MAGNOLIA PLAN 1383

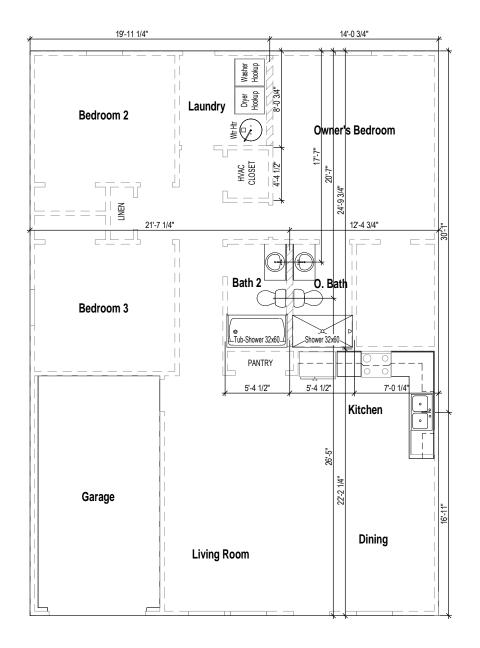


(1) Elev 1

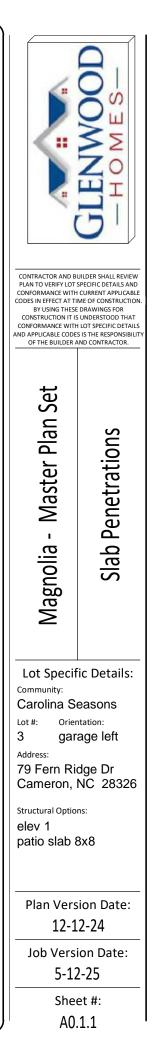
Area Schedule (Elevation 1)		Sheet List (Elev 1)			
Name	Area	Sheet Number	Sheet Name		
Heated		0 Cover Sheet			
1st Floor	1383 SF	A0.1.1	Slab Penetrations		
	1383 SF	A1.1	Floor Plans - Elev 1		
Unheated		A4.1	Section - Elev 1		
Front Porch	25 SF	A5.1	Elevations - Elev 1		
Garage	215 SF	A5.1.1 Roof Plan - Elev 1			
	240 SF	E1.1	Utility Plans Std. Pkg.		
Under Roof	1623 SF	Structural Pages by KSE Engineering			

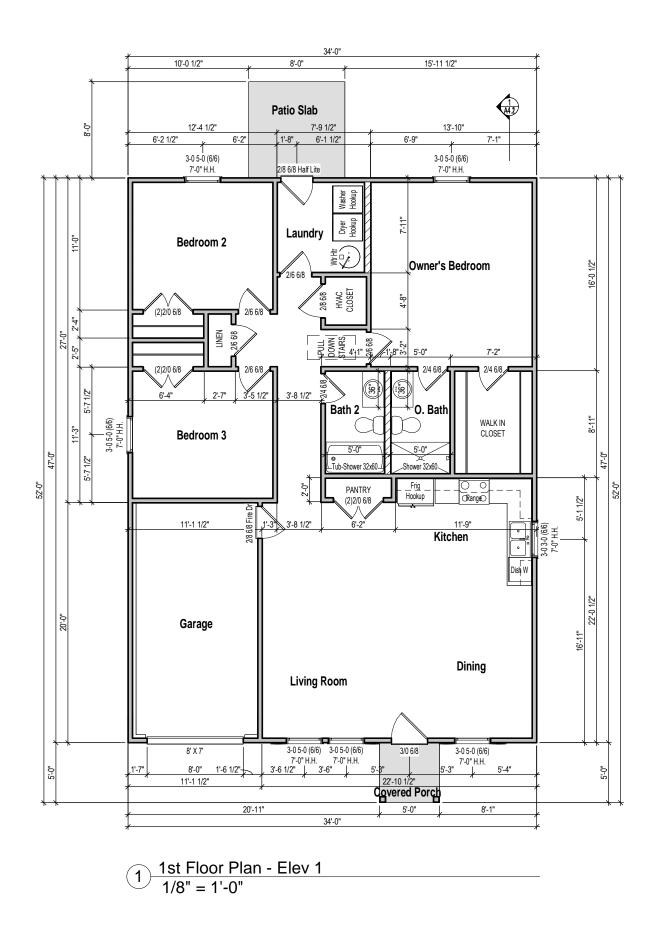
	GLENWOOD HOMES-
PLAN TO VERIFY LOT CONFORMANCE WITH CODES IN EFFECT AT TI BY USING THESS CONSTRUCTION IT IS CONFORMANCE WITH AND APPLICABLE CODE	UILDER SHALL REVIEW SPECIFIC DETAILS AND CURRENT APPLICABLE ME OF CONSTRUCTION. DRAWINGS FOR UNDERSTOOD THAT I COT SPECIFIC DETAILS S IS THE RESPONSIBILITY IND CONTRACTOR.
Magnolia - Master Plan Set	Cover Sheet
Community: Carolina S Lot #: Orier	ntation: age left dge Dr NC 28326 ns:
12-1 Job Vers 5-12 She	

