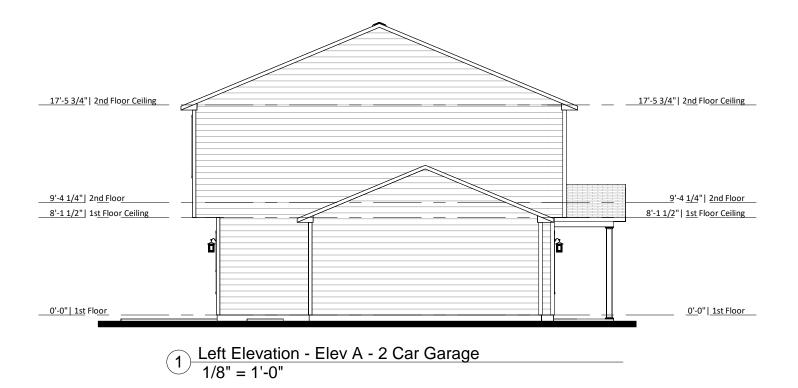
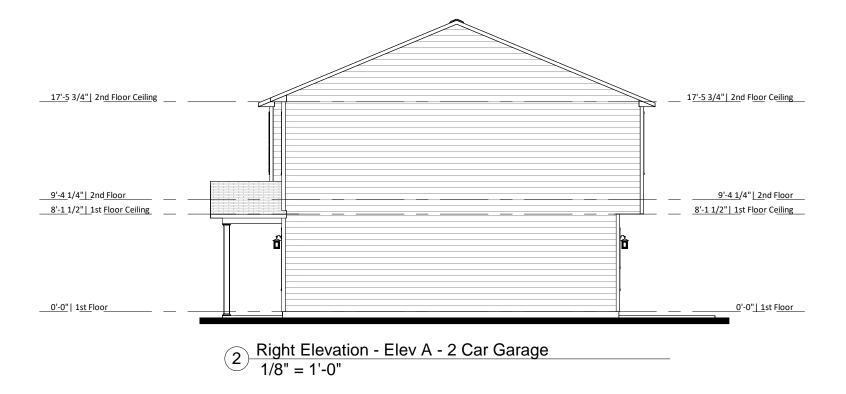


Elevation A 2 Car - Sheet List				
Sheet Number	Sheet Name			
ElevA-2Car-Pg1	Front & Rear Elevations			
ElevA-2Car-Pg2	Side Elevations			
ElevA-2Car-Pg3	1st Floor Plan			
ElevA-2Car-Pg4	2nd Floor Plan			
ElevA-2Car-Pg5	Roof Plan			
ElevA-2Car-Pg6	Electrical & Flooring Plan			
Pg7	Interior Elevations			
Pg8	Slab Penetrations			

CONTRACTOR AND BUILDER SHALL REVIEW ENTIRE PLAN TO VENIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR COMSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH ALL APPLICABLE CODES IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR.					
	TOUD LT - EIEVAUIUN A ZUAR	Front & Rear Elevations			
Lot #:					
;# dol	Address:	Community:			
Last	Last Revision Date: 11-27-23				
Sheet #: ElevA-2Car-Pg1					

Area Schedule (Elev A 2Car)				
Area				
595 SF				
913 SF				
1508 SF				
73 SF				
438 SF				
511 SF				
2019 SF				



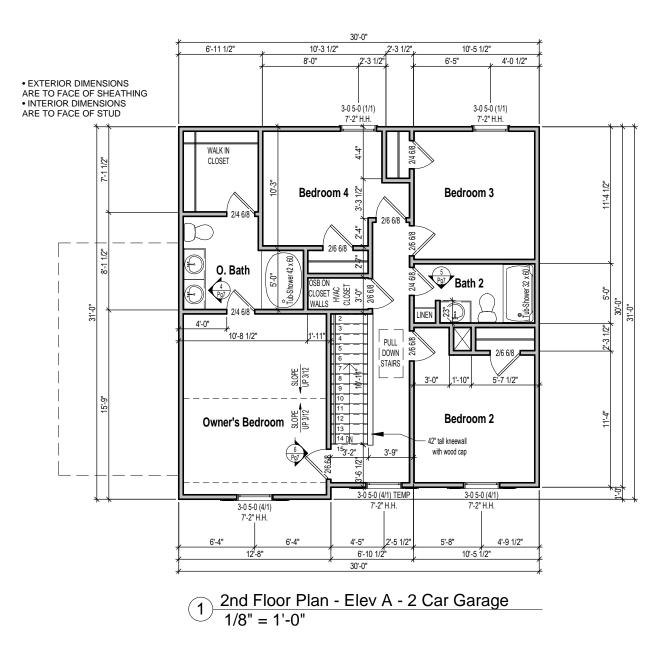


POP HOMES MAKING LIFE BETTER CONTRACTOR AND BUILDER SHALL REVIEW CONTRACTOR AND BUILDER SHALL REVIEW ENTIRE PLANT TO VERIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH ALL APPLICABLE CODES IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR. 1508 LH - Elevation A 2Car Side Elevations ġ ¢ dol Last Revision Date: 11-27-23 Sheet #: ElevA-2Car-Pg2

40'-0" 10'-0" 30'-0" 16'-1 1/2" 5'-10 1/2" 8'-0" 17'-4 1/2" 5'-9 1/2" , 3'-3 1/2" , 3'-6 1/2" • EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING • INTERIOR DIMENSIONS ARE TO FACE OF STUD 4'-0 1/2" 2'-4" 5'-10", 5'-2' -0-Patio Slab 3-0 5-0 (1/1) 6'-10 1/2" H.H. 2-8 3-2 (1/1) 6'-10 1/2" H.H. 2/8 6/8 Full Lt. '¢ Drop Zone Dish W 0 Washer Dryer Hookup Hookup \bigcirc 2/4 6/8 Kitchen In Mud Room ⊮ Laundry 6/8 Dining 12'-1" 6/8 3'-5 2/8 6/8 Fire Dr /0 6/8 Frig Hookup (7 Pg7 PANTRY DROPPED HVAC CHASE e'-0" Garage Family Room 15'-11" 14 % 6 Pg7 Pwdr -9ª 8' X 7' 3-0 5-0 (4/1) 3-0 5-0 (4/1) 6'-10 1/2" H.H. 6'-10 1/2" H.H. " 3'-6" 3'-6" 8' X 7' 3/0 6/8 5'-2" 4'-10" 6'-3 1/2" 6'-4" 5'-1" 2'-1 1/2" þ 14'-2 1/2" Covered Porch 12'-7 1/2" 15'-5" 14'-7" 10'-0" 30'-Ö" 40'-0" 1st Floor Plan - Elev A - 2 Car Garage 1/8" = 1'-0" 1

TABLE R302.6 Dwelling/Garage Separation				
Separation Material				
From the residence and attics	Not less than 1/2-inch gypsum board or equivalent applied to the garage side			
From all habitable rooms above the garage	Not less than 5% -inch Type X gypsum board or equivalent			
Structure(s) supporting floor-ceiling assemblies used for separation required by this section	Not less than ½-inch gypsum board or equivalent			

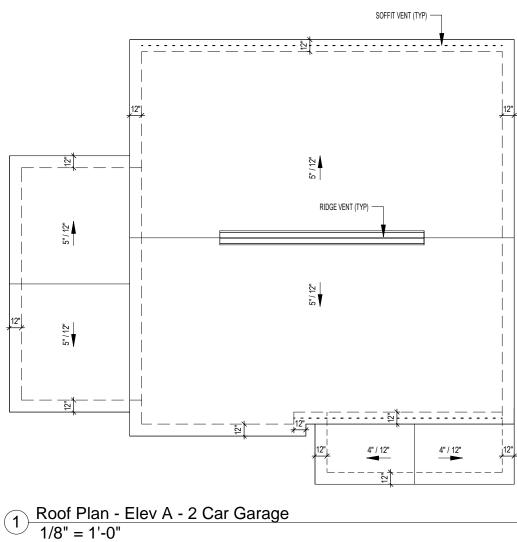
ENTIRE PLAI ALL CURREN TIME OF CO DRAWINGS UNDERSTOO APPLICABLE	CONTRACTOR AND BUILDER SHALL REVIEW EXTERPTION TO VERIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH AL APPLICABLE CODES IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR.					
	TONG LM - EIEVALIUTI A ZUAT	1st Floor Plan				
Lot #:						
:# dol	Address:	Community:				
Last	Last Revision Date: 11-27-23					
Sheet #: ElevA-2Car-Pg3						



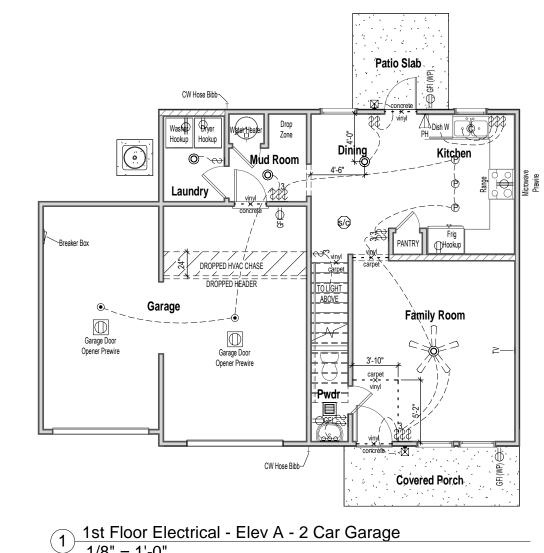
POP HOMES MAKING LIFE BETTER CONTRACTOR AND BUILDER SHALL REVIEW ENTIRE PLAN TO VERIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH ALL APPLICABLE CODES IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR. 1508 LH - Elevation A 2Car 2nd Floor Plan Lot)db # Com Last Revision Date: 11-27-23 Sheet #: ElevA-2Car-Pg4

Area Schedule (Attic Elev A)

		Ventilation	Max	Min	Upper	Lower	Total	Ridge	Roof	Soffit
		Required	Upper	Upper	Ventilation	Ventilation	Ventilation	Vent	Vents	Vents
Name	Area	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(sq.in.)	(In.ft.)	(ea)	(sq.ft.)
Main Roof	1039 SF	499	399	249	255	282	537	17	0	47

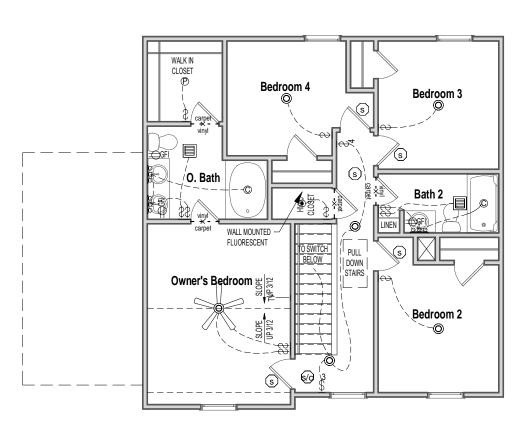


POP HOMES MAKING LIFE BETTER CONTRACTOR AND BUILDER SHALL REVIEW ENTIRE PLAN TO VERIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH ALL APPLICABLE CODES IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR. 1508 LH - Elevation A 2Car Roof Plan Lot)db # Com Last Revision Date: 11-27-23 Sheet #: ElevA-2Car-Pg5



ELECTRICAL LEGEND							
		WALL M	OUNTED FIXTURES			CEILING MOUN	ITED FIXTURES
	OUTLET - 110V		OUTLET - TV	φ	WALL LIGHT	GARAGE DOOR Garage Door OPENER PREWIRE Opener Prewire	S SMOKE DETECTOR
O GFI	OUTLET - 110V GROUND FAULT INTERRUPTER		OUTLET - PHONE		18" LIGHT BAR	C FLUSH MOUNT	SIC SMOKE DETECTOR/CO2
GEI (WP)	OUTLET - 110V GROUND FAULT INTERRUPTER WATER PROOF	\$	SWITCH - SINGLE POLE		COACH LIGHT - FRONT DOOR	© RECESSED CAN P RECESSED CANLESS	BATHROOM EXHAUST FAN
€	OUTLET - 220V		SWITCH - 3 WAY	A	COACH LIGHT - REAR DOOR		FLUSH MOUNT
	FLUORESCENT 1'X4' 2 LAMPS	\$	SWITCH - 4 WAY	۲	KEYLESS	W-FAN PREWIRE	W-FAN

Outlets shown on the electrical layout are in addition to the outlets that shall be provided in accordance with International Residential Code Sections E3901.2 through E3901.11.

