

2 Quality By Design

LOT 02 WOODSIDE RIDGE 214 NW AMBERSHAM DR. LEES SUMMIT, MO. 64081

BUILDER&CONTRACTOR IS RESPONSIBLE TO
CHECK ALL DIMENSIONS FOR ACCURACY
BETWEEN FLOORS, FOUNDATION, AND ELEVATIONS.
ALSO VERIFY ALL BEAM, HEADERS, PAD LOCATIONS,
AND COLUMN SIZES.

# FRONT ELEVATION 1/4" = 1'0"

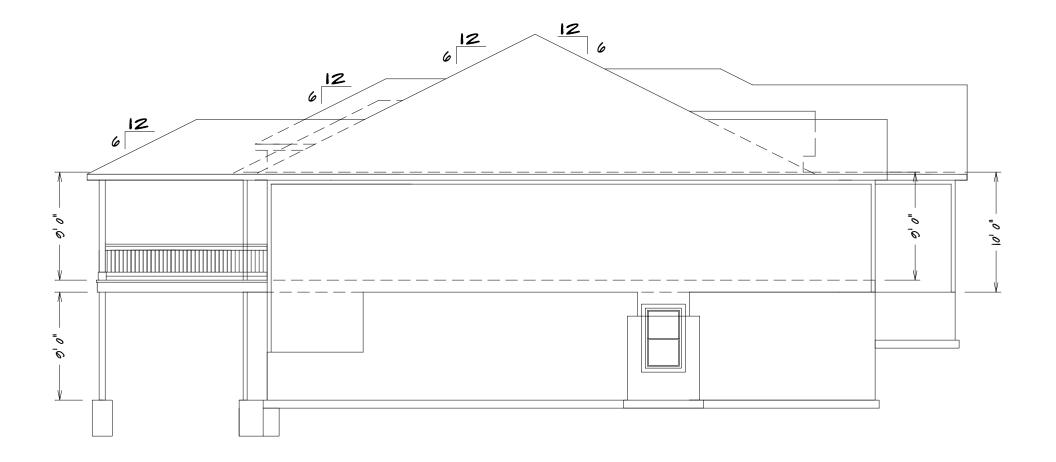
ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

## NOTE:

ACTUAL ELEVATIONS MAY VARY FROM ARCHITECTURAL DRAWINGS, DUE TO TERRAIN/BACKFILL PROCESS
FRONT ELEVATION IS ARCHITECTURAL DRAWING AND MAY VARY DUE TO MATERIALS AVAILABILITY

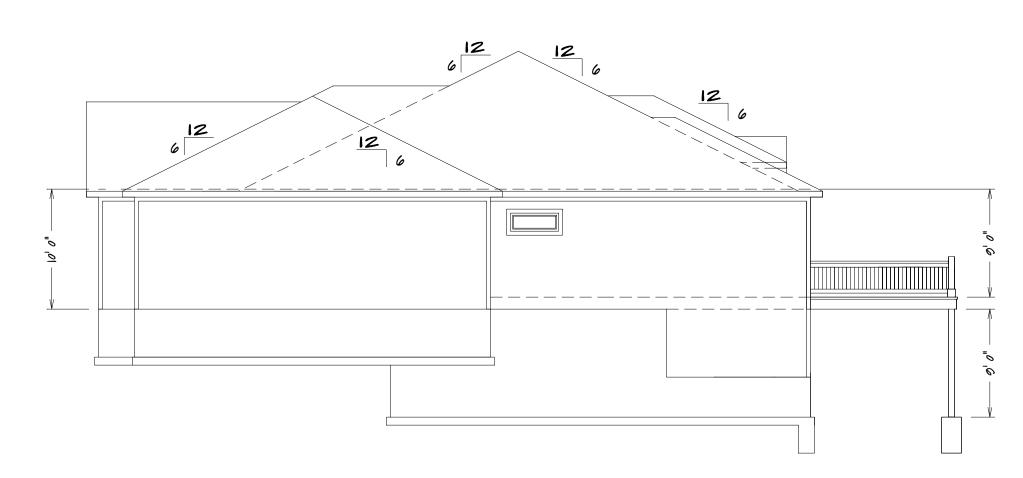


REAR ELEVATION



LEFT ELEVATION

1/8" = 1'0"



RIGHT ELEVATION

1/8" = 1'0"





SQUARE FOOTAGE

LIVING AREA

FIRST FLOOR = 1676

BASEMENT = 1208

COVERED PATIO = 163

UNFINISHED AREA

STORAGE BASEMENT = 274

GARAGE = 770

SEE ELEVATION FOR WALL HEIGHTS

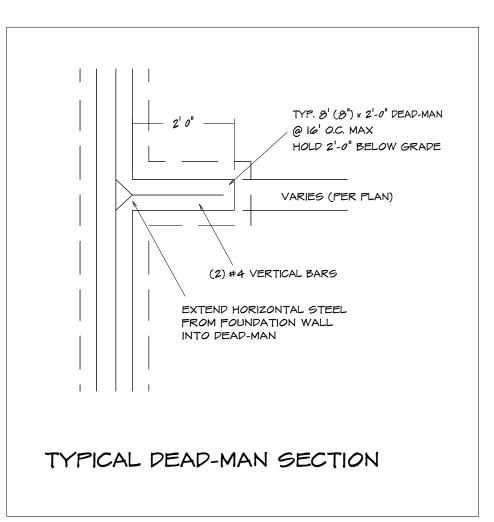
NOTE... ELECTRICAL SERVICE TO BE 200 AMP.

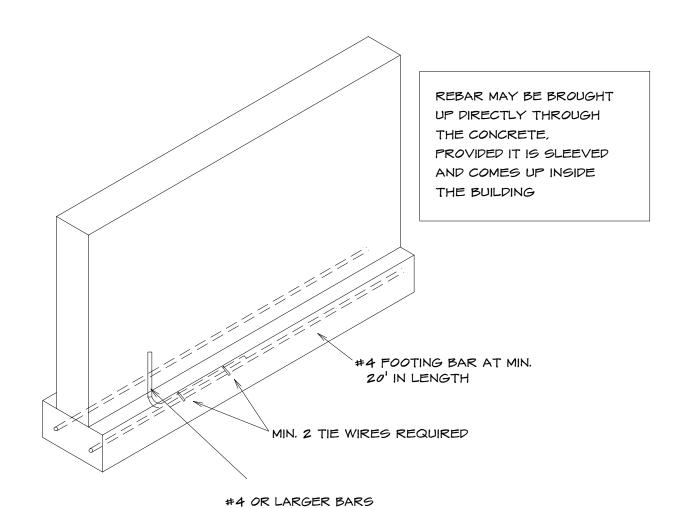
NOTE... DOUBLE JOIST UNDER

ALL PARALLEL WALLS

ABOVE UNLESS NOTED

S.D. = SMOKE DETECTOR





I. Section 250.52 of the National Electrical Code requires that the concrete encased reinforcing steel be included in the grounding electrode system... This means that you must have "an electrode encased by at least 50 mm (2 in.) of concrete, located horizontally near the bottom or vertically, and within that portion of a concrete foundation or footing that is in direct contact with the earth, consisting of at least 6.0 m (20 ft) of one or more bare or zinc galvanized or other electrically conductive coated steel reinforcing bars or rods of not less than 13 mm (1/2 in.) in diameter, or consisting of at least 6.0 m (20 ft) of bare copper conductor not smaller than 4 AWG.