REFER TO STRUCTURAL DRAWINGS FOR ALL FOUNDATION DIMENSIONS

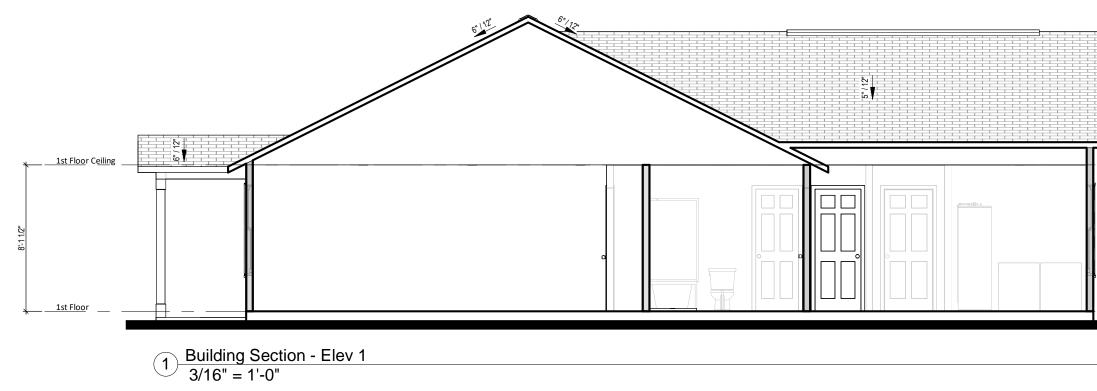


1 Slab Penetrations 1/8" = 1'-0"





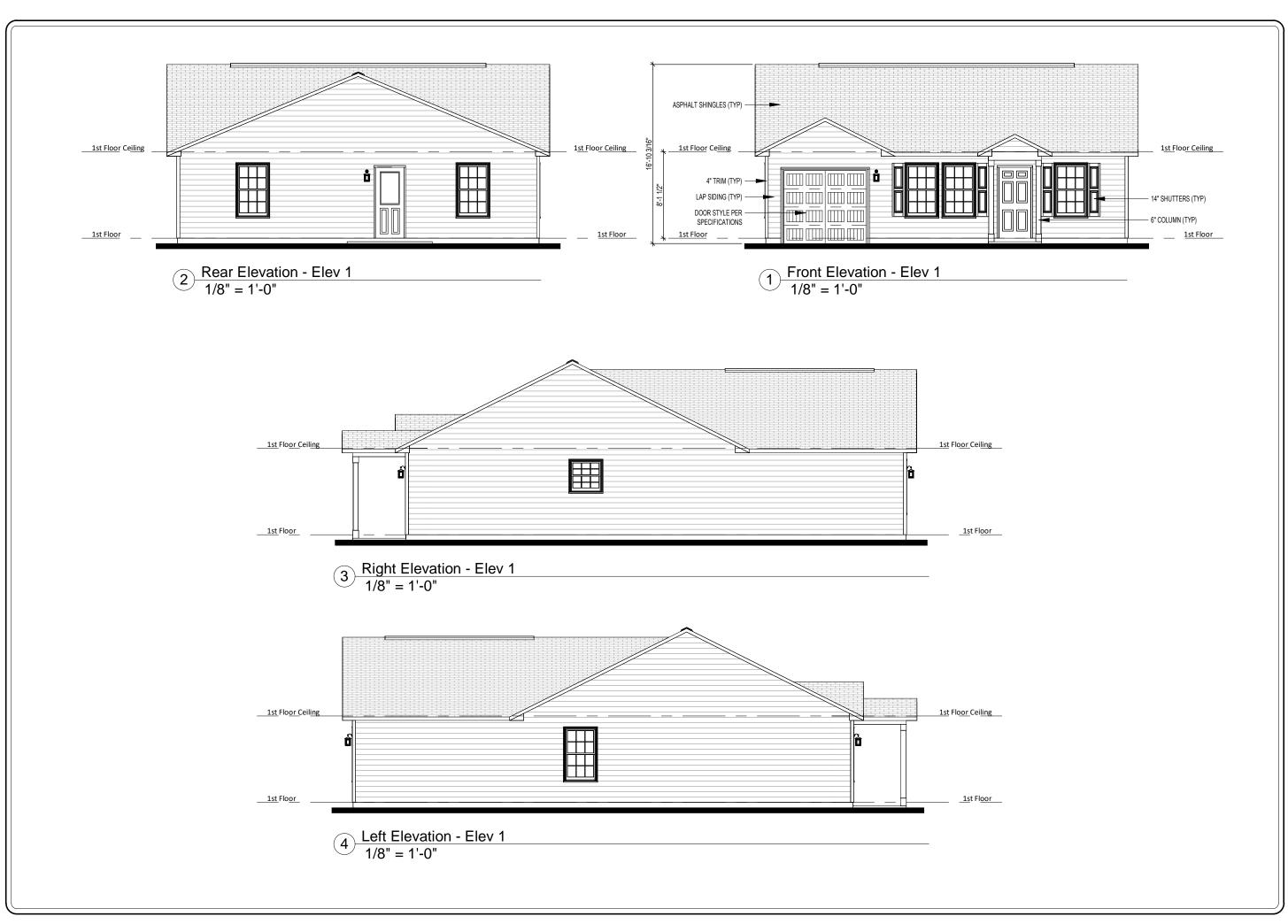
CONTRACTOR AND BUILDER SHALL REVIEW PLAN TO VERIFY LOT SPECIFIC DETAILS AND CONFORMANCE WITH CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH LOT SPECIFIC DETAILS AND APPLICABLE CODES IS THE RESPONSIBIL OF THE BUILDER AND CONTRACTOR. Magnolia - Master Plan Set -Floor Plans - Elev Lot Specific Details: Community: Carolina Seasons Lot #: Orientation: 3 garage left Address: 79 Fern Ridge Dr Cameron, NC 28326 Structural Options: elev 1 patio slab 8x8 Plan Version Date: 12-12-24 Job Version Date: 5-12-25 Sheet #: A1.1