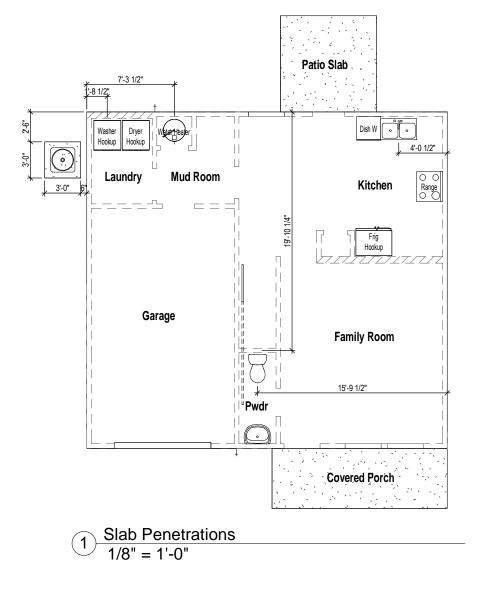


 $2 \frac{2 \text{ nd Floor Electrical - Elev A - 2 Car Garage}}{1/8" = 1'-0"}$

ENTIRE PL ALL CURRE TIME OF C DRAWING UNDERSTO APPLICABI	AN TO VERIFY ENT APPLICAE ONSTRUCTIO S FOR CONST DOD THAT CO	Der Shall Review CONFORMANCE WITH LE CODES IN EFFECT AT N. BY USING THESE NITORMANCE WITH ALL HE RESPONSIBILITY OF TRACTOR.	
	1508 LH - Elevation A 2Car	Electrical & Flooring Plan	
Lot #:			
## gor Las		sion Date: 7-23	
Sheet #: ElevA-2Car-Pg6			



REFER TO STRUCTURAL DRAWINGS FOR ALL FOUNDATION DIMENSIONS







THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

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(215) 804-4449

1508

NORTH CAROLINA

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'): • 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- FLOOR = 40 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK/BALCONY = 40 PSF
- STAIRS = 40 PSF

DESIGN DEAD LOADS:

- ROOF TRUSS = 17 PSF (TC=7, BC=10)
- FLOOR TRUSS = 15 PSF (TC=10, BC=5)
- FLOOR JOIST = 10 PSF
- STANDARD BRICK = 40 PSF
- QUEEN ANNE BRICK = 25 PSF

NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS..

DESIGN WIND LOADS:

 ULTIMATE WIND SPEED = 115 MPH • EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

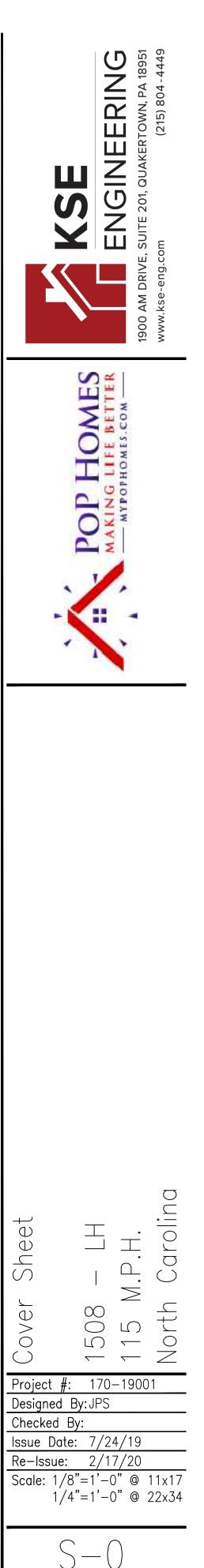
ASSUMED LATERAL SOIL PRESSURE = 45 PCF

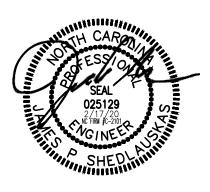
FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES: BCI 4500s SERIES (SERIES AND SPACING PER PLANS) • LVL: E=2,000,000 PSI, F_B =3,100 PSI, F_V =285 PSI, F_C =750 PSI

 UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS) HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF





GENERAL STRUCTURAL NOTES:

- 1. THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT. THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE. NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
- THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE
- 3. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.
- 4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- 5. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
- VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- 7. THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- 9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED. 10. WATERPROOFING AND FLASHING BY OTHERS.

FOUNDATIONS:

- 1. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE
- 2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- 3. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
- 4. THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE PROCEEDING.
- 5. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
- 6. WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH $\frac{1}{3}$ " anchor bolts with minimum 7" embedment, spaced a maximum OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS. $\frac{1}{2}$ " DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS.
- 7. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.
- 8. EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
- 9. NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.
- 10. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
- 11. NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
- 12. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
- 13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS. 14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

CONCRETE & REINFORCING

- CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN. CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE
- REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS.
- AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS. NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE
- WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
- 5. CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
- CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
- 8. REINFORCING STEEL MAY EXTEND THROUGH A SAW CUT JOINT. 9. ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF W.W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY STANDARD.
- 10. POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT
- 11. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- 12. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315: "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
- 13. HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCEMENT.
- 14. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:
 - #4 BARS 30" LENGTH
 - #5 BARS 38" LENGTH
 - #6 BARS 45" LENGTH
- 15. WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KSE FOUNDATION DETAILS.
- 16. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 17. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER. NO ROCKS, CMU, CLAY TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING.
- 18. FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

MASONRY

- 1. ALL MASONRY SHALL CONFORM TO ASTM C-90, F'm=1500 PSI. ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=1500 PSI. ALL MORTAR SHALL BE RAFTER FRAMED ROOF CONSTRUCTION: TYPE 'S' (TYPE 'M' BELOW GRADE) AND CONFORM TO ASTM C-270. COARSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF ¾" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- 2. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ ASCE 6/TMS 602.
- 3. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
- 4. EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- 5. TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
- HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 7. SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L' SHAPED PIECES AT INTERSECTIONS AND CORNERS.

- WOOD FRAMING 1. SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO BE: SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES: E=1,400,000 PSI, $F_{b}=875$ PSI, $F_{v}=135$ PSI 1.1. FRAMING: SPF #2.
 - 1.2. PLATES: SPF #2.
 - 1.3. STUDS: SPF STUD GRADE.
- 2. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER.
- 3. ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES. 4. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- 5. NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- 6. BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
- 7. INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
- 8. FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLIES.
- 9. FASTEN 4-PLY BEAMS WITH (1) $\frac{1}{2}$ " DIAMETER THROUGH BOLT W/ NUT WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 1/2" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
- 10. ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED.
- 11. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. 24" O.C. STUD SPACING:
- <u>16" O.C. STUD SPACING:</u>
- (1) STUD UP TO 3' OPENING
- (1) STUD UP TO 4' OPENING (2) STUDS UP TO 4' OPENING
- (3) STUDS UP TO 8' OPENING
- (2) STUDS UP TO 8' OPENING (3) STUDS UP TO 12' OPENING

(4) STUDS UP TO 16' OPENING

- (5) STUDS UP TO 12' OPENING
- (6) STUDS UP TO 16' OPENING
- 12. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.
- 13. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- 14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED. 15. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE
- RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
- 16. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED
- 17. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR GYPSUM BOARD. BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.
- EXTERIOR WOOD FRAMED DECKS:
- 1. DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, EITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS. 2. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW
- PINE #2 OR BETTER. 3. GUARD RAILS AND LATERAL BRACING IS REQUIRED AT DECKS. DESIGN BY OTHERS.
- 4. PROVIDE DECK LATERAL LOAD CONNECTIONS PER BUILDING CODE.

- 1. PROVIDE 2x4x4'-0" RAFTER TIES AT 48" O.C.
- 2. RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES AS SHOWN ON THE PLAN. PURLIN BRACES SHALL NOT BEAR ON ANY CEILING JOIST, STRONGBACK OR HEADER UNLESS SPECIFICALLY SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS.
- 3. CEILING JOISTS SHALL HAVE LATERAL SUPPORT W/ 1x4 FLAT BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. FASTEN END OF BRACING TO RAFTER OR GABLE END FRAMING. 4. FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS
- OTHERWISE NOTED. 5. PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0"
- O.C. TIE STRONGBACK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS. FASTEN STRONGBACK TO 2x4 FLAT WITH 12d NAILS
- @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL.

- WOOD TRUSSES (FLOOR & ROOF):
- 1. THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- 2. THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO THE TRUSSES.
- 3. THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- 4. THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (BCSI). THIS BRACING, BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN ON THE SHOP DRAWINGS. ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCSI. THE CONTRACTOR SHALL KEEP A COPY OF THE BCSI SUMMARY SHEETS ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT 0.C. TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES MECHANICAL FASTENERS: BRACES. REFER TO BCSI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE. SUCH OR APPROVED EQUIVALENT. DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. 2. ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE DIAGONAL BRACES SHALL BE FASTENED TO EACH TRUSS WEB WITH A PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN MINIMUM OF TWO 10d FACE NAILS. WHERE CONTINUOUS LATERAL ACCORDANCE WITH ASTM A 153, G-185. BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE 3. MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTRACTOR SHALL THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE IS REQUIRED. APPLICABLE CORROSIVE CHEMICALS.
- 7. ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS. TRUSS PROFILES TO BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES.
- 10. PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

WOOD STRUCTURAL PANELS:

- 1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS.
- 2. ALL STRUCTURALLY REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE APA.
- 3. WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION. EXTERIOR WALLS TO BE FULLY SHEATHED USING $\frac{7}{6}$ " OSB MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.
- 4. ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE $\frac{7}{16}$ " OSB MINIMUM.
- 5. WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING.
- 6. SHEATHING SHALL HAVE A $\frac{1}{8}$ " GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

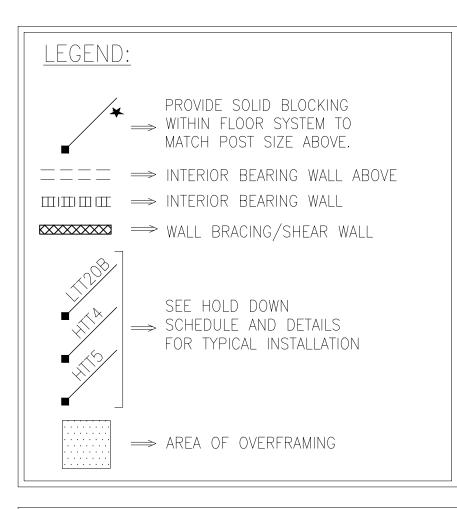
STRUCTURAL FIBERBOARD PANELS:

- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS. 2. FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD
- SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS
- FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- 4. SHEATHING SHALL HAVE A 1/2" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
- 2. ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F_v) of 50 KSI UNLESS OTHERWISE NOTED. 3. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA
- D1.1. ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS 4. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A
- MINIMUM BEARING LENGTH OF $3\frac{1}{2}$ " and full flange width unless OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) $\frac{1}{7}$ " x 4" LAG SCREWS UNLESS OTHERWISE NOTED.
- INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH. FASTEN PLATE TO BEAM W/ HILTI X-DNI 52 P8 PINS AT 12" O.C. STAGGERED OR $\frac{1}{2}$ " DIAMETER BOLTS AT 24"

1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE



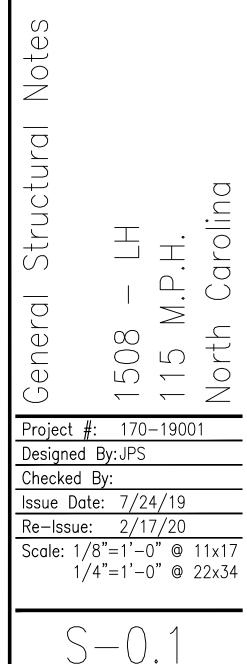
BRICK VENEER LINTEL SCHEDULE				
SPAN	LINTEL SIZE	END BEARING		
UP TO 3'-0"	3½"×3½"×¼"	4"		
UP TO 6'-3"	5"x3½"x5⁄16" L.L.V.	8"		
UP TO 9'-6"	6"×3½"×5⁄16" L.L.V.	12"		
LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS. SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.				