2. Reinforcing bars shall be permitted to be bonded together by the usual steel tie wires or other effective means. Where multiple concrete-encased electrodes are present at a building or structure, it shall be permissible to bond only one into the grounding electrode system." Proper lap splices are required

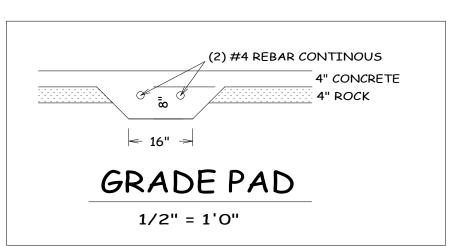
#### UFER GOUNDING SECTION

STEEL COLUMNS TO BE

3" DIAMETER SCHEDULE 40 PIPE MANUFACTURED
IN ACCORDANCE WITH ASTM AG3 GRADE B OR
APPROVED EQUIVALENT UNLESS NOTED

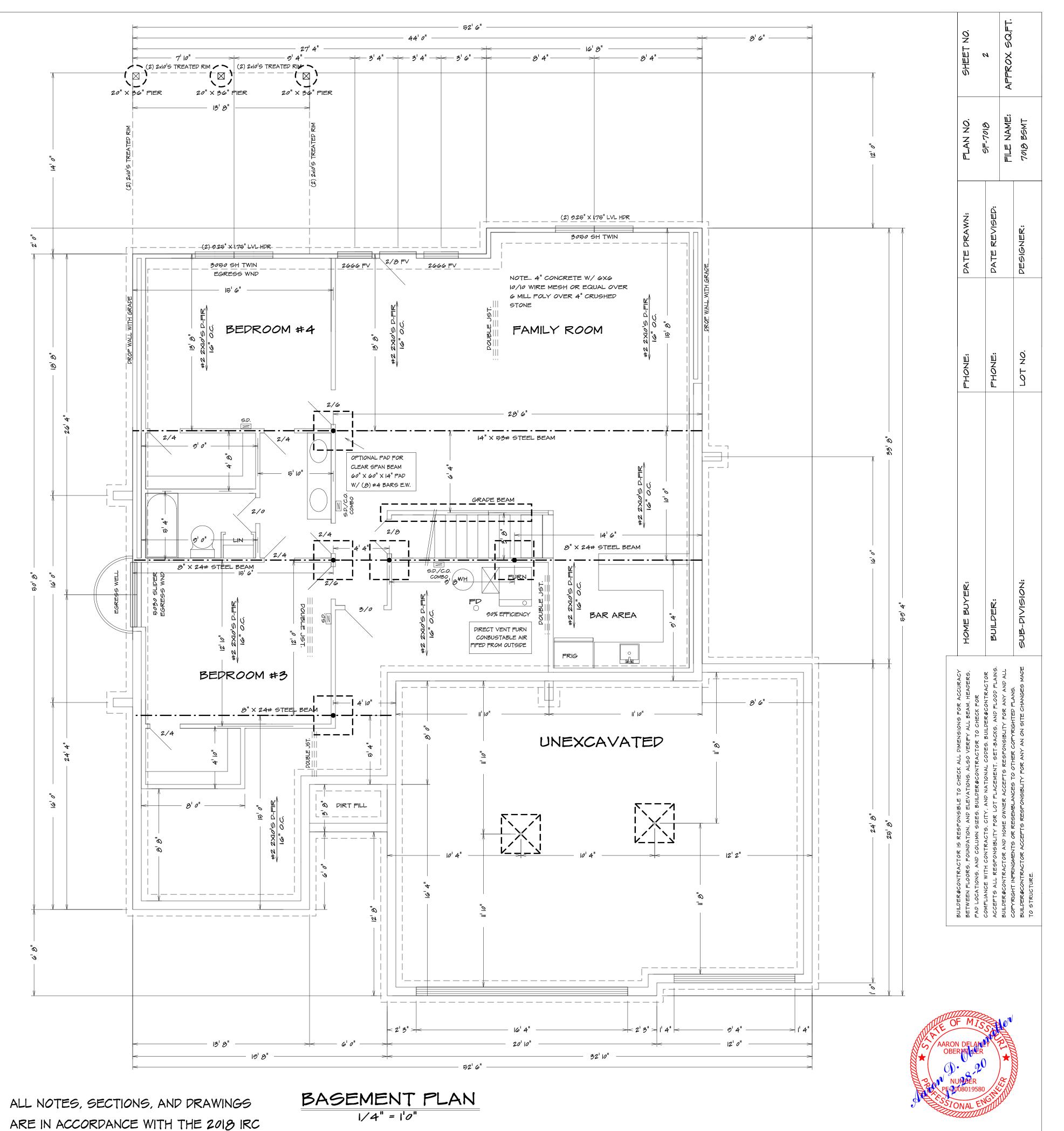
Note...Bridging. Joists exceeding a nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at intervals not exceeding 8 feet.

REQUIRED FO	OTING:		
BUILDING HEIGHT	MINIMUM FOOTING	HORIZONTAL REBAR	LOCATION OF REBAR
I OR 2 STY.	8"T × 16"W	2-#4	3" FROM BTM.
3 STORY	8"T × 24"W	2-#4	3" FROM BTM.
ACC. STR.	8"T × 12"W	2-#4	3" FROM BTM.
	•		



NOTE... 42" X 42" X IZ" CONCRETE PADS WITH (6) #4 REBARS EACH WAY (UNLESS NOTED)

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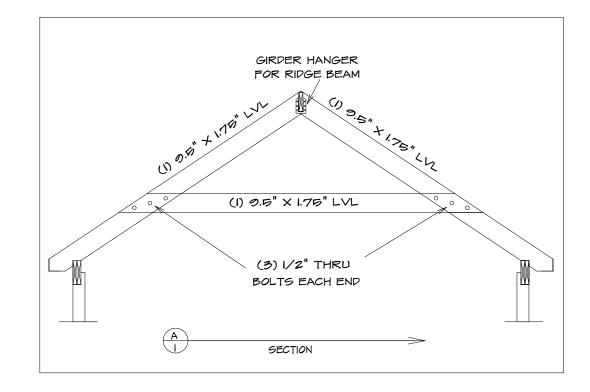
SEE ELEVATION FOR WALL HEIGHTS

NOTE ... ELECTRICAL SERVICE TO BE 200 AMP.