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Magnolia - Master Plan Set	Section - Elev 1
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1<u>st F</u>loo<u>r Ceiling</u>

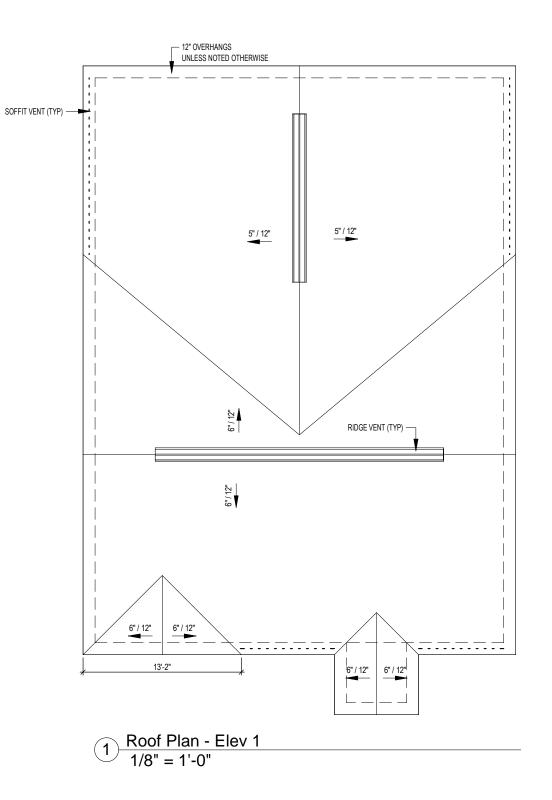
1<u>st Floor</u>





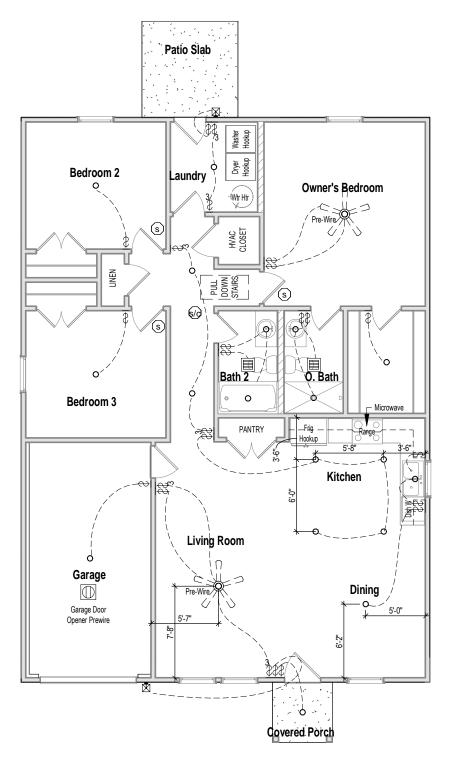
Attic Ventilation Calcs 1/300 (sq.in.)

		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.)	(ln.ft.)	(ea)	(sq.ft.)
Main Roof	1598 SF	767	614	384	570	216	786	38	0	36



T T CONTRACTOR AND BUILDER SHALL REVIEW PLAN TO VERIFY LOT SPECIFIC DETAILS AND CONFORMANCE WITH CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH LOT SPECIFIC DETAILS AND APPLICABLE CODES IS THE RESPONSIBILI OF THE BUILDER AND CONTRACTOR. Magnolia - Master Plan Set -Roof Plan - Elev Lot Specific Details: Community: Carolina Seasons Lot #: Orientation: 3 garage left Address: 79 Fern Ridge Dr Cameron, NC 28326 Structural Options: elev 1 patio slab 8x8 Plan Version Date: 12-12-24 Job Version Date: 5-12-25 Sheet #: A5.1.1

			ELE	CTRI	CAL LEG	END			
		WALL M	OUNTED FIXTURES				CEILING MOUN	ITED FIXTUR	RES
\bigcirc	OUTLET - 110V		OUTLET - TV	P	WALL LIGHT	\square	GARAGE DOOR OPENER PREWIRE	s	SMOKE DETECTOR
	OUTLET - 110V GROUND FAULT INTERRUPTER	PH	OUTLET - PHONE	000	18" LIGHT BAR	0	FLUSH MOUNT	<s c=""></s>	SMOKE DETECTOR/CO2
GFI (WP)	OUTLET - 110V GROUND FAULT INTERRUPTER WATER PROOF	\$	SWITCH - SINGLE POLE		COACH LIGHT - FRONT DOOR	0	SURFACE CAN LIGHT		BATHROOM EXHAUST FAN
	OUTLET - 220V		SWITCH - 3 WAY	A	COACH LIGHT - REAR DOOR		FLUSH MOUNT		FLUORESCENT
		\$	SWITCH - 4 WAY				W-FAN PREWIRE		1'X4' 2 LAMPS