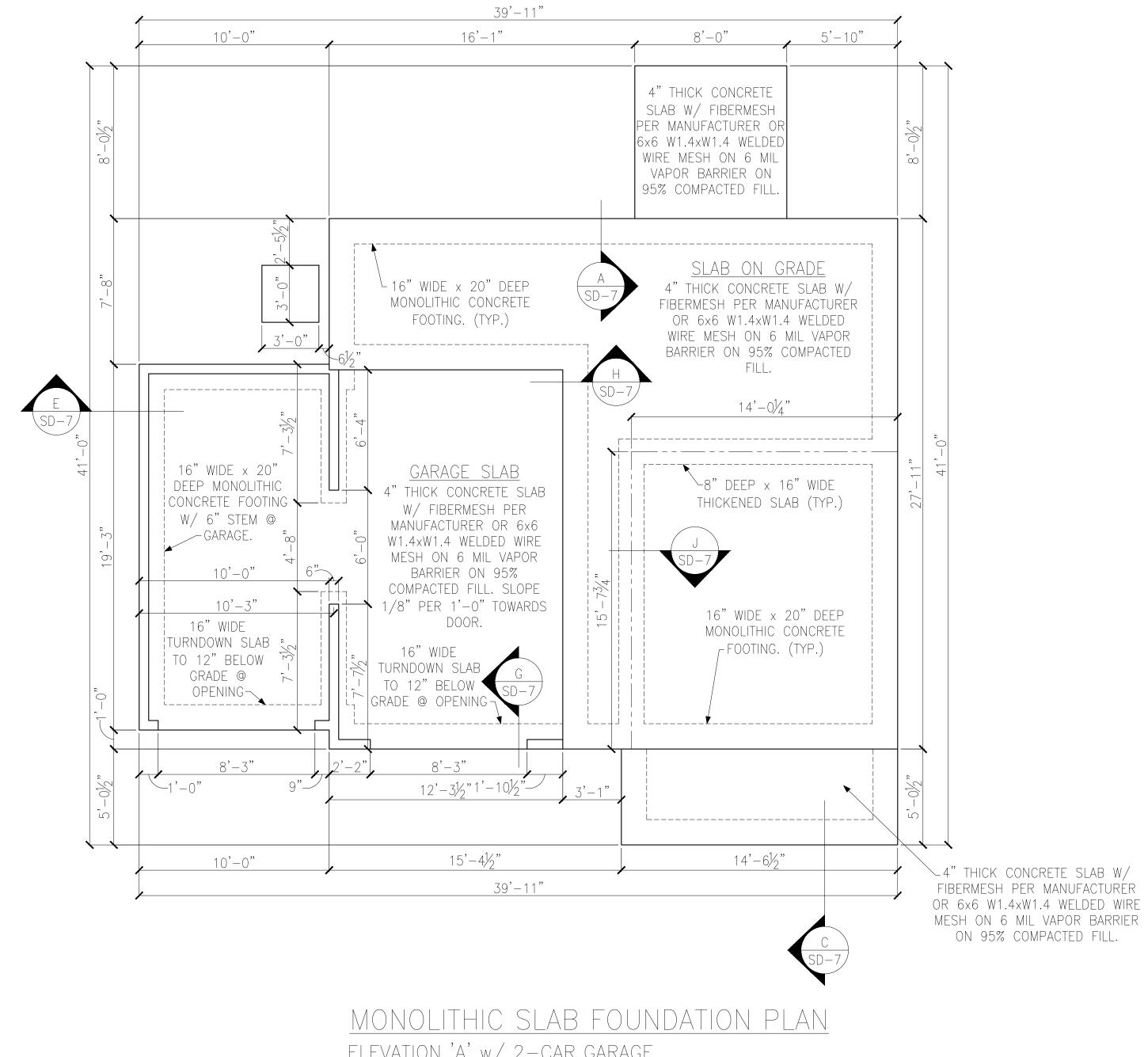


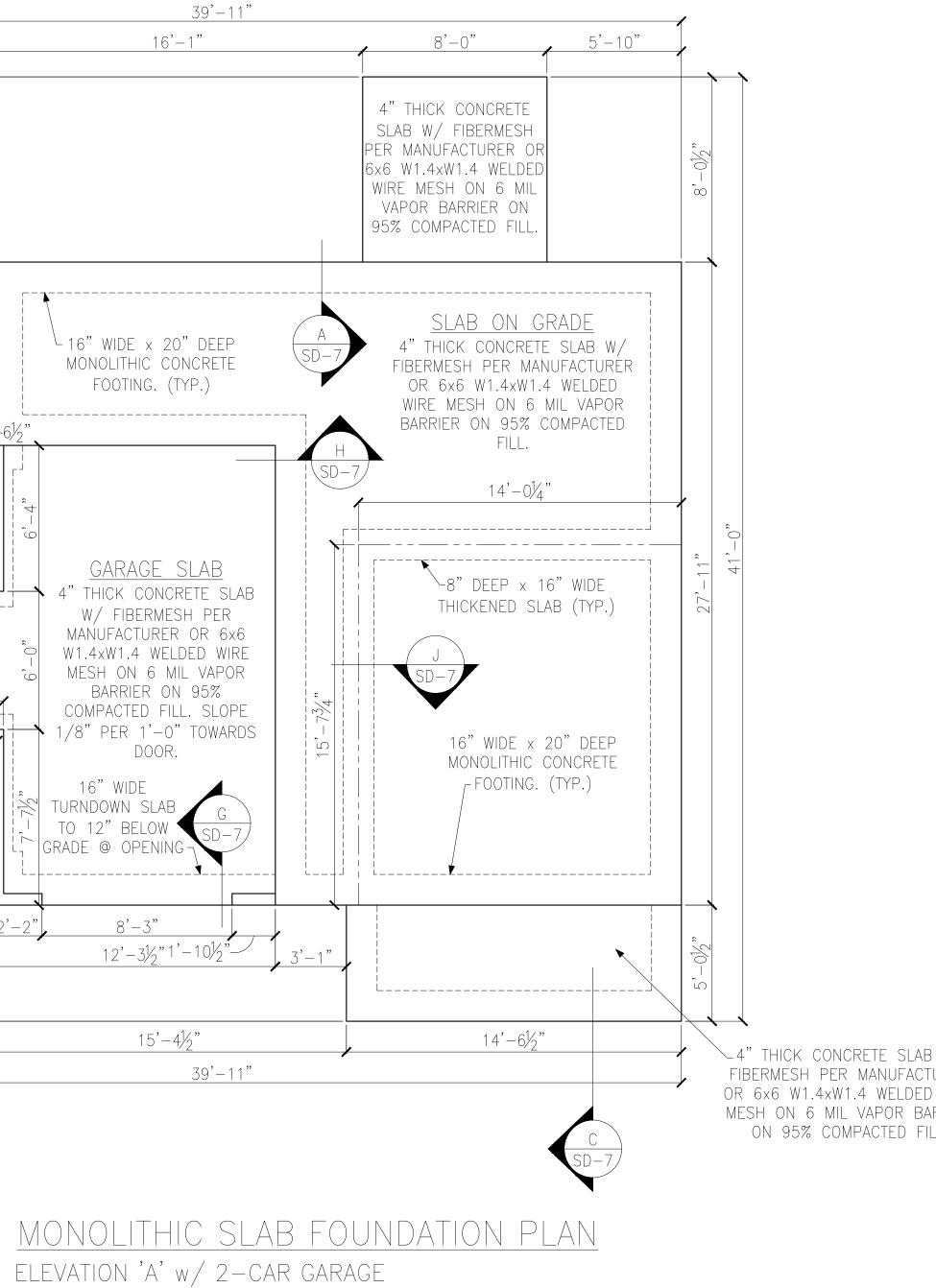


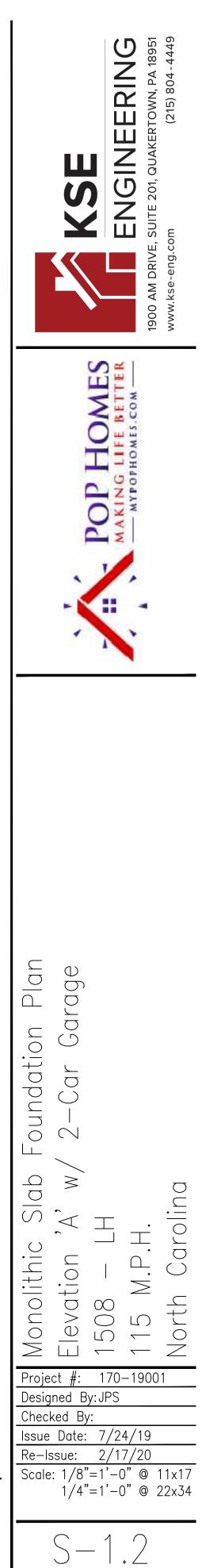
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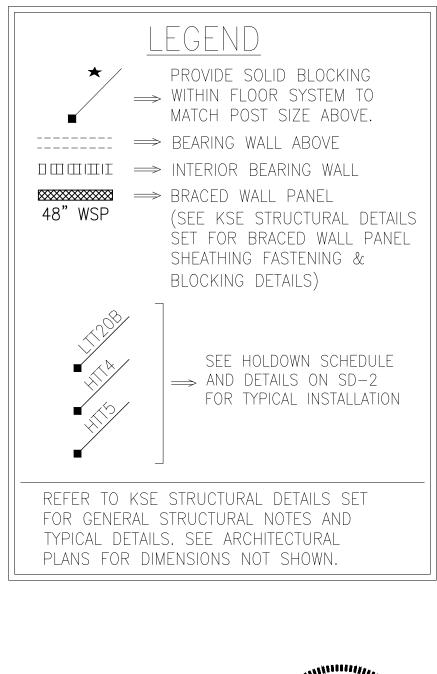
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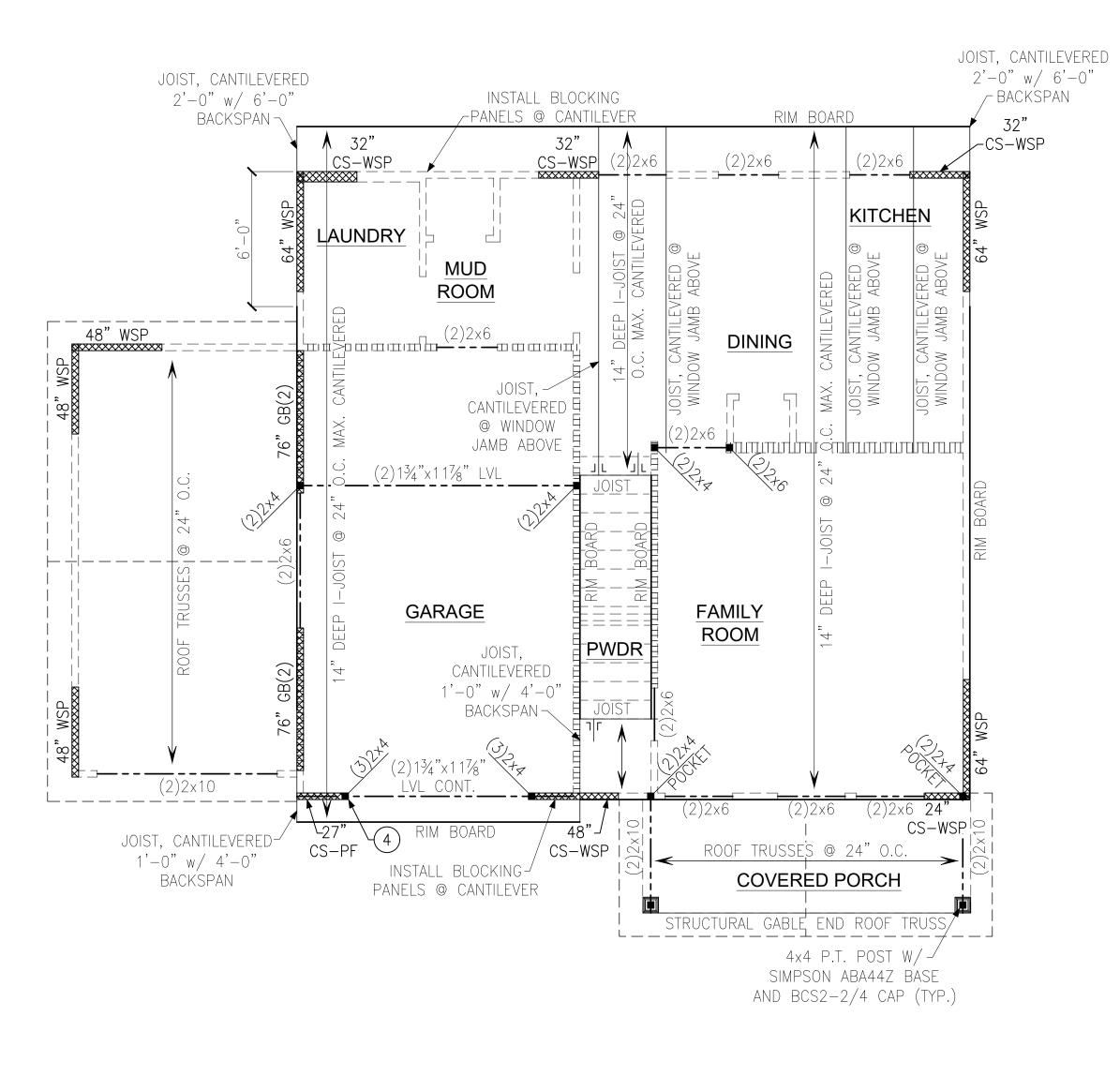