NOTE ... DOUBLE JOIST UNDER ALL PARALLEL WALLS

ABOVE UNLESS NOTED

S.D. SMOKE DETECTOR



GENERAL HEADER SPECIFICATIONS:			
REQUIRED AREAS NEEDING HEADERS:	HEADER DESCRIPTIONS:		
WINDOWS/DOORS UP TO 38" R.O.	(2) #2 D-FIR 2X10'S		
WINDOWS/DOORS 38" UP TO 72" R.O.	(2) #2 D-FIR 2X10'S W/1/2" GLUE PLY		
WINDOWS/DOORS 72" UP TO 96" R.O.	(2) 9 1/2" L.V.L.		
8'0" GARAGE DOORS W/CEILING & ROOF LOAD	(2) 9 1/2" L.V.L.		
9'0" GARAGE DOORS W/CEILING & ROOF LOAD	(2) 9 1/2" L.V.L.		
8'0" GARAGE DOORS W/SECOND FLOOR	(2) 9 1/2" L.V.L.		
9'0" GARAGE DOORS W/SECOND FLOOR	(2) 11 7/8" L.V.L.		
16'0" GARAGE DOOR W/NO SECOND FLOOR	(2) 11 7/8" L.V.L.		
16'0" GARAGE DOORS W/SECOND FLOOR	(2) 14" L.V.L.		

USE HEADERS FOR OPENINGS ABOVE UNLESS SPECIFIED OTHERWISE.

#### R312.2.1 Window sills.

In dwelling units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the fininshed floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4-inch-diameter (102 mm) sphere where such openings are located within 24 inches (610 mm) of the finished floor.

#### Exceptions:

- 1. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.
- 2. Openings that are provided with window fall prevention devices that
- 3. Windows that are provided with window opening control devices that comply with Section R312.2.2.

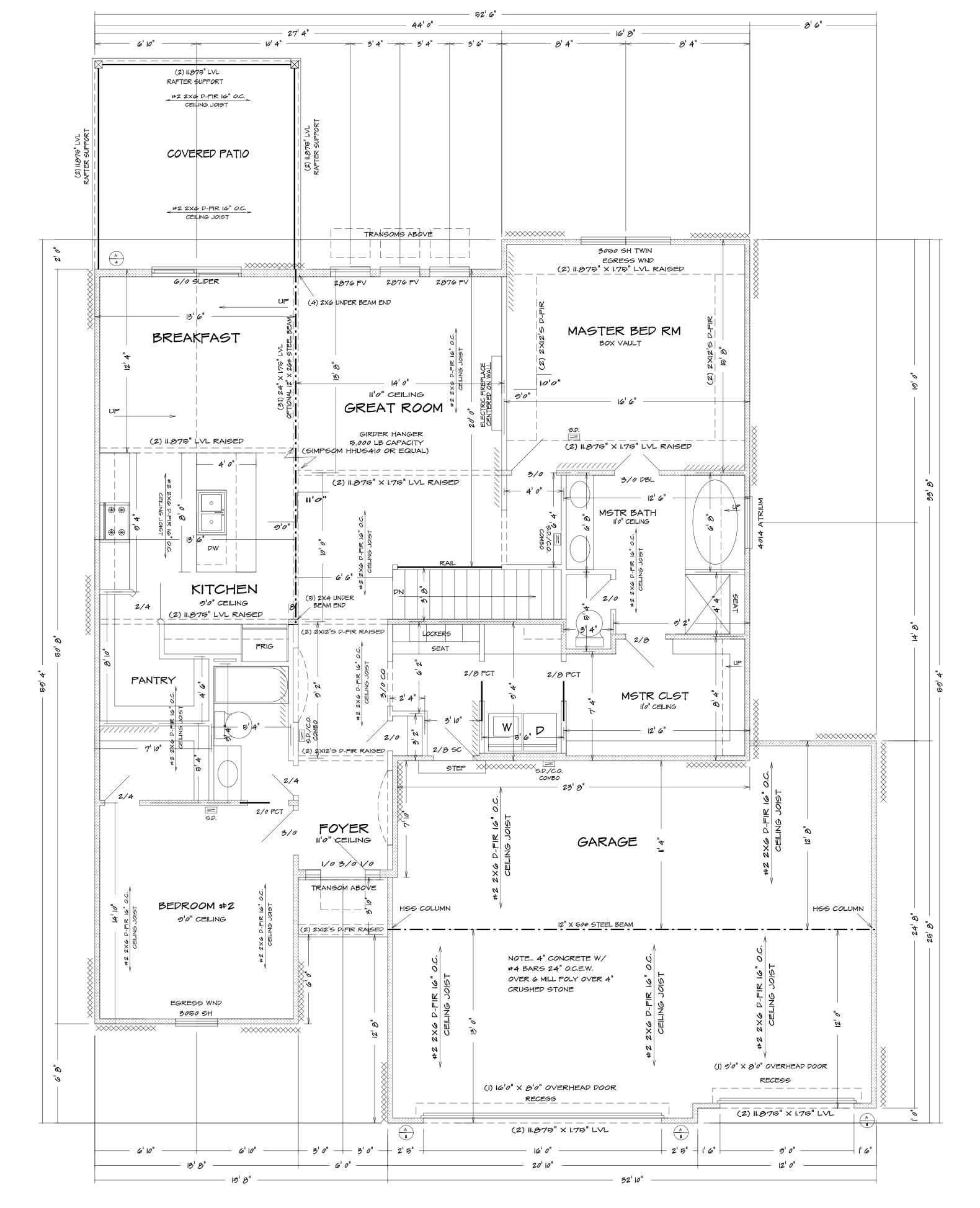
R312.2.2 Window opening control devices.

Window opening control devices shall comply with ASTM F 2000. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by Section R310.1.1.

Bathrooms, water closet compartments and other similar rooms shall be provided with aggregate glazing area in windows of not less than 3 square feet, one-half of which must be openable.

Exception: The glazed areas shall not be required where artificial light and a local exhaust system are provided. The minimum local exhaust rates shall be determined in accordance with Section MI507. Exhaust air from the space shall be exhausted directly to the outdoors.

