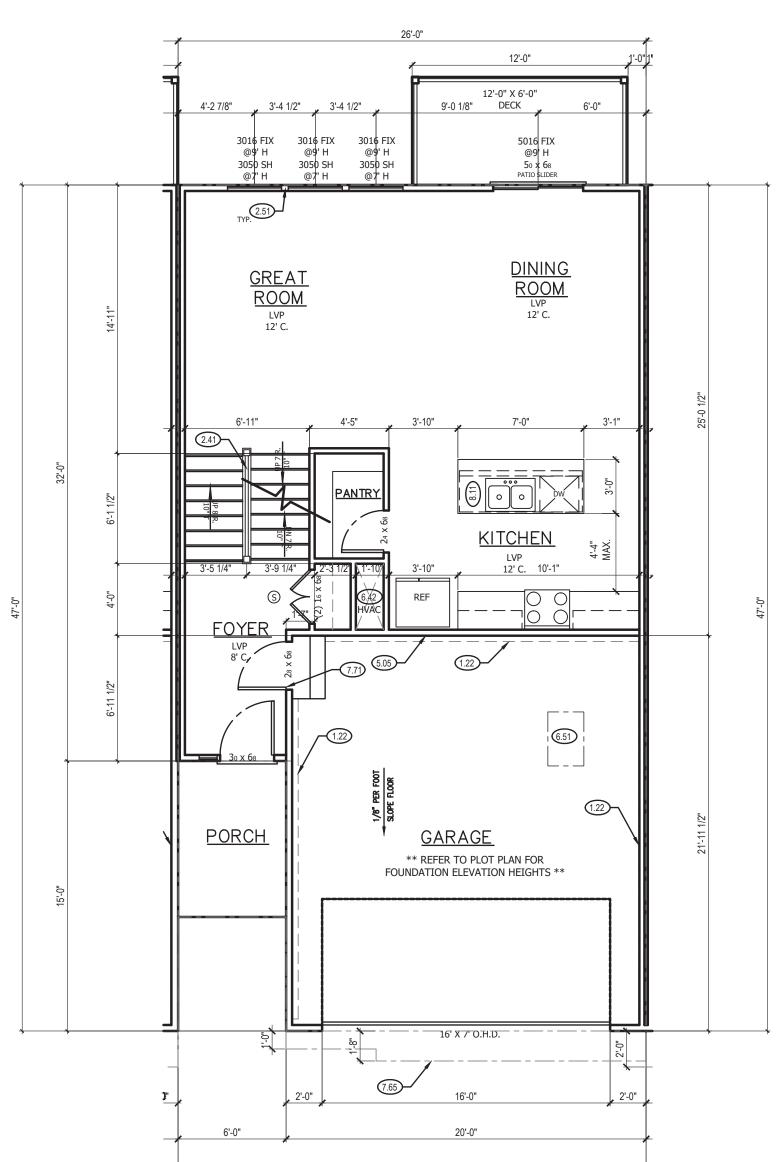
VENDOR.

TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER

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.

SHEET NUMBER:







1.11

12'-0" X 6'-0"

DECK ABOVE

5036 EGRESS

5036 SLIDER SLIDER

UNEXCAVATED

** REFER TO PLOT PLAN FOR
FOUNDATION ELEVATION HEIGHTS **

FIRE RATED

ASSEMBLY AS PER



BEDROOM

VAULT TO 9'C

3'-2 1/2" 2'-9 1/2" 2'-8 1/2" 2'-3 1/2" 4'-1 1/2" 3'-4 1/2" 3'-4 1/2" 4'-1 1/2"

FIRE RATED ASSEMBLY AS PER R302.2—

SCALE: 3/16" = 1'-0"