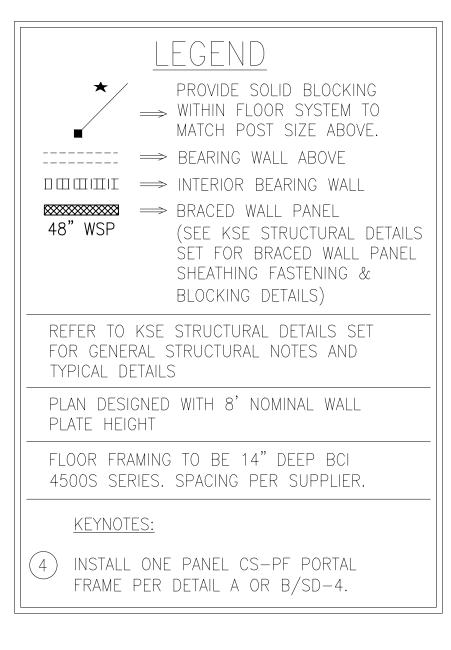




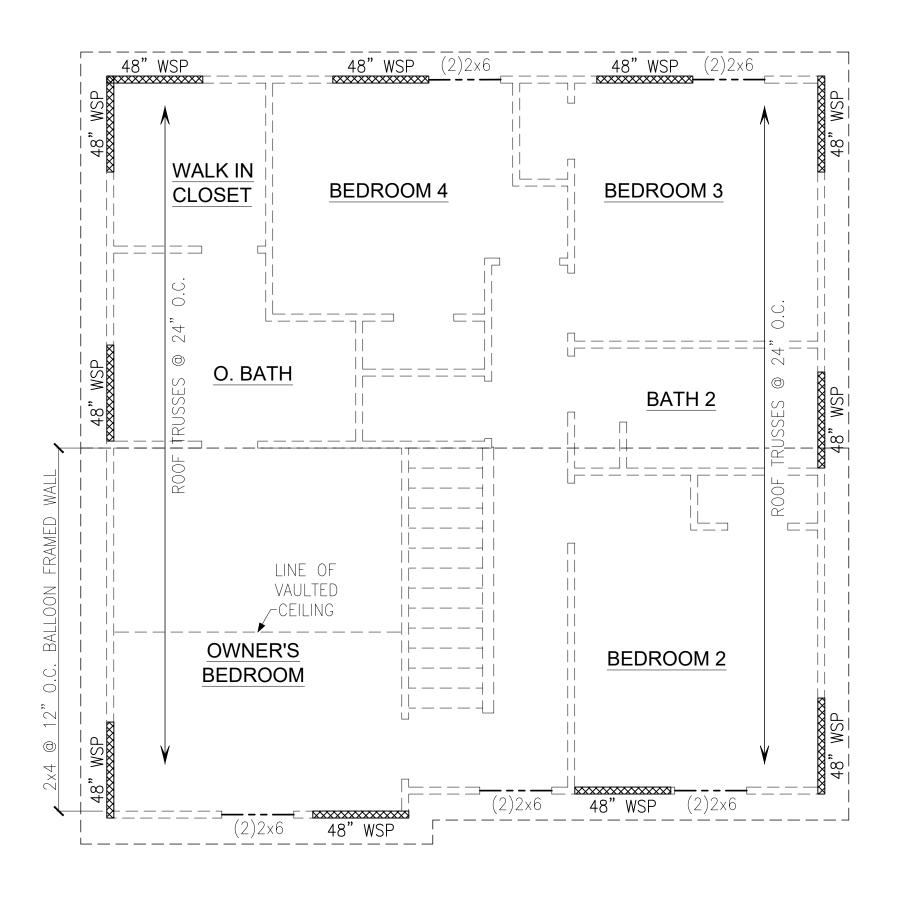


SECOND FLOOR FRAMING PLAN ELEVATION 'A' w/ 2-CAR GARAGE



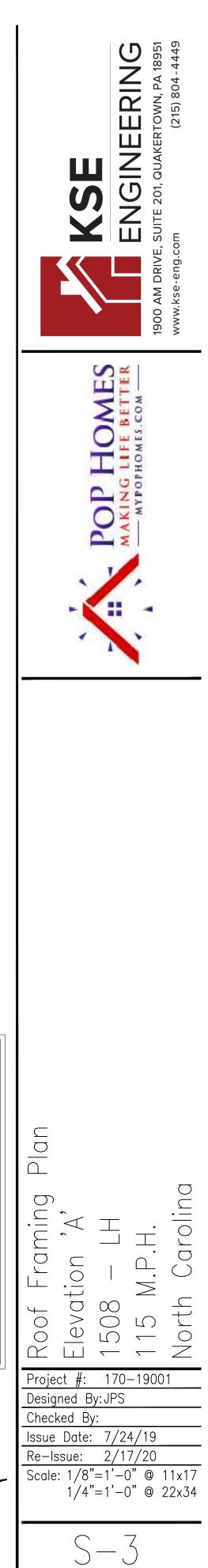


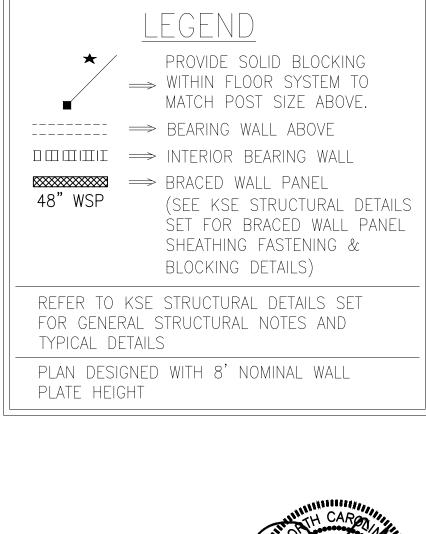


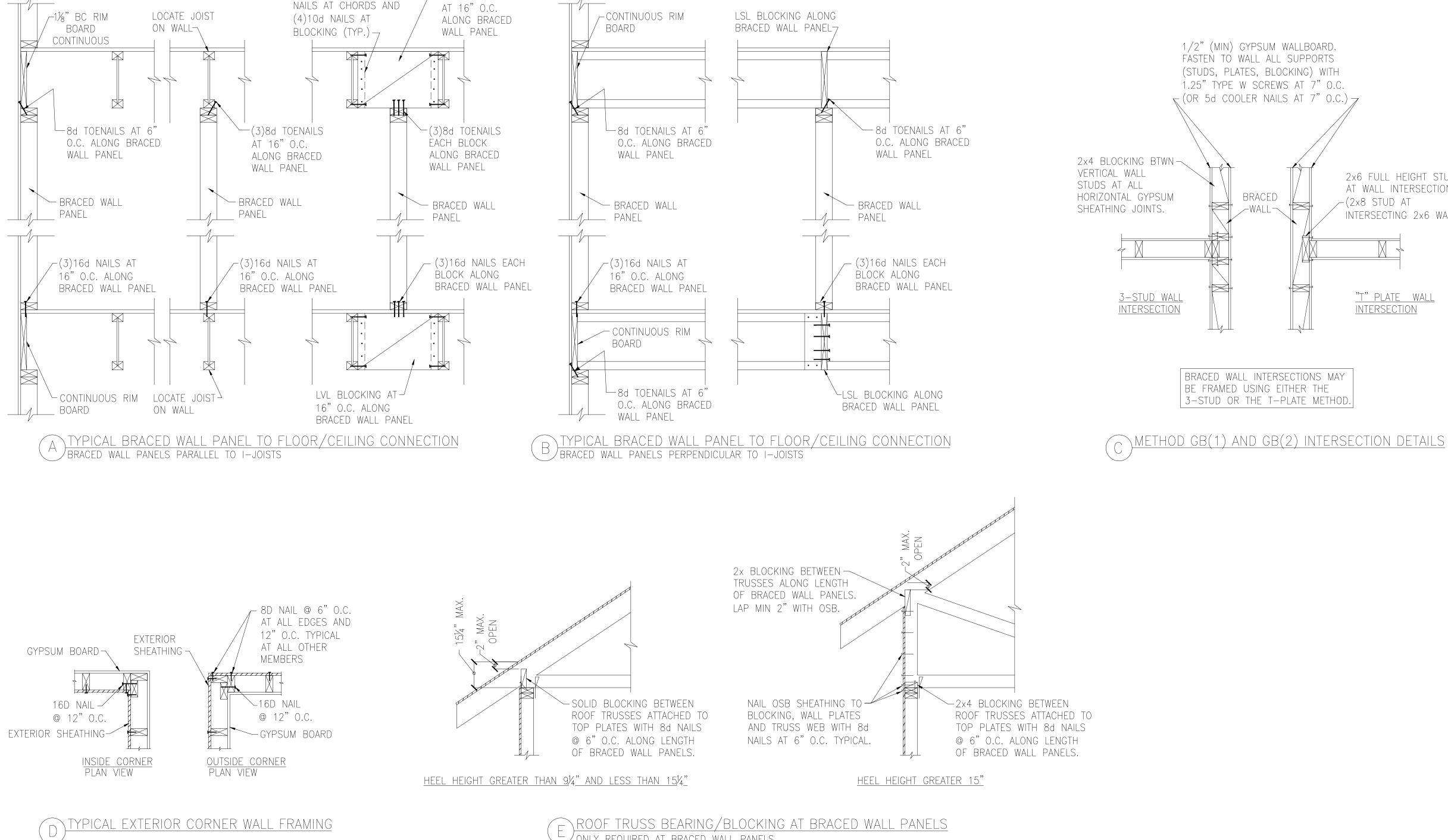


ROOF FRAMING PLAN

ELEVATION 'A'







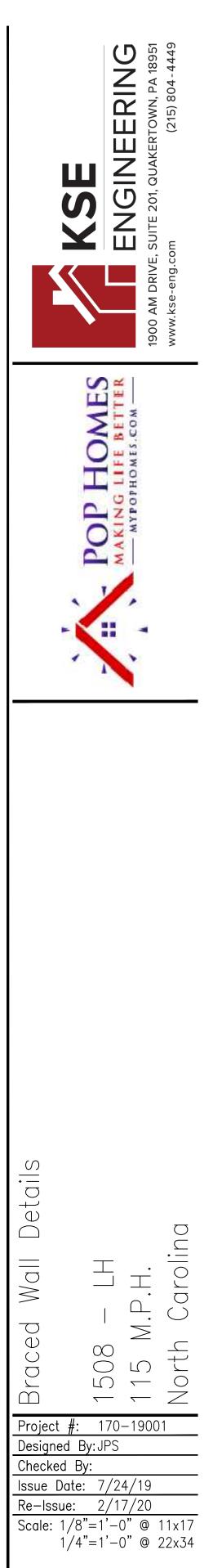
2x4 CLEAT WITH (2)10d

- LSL BLOCKING

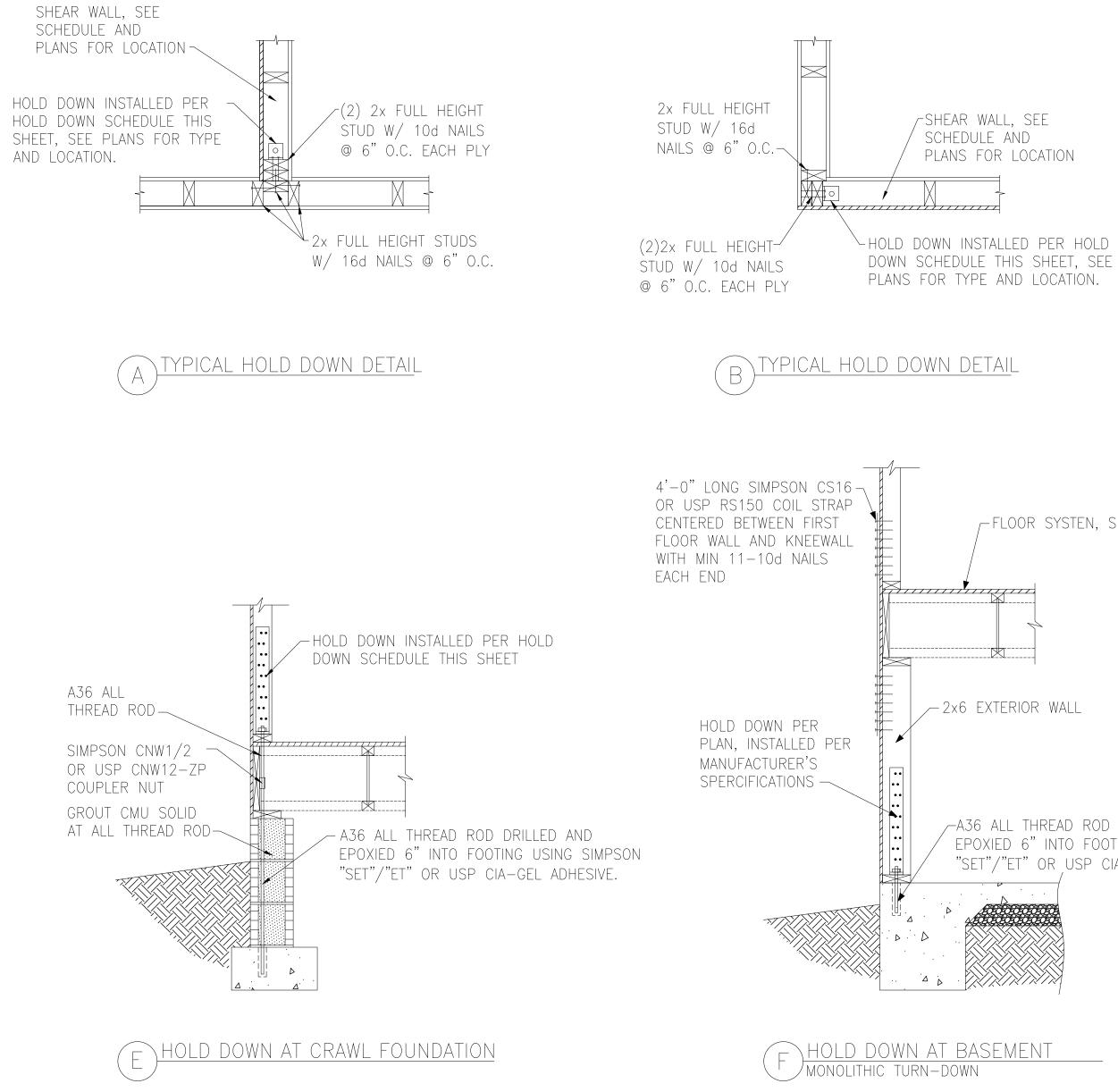
ONLY REQUIRED AT BRACED WALL PANELS

2x6 FULL HEIGHT STUD AT WALL INTERSECTION /(2x8 STUD AT INTERSECTING 2x6 WALL)

<u>"T" PLATE WALL</u> INTERSECTION







EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.

-A36 ALL THREAD ROD DRILLED AND

∠2x6 EXTERIOR WALL

_1/____

FLOOR SYSTEN, SEE PLANS

PLANS FOR TYPE AND LOCATION.

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET / A36 ALL THREAD ROD DRILLED AND EPOXIED 6" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.

×.

____2x6 EXTERIOR WALL

D. · · ·

G HOLD DOWN AT BASEMENT

FLOOR SYSTEN, SEE PLANS

HOLD DOWN AT STEMWALL SLAB

4'-0" LONG SIMPSON CS16-OR USP RS150 COIL STRAP

CENTERED BETWEEN FIRST

EACH END

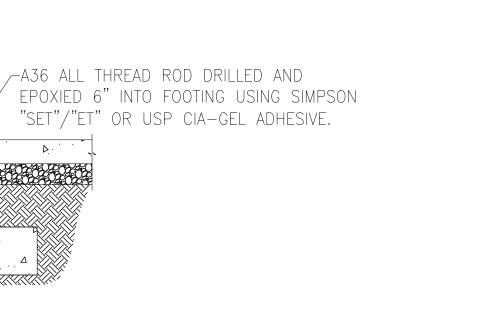
FLOOR WALL AND KNEEWALL WITH MIN 11-10d NAILS

HOLD DOWN PER

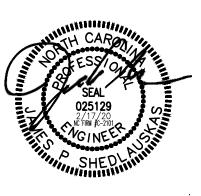
MANUFACTURER'S

SPERCIFICATIONS -

PLAN, INSTALLED PER



HOLD SIMPSON LTT20B HTT4 HTT5



Hold-Down	1508 - LH	115 M.P.H.	North Carol
Project #:	170	-190	01
Designed E	ly:JPS		
Checked By	y:		
Issue Date:	7/2	4/19	
Re-Issue:			
Scale: 1/8' 1/4'	"=1'-("=1'-()"@)"@	11x17 22x34
S[)—	2	

. D U .

Details

	ł	HOLD DOWN	SCHEDULE		
DOWN		ALL TREAD ROD	FASTENERS		
	USP				
	LTS20B	½" DIA.	(10)10d NAILS		
	HTT16	5∕8" DIA.	(18)16dx2½"LONG NAILS		
	HTT45	%" DIA.	(26)16dx2½" LONG NAILS		

