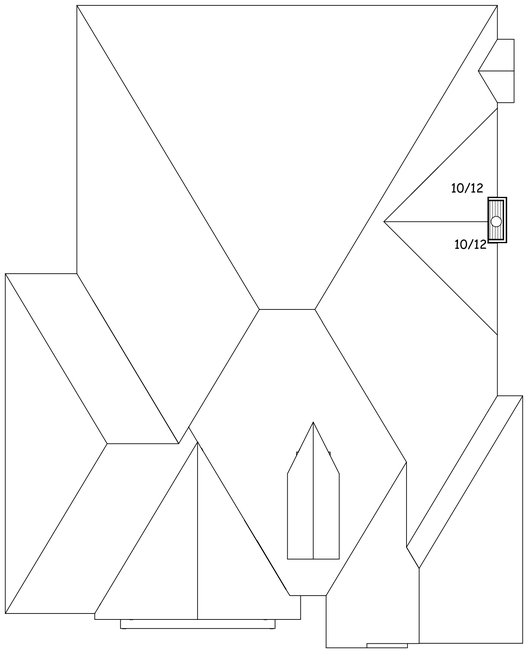
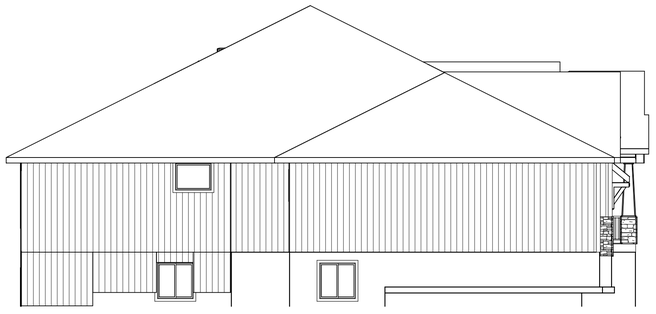


ROOF PLAN
1/8 = 1-0
ROOF PITCHES FRONT TO BACK 6/12 TYP. U.N.O.
ROOF PITCHES SIDE TO SIDE 10/12 TYP. U.N.O
RAFTERS 2 X 6 DF NO 2 @ 16" OC TYP.
HIPS AND RIDGES 2 X 8 DF NO 2 TYP.

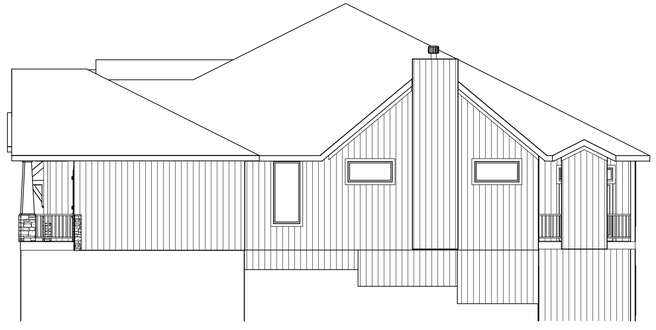
WOOD TRIM
PANEL GARAGE
DOORS

FRONT ELEVATION " B "
STUCCO AND STONE



LEFT EL.
1/8 = 1-0

REAR EL.
1/8 = 1-0



RIGHT EL.
1/8 = 1-0

Digitally signed by Kim Brennan
Reason: Release for Construction
Date: 2021.06.29 11:43:44-05'00'

Kim Brennan

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/29/2021

STATE OF MISSOURI
DAVID PAUL ARMSTRONG
NUMBER A-15839
REGISTERED PROFESSIONAL ENGINEER
12-9-20

BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

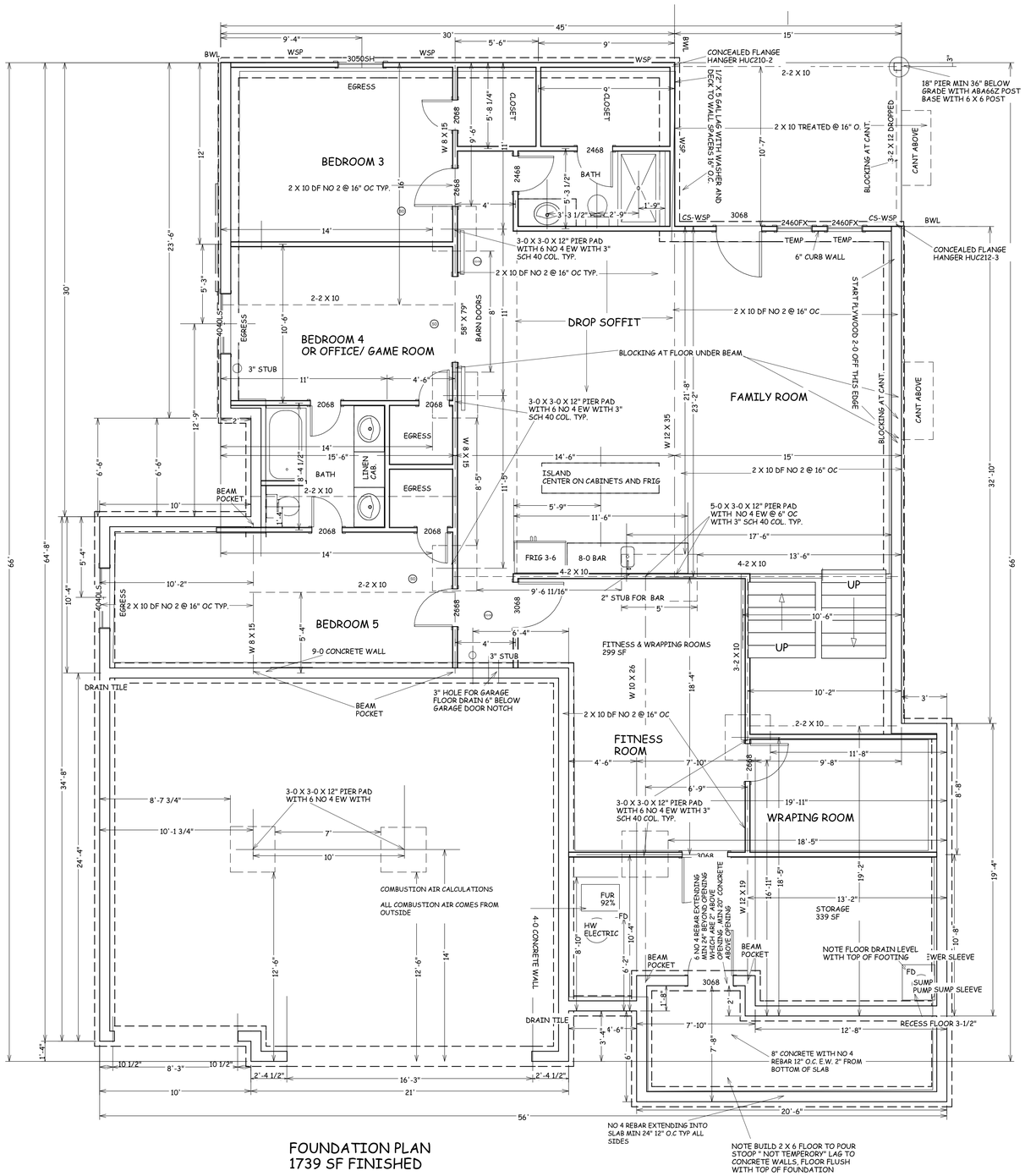
TRUMARK HOMES
KYLE VI
ELEVATION B
LOT 78 WOODSIDE RESERVE
325 NW AMBERSHAM DR
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
12-6-20

PLAN NO.
3320

SHEET NO.
1 OF 6



FOUNDATION PLAN
1739 SF FINISHED

ALTERNATIVE FOUNDATION WALL REINFORCEMENT NOTES:

AS AN ALTERNATIVE TO THE BASEMENT FOUNDATION WALL HORIZONTAL AND VERTICAL REINFORCEMENT, PROVIDE 9 lb/yd^3 OF HELIX 5-25 DESIGNED IN ACCORDANCE WITH UNIFORM ES ER-0279.

THE HELIX ALTERNATE ALSO REQUIRES COUNTERFORTS TO BE INSTALLED AT BASEMENT WALLS LONGER THAN 16' AT 16' O.C. PER DETAIL 2, SHEET S103.

CONTACT HELIX FOR PRICING, DELIVERY, AND INSTALLATION AT 734-322-2144 x1 OR SALES @HELIXSTEEL.COM

NOTE : BUILDER WILL CUT DOWN CONCRETE SIDE WALLS TO GRADE

BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND LOCAL CODES.