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES OUNDATION PLAN NOTES **CPG DBA)24ा** 1:03:53 01 HOLD SILL PLATE BACK 4" ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CONTINUOUS CONCRETE FOOTING CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE. 21 RECESS TOP OF FOUNDATION WALL FOUNDATION NOTES: ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36". .32 2X6 STUD WALL WITH TREATED SILL SOIL BEARING CAPACITY SHALL BE 1500 PSF. COMPRESSIVE STRENGTH OF CONCRETE F'C COMPRESSIVE STRENGTH SHALL BE 2.34 PROVIDE ADDITIONAL BRACING FOR AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%. Typical LCE4Z ISLAND ABOVE. ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE 2.42 FIRE RATED SHEETROCK UNDER STAIRS DAMPPROOFED. DAMPPRROFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR .11 DIRECT FURNACE. FUEL BURNING NATERPROOFING SHALL BE A MINIMUM 6-MIL THICK MOISTURE BARRIER OVER APPLIANCES SHALL BE DIRECT VENTED POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS TO EXTERIOR FOR COMBUSTION AIR. SHALL BE A MINIMUM 6". FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406. 21 HOT WATER HEATER WITH THERMAL FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405. EXPANSION CONTROL DEVICE BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION 120 SE 30TH ST. .31 SUMP PIT AND PUMP. PROVIDE ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ELECTRICAL GFCI PROTECTION. PROVIDE LEE'S SUMMIT, MO 64082 ISOLATED FROM THE BASEMENT FLOOR SLAB. SLEEVE THROUGH FOOTING. ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 3' O.C. AND BE 816-246-6700 .41 HVAC CHASE ABOVE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7". 20" WIDE CONTINUOUS FOOTING W/ (2) #4 CONTINUOUS ALONG REAR WALL 5.61 200 AMP ELECTRICAL PANEL. LOCATION ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 TO BE DETERMINED ON SITE. ON LOAD BEARING WALLS. .62 UFER GROUND- VERIFY LOCATION WITH COPYRIGHT 2017 BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS PROJECT MANAGER. HIS DRAWING HAS BEEN PREPARED BY SUMM SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT 7.65 LINE OF FLOOR ABOVE HOMES. OR UNDER THEIR DIRECT SUPERVISION AS AN DAMAGE BY BACKFILL. INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWING IF BASEMENT SLAB ELEVATION IS ABOVE GRADE CONSULT ENGINEER. END CONDITION #1 24" SPECIFICATIONS. AND DESIGNS. INCLUDING T FULL HEIGHT 4 x 4 CEDAR POST WITH -OVERALL LAYOUT, FORM, AND COMPOSITION SIMPSON LCE4Z POST CAP AND ABU44 POST BASE, TYP SPACES ARE PROTECTED BY COPYRIGHT REGISTERS TO CPG. INC. ANY REPRODUCTION. USE. END CONDITION #1 24" END CONDITION #1 24" TRETURN PANEL END CONDITION #1 24" RETURN PANEL WITHOUT THE WRITTEN CONSENT FROM CPG. IN RETURN PANEL D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FO BIDDING AND CONSTRUCTION OF THIS PROJECT I END CONDITION #1 24" STRICTLY PROHIBITED. (2) #2-2 x 10 TRTD END CONDITION #1 24" DECK ABOVE DECK ABOVE DECK ABOVE ADDRESS: 7'-5 3/4" STEEL BEAM FLANGE WIDTH: A: 2108 SW HOLDBROOKS DR W8 x 10- 3.94" **B: 2106 SW HOLDBROOKS DR** 5036 EGRESS SLIDER C: 2104 SW HOLDBROOKS DR BWL 1 (UNITS 1,2,3,4) D: 2102 SW HOLDBROOKS DR END CONDITION #1 24"--END CONDITION #1 24 (2) #2 2X10 ASSEMBLY AS PER (2)2 x6 — (2) #2 2X10 (2) #2 2X10 (2)2 x6— (2)2 x6 — ASSEMBLY AS PER ASSEMBLY AS PER **BEDROOM** R302.2 <u>#3</u> CARPET 8' C. CARPET 8' C. REC ROOM W8 x 13 STL. BM. CONTINUOUS AS REO'D BY GRADE BY GRADE SPACE SPACE @ #<u></u> 10'-0" -8" x 4'-0" CONC. WALL w/ #4 BARS AT 8" x 4'-0" CONC. WALL w/ #4 BARS 18" O.C. HORIZONTAL AND 18" O.C. REF. SHEET S3.0 FOR FTG. WITH (2) #4 BARS CONT. O.C. VERTICAL PER S2.0 ON 16" x REF. SHEET S3.0 FOR STRUCTURAL GARAGE SLAB 8" CONC. FTG. w/ (2) #4 BARS STRUCTURAL GARAGE SLAB DETAILS REF. SHEET S3.0 FOR STRUCTURAL GARAGE SLAB DETAILS STRUCTURAL GARAGE SLAB DETAILS 6" CONC SLAB WITH #4 BARS N WITH #4 BARS AT 12" OC EW I\ AT 12" OC EW 1.11 UNEXCAVATED UNEXCAVATED UNEXCAVATED <u>UNEXCAVATED</u> ** REFER TO PLOT PLAN FOR FOUNDATION ELEVATION HEIGHTS ** ** REFER TO PLOT PLAN FOR FOUNDATION ELEVATION HEIGHTS ** ** REFER TO PLOT PLAN FOR FOUNDATION ELEVATION HEIGHTS ** ** REFER TO PLOT PLAN FOR FOUNDATION ELEVATION HEIGHTS ** 6" CONC SLAB WITH #4 -6" CONC SLAB WITH #4 PROFESSIONAL SEAL: BARS AT 12" OC EW -BARS AT 12" OC EW 8" x 4'-0" CONC. WALL w/ #4 BARS -20" WIDE CONTINUOUS FOOTING W/ (2) #4 20" WIDE CONTINUOUS FOOTING W/ (2) #4 20" WIDE CONTINUOUS FOOTING W/ (2) #4 AT 18" O.C. HORIZONTAL AND 18" CONTINUOUS ALONG FRONT GARAGE WALL CONTINUOUS ALONG FRONT GARAGE WALL O.C. VERTICAL PER S2.0 ON 16" x CONTINUOUS ALONG -8" x 4'-0" CONC. ₩ALL w/ #4 BARS 8" CONC. FTG. w/ (2) #4 BARS AT 18" O.C. HOR ZONTAL AND 18" O.C. VERTICAL PER S2.0 ON 16" x 8" CONC. FTG. w/ (2) #4 BARS 6" x 4'-0" CONC. 4' ON EITHER SIDE OF PARTY WALL AIR SPACE 6" x 4-0 CONG. WALL w/ #4 BARS AT 18" O.C. WALL w/ #4 BARS WALL W/ #4 DA AT 18" O.C. PE-2015016986 HORIZONTAL AND ATTIC/TRUSSES ANCHOR HORIZONTAL AND ANCHOR ANCHOR 18" O.C. VERTICAL PER PER S2.0 ON 16" X ANCHORANCHOR -10" x 4'-0" CONC. WALL w/ #4 BARS ANCHOR 18" O.C. VERTICAL PER PER PER AT 18" O.C. HORIZONTAL AND 18" PER PER S2.0 ON 16" x
METHOD 8" CONC. FTG. w/ METHOD PER S2.0 ON 16" X METHOD METHODMETHOD O.C. VERTICAL PER S2.0 ON 36" x METHOD 8" CONC. FTG. w/ 10" CONC. FTG. w/ (4) #4 BARS PFH (2) #4 BARS CONT. (2) #4 BARS CONT. CONT. AND #4 BAR @ 11" OC TRANSVERSE REINFORCEMEN EVERSTEAD IS RESPONSIBLE FOR ISOLATED FOOTINGS AND COLUMN PADS 16'-4" 16'-4" 16'-4" 16'-4" STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS PIER PAD DEPTH REINFORCEMENT GRADE COLUMN, MIN FY = 35 KSI WERE PRODUCED BY OTHERS. 26'-0" **EVERSTEAD** A 30"×30" 1'-0 (5) #4 BAR E.W. 3" DIAMETER 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901 B\ 36"×36" | 1'-0" (6) #4 BAR E.W. 3" DIAMETER 3" DIAMETER <u>/C\</u> 42"×42" | 1′−2" (7) #4 BAR E.W. DOUBLE TOP PLATE 3" DIAMETER MAIN LEVEL (8) #4 BAR E.W. (9) #4 BAR E.W. 3.5" DIAMETER /E\|54"×54"|1'-4" DRAWN BY: C.HOOPER (10) #4 BAR E.W. 3.5" DIAMETER /F\|60″×60″|1′-6″| RIM JOIST NO COLUMN NEEDED ANY SIZE FOOTING WITH AN (*) ISOLATED FOOTINGS AND COLUMN PADS **ISSUE DATE:** SYM | PIER | DEPTH | MINIMUM REINFORCEMENT GRADE 40 5" GYP 1" AIR GAP- TYP. 09.07.21 (4) VERTICAL #4 **GENERAL NOTES** 12" SILL PLATE STRUCTURAL SLAB DIMENSIONAL LUMBER IS LABELED 16" (4) VERTICAL #4 SHEET NUMBER: PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER 18" (4) VERTICAL #4 SIZING IS EXPECTED TO VARY PER VENDOR. 24" (4) VERTICAL #4 WINDOW SIZES ARE WRITTEN IN 28" FEET AND INCHES PER INDUSTRY (4) VERTICAL #4 STANDARDS. EX: 3050 SH = 3'-0" X COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED SCALE: N.T.S. X 6'-6" FIXED. DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