	HOLD DOWN	SCHEDULE
\supset	ALL TREAD ROD	FASTENERS
20B	1⁄2" DIA.	(10)10d NAILS

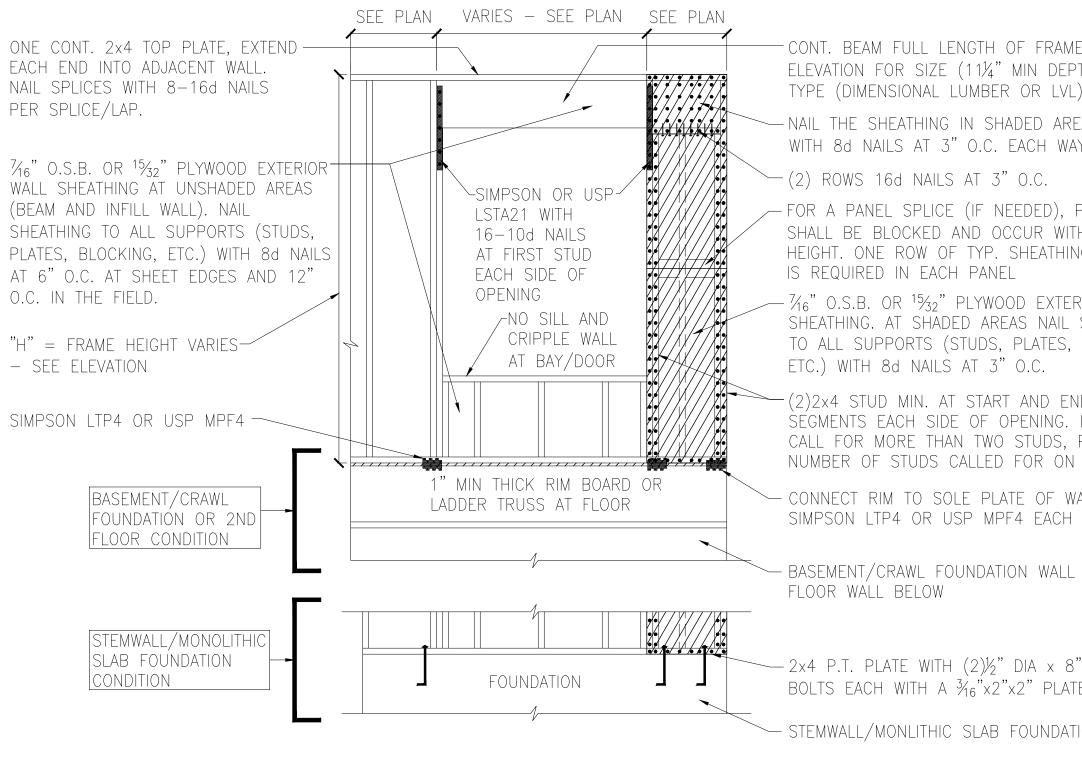




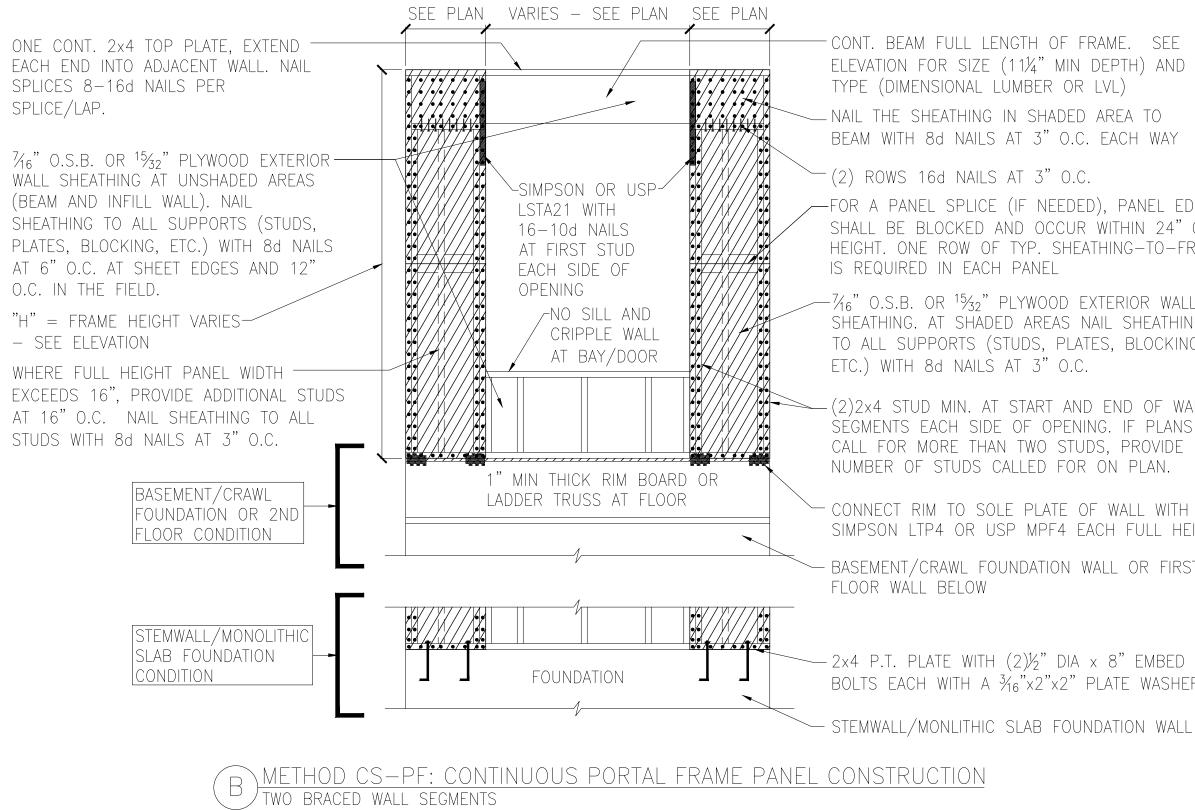
- A36 ALL THREAD ROD DRILLED AND

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET









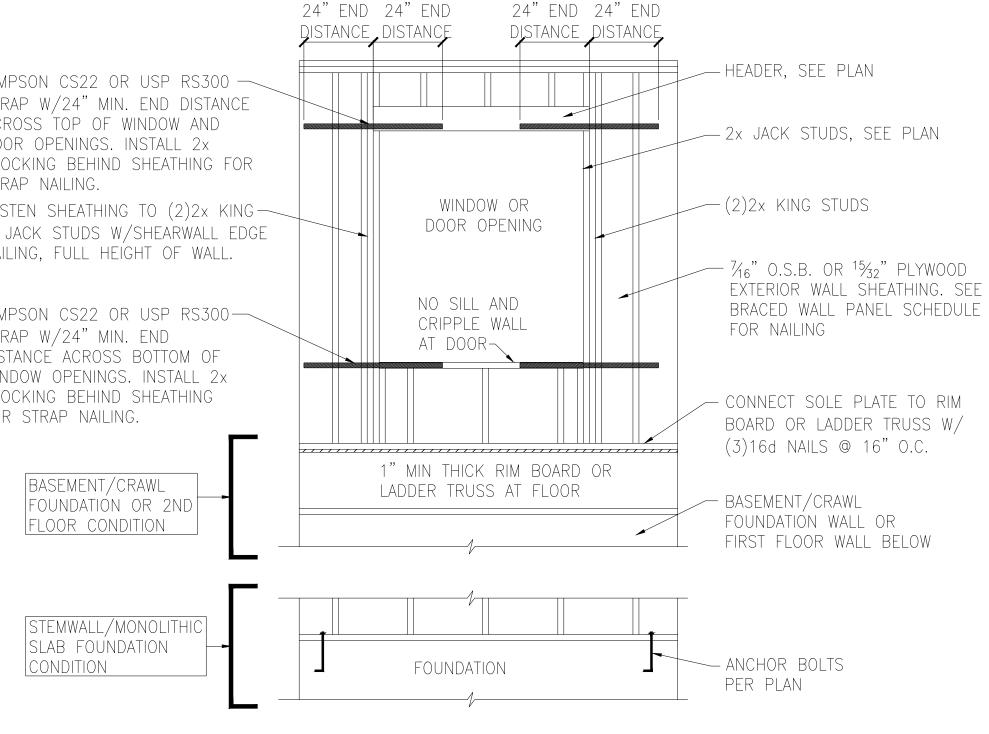
ME. SEE IPTH) AND /L)	
REA TO BEAM /AY	
PANEL EDGES ITHIN 24" OF MID ING-TO-FRAMING	
ERIOR WALL _ SHEATHING , BLOCKING,	
END OF WALL . IF PLANS PROVIDE	
N PLAN. Wall with two H Full height panel	
L OR FIRST	
8" EMBED ANCHOR Ate Washer	
ATION WALL	
ME. SEE :PTH) AND /L)	SIMPSON CS22 O
REA TO ACH WAY	STRAP W/24" MIN ACROSS TOP OF DOOR OPENINGS. BLOCKING BEHIND
PANEL EDGES ITHIN 24" OF MID ING-TO-FRAMING	STRAP NAILING. FASTEN SHEATHING & JACK STUDS W NAILING, FULL HE
ERIOR WALL _ SHEATHING , BLOCKING,	SIMPSON CS22 O STRAP W/24" MIN
END OF WALL . IF PLANS PROVIDE	DISTANCE ACROSS WINDOW OPENINGS BLOCKING BEHIND FOR STRAP NAILIN
N PLAN. Wall with two H Full Height Panel	BASEMENT/0 FOUNDATION FLOOR CON
L OR FIRST	
8" EMBED ANCHOR Ate Washer	STEMWALL/N SLAB FOUNI CONDITION
ATION WALL	

	BRACED WALL	_ PANEL AM	ND ENGINEERED S	
PANEL TYPES	PANEL TYPE	MATERIAL	FA	
WSP	SP INTERMITTENT WOOD 7/16" OSB		6D OR 8D COMMON INTERMEDIATE SUPPC STAPLES AT 3" O.C.	
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2"GYPSUM	1.5" LONG GALV. ROOF DRYWALL SCREWS AT 7	
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2"GYPSUM	1.5" LONG GALV. ROOF DRYWALL SCREWS AT 4	
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2"GYPSUM	1.5" LONG GALV. ROOF DRYWALL SCREWS AT 7	
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16"OSB	6D OR 8D COMMON NA INTERMEDIATE SUPPORT <u>STAPLES AT 3"O.C. A</u> T	
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16"OSB	NAILING PER DETAIL	
PFH	PFH PORTAL FRAME WITH HOLD DOWNS		NAILING PER DETAIL	
CS-ESW(1)	CS-ESW(1) ENGINEERED SHEAR WALL, TYPE 1		8D COMMON NAILS AT INTERMEDIATE SUPPORT	
CS-ESW(2)	CS-ESW(2) ENGINEERED SHEAR WALL, TYPE 2		8D COMMON NAILS AT INTERMEDIATE SUPPORT	
CS-ESW(3)	ENGINEERED SHEAR Wall, Type 3	7/16"OSB	8D COMMON NAILS AT INTERMEDIATE SUPPORT	

ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES. 2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.

3. SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH $\frac{7}{16}$ " O.S.B., OR $\frac{15}{32}$ " PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.

BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.



WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL ○ JONLY REQUIRED WHERE SPECIFED ON PLANS

SHEAR WALL SCHEDULE

FASTENERS

NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT RTS. <u>ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG</u> AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS

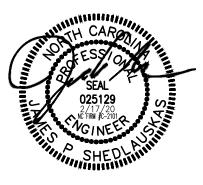
FING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.

FING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.