TRUMARK HOMES
KYLE VI
ELEVATION B
LOT 78 WOODSIDE RESERVE
325 NW AMBERSHAM DR
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
12-6-20

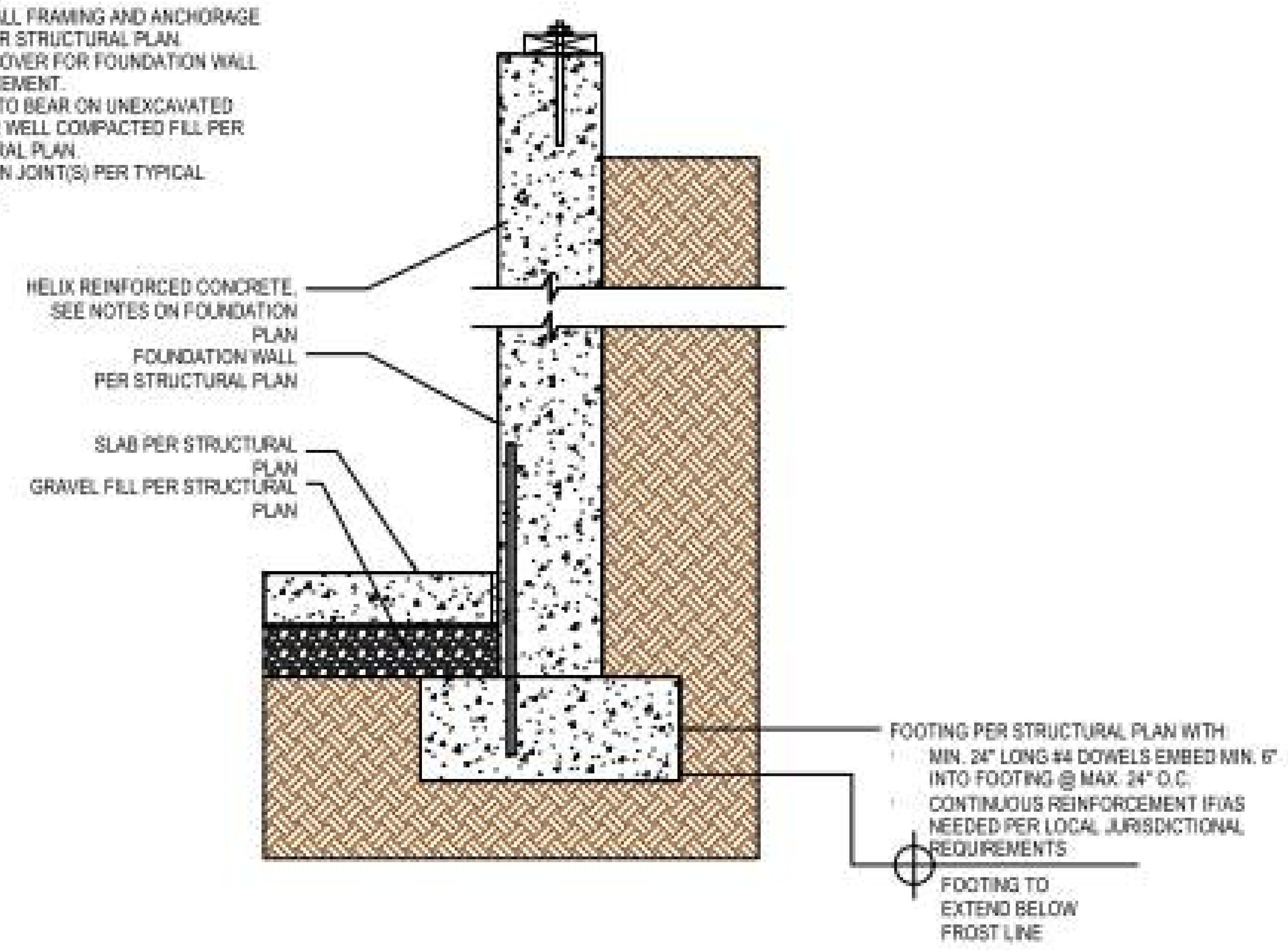
PLAN NO.
3320

SHEET NO.
2 OF 8

STATE OF MISSOURI
DAVID PAUL AMBROSIUS
NUMBER E-19336
12-9-20

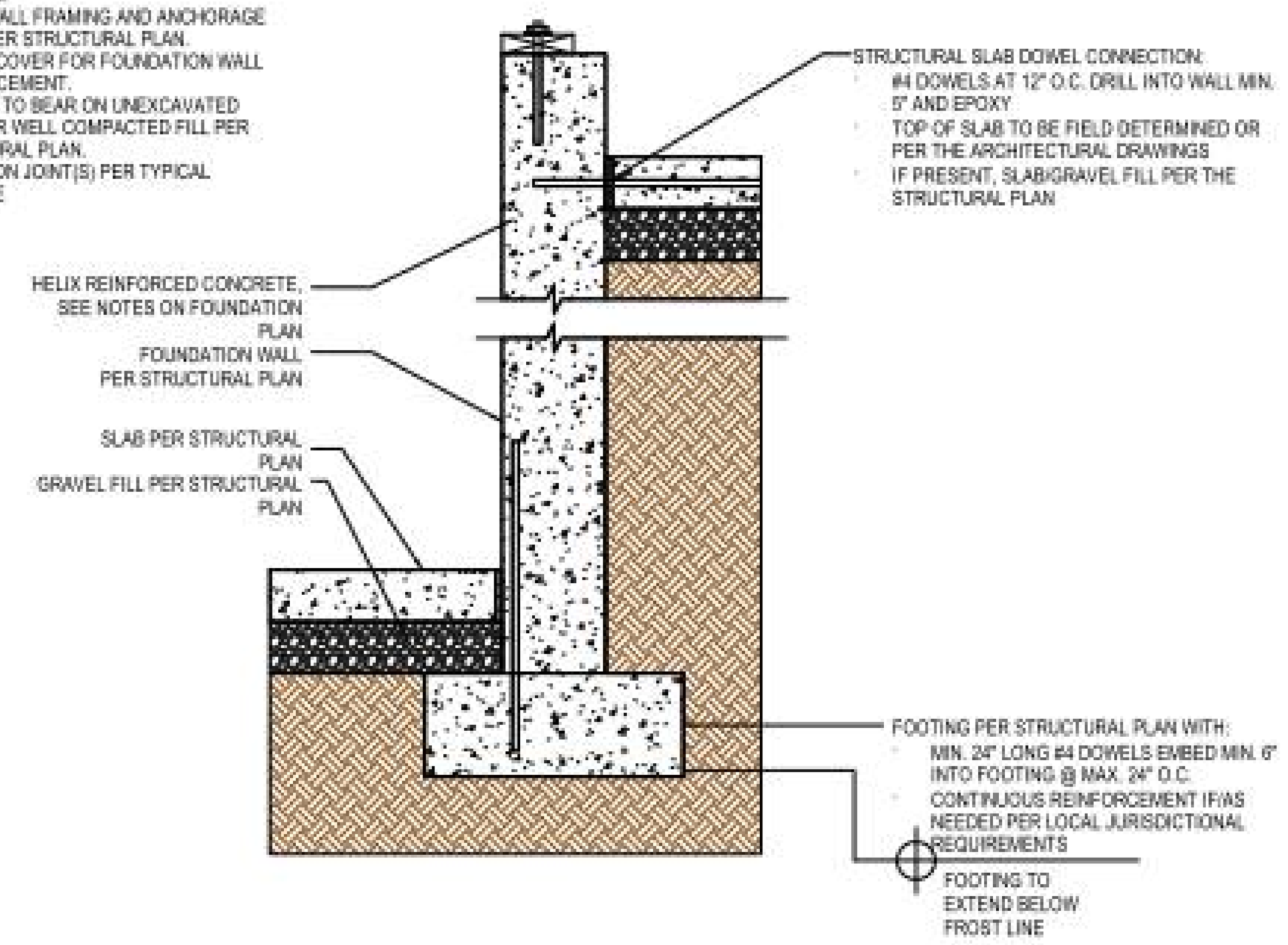
RELEASE FOR CONSTRUCTION
SUBJECT TO PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/29/2021

DETAIL NOTES:
1. FLOOR/WALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
4. EXPANSION JOINT(S) PER TYPICAL PRACTICE