1st Floor Electrical Std. Pkg. Elev 1 (surface lights are pucks) 1/8" = 1'-0" (1

CONTRACTOR AND BUILDER SHALL REVIEW PLAN TO VERIFY LOT SPECIFIC DETAILS AND CONFORMANCE WITH CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH LOT SPECIFIC DETAILS AND APPLICABLE CODES IS THE RESPONSIBIL OF THE BUILDER AND CONTRACTOR. Magnolia - Master Plan Set Utility Plans Std. Pkg. Lot Specific Details: Community: Carolina Seasons Lot #: Orientation: 3 garage left Address: 79 Fern Ridge Dr Cameron, NC 28326 Structural Options: elev 1 patio slab 8x8 Plan Version Date: 12-12-24 Job Version Date: 5-12-25 Sheet #: E1.1

SHEET INDEX:

- S-0 COVER SHEET
- S-0.1 GENERAL STRUCTURAL NOTES
- S-1 MONOLITHIC SLAB FOUNDATION PLAN ELEVATION 1 ELEVATION 1
- ROOF FRAMING PLAN S-3
- BRACED WALL DETAILS SD-1
- SD-2 HOLD DOWN DETAILS
- BRACED WALL NOTES & DETAILS SD-3
- METHOD CS-PF: CONTINUOUS PORTAL FRAME DETAILS SD-4
- METHOD CS-EPF: PORTAL FRAME W/ HOLD-DOWNS SD-5
- MISCELLANEOUS FRAMING DETAILS SD-6
- SD-7 MONOLITHIC SLAB FOUNDATION DETAILS
- SD-12 BRACED WALL AND SHEAR WALL SCHEDULE



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MAGNOLIA - LH

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

CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'): 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

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: • BOISE CASCADE BCI 5000s 1.8 (SERIES AND SPACING PER PLANS)

- LSL: E=1,550,000 PSI, F_B=2,325 PSI, F_V=310 PSI, F_C=900 PSI
- LVL: E=2,000,000 PSI, F_B=2,600 PSI, F_V=285 PSI, F_C=750 PSI
- 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 PSL: E=2,100,000 PSI, F_B=2,900 PSI, F_V=290 PSI, F_C=625 PSI 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

2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL

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

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





GENERAL STRUCTURAL NOTES:

- 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 FLEMENTS 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 KSF 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
- 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.
- 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. 6. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE
- RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY TH FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- HIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS, ALL DIMENSIONS ARE TO FACE OF STUD TO FACE OF FRAMING UNLESS OTHERWISE NOTED. 10. WATERPROOFING AND FLASHING BY OTHERS

FOUNDATIONS:

- FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
- 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
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
- 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 BEFOR 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
- %" 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. ½ DIAMETER × 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.
- 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.
- 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.
- 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 2 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
- CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE 5. WITH ACL 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
- REINFORCING STEEL MAY EXTEND THROUGH A SAW CUT JOINT 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 LIFU OF WWF 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 REINFÓRCEMENT 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'-O" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

MASONRY

- ALL MASONRY SHALL CONFORM TO ASTM C-90. F'm=1500 PSL ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=1500 PSI, ALL MORTAR SHALL BE 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 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000
- 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.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT 3. 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.
- EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS 4 RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- 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.
- 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:

- 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
 - 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
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER
- ANCHOR SILL PLATES IN ACCORDANCE w/ GENERAL STRUCTURAL NOTES. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY
- BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED. BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN
- ACCORDANCE WITH NDS SPECIFICATIONS
- 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.
- FASTEN 4-PLY BEAMS WITH (1) 1/2" DIAMETER THROUGH BOLT w/ NUT WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 11/2" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
- ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING 10. 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.
	16" O.C. STUD SPACING:	24" O.C. STUD SPACING:
	(1) STUD UP TO 3' OPENING	(1) STUD UP TO 4' OPENING
	(2) STUDS UP TO 4' OPENING	(2) STUDS UP TO 8' OPENING
	(3) STUDS UP TO 8' OPENING	(3) STUDS UP TO 12' OPENING
	(5) STUDS UP TO 12' OPENING	(4) STUDS UP TO 16' OPENING
	(c) CTUDE UD TO 1C' ODENING	

- (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 FTC 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 STRUCTURAL WALL SHEATHING 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:

- 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. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW
- PINE #2 OR BETTER.
- 3. GUARD RAILS AND LATERAL BRACING IS REQUIRED AT DECKS. DESIGN BY
- 4. PROVIDE DECK LATERAL LOAD CONNECTIONS PER BUILDING CODE.

RAFTER FRAMED ROOF CONSTRUCTION:

- PROVIDE 2x4x4'-0" RAFTER TIES AT 48" O.C. 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
- CEILING JOISTS SHALL HAVE LATERAL SUPPORT w/ 1x4 FLAT 3 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 RAFTÉR OR GABLE END FRAMING
- 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):

- 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.
- THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS 2 AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F_v) OF 50 KSI 2 HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO UNLESS OTHERWISE NOTED THE TRUSSES. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE
- 3. THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPL 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION"
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING 5. 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 TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES, REFER TO BOSI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE. SUCH DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTENED TO FACH TRUSS WEB WITH A MINIMUM OF TWO 10d FACE NAILS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL. THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) REQUIRED.
- 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
- PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

WOOD STRUCTURAL PANELS

- 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
- ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE 2. ΔPΔ
- 3 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 NAILS 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 LINLESS OTHERWISE NOTED PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE 7/6" OSB MINIMUM.
- Λ 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.
- SHEATHING SHALL HAVE A 1/4" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

STRUCTURAL WALL SHEATHING PANELS:

SHEATH ALL EXTERIOR WALLS PER BRACED WALL SCHEDULE. 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. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.