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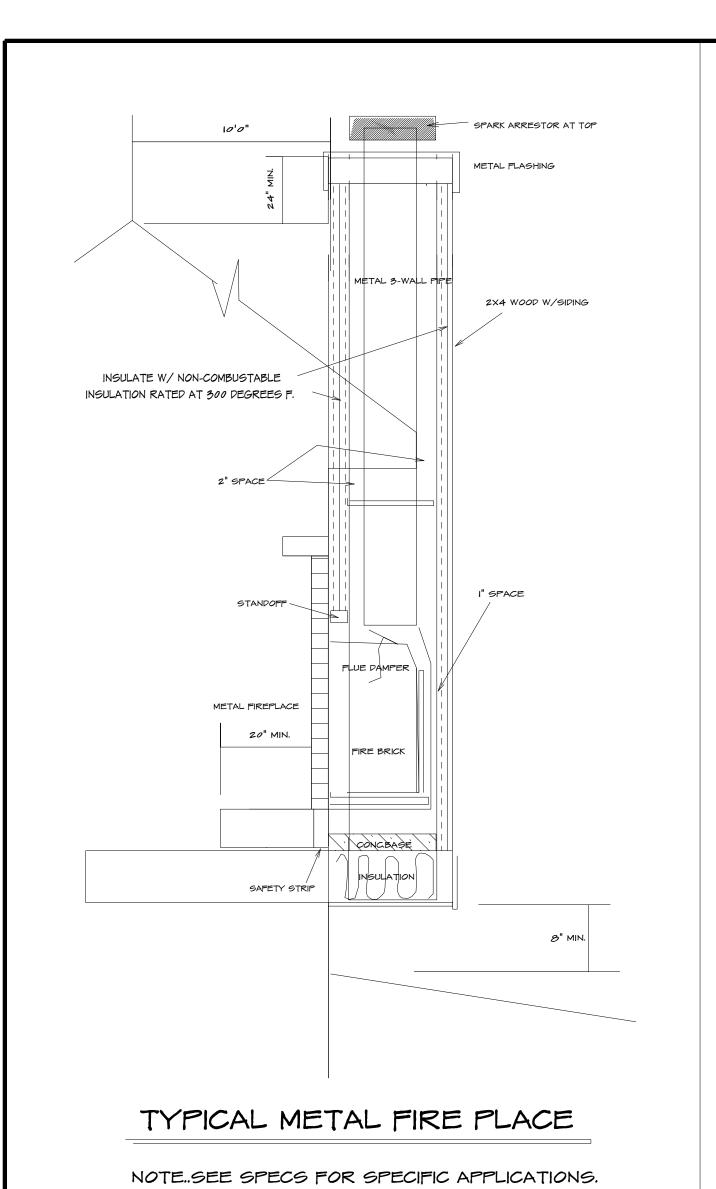


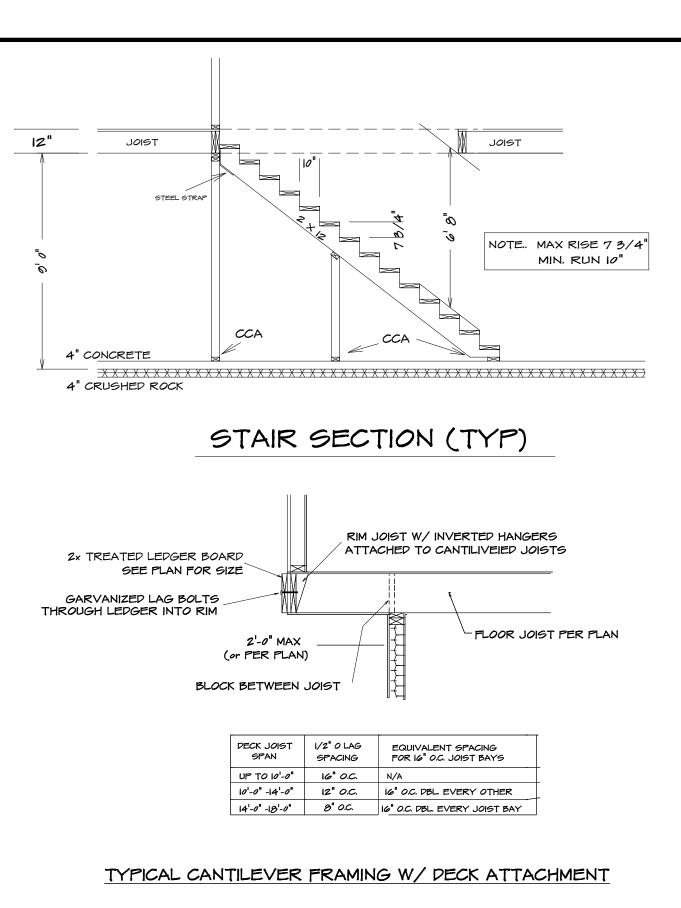
ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

BEARING WALL LINES

FIRST FLOOR PLAN 1/4" = 1'0"







3/4" T&G SUBFLOOR

(PER PLAN)

JOIST PER PLAN

#### ROOFING MATERIAL 240 LB ASPHALT SHINGLES FAFTER ATTIC SPACE 7/16" OSB SHEATHING 2-PLY 15# FELT - BAFFLE FOR POSITIVE VENTILATION ICE BEARIER self-adhering polymer R-40 INSULATION (MIN) METAL EDGE GUTTER -CEILING JOIST IX8 FASCIA 2X6 SUB-FASCIA 1/2" GYP. BOARD SOFFIT BOARD -- DOUBLE TOP PLATE PER PLAN SOFFIR VENTS 8' O.C. -1/2" GYP. BOARD 2X4 NAILER-R-10 OR R13+5 IX4 TRIM BOARD — INSULATION EXTERIOR SHEATHING 7/16" OSB SHEATHING -2X4 STUD @ 16" O.C. W/ TYVEX HOUSE WRAP UNDERNEATH 3/4" T&G SUBFLOOR FLOOR JOIST-PER PLAN <−− 1/2" GYP. BOARD 7/16" OSB SHEATHING R-10 OR R13+5 INSULATION W/ TYVEX HOUSE WRAP - EXTERIOR SHEATHING UNDERNEATH — 2X4 STUD @ 16" O.C. 3/4" T&G SUBFLOOR RIM JOIST TREATED SILL PLATE FLOOR JOIST-PER PLAN SILL SEALER -GRADE 8" MIN. WATERPROOF BELOW GRADE SEE FOUNDATION NOTES FOR REBAR LOCATION AND SPACING PER PLAN 8" CONC. WALL -4" DRAIN TILE 4" CONC. SLAB MIN CONC. FOOTING 4" ROCK MIN SEE FOUNDATION NOTES UNDISTURBED SOIL

#### EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TO BRACED WALL PANELS) BRACED WALLS: (ONE BRACED WALL PANEL) \_ 2'-18' FINISHED WIDTH OF OPENING FOR SINGLE OR DOUBLE PORTAL TENSION STRAP PER TABLE R602.10.5.4 ON OPPOSITE SIDES OF SHEATING TO HEADER WITH 2 MIN. 3" X II I/4" NET HEADER ROWS OF 16D SINKER NAILS AT 3" SPLICE EDGES SHALL O.C. TYP FASTEN SHEATHING TO HEADER WITH 8D COMMON OR OCCURE OVER AND GALVANIZED BOX NAILS IN 3" GRID PATTERN AS SHOWN BE NAILED TO COMMON BLOCKING MIN. 3/8" WOOD HEADER TO JACK-STUD STAP PER TABLE R602.10.6.4 ON WITHIN MIDDLE 24" -STRUCTURAL PANEL OF WALL MID-HEIGH SHEATHING ONE ROW OF 3" O.C. MIN. DOUBLE 2X4 FRAMING COVERED WITH MIN. 3/8" NAILING IS REQUIRED THICK WOOD STRUCTURAL PANEL SHEATHING WITH $\delta D$ IN EACH PANEL EDGE COMMON OR GALVANIZED BOX NAILS AT 3" O.C. IN ALL FRAMING (STUDS, BLOCKING, AND SILLS) TYP. TYPICAL PORTAL -MIN. LENGTH OF PANEL PER TABLE R602.10.5 FRAMING CONNECTION MIN. DOUBLE 2X4 POST MIN. (2) 4200 LB STRAP TYPE HOLD DOWND EMBEDDED (KING AND JACK STUD) NTO CONCRETE AND NAILED INTO FRAMING NUMBER OF JACK STUDS PER TABLES R502.5(1)&(2) MIN. REINFORCING OF FOUNDATION, ONE #4 BAR TOP AND BOTTOM OF FOOTING. LAP 15" MIM. MIN. 1000 LB. HOLD-DOWN DEVICE EMBEDED INTO CONCRETE & NAILED INTO FRAMING. MIN. FOOTING SIZE UNDER IS 12" X 12" A TURNED DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS MIN. (1) 5/8" DIAMETER ANCHOR BOLT INSTALLED PER R403.1.6- WITH 2" X 2" X 3/16" PLATE ALTERNATE BRACED WALL PANEL Method PFH: Portal frame with hold-downs BRACED WALL SECTION ROOFING MATERIAL 240 LB ASPHALT SHINGLES -7/16" OSB \_#2 2X6 D-FIR 16" O.C. 2 ADDITIONAL #4 BARS ABOVE OPENING EXTENDING I' PAST EACH SIDE HEADER (SEE PLAN FOR SIZE) EGRESS WINDOW NOTES: -2-PLY 15# FELT -PER IRC SECTION 310 7/16" HRD. BRD. -GUTTER - 5.7 S.F. OPENING MIN. \_\_IX8 FASCIA

~ 2X6 SUB-FASCIA

6X6 CEDAR POST

SOFFIT BOARD

6X6 CEDAR POST

16" X 36" PIER FOOTINGS

DECK SECTION

3 1/2" DIAMETER

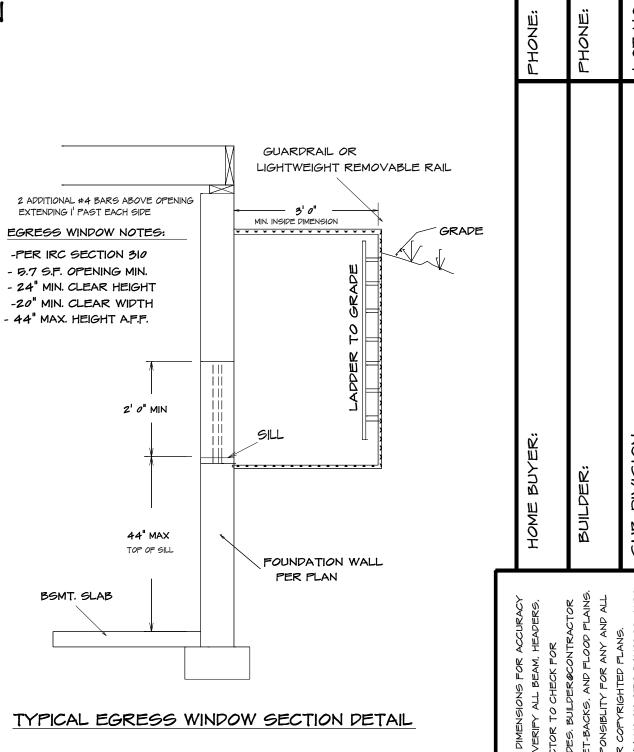
A500-GR.B-42

2 X 10 TREATED

3" HSS COLUMN

1/2" X 6" BASE PLATE

WRAPPED HORZ



MIN. 5/16" APA RATED WITH 8d

MIN. I/2" GYPSUM BOARD WITH NO. 6 I-I/4" TYE W OR S SCREWS @ 7" O.C. EDGES AND WALL (4'-0" LONG, BOTH FACES OF WALL

METHOD GB (2018 IRC) :

ALTERNATE BRACED WALL PANEL

ALTERNATE BRACED WALL PANEL

A ALTERNATE BRACED WALL PANEL

 $\left( egin{array}{c} A \ A \end{array} 
ight)$  ALTERNATE BRACED WALL PANEL .

NAILS @ 16" O.C.

Method PFG: at garage door openings in

Seismic Design Categories A, B and C

Method ABW: Alternate braced wall panels

2. PROVIDE SOLID BLOCKING ABOVE AND BELOW

ALL BRACED WALL LINES WHERE FRAMING ABOVE

OR BELOW RUNS PERPENDICULAR TO THE BRACING.

THE BRACED WALL SOLE PLATE AND TOP PLATE

SHALL BE FASTENED TO BLOCKING (RO PARALLEL

3. SIMPSON STHD-14 HOLD-DOWN STRAPS MAY BE

SUBSTITUTED WITH SIMPSON PHD2 HOLD-DOWNS

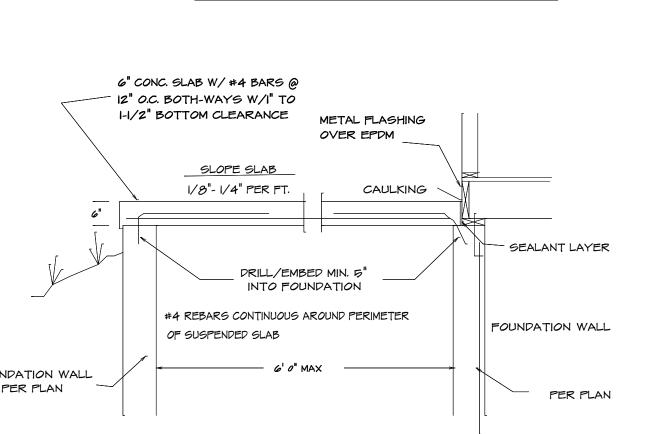
AND A 5/8" ANCHOR ROD DRILLED AND EPOXIED A

MIN. 7" INTO THE FOUNDATION

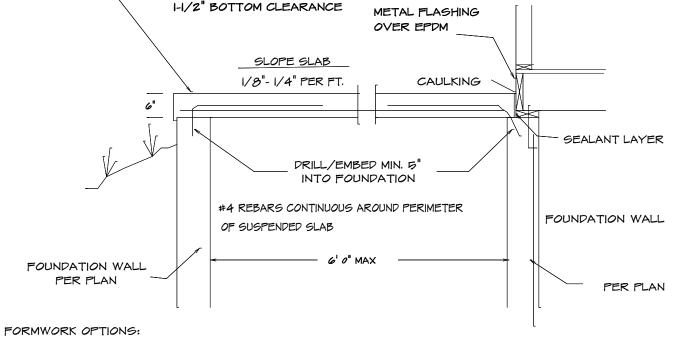
FRAMING MEMBER WHERE PROVIDED) WITH (3) 164