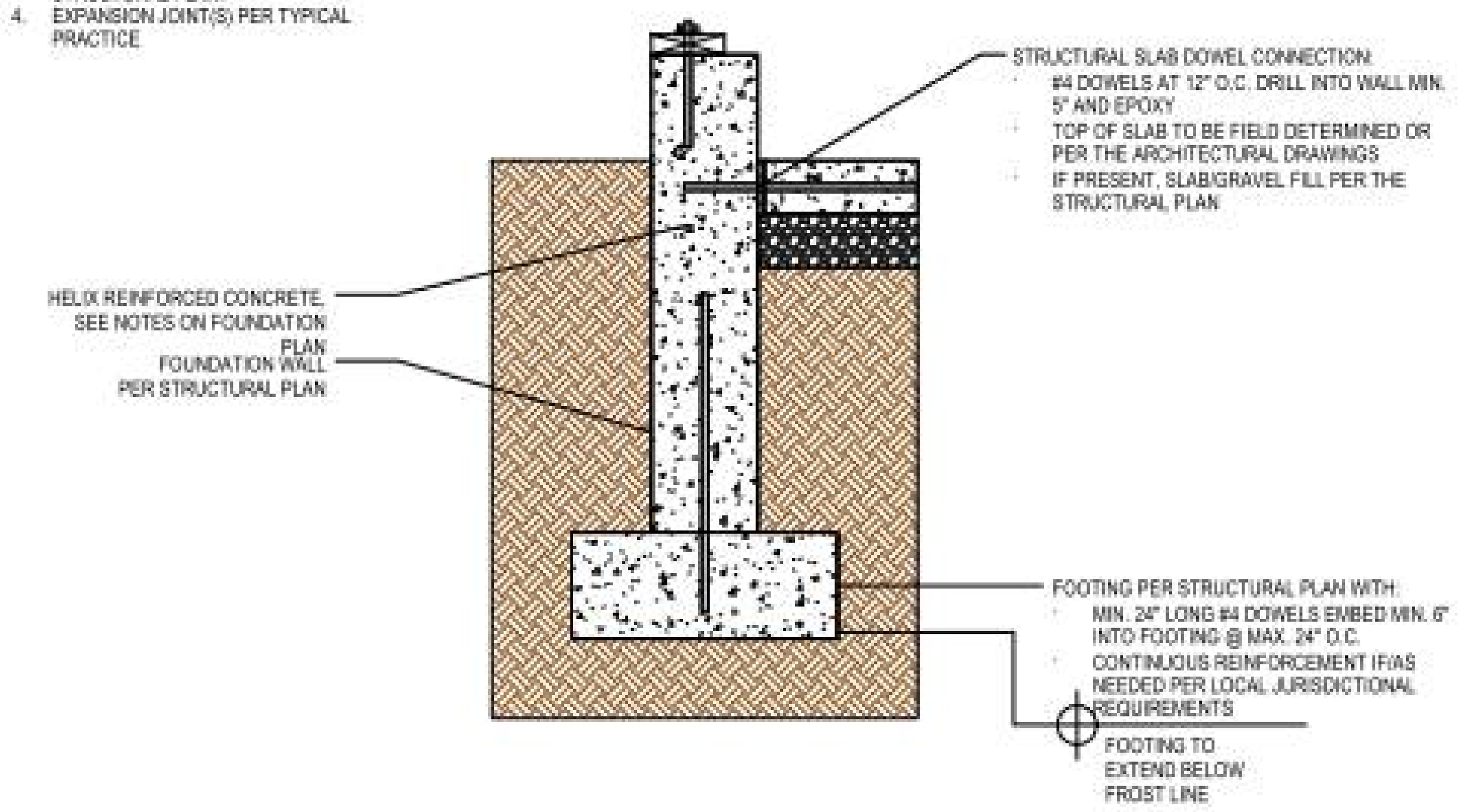
1 S101 **TYPICAL FOUNDATION WALL**

DETAIL NOTES:
1. FLOOR/WALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
4. EXPANSION JOINT(S) PER TYPICAL PRACTICE



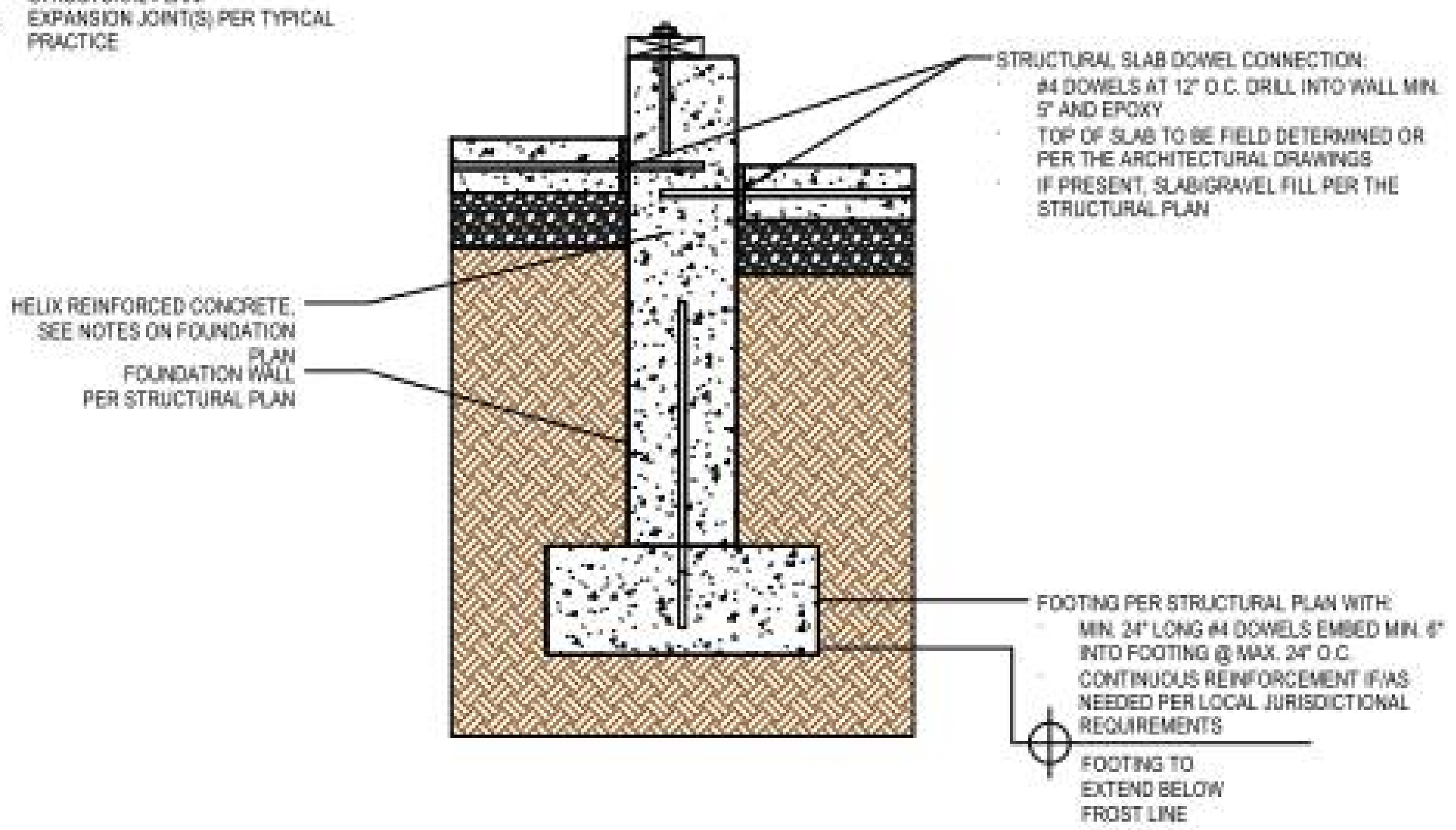
2 S101 **TYPICAL FOUNDATION WALL w/ STRUCTURAL SLAB ADJACENT**

DETAIL NOTES:
1. FLOOR/WALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
4. EXPANSION JOINT(S) PER TYPICAL PRACTICE



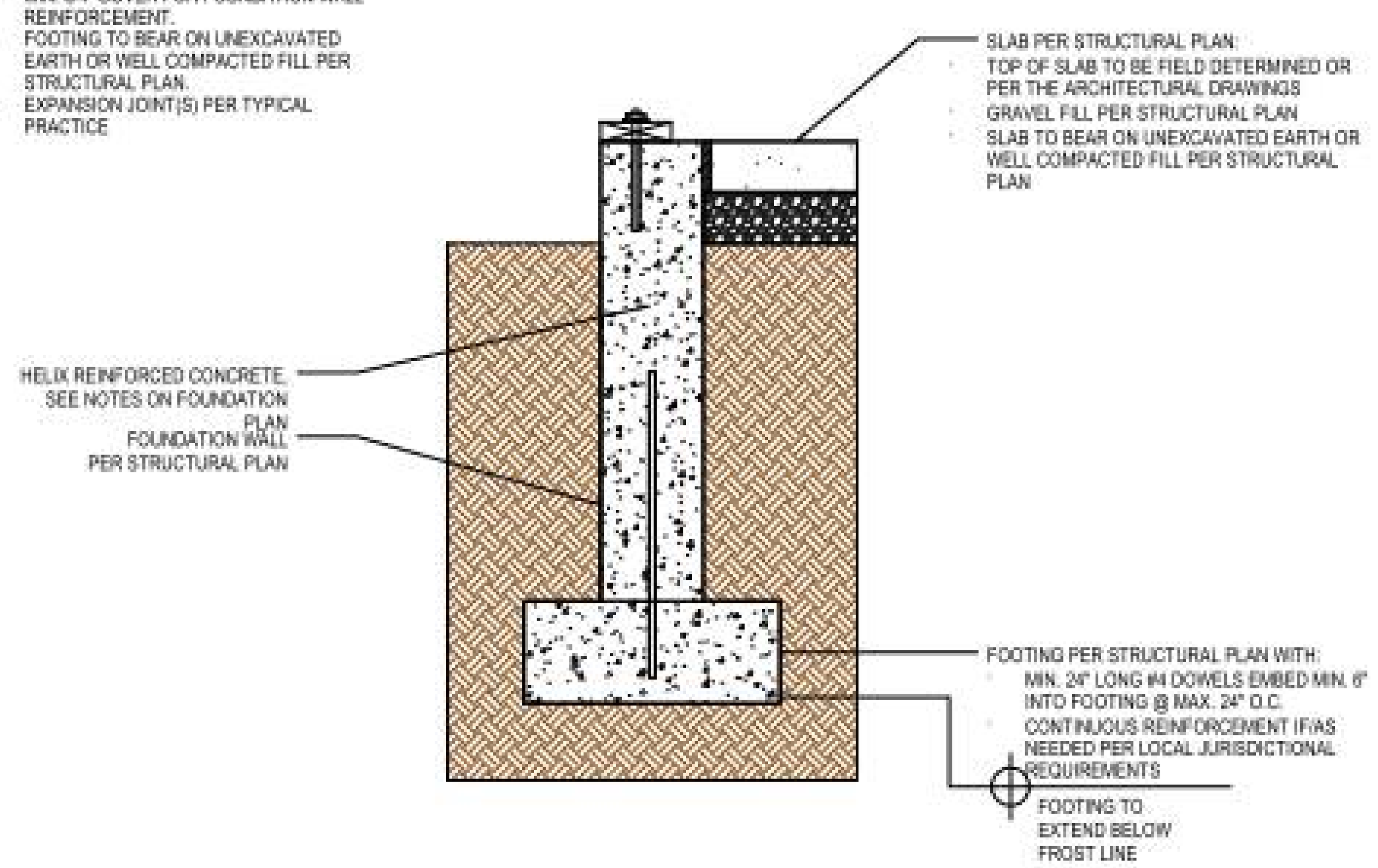
3 S101 **TYPICAL STEM WALL w/ STRUCTURAL SLAB ADJACENT**