DEVELOPMENT SERVICES LL CONSTRUCTION SHALL CONFORM TO 2018 NTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE. HANDRAILS ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING 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 10" (IRC 2018 R311.7.5.1) SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE TO DWELLING SEPARATION DOORS. TEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE ENERGY REQUIREMENTS SHALL CONFORM TO THE 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 N 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 12'-0" 12'-0" 12'-0" 12'-0" FLOOR PLANS: LEDGERS(FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507. 12'-0" X 6'-0" 12'-0" X 6'-0" 12'-0" X 6'-0" 12'-0" X 6'-0" 9'-0 1/8" DECK ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK 6'-0" DECK 4'-2 7/8" 3'-4 1/2" 4'-2 7/8" A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING 3016 FIX 3016 FIX @9' H @9' H 3016 FIX @9' H 3016 FIX @9' H WALL IS REQUIRED. @**9**' H @**9**' H @**9**' H ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS UNLESS OTHERWISE NOTED). 3050 SH @7' H 3050 SH @7' H 3050 SH 3050 SH 🚣 50 x 68 3050 SH 3050 SH 50 x 68 3050 SH 3050 SH 50 x 68 ⊾ 3050 SH BWL 1 (UNITS A,B,C,D) @**†**' H @7' H @**7**' F @**†**' H @**7**' H @**†**' H 🚃 (2) #2 2X12 CONT V2) #2 2X12 CONT (2) #2 2X12 CONT. (2) #2 2X12 CONT CORNER-TO-CORNER 2.51 CORNER-TO-CORNER 2.51 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). CORNER-TO-CORNER CORNER-TO-CORNER CORNER-TO-CORNER —(2)#2 2 x 4 CORNER-TO-CORNER CORNER-TO-CORNEF CORNER-TO-CORNER **└**(2)#2 2 x 4 **-**EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS: <u>DINING</u> <u>DINING</u> <u>DINING</u> **DINING** <u>GREAT</u> **GREAT** 3" THICK OSB FOR METHODS: WSP, CS-WSP AND PFH ROOM ROOM ROOM ROOM $\frac{7}{6}$ " THICK OSB FOR METHOD CS-PF. ROOM ROOM ROOM <u>ROOM</u> SPECIFIED THICKNESS OF OSB SHALL BE INSTALLED 12' C. JNDERNEATH LP LAP SIDING AND/OR ENGINEERED BRACED WALL PANELS. P PANEL SIDING - 7/16" GROOVED SHALL BE EXTERIOR WALL -EQUIVALENT TO $\frac{3}{8}$ " THICK OSB. OSB MAY BE OMITTED SHEATHING PER JNDERNEATH 7/16" GROOVED PANEL SIDING IN PLAN AREAS REQUIRING $\frac{3}{8}$ " THICK OSB. INSTALL FASTENERS AND NAILING PATTERN PER 2018 RC SECTION R602.10. MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER **PANTRY** HALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER. <u>KITCHEN</u> ROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE ND/OR FOUNDATION BELOW 12' C. 10'-1" 10'-1" 12' C. LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB (2)#2 2 x 4 GLU-LAMS SHALL BE: DF 24F-V4 - WESTERN PROVIDE FULL BEARING FOR OPTION SELECTED BWL 2 (UNITS A,B,C,D) (2) #2-2 🔭 10 🖊 STEEL BEAM FLANGE WIDTH: W10X15 - 4" (3) 2 x 4 — (3) 2 x 4 --(3) 2 x 4 1.22 W10X22 STEEL BEAM W10 X22 STEEL BEAM W10X22 STEEL BEAM W10X22 STEEL BEAM PORCH PORCH MACH CARAGE THE STATE OF THE S CHARAGE TO ** REFER TO PLOT PLAN FOR * REFER TO PLOT PLAN FOR ** REFER TO PLOT PLAN FOR * REFER TO PLOT PLAN FOR FOUNDATION ELEVATION HEIGHTS ** FOUNDATION ELEVATION FEIGHTS=** } FOUNDATION ELEVATION HEIGHTS * ;FOUNDATION ELEWATION HEIGHTS |** | /2"X 9-1/4" GLU-LAM 1/2"X 9-1/4" �LU-/2"X 9-1/4" GLU-LAN 2)1-3/4" X 9-1/4" LVL <u>9</u> (2)1-3/4" X 9-1/4" LVL FULL HEIGHT 6 x CEDAR POST ON--FULL HEIGHT 6 x 6 CEDAR POST ON SIMPSON ABU66 POST BASE, TYP (2) 2 x 4— **-**(2) 2 x 4 BWL 3 (UNITS A,B,C,D) 3.0 X 24" LVL
CONT CORNER-TO-CORNER 3.5" X 24" LVL 3.5" X 24" LVL 3.5" X 24" LVL 7.65 7.65 CONT CORNER-TO-CORNER CONT CORNER-TO-CORNER CONT CORNER-TO-CORNER 6'-0" 6'-0" 20'-0" 20'-0" 6'-0" 6'-0" BWL B (UNIT A) BWL A (UNIT B) BWL B (UNIT B) BWL B (UNIT C) BWL A (UNIT A) BWL A (UNIT C) BWL A (UNIT D) BWL B (UNIT D) TOWNHOUSE WIND BRACING IS STRUCTURALLY INDEPENDENT PER UNIT PER 2018 IRC R302.2.6 BRACING METHODS EXTERIOR BRACING CS-PF PER IRC R602.10
CS-PF ABOVE: WOOD STRUCTURAL PANEL SHEATHING CONTINUOU
D JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATH
MUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/R INTERIOR BRACING GB PER IRC R602.10 MINIMUM GB LENGTH PER 2018 IRC TABLE R602.10.5: EXTERIOR BRACING CS-WSP PER IRC R602.10 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL кожожожожож PANELS PER IRC R602.10.5.2) INTERIOR BRACING LIB PER IRC R602.10 IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL) MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5: CLIMATE ZONE FENESTRATION U-FACTOR SKYLIGHT U-FACTOR SHGC ** GLAZED FENESTRATION SHGC ** GLAZED FENESTRATION SHGC ** CEILING R-VALUE R 55" - 8' TALL WALL HEIGHT 62" - 9' TALL WALL HEIGHT

.40 49 20 DR 13+5 8/13 19 10/13 10, 2 FT

RELEASE FOR CONSTRUCTION

69" - 10' TALL WALL HEIGHT

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

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

MAIN FLOOR PLAN NOTES

- 1.22 EXPOSED TOP OF FOUNDATION WALL. 2.12 2X6 STUD WALL
- 2.41 CURB STAIR SYSTEM WITH OPEN
- 2.51 3 STUDS BETWEEN WINDOW UNITS
- 3.42 6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP.
- 5.05 HOSE BIBB
- 6.42 HVAC FLOOR OPENING. HEADER OFF FLOOR JOISTS AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC
- 6.51 1'-10"X3'-0" MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC
- 7.65 LINE OF FLOOR ABOVE 7.71 20 MINUTE FIRE RATED SOLID CORE WIT SELF-CLOSING HINGES
- 24" CABINET + 12" OVERHANG FLAT ISLAND. VERIFY LOCATION WITH PERSONAL BUILDER.

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EMERALI OSAGE #1

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> DRAWN BY: C.HOOPER

ISSUE DATE:

09.07.21

GENERAL NOTES

SCALE: 3/16" = 1'-0"

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

SHEET NUMBER:

BRACING METHODS

INTERIOR BRACING LIB PER IRC R602.10

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

55" - 8' TALL WALL HEIGHT

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

MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5:

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

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 ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN. A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED. 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: 3" THICK OSB FOR METHODS: WSP, CS-WSP AND PFH 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. 6'-11 1/2" 6'-11 1/2" GIRDER TRUSS BEARING:
MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR
LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH
BEARING POINT OF EACH GIRDER TRUSS, UNLESS
OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN
TO FOUNDATION OR LOAD SUPPORTING MEMBER. FIRE RATED FIRE RATED FIRE RATED ASSEMBLY AS PER ASSEMBLY AS PER ASSEMBLY AS PER PLANT LEDGE PLANT LEDGE LEDGE LEDGE PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW. -OPEN TO PLANT LEDGE OPEN TO PLANT LEDGE OPEN TO PLANT LEDGE-LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB TO SIDE WALL GLU-LAMS SHALL BE: DF 24F-V4 - WESTERN PROVIDE FULL BEARING FOR OPTION SELECTED 2.12 BWL 1 (UNITS A,B,C,D) 6.51 | 8 32" X 60" TUB 6.51 EXTERIOR WALL -SHEATHING PER PLAN BEDROOM **BEDROOM** #<u>2</u> CARPET |8' C. CARPET 8' C. (2) #2-2 x 10 (2) #2-2 x 10 <u>BEDROOM</u> <u>BEDROOM</u> **BEDROOM** <u>BEDROOM</u> CLOSE T CARPET VAULT TO 9'C VAULT TO 9'C VAULT TO 9'C VAULT TO 9'C BWL 2 (UNITS A,B,C,D) (2) #2-2 x 10 CONTINUOUS @ 7'H. @ 7'H. (2) #2-2 x 10 CONTINUOUS END CONDITION #2 800#— END CONDITION #2 800# MIN TENSION STRAP (2) #2-2 x 10 CONTINUOUS -END CONDITION #2 800# MIN TENSION STRAP -END CONDITION #2 800# (3) 3050 SH EGRESS LEND CONDITION #1 24" END CONDITION #1 24"— MIN TENSION STRAP RETURN PANEL RETURN PANEL 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1/2" | 3'-4 1 4'-1 1/2" 3'-4 1/2" 3'-4 1/2" 4'-1 1/2" 2'-3 1/2" 2'-8 1/2" 3'-0" END CONDITION #1 24"