STRUCTURAL STEEL:

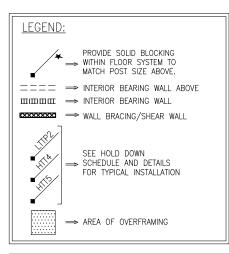
- AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1. ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 31/2" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) ½" 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 1/2" DIAMETER BOLTS AT 24" 00

MECHANICAL FASTENERS:

- 1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
- ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
- MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



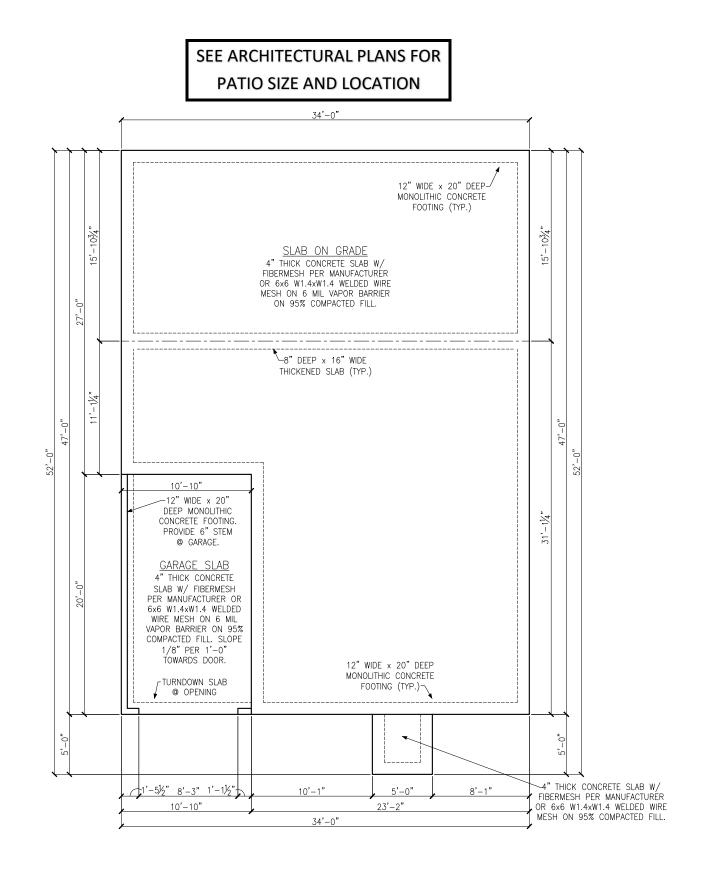




BRICK	VENEER LINTEL SC	HEDULE			
SPAN	LINTEL SIZE	END BEARING			
UP TO 3'-0"	3½"×3½"×¼"	4"			
UP TO 6'-3"	5"x3½"x5⁄16" L.L.V.	8"			
UP TO 9'-6"	6"x3½"x5∕16" L.L.V.	12"			
LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS. SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.					







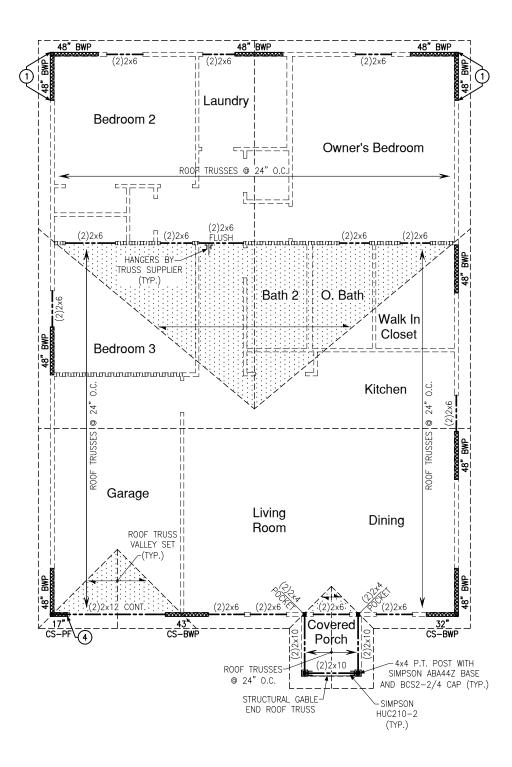
MONOLITHIC SLAB FOUNDATION PLAN



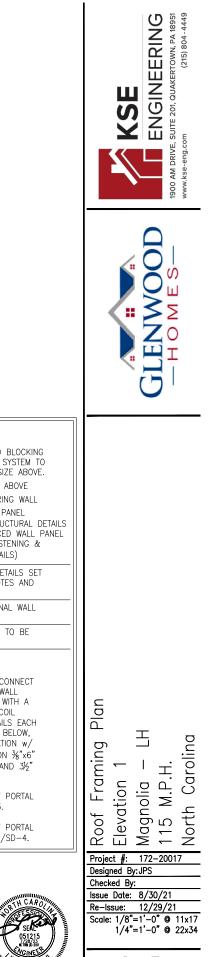


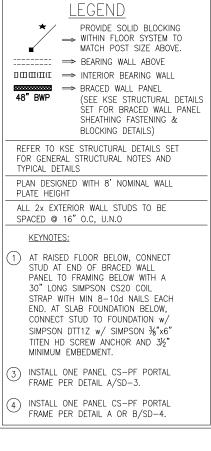
LEGEND PROVIDE SOLID BLOCKING → WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. \implies bearing wall above □□□□IIII ⇒ INTERIOR BEARING WALL \implies braced wall panel 48" BWP (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS





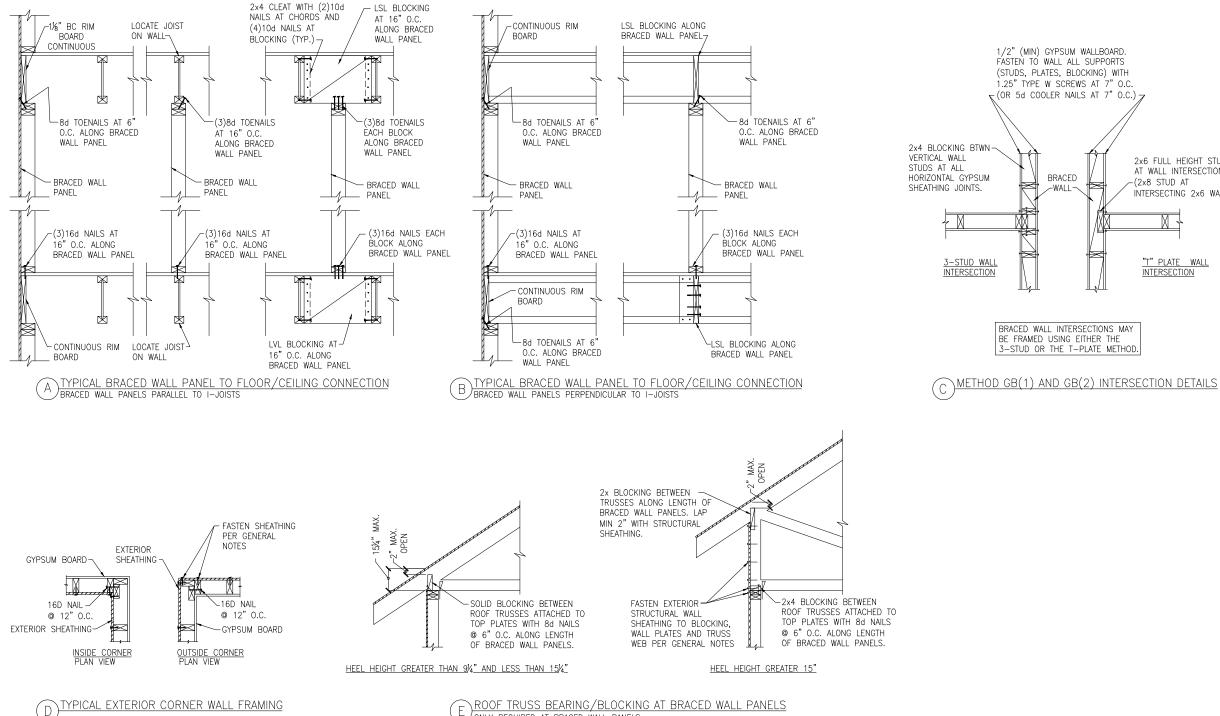
ROOF FRAMING PLAN ELEVATION 1







S-3



(E ONLY REQUIRED AT BRACED WALL PANELS 2x6 FULL HEIGHT STUD AT WALL INTERSECTION -(2x8 STUD AT INTERSECTING 2x6 WALL)

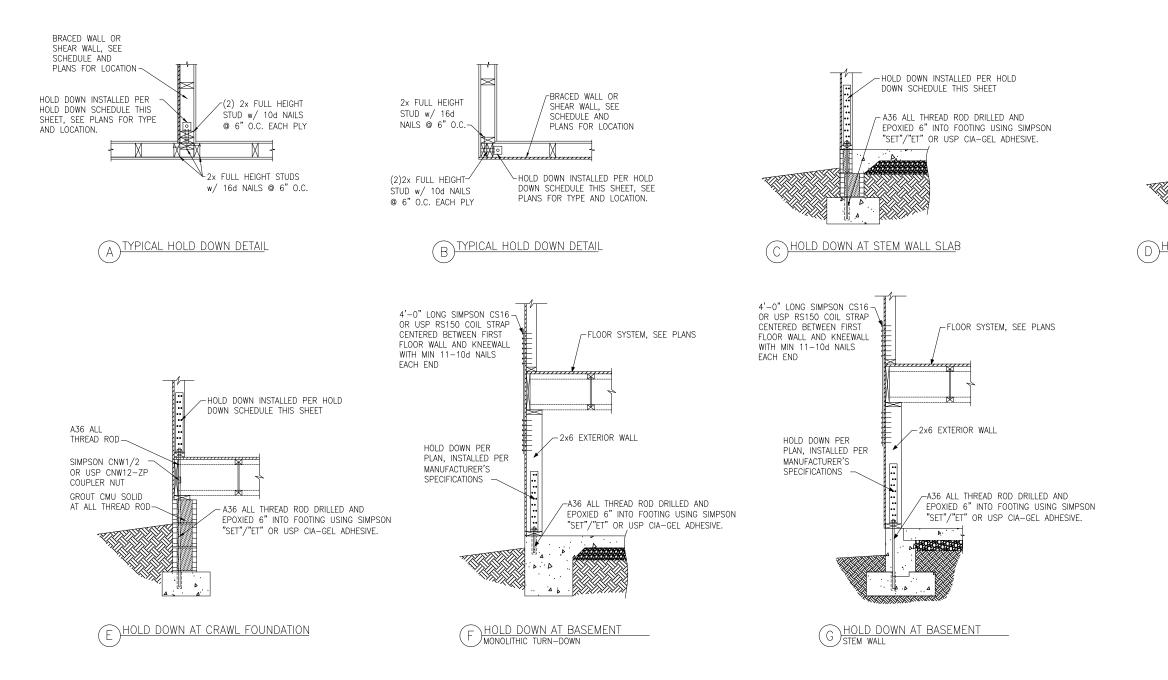
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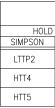
<u>"T" PLATE WALL</u> INTERSECTION