DETAIL NOTES:
1. FLOOR/WALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
4. EXPANSION JOINT(S) PER TYPICAL PRACTICE

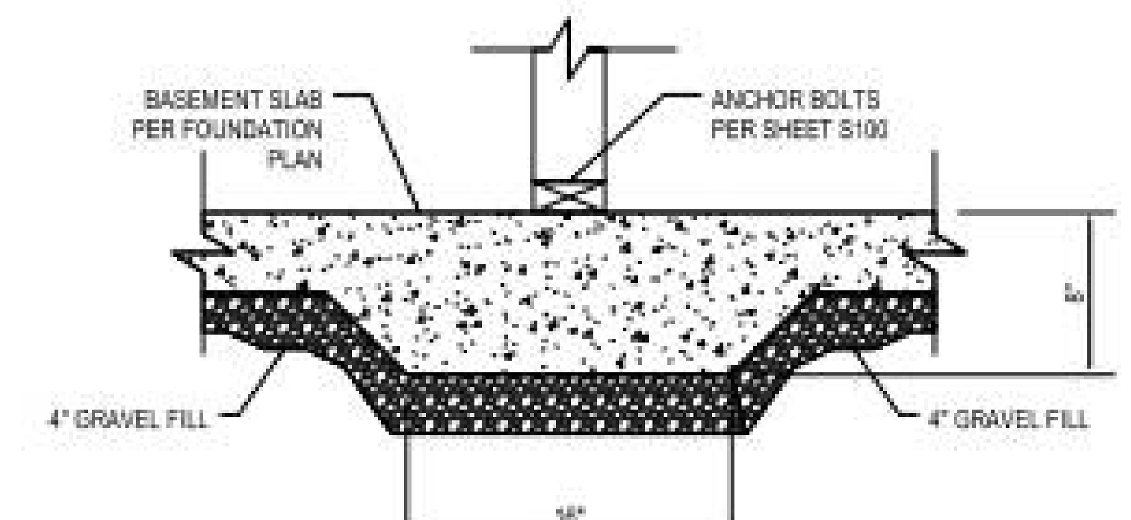


4 S101 **TYPICAL STEM WALL w/ MULTIPLE STRUCTURAL LEDGES**

DETAIL NOTES:
1. FLOOR/WALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
4. EXPANSION JOINT(S) PER TYPICAL PRACTICE

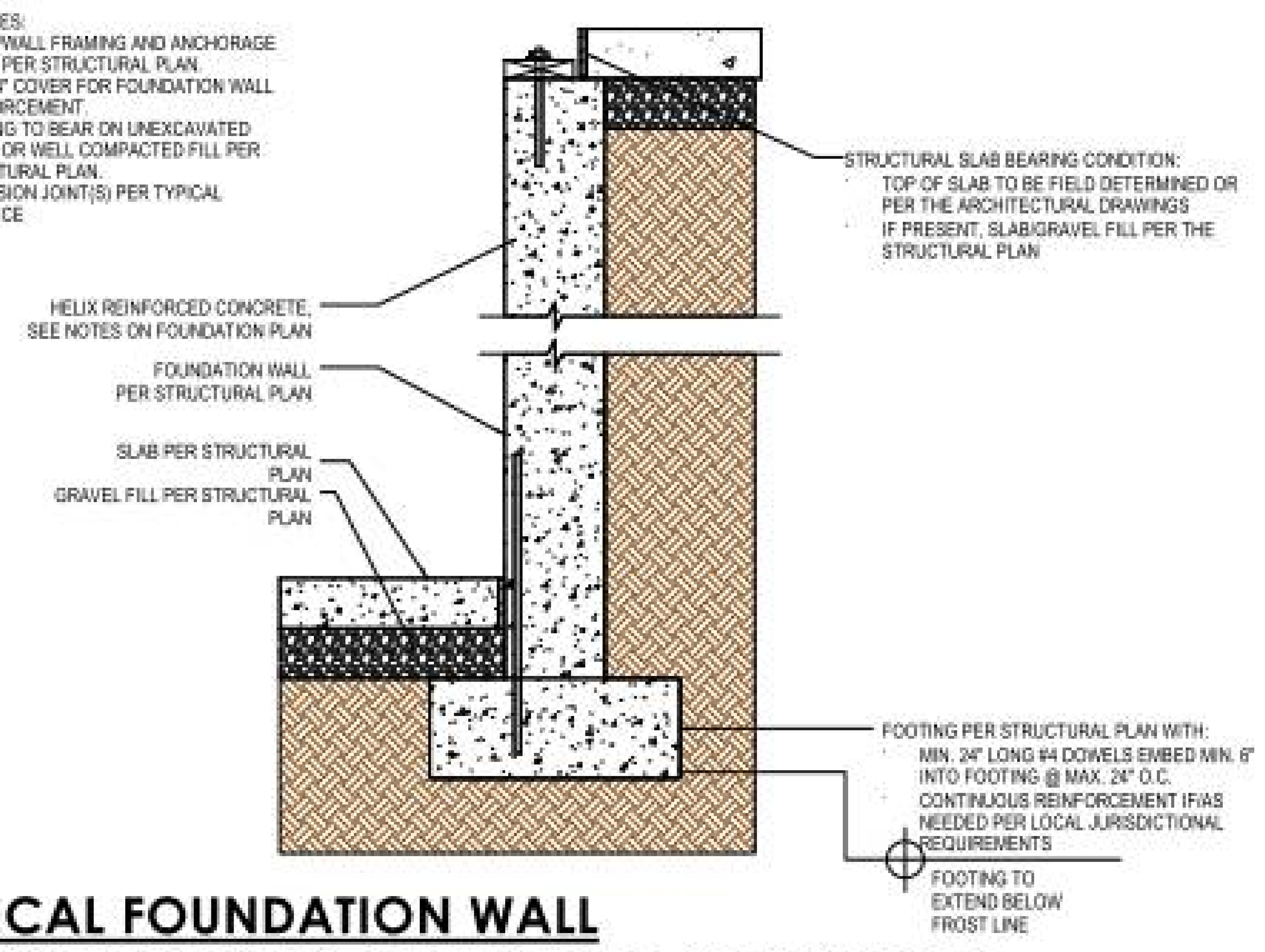


5 S101 **TYPICAL STEM WALL w/ SLAB-ON-GRADE ADJACENT**



6 S101 **TYPICAL THICKENED SLAB**

DETAIL NOTES:
1. FLOOR/WALL FRAMING AND ANCHORAGE ABOVE PER STRUCTURAL PLAN.
2. MIN. 3/4" COVER FOR FOUNDATION WALL REINFORCEMENT.
3. FOOTING TO BEAR ON UNEXCAVATED EARTH OR WELL COMPACTED FILL PER STRUCTURAL PLAN.
4. EXPANSION JOINT(S) PER TYPICAL PRACTICE



7 S101 **TYPICAL FOUNDATION WALL w/ STRUCTURAL SLAB BEARING ALTERNATIVE**

BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND LOCAL CODES.

TRUMARK HOMES
KYLE VI
ELEVATION B
LOT 78 WOODSIDE RESERVE
325 NW AMBERSHAM DR
LEE SUMMIT MO

STATE OF MISSOURI
DAVID PAUL
ARMBORST
NUMBER
E-18838
REGISTERED PROFESSIONAL ENGINEER
12-9-20

SCALE
1/4" = 1-0

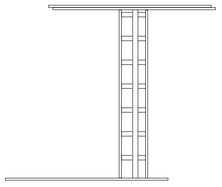
DATE
12-6-20

PLAN NO.
3320

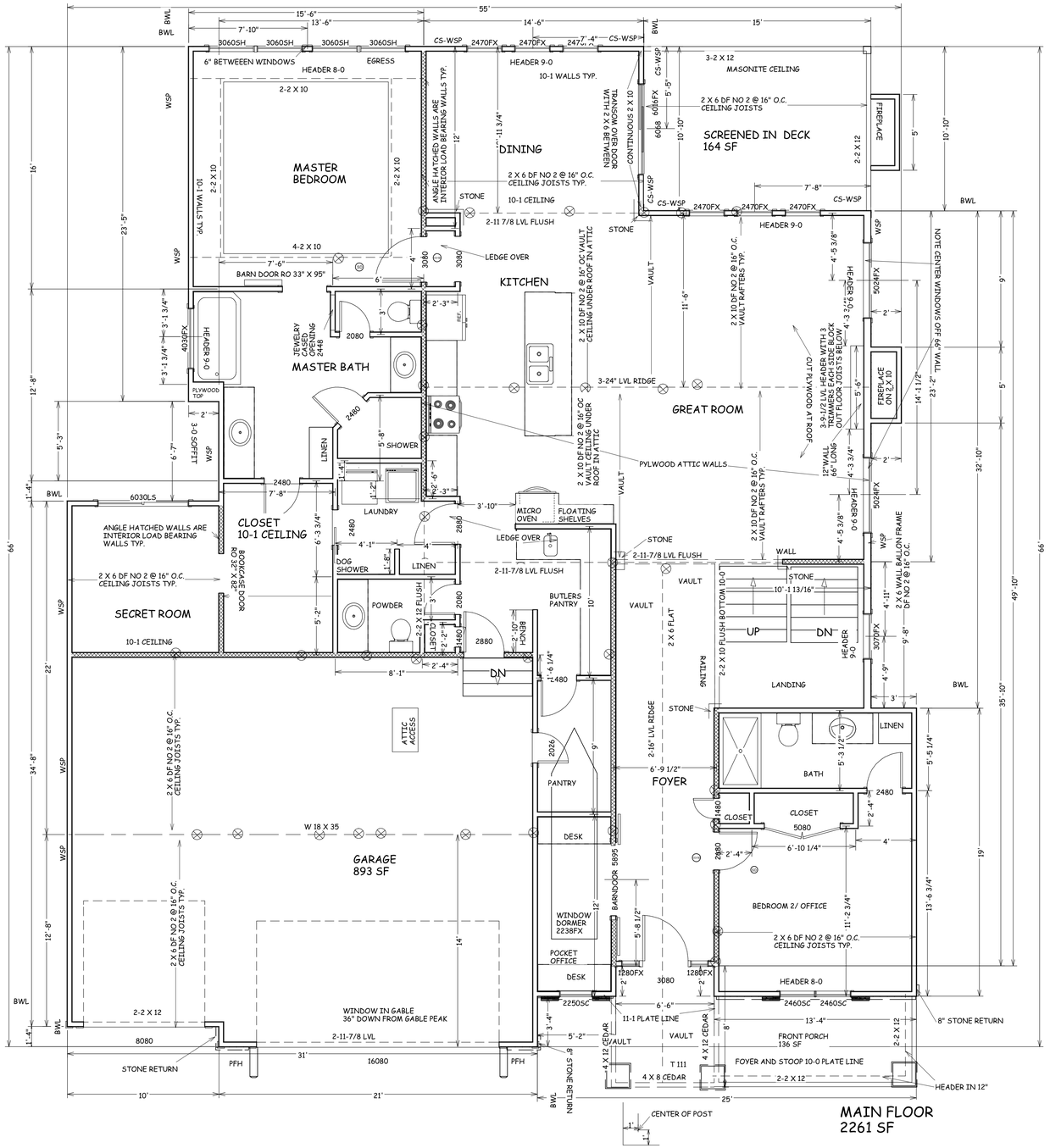
SHEET NO.
3 OF 6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/29/2021