RETURN PANEL

15'-0" RETURN PANEL 26'-0" 26'-0" 26'-0" BWL B (UNIT A) BWL B (UNIT D) BWL B (UNIT B) BWL B (UNIT C) **∑**BWL A (UNIT D) BWL A (UNIT B) BWL A (UNIT C) BWL A (UNIT A) " EXT. GYP BY **FRAMER** INSULATION BY FRAMER TOWNHOUSE WIND BRACING IS STRUCTURALLY ⁻ 2X4 FUR WALL INDEPENDENT PER UNIT PER 2018 IRC R302.2.6 ///// EXTERIOR BRACING CS-WSP PER IRC R602.10 MAIN FLOOR TO FOUNDATION WALL - STHD14 EMBEDDED HOLDOWN INSTALLED PER MANUFACTURER'S SPECS EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2)

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

R-VALUE

CEILING R-VALUE R-VALUE

49 | 20 DR 13+5 | 8/13 | 19 | 10/13 | 10,2 FT | 10/13

CLIMATE FENESTRATION SKYLIGHT GLAZED FENESTRATION U-FACTOR U-FACTOR SHGC 5.0

.32 .55 .40

IPPER FLOOR PLAN NOTES

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED

ENGINEER SPECIFICATIONS WHERE APPLICABLE.

FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

DETAILS AND NOTES:

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS

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

2.12 2X6 STUD WALL

11 DOUBLE 2X4 STUD WALL

2.13 PONY WALL

33 INSTALL FULL WALL HEIGHT THERMOPLY INSULATION BEFORE FRAMING

SECONDARY 2X4 WALL FOR PLUMBING 51 3 STUDS BETWEEN WINDOW UNITS

.42 HVAC - BUMP TRUSSES AS NECESSARY FOR HVAC ACCESS 1'-10"X3'-0" MINIMUM ATTIC ACCESS

WITH 3/4" BACKER BOARD AND 2

LATCHES. BUMP TRUSSES FOR ATTIC

7.66 LINE OF FLOOR BELOW 8.22 CONTINUOUS FLAT VANITY

ACCESS.

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> DRAWN BY: C.HOOPER

ISSUE DATE: 09.07.21

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SHEET NUMBER:

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

(BY OTHERS) DESIGNED FOR LIGHT ROOF COVERING TOP CHORD: LIVE LOAD/SNOW LOAD (PSF): 25

DEAD LOAD (PSF): BOTTOM CHORD: ` DEAD LOAD(PSF):

2) ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED. 3) CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS SHOWN AS NON-LOAD BEARING ON APPROVED PRINTS.
4) ROOF IS ENGINEERED TO COMPLY WITH IRC 802

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

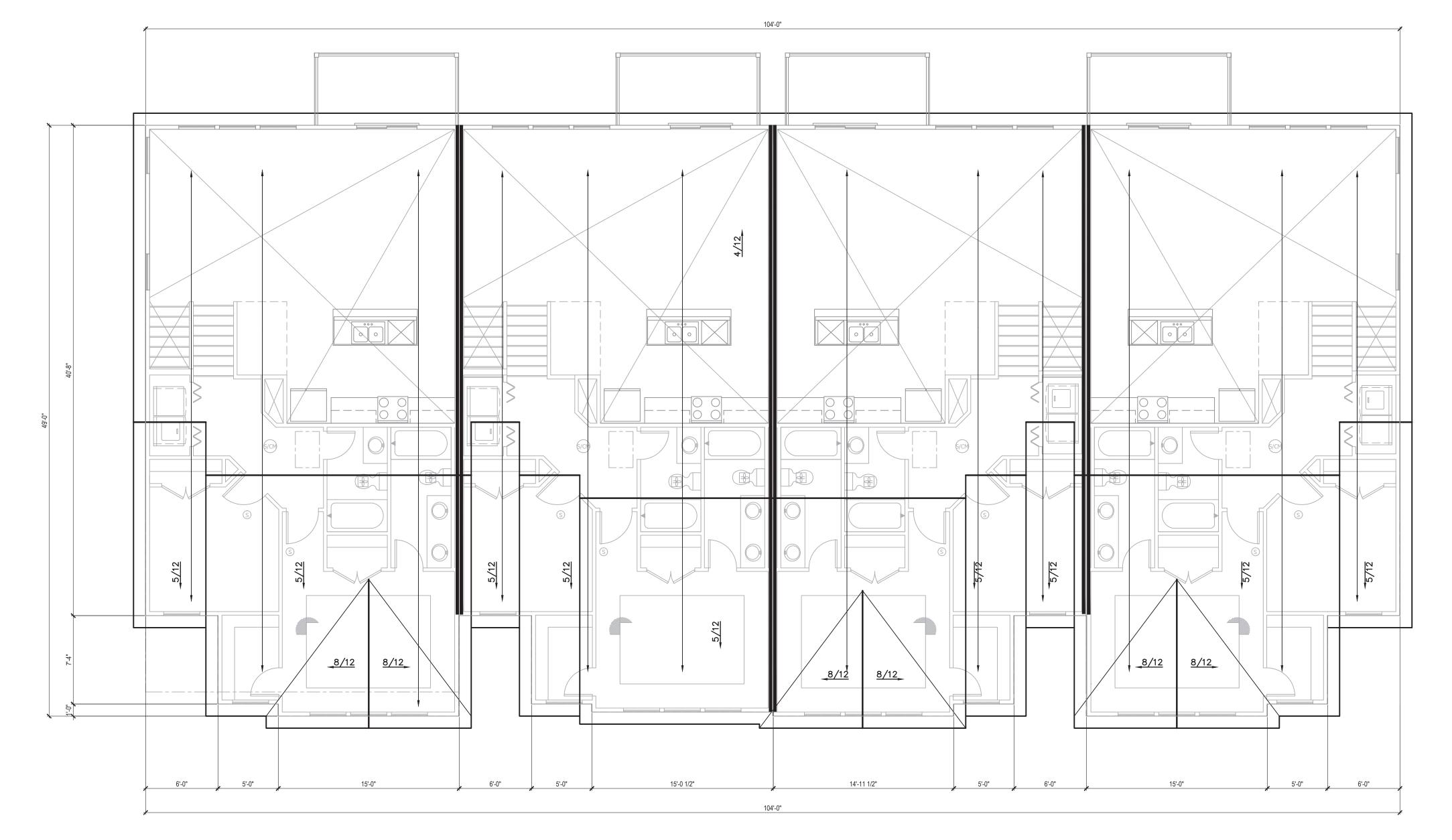
ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

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

GIRDER TRUSS BEARING:

MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SURPORTING MEMBER SUPPORTING MEMBER.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.



ROOF PLAN NOTES

1.11 MINIMUM ROOFING COMPOSITION— 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.

.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.



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SHEET NUMBER:

SCALE: 3/16" = 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

IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

LOADING

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	15 PSF DEAD LOAD)

LIVE		
ROOF LIVE LOAD FLOOR LIVE LOAD	15 PSF 40 PSF	(HADITADI E)
GARAGE	50 PSF	(HABITABLE)
STORAGE	20 PSF	(UN-INHABITABLE)
GUARDRAIL CONTINUOUS LINEAR	50 PLD	
MAXIMUM POINTLOAD	200 LBS	
SNOW		
GROUND SNOW LOAD	20 PSF	
WIND		
ULTIMATE DESIGN WIND SPEED VELOCITY	115 MPH	

SOIL AND SITE ASSUMPTIONS:

EXPOSURE CATEGORY

- 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</u> ALL FOUNDATIONS.
- 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
- 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
- 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
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE
- 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 - NOT EXPOSED TO WEATHER OR GROUND
- 6. CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER.
- 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

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

MINIMUM STANDARDS

CONCRETE SHALL BE 6% (± 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

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 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 = $12X\emptyset_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)

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
- 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.
- 2. 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.
- 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
- 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

	_	MAL WEIGHT SPLICE SCI		Ξ
BAR	TOP I	BARS	OTHER	RBARS
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

- 1. STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.
- STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION
- DRAWINGS:
- WIDE RIB CONFIGURATION
- 1.5" DEPTH

DRAWINGS:

- 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
- 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
- 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION

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

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

- 2" COMPOSITE DECK WITH 6" TOTAL SLAB 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:** ASTM A500 (Fy = 46 KSI) CHANNELS, PLATES AND ANGLES:
- ASTM A36 (Fy = 36 KSI) WIDE FLANGES: ASTM A992 (Fy = 50 KSI) ASTM A53 GR. B (Fy= 35 KSI) COLUMNS: **ANCHOR RODS** ASTM F1554 (Fy = 36 KSI)
- 3. BOLTS SHALL CONFORM TO ASTM A307
- WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL
- 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.