	KSE		1900 AM DKVE, SUILE 201, GUARER 10WN, FA 18931 WWW.Kse-eng.com (215) 804-4449
<		CLENWOUD	
Braced Wall Details	Maanolia – LH	. —	North Carolina
Project Designed Checked Issue Do Re-Issue Scale: 1	By:JP By: ite: 8/	S ′30/21	

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D HOLD DOWN AT MONOLITHIC SLAB

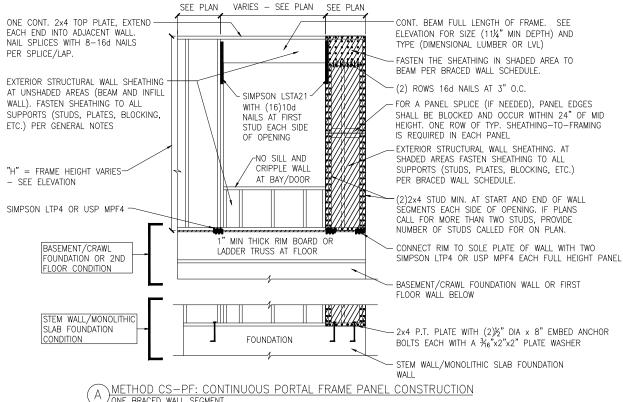


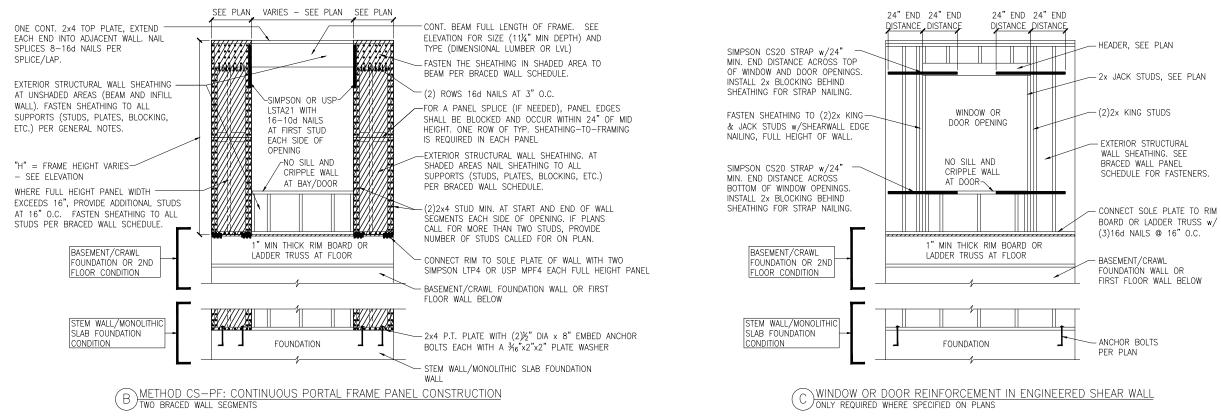


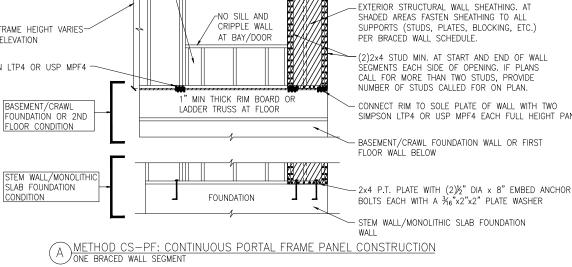
HOLD	DOWN SCH	EDULE
DOWN USP	ALL TREAD ROD	FASTENERS
LTS20B	½" DIA.	(10)10d NAILS
HTT16	5%"DIA.	(18)16dx2½" LONG NAILS
HTT45	%"DIA.	(26)16dx2½" LONG NAILS



Hold-Down Details			115 M.P.H.	North Carolina
Project Designec Checked ssue Do Re-Issue Scale: 1, 1	IBy:J By: nte: 8 e:	PS /30	/21	