TYPICAL EXTERIOR CORNER FILE CORNER WITH STUDS



LADDER BLOCK WHERE INTERIOR WALLS INTERSECT WITH EXTERIOR WALLS



BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

TRUMARK HOMES
KYLE VI
ELEVATION B
LOT 78 WOODSIDE RESERVE
325 NW AMBERSHAM DR
LEE SUMMIT MO

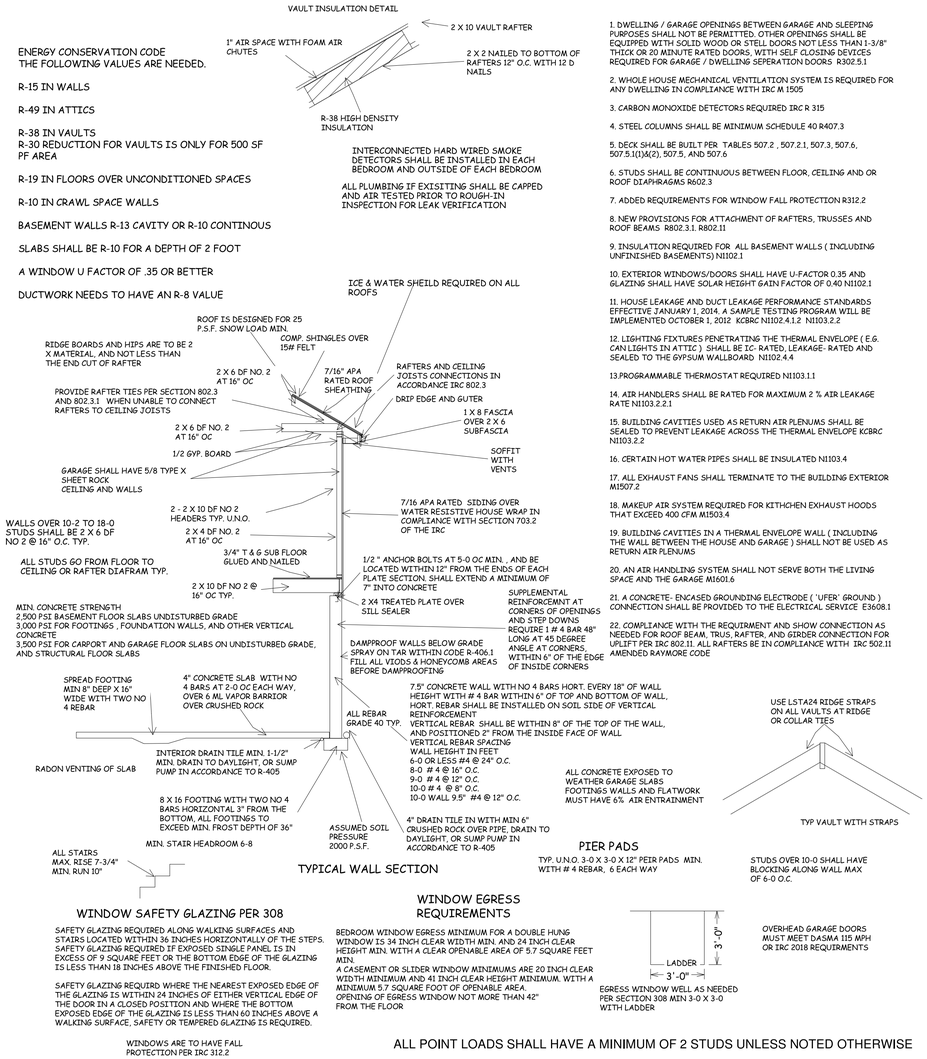
SCALE
1/4" = 1-0

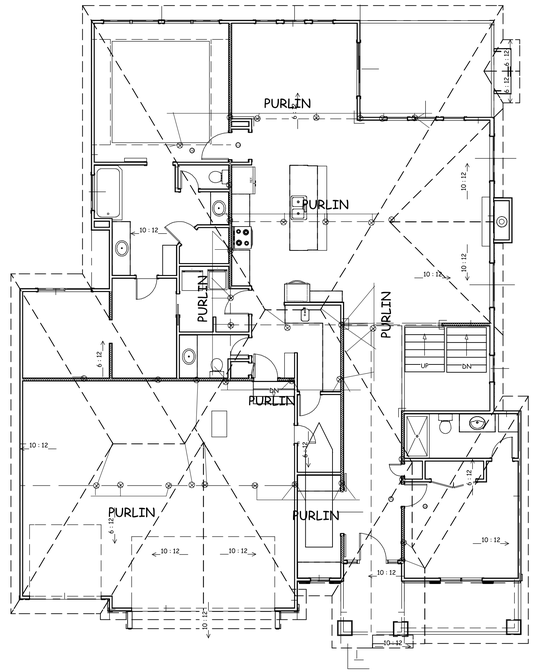
DATE
12-6-20

PLAN NO.
3320

SHEET NO.
4 OF 6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/29/2021





VAULT INSULATION DETAIL

ENERGY CONSERVATION CODE
THE FOLLOWING VALUES ARE NEEDED.

R-15 IN WALLS

R-49 IN ATTICS

R-38 IN VAULTS
R-30 REDUCTION FOR VAULTS IS ONLY FOR 500 SF PF AREA

R-19 IN FLOORS OVER UNCONDITIONED SPACES

R-10 IN CRAWL SPACE WALLS

BASEMENT WALLS R-13 CAVITY OR R-10 CONTINOUS

SLABS SHALL BE R-10 FOR A DEPTH OF 2 FOOT

A WINDOW U FACTOR OF .35 OR BETTER

DUCTWORK NEEDS TO HAVE AN R-8 VALUE

INTERCONNECTED HARD WIRED SMOKE DETECTORS SHALL BE INSTALLED IN EACH BEDROOM AND OUTSIDE OF EACH BEDROOM

ALL PLUMBING IF EXISITING SHALL BE CAPPED AND AIR TESTED PRIOR TO ROUGH-IN INSPECTION FOR LEAK VERIFICATION

ICE & WATER SHEILD REQUIRED ON ALL ROOFS

ROOF IS DESIGNED FOR 25 P.S.F. SNOW LOAD MIN.

COMP. SHINGLES OVER 15# FELT

RIDGE BOARDS AND HIPS ARE TO BE 2 X MATERIAL, AND NOT LESS THAN THE END CUT OF RAFTER

2 X 6 DF NO. 2 AT 16" OC

7/16" APA RATED ROOF SHEATHING

RAFTERS AND CEILING JOISTS CONNECTIONS IN ACCORDANCE IRC 802.3

PROVIDE RAFTER TIES PER SECTION 802.3 AND 802.3.1 WHEN UNABLE TO CONNECT RAFTERS TO CEILING JOISTS

DRIP EDGE AND GUTER

1 X 8 FASCIA OVER 2 X 6 SUBFASCIA

2 X 6 DF NO. 2 AT 16" OC

1/2 GYP. BOARD

SOFFIT WITH VENTS

GARAGE SHALL HAVE 5/8 TYPE X SHEET ROCK CEILING AND WALLS

2 - 2 X 10 DF NO 2 HEADERS TYP. U.N.O.

7/16 APA RATED SIDING OVER WATER RESISTIVE HOUSE WRAP IN COMPLIANCE WITH SECTION 703.2 OF THE IRC

WALLS OVER 10-2 TO 18-0 STUDS SHALL BE 2 X 6 DF NO 2 @ 16" O.C. TYP.

2 X 4 DF NO. 2 AT 16" OC

3/4" T & G SUB FLOOR GLUED AND NAILED

ALL STUDS GO FROM FLOOR TO CEILING OR RAFTER DIAFRAM TYP.