- 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).

- 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.
- 2. 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.
- 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.

- 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".
- 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
- 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.

ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.

- 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
- 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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SHEET#

	DESCRIPTION OF BUILDING		
TEM	ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
		ROOF	
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS 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	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	
	STUD TO STUD (NOT AT BRACED	16D COMMON (3-1/2" X 0.162")	24" O.C. FACE NAIL
8	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 16D COMMON (3-1/2" X 0.162")	12" O.C. FACE NAIL
	PANELS)	, ,	16" O.C. FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER WITH ½" SPACER)	16D COMMON (3-1/2"x0.162") 16D BOX (3-1/2" X 0.135)	16" O.C. ALONG EACH EDGE FACE NAIL 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 4 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE NAIL

		C TABLE R602.3(1) (SEE IRC FOR FOOTI	NOTES)	
		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	TOE 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	ΓΟΕ 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)	3-16D BOX (3-1/2" X 0.135"); OR 2-16D COMMON (3-1/2"x0.162")	AT EACH BEAR	RING, 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	
27	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	24" O.C. FACE NAIL AT STAGGERED ON OPPO FACE NAIL AT ENDS AN	SITE SIDES
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 NAIL
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)	INTERMEDIATE SUPPORTS (IN
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		
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 ⁷ / ₁₆ " OR 1" CROWN	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 UI	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		

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	

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	4/0	NAILS OR SCREWS PER TABLE R602.3(1) FOR EXTERIOR LOCATIONS	FOR ALL BRACED WALL PANEL LOCATIONS: 7"
BOARD	1/2	NAILS OR SCREWS PER	EDGES (INCLUDING TOP AND BOTTOM PLATES) 7" FIELD

MINIMUM

STUD

NOMINAL SIZE AND

GRADE

2x4 NO 2

GRADE

2x6 STUD GRADE

METHOD

PFG

CS-PF

CS-WSP

METHODS, MATERIAL

SUPPORTING

ROOF ONLY SUPPORTING ONE STORY

AND ROOF

ADJACENT CLEAR

OPENING

HEIGHT

(INCHES) LESS THAN OR EQUAL TO 64

THICKNESS

MAXIMUM PONY

0

FRAMING | WALL HEIGHT | TOTAL WALL

MAXIMUM

HEIGHT (FEET)

10

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

24

16

BRACING METHODS TABLE R602.10.4 (PARTIAL)

FASTENERS

WIDTH (FEET)	(POUNDS) FOR 90 MPH	_				
	EXPOSURE B		ENGINEERED	LUMBER MINI	IMUM DESIGN REQ	UIREMENTS
18	1,000			g (DO)	E (DOI)	F (DO)
9	1,000			fb (PSI)	E (PSI)	Fv (PSI
16	1,000		VERSA-LAM LVL	3100	2.0x106	285
18	1,000		VEIXO/Y E/ IIVI E V E	0.00	2.00100	200
9	1,200		DOUGLAS FIR-LARCH #2	900	1.6x106	180
16	1,000	l	TIN-LANOIT#2			
18	2,025					ı

CONTINUOUSLY SHEATHED
BRACED WALL LINE

STRAP

2,400

1,200 3,200 3,200 2,350 DR 1,000

2,050

2,450

1,500 3,150

3,675

10 FEET

16

24

30 20

SPACING

PLATES) 7" FIELD

TABLE R702.3.5

FOR INTERIOR LOCATIONS

MAXIMUM | CAPACITY

OPENING REQUIRED

9

9

16

18

16 18

MINIMUM LENGTH (INCHES)

WALL HEIGHT

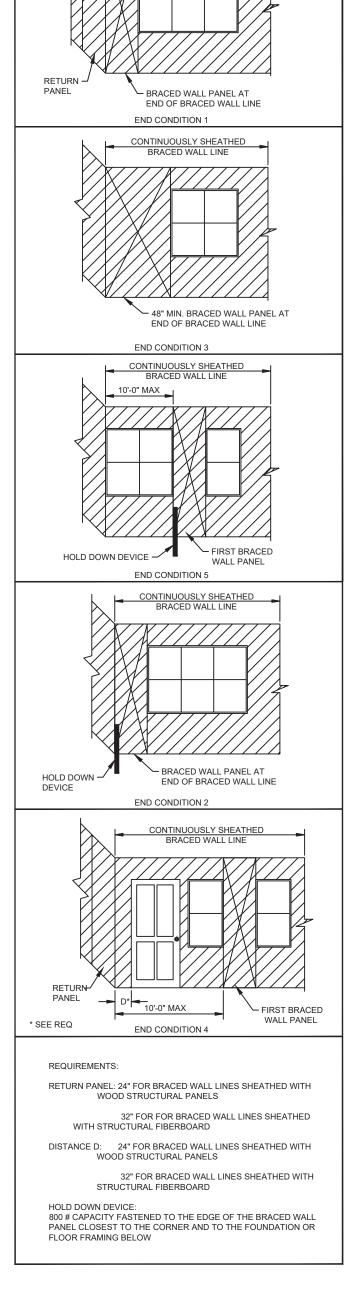
24

27

18

CONNECTION CRITEIA

8 FEET 9 FEET

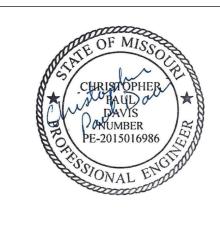


END CONDITIONS FOR BRACED WALL

S1.0 SHEATHING (IRC FIGURE R602.10.7)