Method CS-PF: Continuously sheathed portal frame

Method PFH: Portal frame with hold-downs



TYPICAL WALL SECTION





CORRUGATED DECKING (SHORE AT MID-SPAN 2. PLYWOOD FORMS WITH EXPANDABLE BAR JOIST

## OR TEMPORARY FRAMED WALLS BY CONTRACTOR



. MAXIMUM SPAN = 6'

2. MINIMUM 6" THICKNESS

AT THE EDGES OF SLAB

3. #4 REBARS AT 12" O.C. EACH WAY

4. MIN. 1-1/2" OF CONTINUIUS BEARING

5. PORCH SLAB GREATER THEN 6' SHALL BE

TREATED AS AN ELEVATED GARAGE SLAB

HSS COLUMN DETAIL

### GARAGE

I. THE GARAGE FLOOR SHALL BE SLOPED TOWARD GARAGE DOORS 2. DOORS BETWEEN GARAGE AND DWELLING - MIN | 3/3" SOILD CORE OR HONEY COMBED STEEL DOOR OR 20 MIN. RATED 3. GARAGE TO HAVE 5/8" TYPE X GYPSUM THROUGHTOUT

4. THE H-FRAM SHALL CONSIST OF 2X6 FRAMING

#### GLAZING

GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE APPROVED SAFTY 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 CLOSED POSITION AND WHOSE BOTTEM EDGE IS WITHIN 60" OF THE FLOOR: WALLS ENCLOSED STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTEM OF THE STAIR: ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS: GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING 9 SQ. FT. AND WHOSE BOTTEM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR

#### EMERGENCY EGREGS

PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MIN. OPENABLE AREA OF 5.7 SR. FT. WITH A MIN. OPENABLE HEIGHT OF 24" AND WIDTH OD 21"

#### ELECTRICAL OUTLETS

. ALL OUTLETS TO BE ARC FAULT CIRCUIT-INTERRUPTER OR GROUND FAULT CIRCUIT-INTERRUPTER PROTECTED EXCEPT.. REFRIGERATOR, SINGLE OUTLET FOR SUMP PUMP AND SINGLE OUTLET IN GARAGE FOR A FREEZER

2. ALL OUTLETS TO BE TAMPER RESISTANT

Carbon monoxide detection systems that include carbon monoxide detectors and audible notification appliances, i nstalled and maintained in accordance with this section for carbon monoxide alarms and NFPA 720, shall be permitted. The carbon monoxide detectors shall be listed as complying with UL 2075. Where a household carbon monoxide detection system is installed, it shall become a permanent fixture of the occupancy, owned by the homeowner and shall be monitored by an approved supervising station.

dwelling units that have attached garages.

For new construction, an approved carbon monoxide

alarm shall be installed outside of each separate sleeping

units within which fuel-fired appliances are installed and in

area in the immediate vicinity of the bedrooms in dwelling

CARBON MONOXIDE ALARMS

Carbon monoxide alarms.

#### FRAMING NOTE

I. ALL LUMBER SIZES ARE FOR #2 D-FIR-LARCH

- 2. ALL HEADERS TO BE MIN. (2) #2-2XI0
- 3. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS 4. ALL HEADRS TO BEAR ON MIN. OF (2) 2X4 STUDS 5. JOIST UNDER BEARING PARTITIONS SHALL BE DOUBLED
- AND COMPLY WITH 2018 IRC 6. WATER-RESISTIVE BARRIER SHALL BE PROVIDED OVER ALL EXTERIOR WALL PER 2018 IRC
- 7. WHERE CEILING JOIST ARE NOT INSTALLED CONNECTED TO THE RAFTERS AT THE TOP PLATE AND/OR WHERE CEILING JOIST ARE NOT INSTALLED IN THE LOWER 1/3 OF ATTIC SPACE RAFTER TIES SHALL BE INSTALLED IN THE LOWER 1/3 OF ATTIC SPACE
- 8. COLLAR TIES SHALL BE PROVIDED IN THE ATTIC SPACE IN THE UPPER 1/3 OF ATTIC 9. ROOF IS DESIGNED FOR 20 P.S.F. ROOF SNOW LOAD (MIN.)
- 0. MIN 20 YR. ASPHALT SHINGLES II. RAFTER TIES SHALL NOT BE REQUIED WHEN A STRUCTURAL RIDGE HAS BEEN PROVIDED AND ADEQUATELY DESIGNED (AS IN A FULLY VAULTED ROOM) SUCH SHALL BE NOTED AS "STRUCTURAL" ON THE PLAN. PER 2018 IRC

#### Guard opening limitations. Required guards on open sides of stairways, raised floor areas, balconies, and porches shall have intermediate rails or ornamental closures that do not allow passage of a sphere 4" or more in diameter.

UPSET STEEL BEAM/JOIST CONNECTION

Opening protection. Openings from a private garage directly into a room used for sleeping purposes

1/2" THRU-BOLTS

JOIST HANGER PER

MANUFACTURER SPECS

@ 24" O.C.

shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches in thickness, solid or honeycomb-core steel doors not less than 13/8 inches thick, or 20-minute fire-rated

doors, equipped with a self-closing device.

#### SMOKE ALARMS:

PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING ROOM AND ON EACH FLOOR, INCLUDING BASEMENT. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.

#### INSULATION NOTES:

MIN. INSULATION SHALL BE PROVIDED ADJACENT TO HABITABLE AREAS AS EXTERIOR FRAMED WALLS (RID OR RIB+6) FLOOR OVER HEATED SPACE RID FLOOR OVER OUTSIDE AIR RIO ATTIC - BLOWN IN R40 CATHEDRAL CEILING

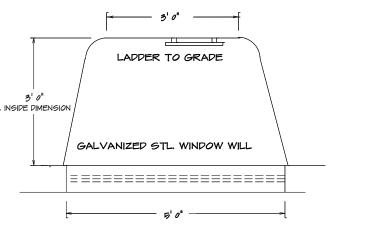
I. PROVIDE VULCRAFT 2VLI (OR EQUAL DURING CONSTRUCTION) or

## SUSPENDED PORCH STOOP DETAIL

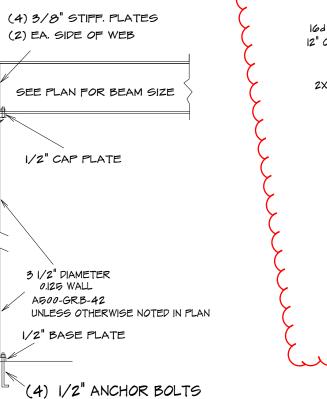
LADDER TO GRADE MIN. INSIDE DIMENSI GALVANIZED STL. WINDOW WILL 