1/2 " ANCHOR BOLTS AT 5-0 OC MIN. , AND BE LOCATED WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. SHALL EXTEND A MINIMUM OF 7" INTO CONCRETE

2 X 10 DF NO 2 @ 16" OC TYP.

2 X4 TREATED PLATE OVER SILL SEALER

SUPPLEMENTAL REINFORCEMNT AT CORNERS OF OPENINGS AND STEP DOWNS REQUIRE 1 # 4 BAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS, WITHIN 6" OF THE EDGE OF INSIDE CORNERS

MIN. CONCRETE STRENGTH
2,500 PSI BASEMENT FLOOR SLABS UNDISTURBED GRADE
3,000 PSI FOR FOOTINGS , FOUNDATION WALLS, AND OTHER VERTICAL CONCRETE
3,500 PSI FOR CARPORT AND GARAGE FLOOR SLABS ON UNDISTURBED GRADE, AND STRUCTURAL FLOOR SLABS

DAMPPROOF WALLS BELOW GRADE SPRAY ON TAR WITHIN CODE R-406.1 FILL ALL VIODS & HONEYCOMB AREAS BEFORE DAMPPROOFING

SPREAD FOOTING MIN 8" DEEP X 16" WIDE WITH TWO NO 4 REBAR

4" CONCRETE SLAB WITH NO 4 BARS AT 2-0 OC EACH WAY, OVER 6 ML VAPOR BARRIOR OVER CRUSHED ROCK

ALL REBAR GRADE 40 TYP.

7.5" CONCRETE WALL WITH NO 4 BARS HORT. EVERY 18" OF WALL HEIGHT WITH # 4 BAR WITHIN 6" OF TOP AND BOTTOM OF WALL, HORT. REBAR SHALL BE INSTALLED ON SOIL SIDE OF VERTICAL REINFORCEMENT
VERTICAL REBAR SHALL BE WITHIN 8" OF THE TOP OF THE WALL, AND POSITIONED 2" FROM THE INSIDE FACE OF WALL
VERTICAL REBAR SPACING
WALL HEIGHT IN FEET
6-0 OR LESS #4 @ 24" O.C.
8-0 # 4 @ 16" O.C.
9-0 # 4 @ 12" O.C.
10-0 # 4 @ 8" O.C.
10-0 WALL 9.5" #4 @ 12" O.C.

INTERIOR DRAIN TILE MIN. 1-1/2" MIN. DRAIN TO DAYLIGHT, OR SUMP PUMP IN ACCORDANCE TO R-405

RADON VENTING OF SLAB

8 X 16 FOOTING WITH TWO NO 4 BARS HORIZONTAL 3" FROM THE BOTTOM, ALL FOOTINGS TO EXCEED MIN. FROST DEPTH OF 36"

ASSUMED SOIL PRESSURE 2000 P.S.F.

4" DRAIN TILE IN WITH MIN 6" CRUSHED ROCK OVER PIPE, DRAIN TO DAYLIGHT, OR SUMP PUMP IN ACCORDANCE TO R-405

MIN. STAIR HEADROOM 6-8

ALL STAIRS MAX. RISE 7-3/4" MIN. RUN 10"

TYPICAL WALL SECTION

1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE EQUIPPED WITH SOLID WOOD OR STELL DOORS NOT LESS THAN 1-3/8" THICK OR 20 MINUTE RATED DOORS, WITH SELF CLOSING DEVICES REQUIRED FOR GARAGE / DWELLING SEPERATION DOORS R302.5.1

2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS REQUIRED FOR ANY DWELLING IN COMPLIANCE WITH IRC M 1505

3. CARBON MONOXIDE DETECTORS REQUIRED IRC R 315

4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3

5. DECK SHALL BE BUILT PER TABLES 507.2 , 507.2.1, 507.3, 507.6, 507.5.1(1)&(2), 507.5, AND 507.6

6. STUDS SHALL BE CONTINUOUS BETWEEN FLOOR, CEILING AND OR ROOF DIAPHRAGMS R602.3

7. ADDED REQUIREMENTS FOR WINDOW FALL PROTECTION R312.2

8. NEW PROVISIONS FOR ATTACHMENT OF RAFTERS, TRUSSES AND ROOF BEAMS R802.3.1. R802.11

9. INSULATION REQUIRED FOR ALL BASEMENT WALLS (INCLUDING UNFINISHED BASEMENTS) N1102.1

10. EXTERIOR WINDOWS/DOORS SHALL HAVE U-FACTOR 0.35 AND GLAZING SHALL HAVE SOLAR HEIGHT GAIN FACTOR OF 0.40 N1102.1

11. HOUSE LEAKAGE AND DUCT LEAKAGE PERFORMANCE STANDARDS EFFECTIVE JANUARY 1, 2014. A SAMPLE TESTING PROGRAM WILL BE IMPLEMENTED OCTOBER 1, 2012 KCBRC N1102.4.1.2 N1103.2.2

12. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE (E.G. CAN LIGHTS IN ATTIC) SHALL BE IC- RATED, LEAKAGE- RATED AND SEALED TO THE GYPSUM WALLBOARD N1102.4.4

13.PROGRAMMABLE THERMOSTAT REQUIRED N1103.1.1

14. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2 % AIR LEAKAGE RATE N1103.2.2.1

15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC N1103.2.2

16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4

17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR M1507.2

18. MAKEUP AIR SYSTEM REQUIRED FOR KITHCHEN EXHAUST HOODS THAT EXCEED 400 CFM M1503.4

19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL (INCLUDING THE WALL BETWEEN THE HOUSE AND GARAGE) SHALL NOT BE USED AS RETURN AIR PLENUMS

20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE M1601.6

21. A CONCRETE- ENCASED GROUNDING ELECTRODE ('UFER' GROUND) CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE E3608.1

22. COMPLIANCE WITH THE REQUIRMENT AND SHOW CONNECTION AS NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR UPLIFT PER IRC 802.11. ALL RAFTERS BE IN COMPLIANCE WITH IRC 502.11 AMENDED RAYMORE CODE

ALL CONCRETE EXPOSED TO WEATHER GARAGE SLABS FOOTINGS WALLS AND FLATWORK MUST HAVE 6% AIR ENTRAINMENT

USE LSTA24 RIDGE STRAPS ON ALL VAULTS AT RIDGE OR COLLAR TIES

TYP VAULT WITH STRAPS

PIER PADS

TYP. U.N.O. 3-0 X 3-0 X 12" PEIR PADS MIN. WITH # 4 REBAR, 6 EACH WAY

STUDS OVER 10-0 SHALL HAVE BLOCKING ALONG WALL MAX OF 6-0 O.C.

WINDOW SAFETY GLAZING PER 308

SAFETY GLAZING REQUIRED ALONG WALKING SURFACES AND STAIRS LOCATED WITHIN 36 INCHES HORIZONTALLY OF THE STEPS. SAFETY GLAZING REQUIRED IF EXPOSED SINGLE PANEL IS IN EXCESS OF 9 SQUARE FEET OR THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FINISHED FLOOR.

SAFETY GLAZING REQUIRD WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN 24 INCHES OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE, SAFETY OR TEMPERED GLAZING IS REQUIRED.

WINDOWS ARE TO HAVE FALL PROTECTION PER IRC 312.2

WINDOW EGRESS REQUIREMENTS

BEDROOM WINDOW EGRESS MINIMUM FOR A DOUBLE HUNG WINDOW IS 34 INCH CLEAR WIDTH MIN. AND 24 INCH CLEAR HEIGHT MIN. WITH A CLEAR OPENABLE AREA OF 5.7 SQUARE FEET MIN.
A CASEMENT OR SLIDER WINDOW MINIMUMS ARE 20 INCH CLEAR WIDTH MINIMUM AND 41 INCH CLEAR HEIGHT MINIMUM. WITH A MINIMUM 5.7 SQUARE FOOT OF OPENABLE AREA.
OPENING OF EGRESS WINDOW NOT MORE THAN 42" FROM THE FLOOR

EGRESS WINDOW WELL AS NEEDED PER SECTION 308 MIN 3-0 X 3-0 WITH LADDER

OVERHEAD GARAGE DOORS MUST MEET DASMA 115 MPH OR IRC 2018 REQUIRMENTS

ALL POINT LOADS SHALL HAVE A MINIMUM OF 2 STUDS UNLESS NOTED OTHERWISE

PURLIN PLAN
1/8" = 1-0
RAFTER SPAN MAX. 14-0

BUILD IN ACCORDANCE WITH
2018 INTERNATIONAL
RESIDENTIAL CODE AND
LOCAL CODES.