LINES WITH CONTINUOUS





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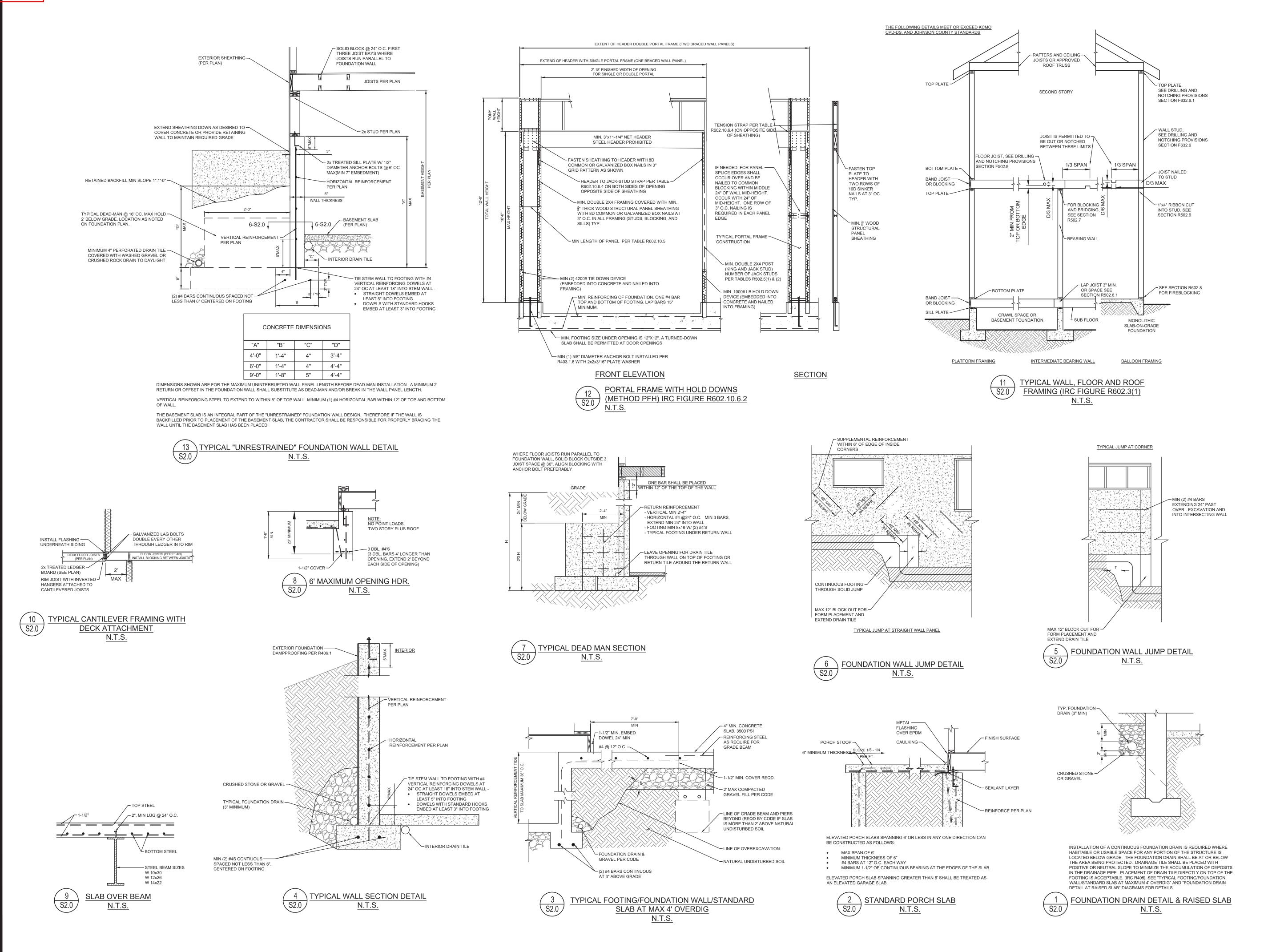
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SHEET#

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		

REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL) ULTIMATE DESIGN WIND SPEED, MINIMUM NAIL PANEL NAIL SPACING MINIMUM WOOD V ULT (MPH) MINIMUM MAX WALL STUD STRUCTURAL NOMINAL PANEL PANEL SPAN SPACING THICKNESS (IN) PENETRATION RATING **EDGES** SIZE (IN O.C.) (IN) (IN O.C.) 6d COMMON 1.5 24/0 3/8 16 12 140 16 12 170 8d COMMON 140





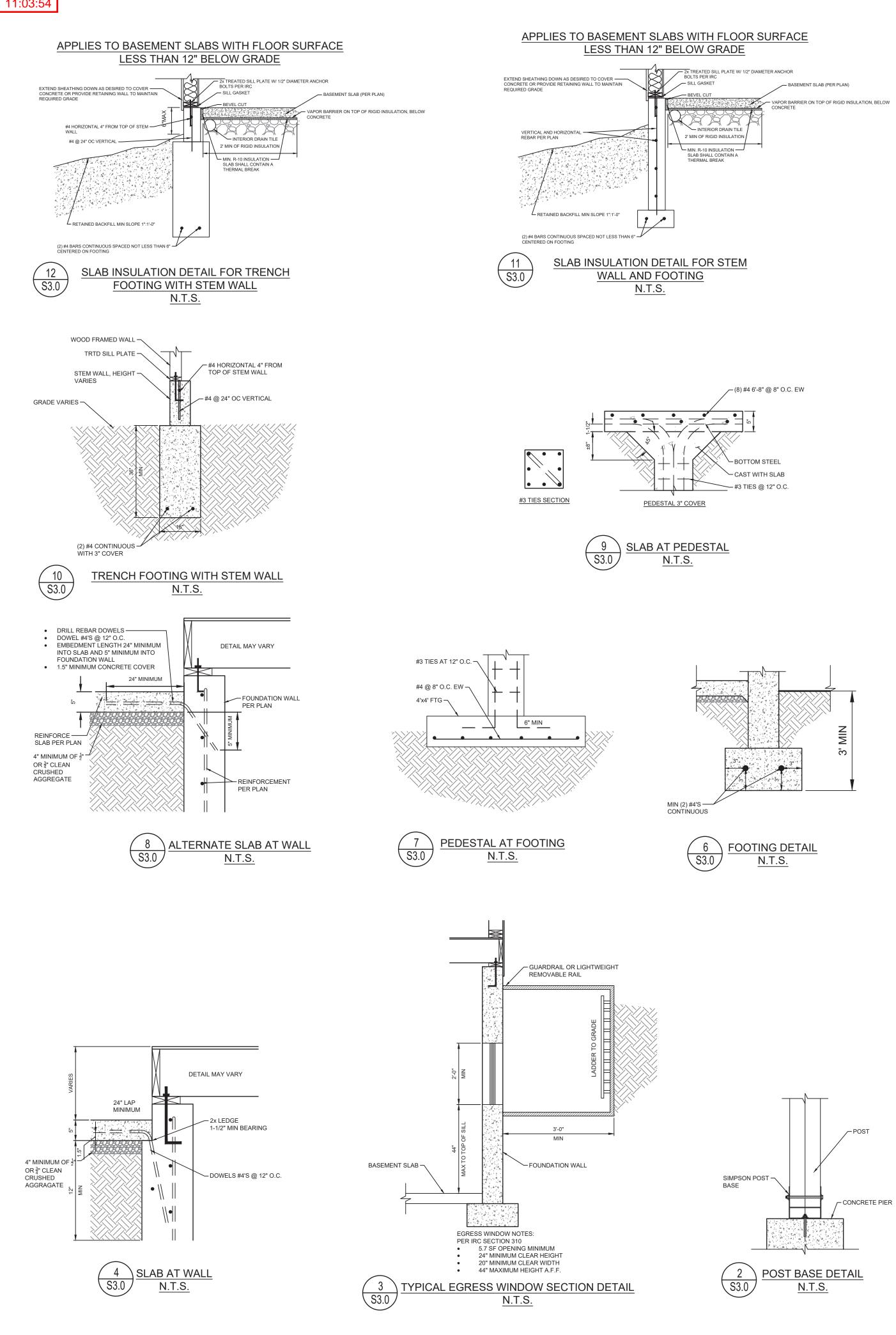
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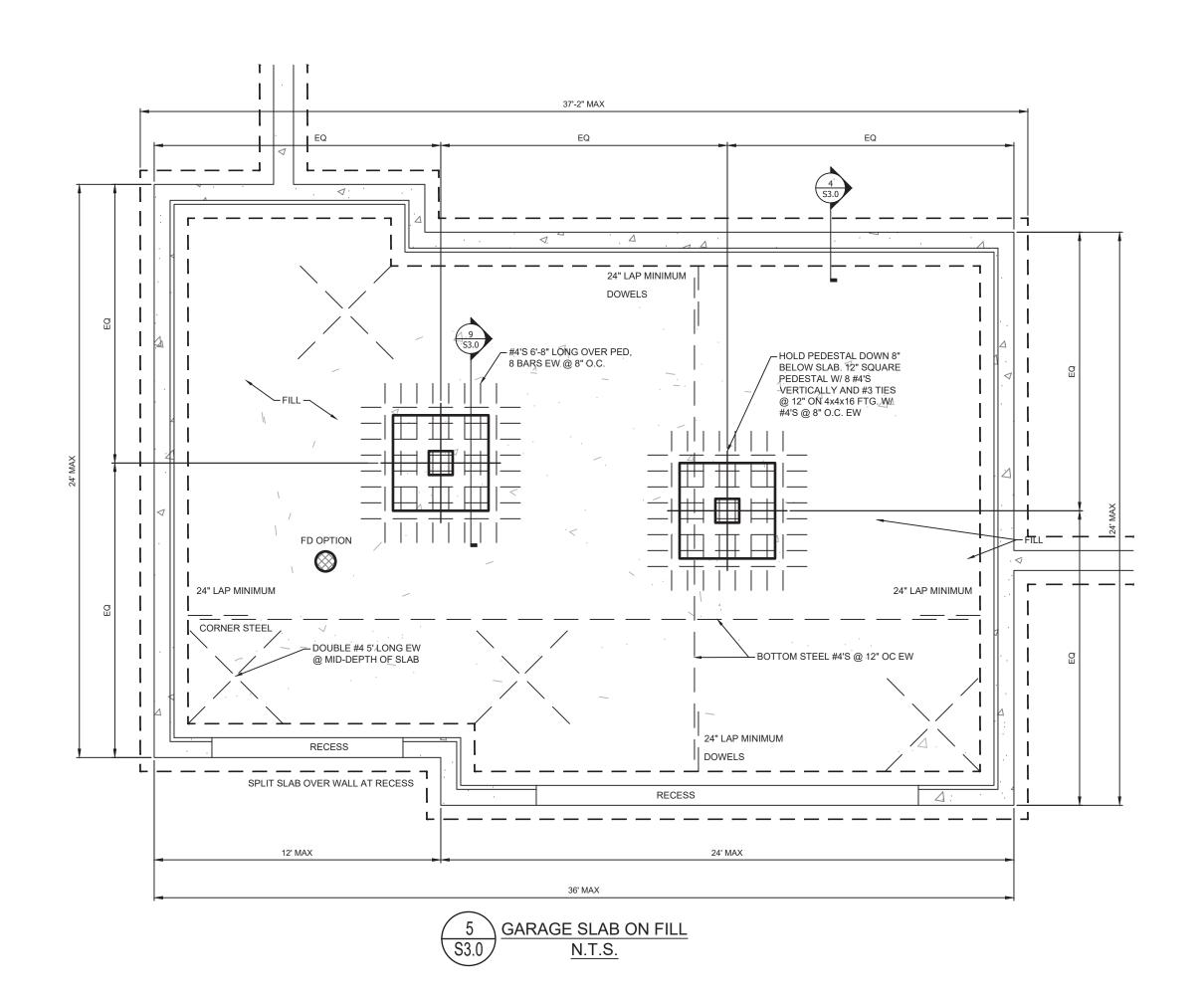