TYPICAL EGRESS WINDOW PLAN SECTION

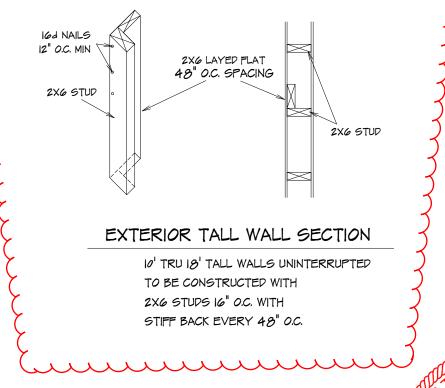
## OPTIONAL



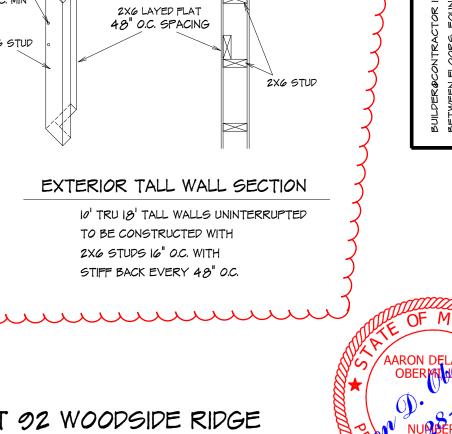
#### TYPICAL F.P. FRONT



(4) 1/2" DIA BOLTS



LOT 92 WOODSIDE RIDGE 214 NW AMBERSHAM DR. LEES SUMMIT, MO. 64081



CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/25/2021

#### Foundation Wall Reinforcement Schedule - Table 2

Concrete strength/Grade	8 inch thick wall			10 inch thick wall		
Reinforcement #4 bar	8'	9'	10'	8'	9'	10'
3,000 psi / Grade 40	16	12	NP	24	16	12
3,500 psi / Grade 40	16	12	NP	24	24	12
3,000 psi / Grade 60	24	16	NP	24	20	16
3,500 psi / Grade 60	24	16	NP	24	24	16
Horizontal reinforcement -	- Minim	num Gr	ade 40	steel	#4 I	oar
One bar 12" from top of wall; maximum spacing 24" o.c.	4-#4	5-#4	6-#4	4-#4	5-#4	6-#4

- 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 inch on center may be placed in the middle of the wall. Other walls shall have vertical reinforcement place as follows:
- a) 8-inch wall Minimum 5 inches from the outside face.
- b) 10-inch wall Minimum 6.75 inches from the outside face.
   c) Extend bars to within 8 inches of the top of the wall.
- Reinforcement clearances:
- a) Concrete exposed to earth minimum 1-1/2 inches.
- b) Not exposed to weather (interior side of walls) minimum 3/4 inch.
- c) Concrete exposed to weather (top clearance in garage and driveway slabs)- 1-1/2 inches.
- Horizontal reinforcement:
- a) One bar shall be placed within 12 inches of the top of the wall.
- b) Other bars shall be equally spaced with spacing not to exceed 24 inches on center.

  Horizontal bars should be as close to the tension face as possible (interior) and behing
- c) Horizontal bars should be as close to the tension face as possible (interior) and behind the vertical reinforcement (i.e.2" towards the inside).
- d) Supplemental reinforcement at corners Place 1 #4 bar 48 inches long at 45 degree angle at corners of openings per Figure 4a. Place reinforcement within 6" of the edge of inside corners
- 5) Reinforcement shall be lapped a minimum 24 inches at ends, splices, and around corners.
  6) At masonry ledges the minimum wall thickness shall be 3-1/2 inches. Ledges shall not exceed a depth of more than 24 inches below the top of the wall. For wall thicknesses less than 4 inches provide #4 bars at maximum 24 inches on center to within 8 inches of the top of the wall.
- Straight walls more than 5 feet tall and more than 16 feet long shall be provided with exterior braced return walls. Wall length shall be measured using inside the shortest dimension between intersecting walls (See 7/S2).

#### TABLE R602.3(1)—continued FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

i sere	BUILDING MATERIALS	DESCRIPTION OF FASTENER <sup>b, c, e</sup>	SPACING OF FASTENERS	
ITEM			Edges (inches) <sup>i</sup>	Intermediate supports <sup>c, e</sup> (inches)
W	ood structural panels, su	sheathing to fr		framing and particleboard wall
32	3/8" - 1/2"	6d common (2" × 0.113") nail (subfloor wall) <sup>j</sup> 8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131") nail (roof) <sup>f</sup>	6	12 <sup>9</sup>
33	19/32" - 1"	8d common nail (2 <sup>1</sup> / <sub>2</sub> " × 0.131")	6	129
34	11/8" - 11/4"	10d common (3" × 0.148") nail or 8d (2 <sup>1</sup> / <sub>2</sub> " × 0.131") deformed nail	6	12
		Other wall shea	athing <sup>h</sup>	
35	<sup>1</sup> / <sub>2</sub> " structural cellulosic fiberboard sheathing	1 <sup>1</sup> / <sub>2</sub> " galvanized roofing nail, <sup>7</sup> / <sub>16</sub> " crown or 1" crown staple 16 ga., 1 <sup>1</sup> / <sub>4</sub> " long	3	6
36	<sup>25</sup> / <sub>32</sub> " structural cellulosic fiberboard sheathing	1 <sup>3</sup> /4" galvanized roofing nail, <sup>7</sup> / <sub>16</sub> " crown or 1" crown staple 16 ga., 1 <sup>1</sup> / <sub>2</sub> " long	3	6
37	<sup>1</sup> / <sub>2</sub> " gypsum sheathing <sup>d</sup>	1 <sup>1</sup> / <sub>2</sub> " galvanized roofing nail; staple galvanized, 1 <sup>1</sup> / <sub>2</sub> " long; 1 <sup>1</sup> / <sub>4</sub> screws, Type W or S	7	7
38	<sup>5</sup> /8" gypsum sheathing <sup>d</sup>	1 <sup>3</sup> / <sub>4</sub> " galvanized roofing nail; staple galvanized, 1 <sup>5</sup> / <sub>8</sub> " long; 1 <sup>5</sup> / <sub>8</sub> " screws, Type W or S	7	7
Â	Wood stru	ictural panels, combination	subfloor unde	rlayment to framing
39	<sup>3</sup> / <sub>4</sub> " and less	6d deformed (2" × 0.120") nail or 8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131") nail	6	12
40	<sup>7</sup> /8" - 1"	8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131") nail or 8d deformed (2 <sup>1</sup> / <sub>2</sub> " × 0.120") nail	6	12
41	11/8" - 11/4"	10d common (3" × 0.148") nail or 8d deformed (2 <sup>1</sup> / <sub>2</sub> " × 0.120") nail	6	12