TRUMARK HOMES
KYLE VI
ELEVATION B
LOT 78 WOODSIDE RESERVE
325 NW AMBERSHAM DR
LEE SUMMIT MO

12-9-20

SCALE
1/4" = 1-0

DATE
12-6-20

PLAN NO.
3320

SHEET NO.
5 OF 6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/29/2021

TABLE R602.10.3(1)
BRACING REQUIREMENTS BASED ON WIND SPEED

- EXPOSURE CATEGORY B
- 30-FOOT MEAN ROOF HEIGHT
- 10-FOOT WALL HEIGHT
- 2 BRACED WALL LINES

Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing[c] (feet)	MINIMUM TOTAL LENGTH (FEET) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE[a] — Method LIB[b]	Method GB	Methods DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB	Methods CS-WSP, CS-G, CS-PF
≤ 115	(top story)	10	3.5	3.5	2.0	2.0
		20	6.5	6.5	3.5	3.5
		30	9.5	9.5	5.5	4.5
		40	12.5	12.5	7.0	6.0
		50	15.0	15.0	9.0	7.5
		60	18.0	18.0	10.5	9.0
	(middle story)	10	7.0	7.0	4.0	3.5
		20	12.5	12.5	7.5	6.5
		30	18.0	18.0	10.5	9.0
		40	23.5	23.5	13.5	11.5
		50	29.0	29.0	16.5	14.0
		60	34.5	34.5	20.0	17.0
	(bottom story)	10	NP	10.0	6.0	5.0
		20	NP	18.5	11.0	9.0
		30	NP	27.0	15.5	13.0
		40	NP	35.0	20.0	17.0
		50	NP	43.0	24.5	21.0
		60	NP	51.0	29.0	25.0

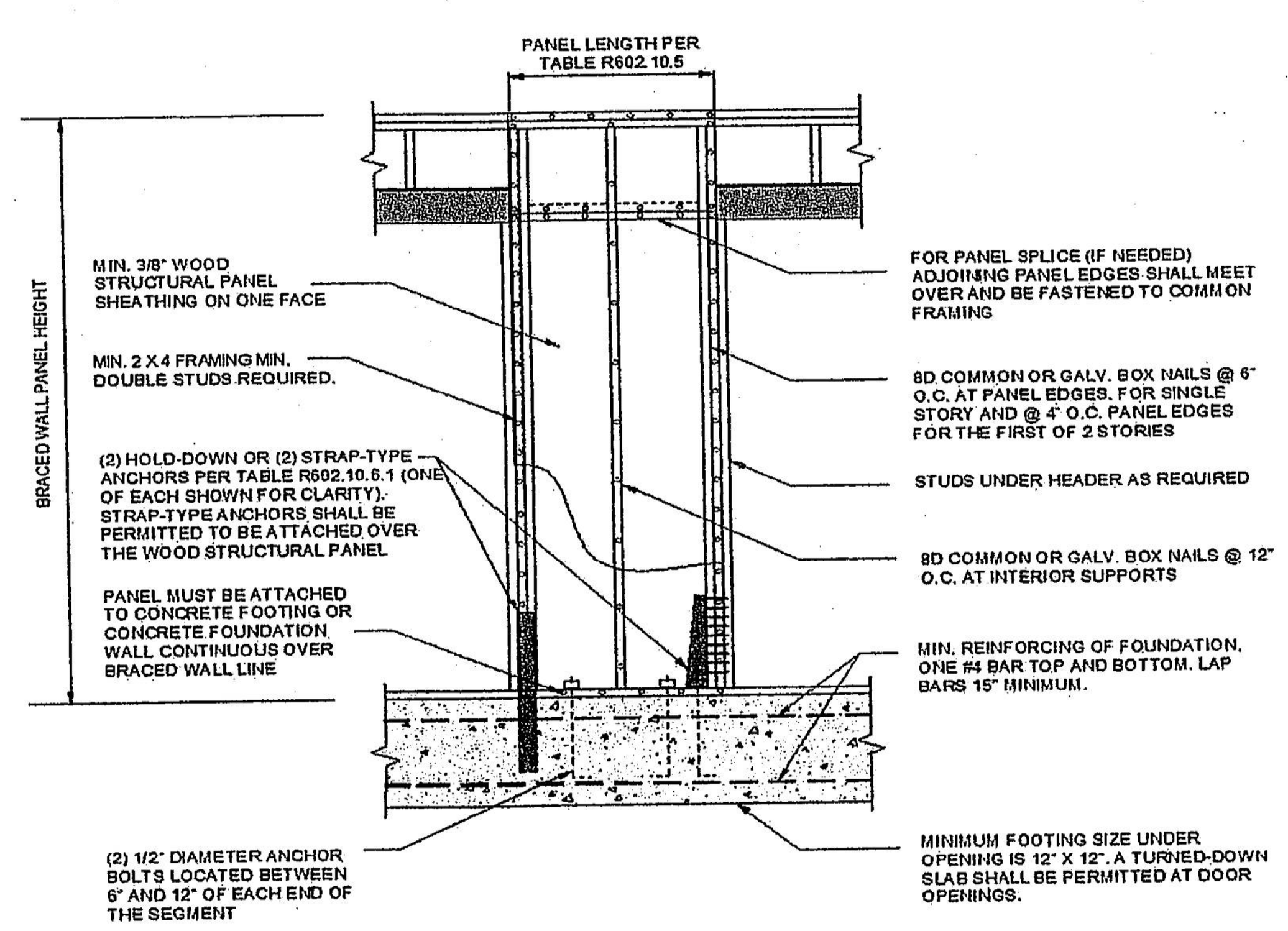
TABLE R602.10.4
BRACING METHODS

	METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA[a] — Fasteners	Spacing
Intermittent Bracing Methods	**LIB** Let-in-bracing	1 × 4 wood or approved metal straps at 45° to 60° angles for maximum 16″ stud spacing		Wood: 2-8d common nails or 3-8d ($2^1/_2$″ long x 0.113″ dia.) nails	Wood: per stud and top and bottom plates
				Metal strap: per manufacturer	Metal: per manufacturer
	DWB Diagonal wood boards	$^3/_4$″ (1″ nominal) for maximum 24″ stud spacing		2-8d ($2^1/_2$″ long × 0.113″ dia.) nails or 2 - $1^3/_4$″ long staples	Per stud
	WSP Wood structural panel (See Section R604)	$^3/_8$″		Exterior sheathing per Table R602.3(3)	6″ edges 12″ field
				Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	BV-WSP[e] Wood structural panels with stone or masonry veneer (See Section R602.10.6.5)	$^7/_{16}$″	See Figure R602.10.6.5	8d common ($2^1/_2$″ × 0.131) nails	4″ at panel edges 12″ at intermediate supports 4″ at braced wall panel end posts
	SFB Structural fiberboard sheathing	$^1/_2$″ or $^{25}/_{32}$″ for maximum 16″ stud spacing		$1^1/_2$″ long × 0.12″ dia. (for $^1/_2$″ thick sheathing) $1^3/_4$″ long × 0.12″ dia. (for $^{25}/_{32}$″ thick sheathing) galvanized roofing nails	3″ edges 6″ field
	GB Gypsum board	$^1/_2$″		Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7″ edges (including top and bottom plates) 7″ field
				Nails or screws per Table R702.3.5 for interior locations	
	PBS Particleboard sheathing (See Section R605)	$^3/_8$″ or $^1/_2$″ for maximum 16″ stud spacing		For $^3/_8$″, 6d common (2″ long × 0.113″ dia.) nails For $^1/_2$″, 8d common ($2^1/_2$″ long × 0.131″ dia.) nails	3″ edges 6″ field
	PCP Portland cement plaster	See Section R703.7 for maximum 16″ stud spacing		$1^1/_2$″ long, 11 gage, $^7/_{16}$″ dia. head nails or $^7/_8$″ long, 16 gage staples	6″ o.c. on all framing members
	HPS Hardboard panel siding	$^7/_{16}$″ for maximum 16″ stud spacing		0.092″ dia., 0.225″ dia. head nails with length to accommodate $1^1/_2$″ penetration into studs	4″ edges 8″ field
	ABW Alternate braced wall	$^3/_8$″		See Section R602.10.6.1	See Section R602.10.6.1

TABLE R602.10.4—continued
BRACING METHODS

	METHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA[a] — Fasteners	Spacing
Intermittent Bracing Methods	**PFH** Portal frame with hold-downs	$^3/_8$″		See Section R602.10.6.2	See Section R602.10.6.2
	PFG Portal frame at garage	$^7/_{16}$″		See Section R602.10.6.3	See Section R602.10.6.3
Continuous Sheathing Methods	**CS-WSP** Continuously sheathed wood structural panel	$^3/_8$″		Exterior sheathing per Table R602.3(3)	6″ edges 12″ field
				Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener
	CS-G[b,c] Continuously sheathed wood structural panel adjacent to garage openings	$^3/_8$″		See Method CS-WSP	See Method CS-WSP
	CS-PF Continuously sheathed portal frame	$^7/_{16}$″		See Section R602.10.6.4	See Section R602.10.6.4
	CS-SFB[d] Continuously sheathed structural fiberboard	$^1/_2$″ or $^{25}/_{32}$″ for maximum 16″ stud spacing		$1^1/_2$″ long × 0.12″ dia. (for $^1/_2$″ thick sheathing) $1^3/_4$″ long × 0.12″ dia. (for $^{25}/_{32}$″ thick sheathing) galvanized roofing nails	3″ edges 6″ field

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m², 1 mile per hour = 0.447 m/s.
a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D_0, D_1 and D_2.
b. Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D_0, D_1 and D_2 roof covering dead load shall not exceed 3 psf.
c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R602.7(1). A full-height clear opening shall not be permitted adjacent to a Method CS-G panel.
d. Method CS-SFB does not apply in Seismic Design Categories D_0, D_1 and D_2.
e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D_0 through D_2 only.