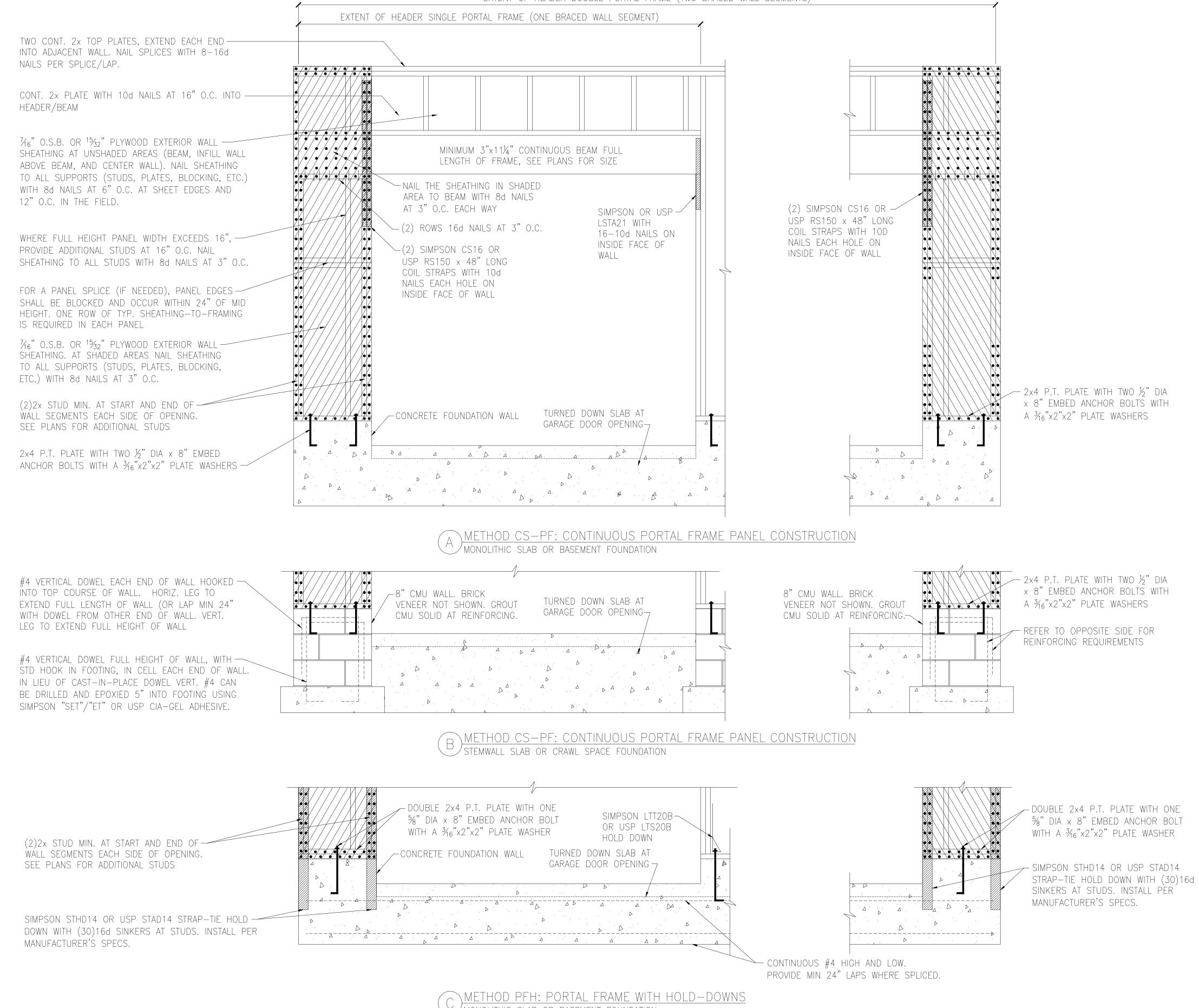
FING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.

NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT RTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS

6" O.C. AT SHEET EDGES AND 12" O.C. AT RTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS 4" O.C. AT SHEET EDGES AND 12" O.C. AT TS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS 3" O.C. AT SHEET EDGES AND 12" O.C. AT RTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS



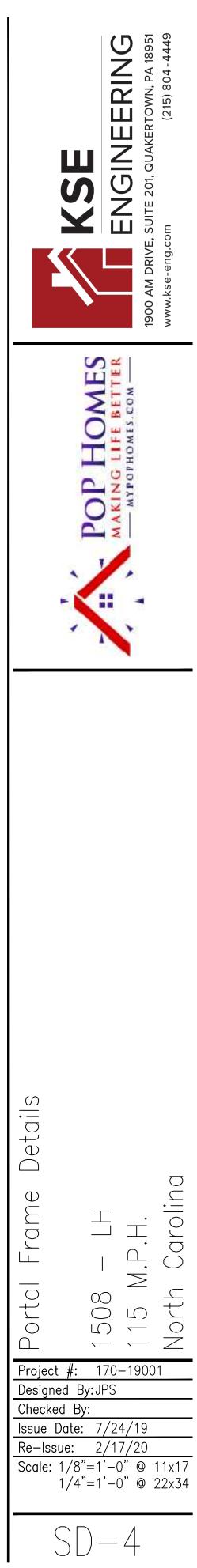
		1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951	www.kse-eng.com (215) 804 - 4449
	POP HOMES		
Details			
Wall Notes & [Ē.H.	Carolina
Project f		M L L L -1900	I North

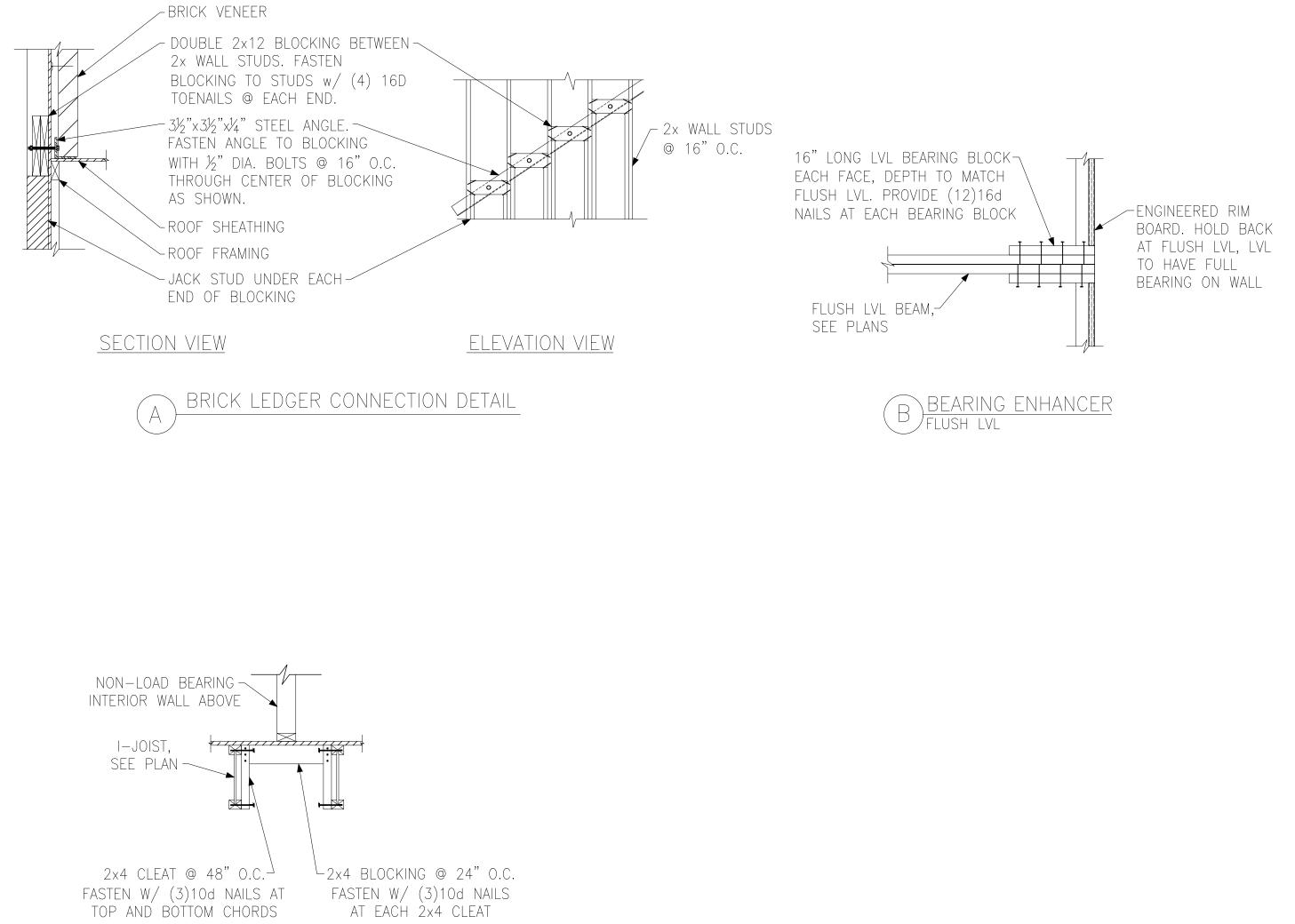




EXTENT OF HEADER DOUBLE PORTAL FRAME (TWO BRACED WALL SEGMENTS)