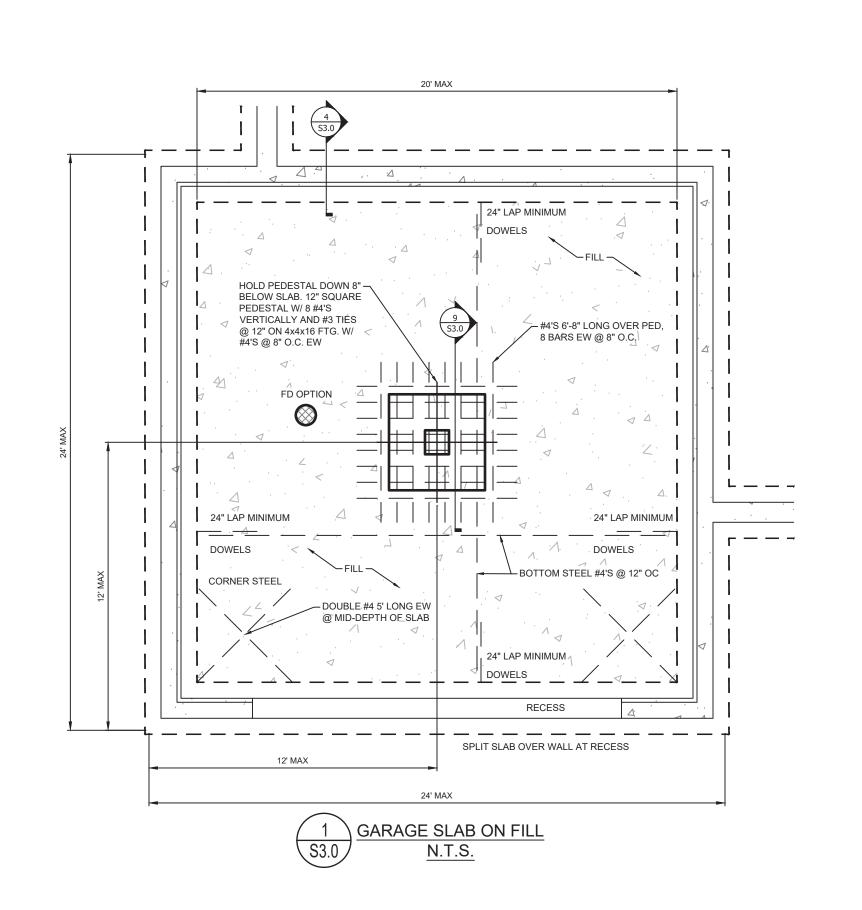
STRUCTURAL DETAILS

SHEET #

S2.0









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FOUNDATION DETAILS

SHEET #

S3.0

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.

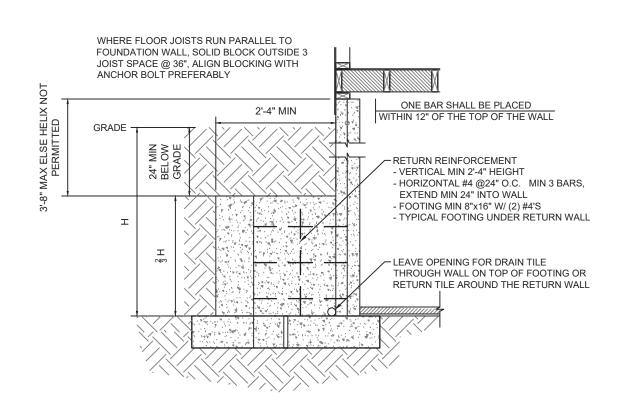
HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

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

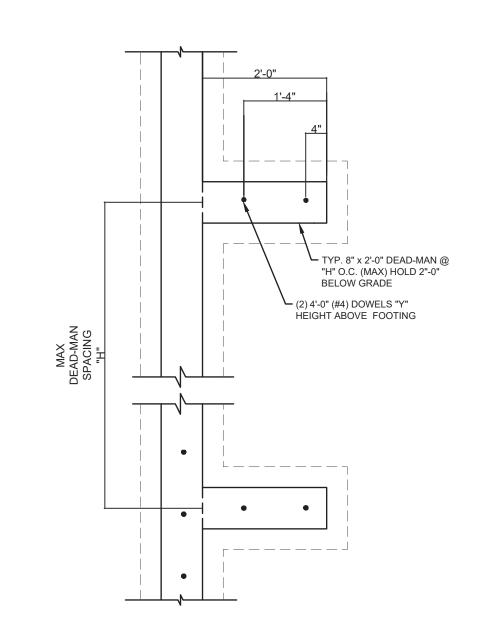
HELIX DOSING INSTRUCTIONS:

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.