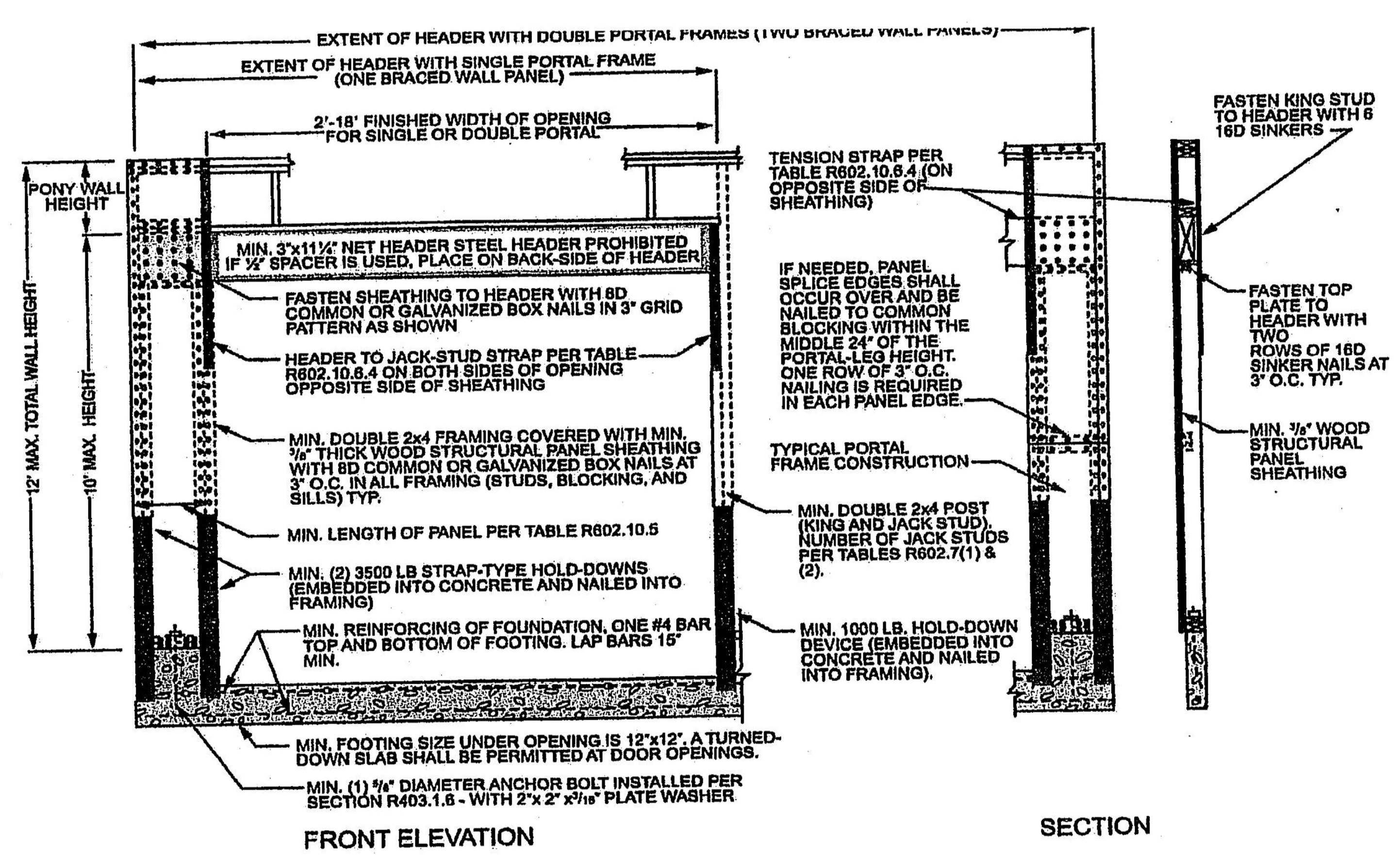
25.4 mm.

FIGURE R602.10.6.1
METHOD ABW—ALTERNATE BRACED WALL PANEL

TABLE R602.10.5
MINIMUM LENGTH OF BRACED WALL PANELS

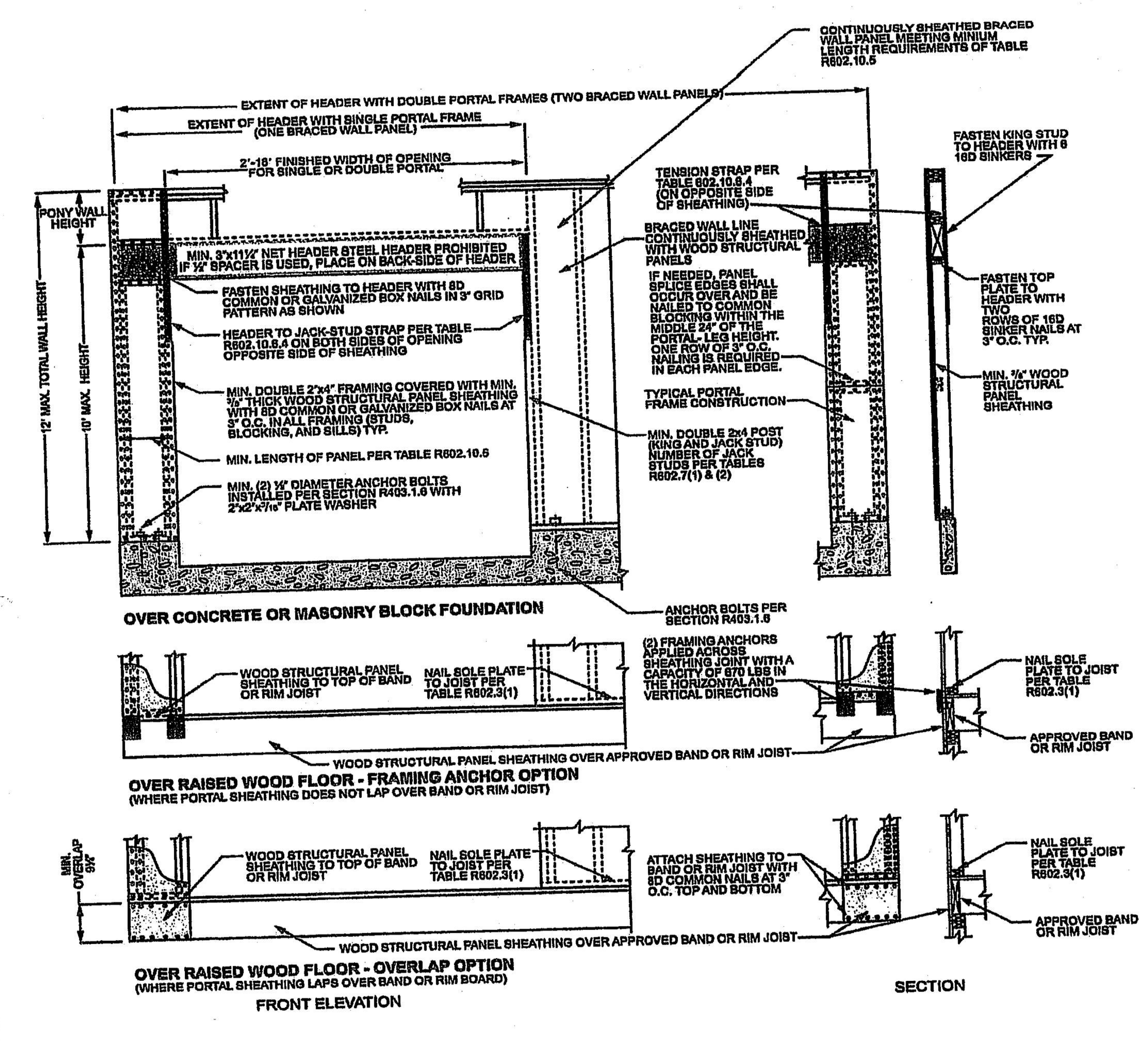
METHOD (See Table R602.10.4)		MINIMUM LENGTH[a] (inches) Wall Height: 8 feet	9 feet	10 feet	11 feet	12 feet	CONTRIBUTING LENGTH (inches)
DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP		48	48	48	53	58	Actual[b]
GB		48	48	48	53	58	Double sided = Actual Single sided = 0.5 × Actual
LIB		55	62	69	NP	NP	Actual[b]
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48
	SDC D_0, D_1 and D_2, ultimate design wind speed < 140 mph	32	32	34	NP	NP	
CS-G		24	27	30	33	36	Actual[b]
CS-WSP, CS-SFB	Adjacent clear opening height (inches)						Actual[b]
	≤ 64	24	27	30	33	36	
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
	100	—	44	40	38	38	
	104	—	49	43	40	39	
	108	—	54	46	43	41	
	112	—	—	50	45	43	
	116	—	—	55	48	45	
	120	—	—	60	52	48	
	124	—	—	—	56	51	
	128	—	—	—	61	54	
	132	—	—	—	66	58	
	136	—	—	—	—	62	
	140	—	—	—	—	66	
	144	—	—	—	—	72	
METHOD (See Table R602.10.4)		Portal header height: 8 feet	9 feet	10 feet	11 feet	12 feet	
PFH	Supporting roof only	16	16	16	Note c	Note c	48
	Supporting one story and roof	24	24	24	Note c	Note c	
PFG		24	27	30	Note d	Note d	1.5 × Actual[b]
CS-PF	SDC A, B and C	16	18	20	Note e	Note e	1.5 × Actual[b]
	SDC D_0, D_1 and D_2	16	18	20	Note e	Note e	Actual[b]

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.
NP = Not Permitted.
a. Linear interpolation shall be permitted.
b. Use the actual length where it is greater than or equal to the minimum length.
c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.
d. Maximum header height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.
e. Maximum header height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with pony wall.



4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4
METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

BRACE WALL DETAILS
WIND SPEED 115 MPH
WIND EXPOSURE A
SEISMIC DESIGN CAEGORY A

12-9-20

BUILD IN ACCORDANCE WITH 2018 INTERNATIONAL RESIDENTIAL CODE AND LOCAL CODES.

TRUMARK HOMES
KYLE VI
ELEVATION B
LOT 78 WOODSIDE RESERVE
325 NW AMBERSHAM DR
LEE SUMMIT MO

SCALE
1/4" = 1-0

DATE
12-6-20

PLAN NO.
3320

SHEET NO.
6 OF 6