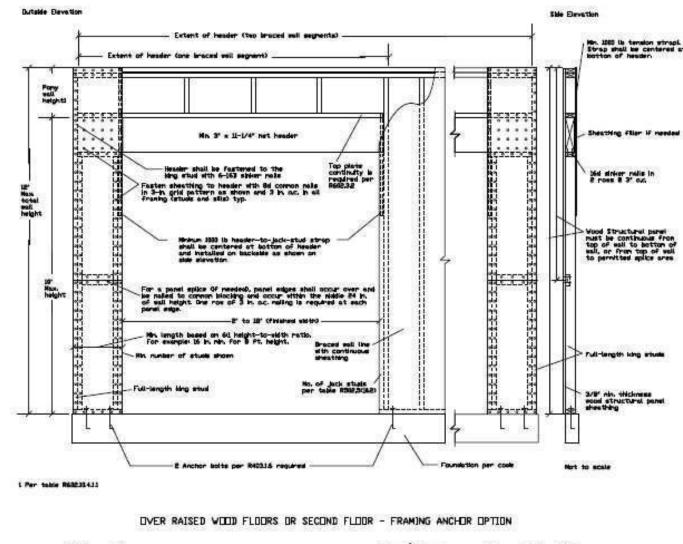
For SI: 1 inch = 25.4 mm. 1 foot = 304.8 mm. 1 mile per hour = 0.447 m/s: 1 Ksi = 6.895 MPa.

#### TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

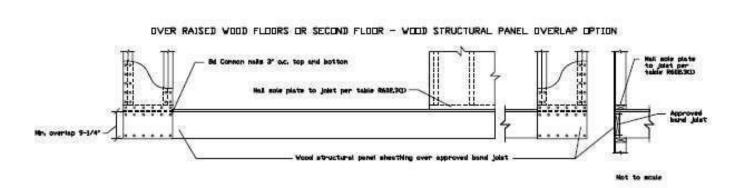
TEM	DESCRIPTION OF BUILDING ELEMENTS	TYPE OF FASTENER <sup>a, b, c</sup>	SPACING OF FASTENERS
	New York Street or More	Roof	Ì
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	857
2	Ceiling joists to plate, toe nail	3-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	8 <b>—</b>
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	S <del>-</del>
4	Collar tie to rafter, face nail or 1 <sup>1</sup> / <sub>4</sub> " × 20 gage ridge strap	3-10d (3" × 0.128")	18—
5.	Rafter or roof truss to plate, toe nail	3-16d box nails (3 <sup>1</sup> / <sub>2</sub> " × 0.135") or 3-10d common nails (3" × 0.148")	2 toe nails on one side and 1 toe nail on opposite side of each rafter or trussi
6	Roof rafters to ridge, valley or hip rafters: toe nail face nail	4-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135") 3-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	18-
7	Built-up studs-face nail	Wall 10d (3" × 0.128")	24" o.c.
8	Abutting studs at intersecting	16d (3 <sup>1</sup> / <sub>2</sub> " ×	12" o.c.
	wall corners, face nail Built-up header, two pieces	0.135") 16d (3 <sup>1</sup> / <sub>2</sub> " ×	16" o.c. along each
9	with <sup>1</sup> / <sub>2</sub> " spacer	0.135″)	edge
10	Continued header, two pieces	16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	16" o.c. along each edge
11	Continuous header to stud, toe nail	4-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	8.—
12	Double studs, face nail	10d (3" × 0.128")	24" o.c.
13	Double top plates, face nail	10d (3" × 0.128")	24" o.c.
14	Double top plates, minimum 24-inch offset of end joints, face nail in lapped area	8-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	Ş <b>⊢</b>
15	Sole plate to joist or blocking, face nail	16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	16" o.c.
16	Sole plate to joist or blocking at braced wall panels	3-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	16" o.c.
17	Stud to sole plate, toe nail	3-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113") or 2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	F-5
18	Top or sole plate to stud, end nail	2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	8—
19	Top plates, laps at corners and intersections, face nail	2-10d (3" × 0.128")	PL
20	1" brace to each stud and plate, face nail	2-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113") 2 staples 1 <sup>3</sup> / <sub>4</sub> " ×	7_12
21	1" × 6" sheathing to each bearing, face nail	2-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113") 2 staples 1 <sup>3</sup> / <sub>4</sub> "	10—15—1
22	1" × 8" sheathing to each bearing, face nail	2-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113") 3 staples 1 <sup>3</sup> / <sub>4</sub>	y
23	Wider than 1" × 8" sheathing to each bearing, face nail	3-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113") 4 staples 1 <sup>3</sup> / <sub>4</sub> "	11_12
Derec	E ACCUSE SOON AND TO	Floor	
24	Joist to sill or girder, toe nail	3-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	R <del>-</del>
25	Rim joist to top plate, toe nail (roof applications also)	8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	6″ o.c.
26	Rim joist or blocking to sill plate, toe nail	8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	6″ o.c.
27	1" × 6" subfloor or less to each joist, face nail	2-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113") 2 staples 1 <sup>3</sup> / <sub>4</sub> "	8 <u>—</u> 8 <u>—</u> 8
28	2" subfloor to joist or girder, blind and face nail	2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	85
29	2" planks (plank & beam - floor & roof)	2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	at each bearing
30	Built-up girders and beams, 2-inch lumber layers	10d (3" × 0.128")	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
	Ledger strip supporting joists	3-16d (3 <sup>1</sup> / <sub>2</sub> " ×	DAMES AND

26 16 1028

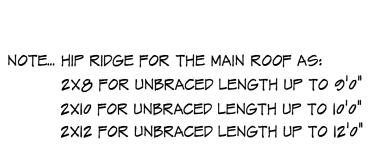
#### OVER CONCRETE OR HASONRY BLOCK FOUNDATION



# Franking anchors 676 to † 676 to † 676 to — Nall sole plate to joint per table R602303 Approved band joint Vocd structural panel sheathing over approved band joint Not to scale



CF-PF WALL BRACING SECTION



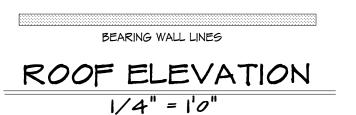
ALL RAFTERS TO BE #2 2X6 D-FIR 16" O.C.
UNLESS OTHER WISE NOTED
PURLING RAFTERS TO BEARING WALL LINES

CONNECT RAFTERS TO CEILING JOIST W (4) I6d GALV. NAILS

CONNECT RAFTERS TO RIDGE, VALLEY, AND HIP RIDGE

WITH (4) I6d GALV. NAILS

VERT. RIDGE AND RAFTER SUPPORTS TO BE EQUAL TO OR GREATER THAN THE DEPTH OF RAFTERS



ROOF DESIGNED WITH: LIVE LOAD = 20 PSF DEAD LOAD = 10 PSF ALL NOTES, SECTIONS, AND DRAWINGS ARE IN ACCORDANCE WITH THE 2018 IRC

> LOT 92 WOODSIDE RIDGE 214 NW AMBERSHAM DR. LEES SUMMIT, MO. 64081