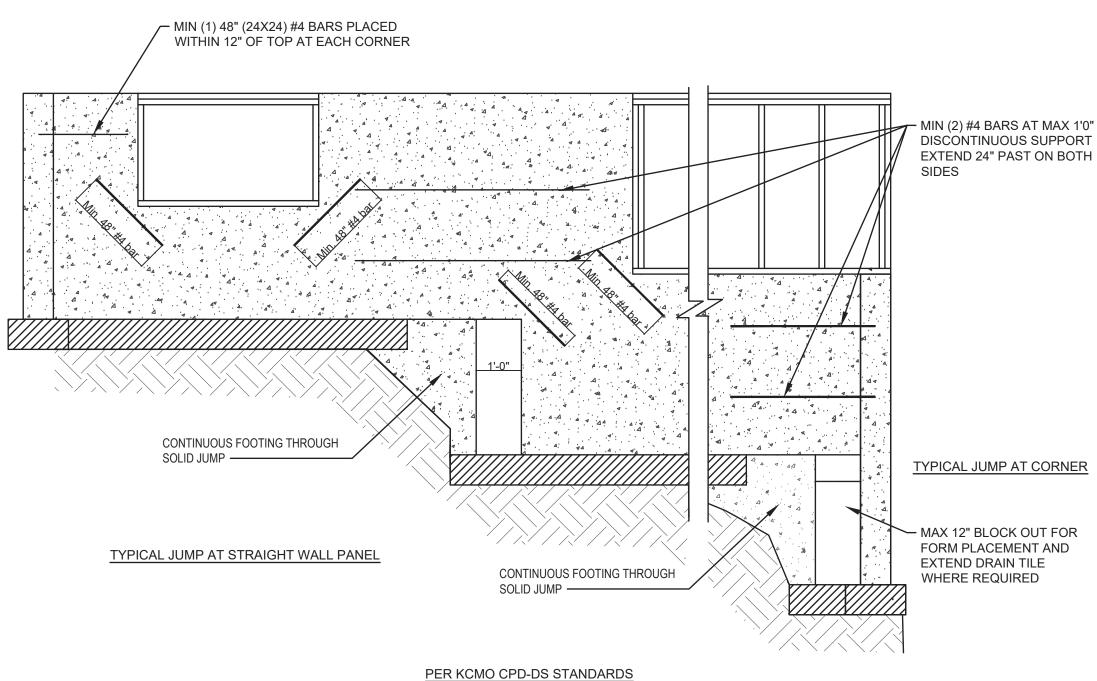
A SLUMP OF 125 MM OR 5" OR HIGHER WILL FACILITATE STRIKE OFF. A SLUMP OF LESS THAN 4" IS NOT RECOMMENDED AS THIS WILL PREVENT SURFACE SEGREGATION OF THE CEMENT AND FINES FROM THE AGGREGATE AND HELIX. SLUMP SHOULD BE MEASURED ON THE INITIAL LOAD AND ADJUSTMENTS MADE WITH A WATER REDUCER OR PLASTICIZER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



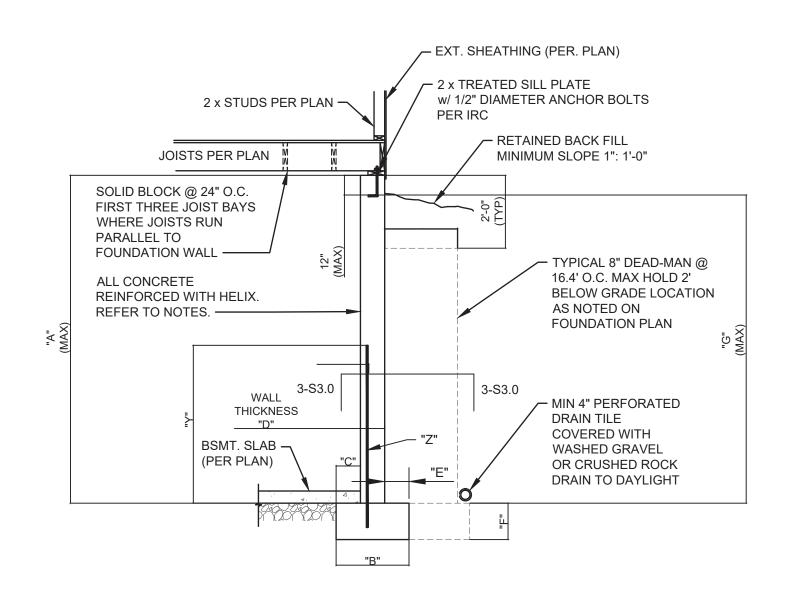




3 S3.1 TYPICAL DEAD MAN SECTION N.T.S.



S3.1 FOUNDATION WALL JUMP DETAIL N.T.S.



			CON	CRETE	DIMENS	SIONS	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.

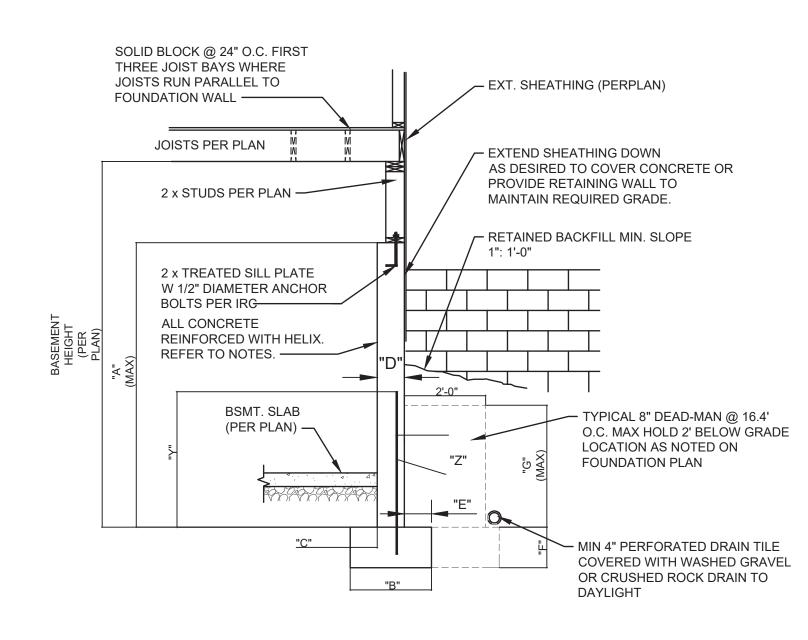
4 TYPICAL FOUNDATION WALL DETAIL N.T.S.

	HELIX DOSAGE												
Α	LL STRI	9 LB/CU FT											
	ISOLATED FOOTINGS AND COLUMN PADS												
SYM	PIER PAD SIZE	DEP	тн	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							
C	42"x42"	1'-2	2"	(7) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT							
<u></u>	48"x48"	1'-4	4"	(8) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT							
<u></u>	48"x48"	1'-4	4"	(8) #4 BAR E.W. N/A		12.5 LB/CU FT							
E	54"x54"	1'-4	4"	(9) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT							
F	60"x60"	1'-6	6"	(10) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT							
SYM	PIER DIAMETE	R C	DEPT	HI	MINIMUM REINFORCEMENT GRADE 60 KSI STEEL								
G	12"	3'-0"		(4) VERTICA	12.5 LB/CU FT								
H	16"		3'-0"	(4) VERTICA	12.5 LB/CU FT								
\triangle	18"		3'-0"	(4) VERTICA	12.5 LB/CU FT								
K	24"		3'-0"	(4) VERTICA	(4) VERTICAL #4								
L	28"		3'-0"	(4) VERTICA	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 DIM	MENSION	IS	HEIGHT ABOVE REINFORCINGBARS (GRADE 60)		HELIX DOSAGE.	
"A"	"B"	"C"	"D"	"E"	"F"	"G"	"Y"	"Z"	TILLIX DOGAGE.	
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

N.T.S



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HELIX DETAILS

SHEET#

S3.1