MONOLITHIC SLAB OR BASEMENT FOUNDATION



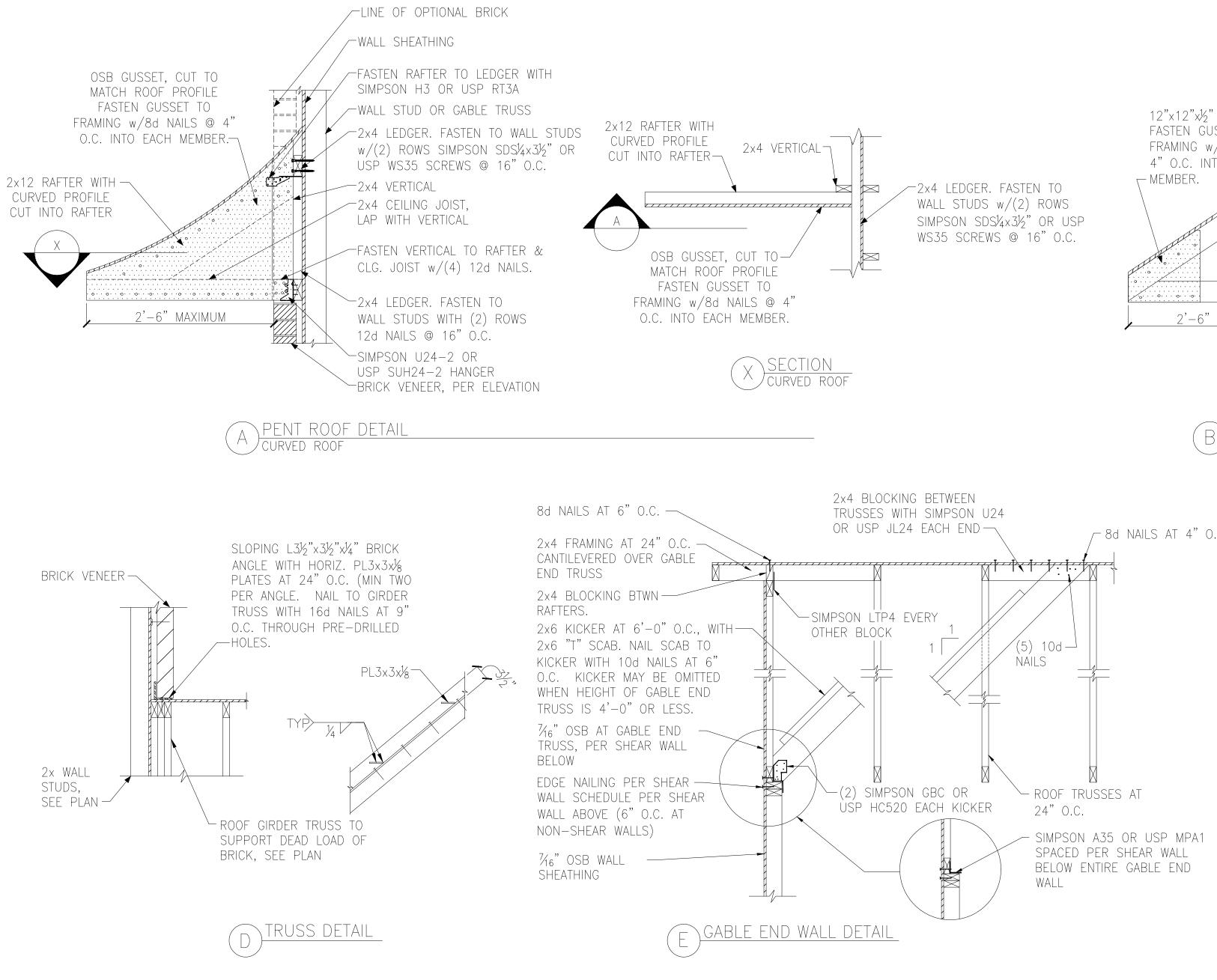


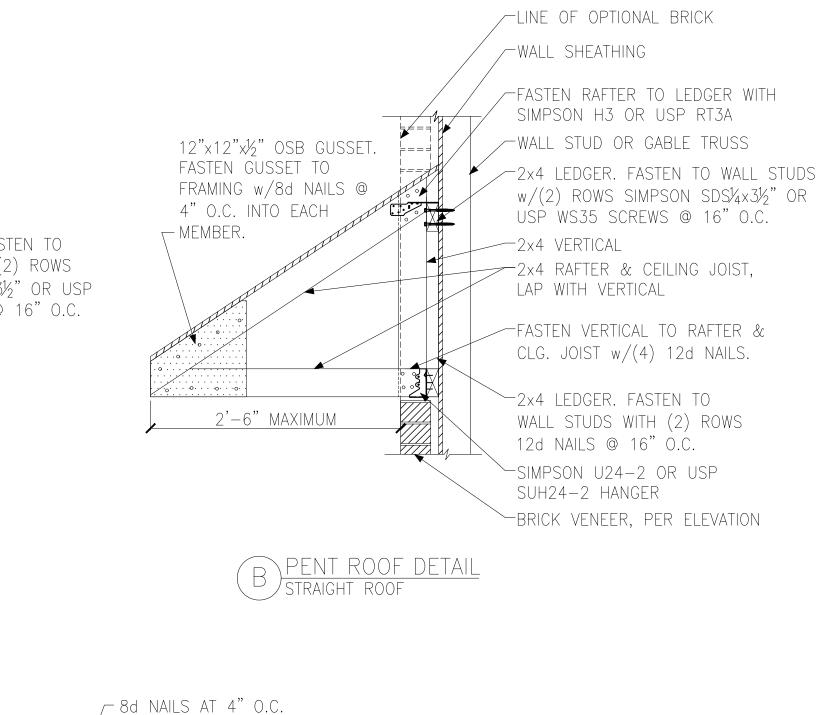


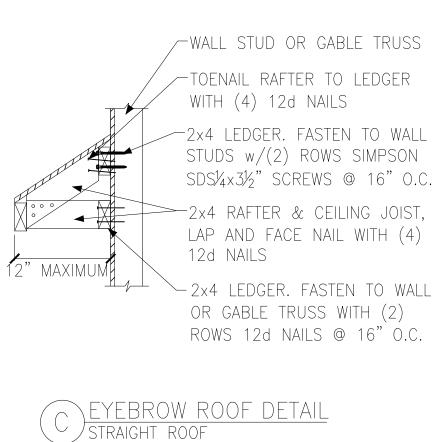
	WALL	STUD SIZE,	HEIGHT & SPA	ACING SCHEDL		
	BEARING WALLS				NONBEARING WALLS	
STUD SIZE	LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING WHEN SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY	MAXIMUM SPACING WHEN SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY		LATERALLY UNSUPPORTED STUD HEIGHT	MAXIMUM SPACING
2x4	10'-0"	24"	16"	_	14'-0"	24"
2x6	10'-0"	24"	24"	16"	20'-0"	24"



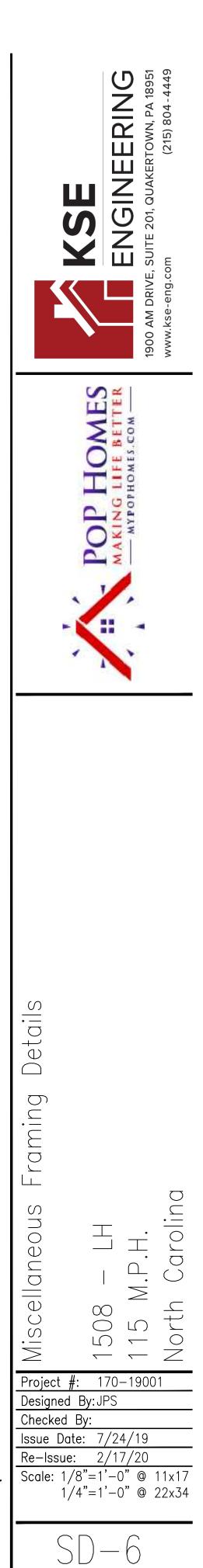
Provide the second stateProvide the second state100 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951100 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951
POP HOMES MAKING LIFE BETTER MAKING LIFE BETTER
Miscellaneous Framing Details 1508 – LH 115 M.P.H. North Carolina
Project #: 170-19001 Designed By:JPS Checked By: Issue Date: 7/24/19 Re-Issue: 2/17/20 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34 SD-5



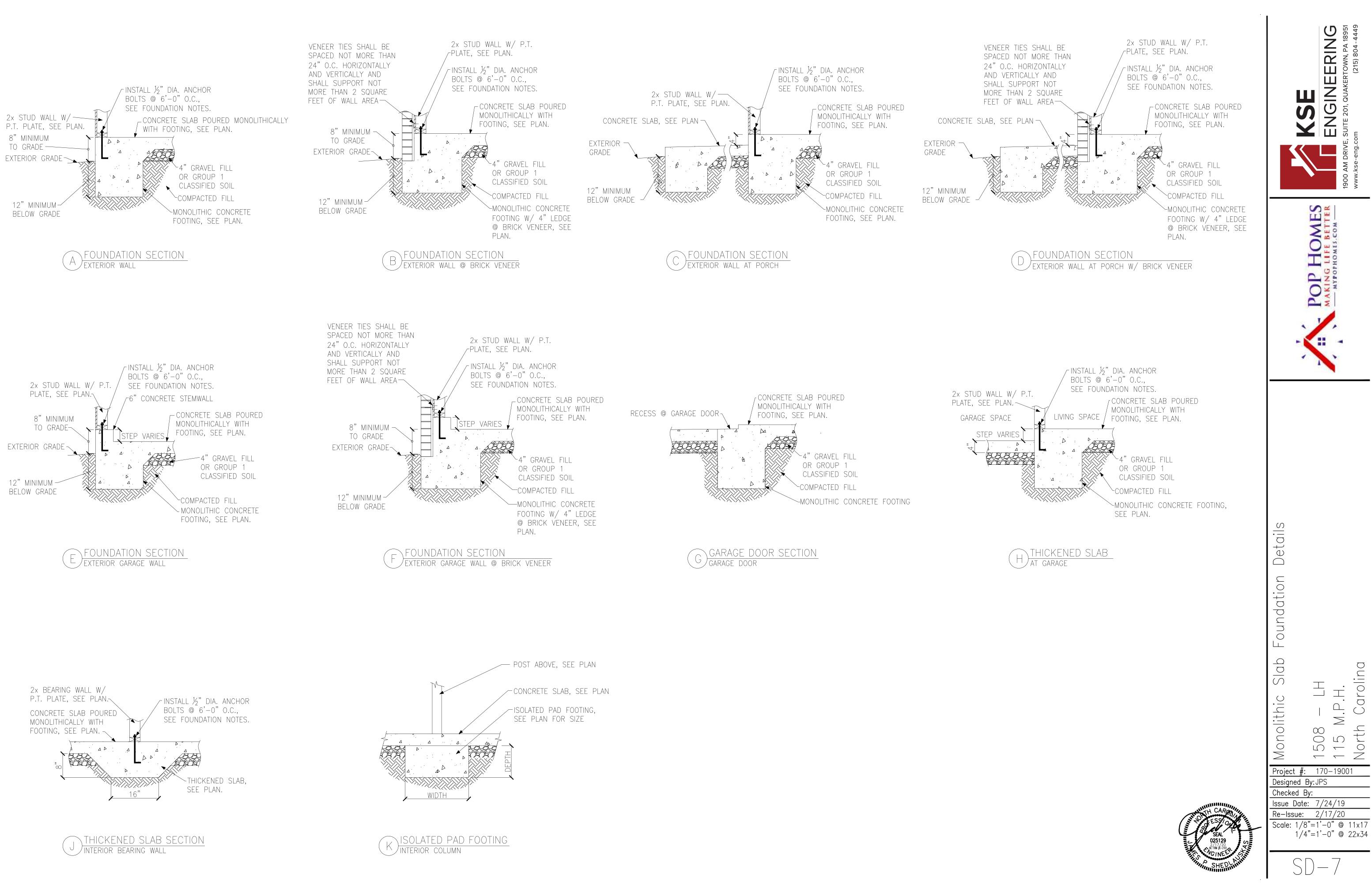












	BRACED WAL	PANEL AN	D ENGINEERED SHEAR WALL SCHEDULE	
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS	
	INTERMITTENT WOOD STRUCTURAL PANEL OR	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. <u>ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG</u> STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS	
BWP	INTERMITTENT STRUCTURAL SHEATHING PANEL	THERMO BRACE RED	16 GAGE BY 1.25" LONG GALV. STAPLES W/ ¹ 5/6" CROWN AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT INTERMEDIATE SUPPORTS.	
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.	
GB(1B)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. PROVIDE 2X BLOCKING AT ALL HORIZONTAL SHEET EDGES.	
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.	
CS-BWP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL <u>OR</u>	7/16"OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. <u>ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG</u> <u>STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS</u>	
00 5	CONTINUOUS STRUCTURAL SHEATHING PANEL	THERMO BRACE RED	16 GAGE BY 1.25" LONG GALV. STAPLES W/ $^{1}\!\%_{6}$ CROWN AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT INTERMEDIATE SUPPORTS.	
CS-PF CONTINUOUS SF	CONTINUOUS SHEATHED	7/16"OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. <u>ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG</u> STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS	
	PORTAL FRAME		16 GAGE BY 1.25" LONG GALV. STAPLES W/ $1\%_6$ " CROWN AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT INTERMEDIATE SUPPORTS.	
CS-EPF	PORTAL FRAME WITH HOLD DOWNS	7/16"OSB	NAILING PER DETAIL	
CS-ESW(1)	CS_ESW(1) ENGINEERED SHEAR	7/16"OSB	8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS	
,	WALL, TYPE 1	THERMO BRACE RED	CONTINUOUS AROUND DOOR/WINDOW OPENINGS	
CS-ESW(2)				
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16"OSB	8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS	
BRACED WALL F	PANEL NOTES:			
. ALL BRACE	D WALL PANELS, EXCEPT GE	8(1) & GB(2), SH	ALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.	
2. PROVIDE N	AILING/BLOCKING ABOVE AND	BELOW ALL BRA	CED WALL PANELS PER DETAILS A & B/DS-1.	
TABLE R6	02.3(1) OR SHEATHED W	TH THERMO BRACI	THED WITH 7/16"O.S.B., OR 15/32" PLYWOOD, FASTENED PER IRC E RED STRUCTURAL SHEATHING, FASTENED WITH 16 GAGE BY 1.25" LONG GALV. AND 3"O.C. AT INTERMEDIATE SUPPORTS.	
SHEATHIN 1507–08)	G BRACED WALL PANELS AN	D ENGINEERED SH	SHEAR WALLS ARE PROVIDED PER IRC SECTION R602.10. STRUCTURAL HEAR WALLS ARE PROVIDED PER TECHNICAL EVALUATION REPORT (TER No. ID FEBRUARY 8, 2021. PANEL LENGTHS SHOWN ON PLANS ARE THE	
5. ALL EXTER	IOR WALLS TO BE 2x STUDS	© 16"O.C. MAX	IMUM, UNLESS NOTED OTHERWISE ON PLANS.	