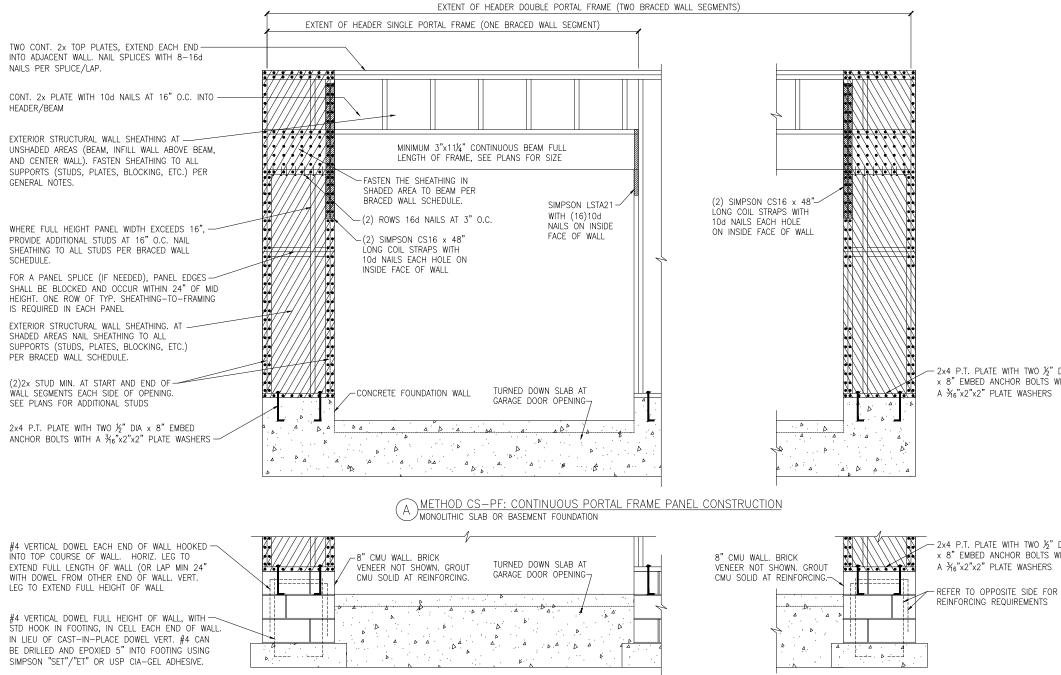






PAGE AND A DATA SALE SOL, AUARERTOWN, PA 18951 WWW.Kse-eng.com (215) 804-4449
GLENWOOD -HOMES-
Scole: 1/8"=1'-0" @ 11x17 I/4"=1'-0" @ 22x34

SD-3



METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION (B) STEM WALL SLAB OR CRAWL SPACE FOUNDATION

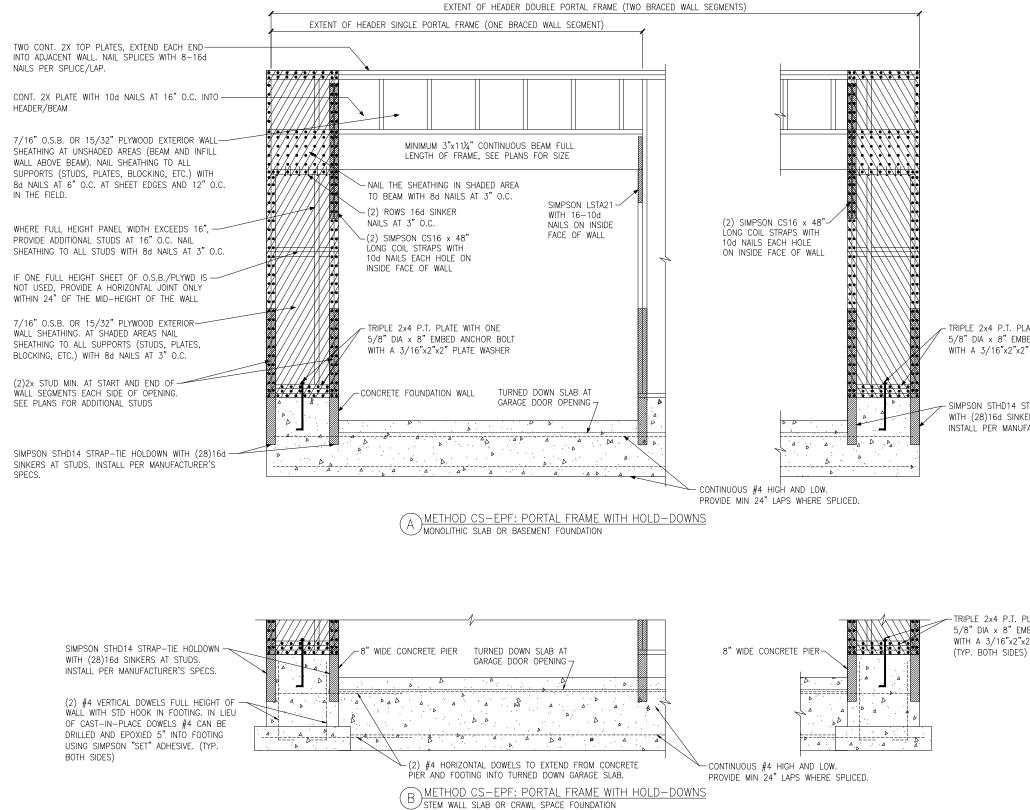
— 2x4 P.T. PLATE WITH TWO ½" DIA x 8" EMBED ANCHOR BOLTS WITH

← 2x4 P.T. PLATE WITH TWO ½" DIA x 8" EMBED ANCHOR BOLTS WITH



PAGE AND
GLENWOOD -HOMES-
Method CS-PF: Continuous Portal Frame Details Method CS-PF: Continuous Portal Frame Details <u>beiling</u> <u>beiling</u> <u>beiling</u> <u>cuth Carolina</u> <u>North Carolina</u> <u>rivel 1,9,2,2,2,3,4</u>

SD·



TRIPLE 2x4 P.T. PLATE WITH ONE 5/8" DIA x 8" EMBED ANCHOR BOLT WITH A 3/16"x2"x2" PLATE WASHER

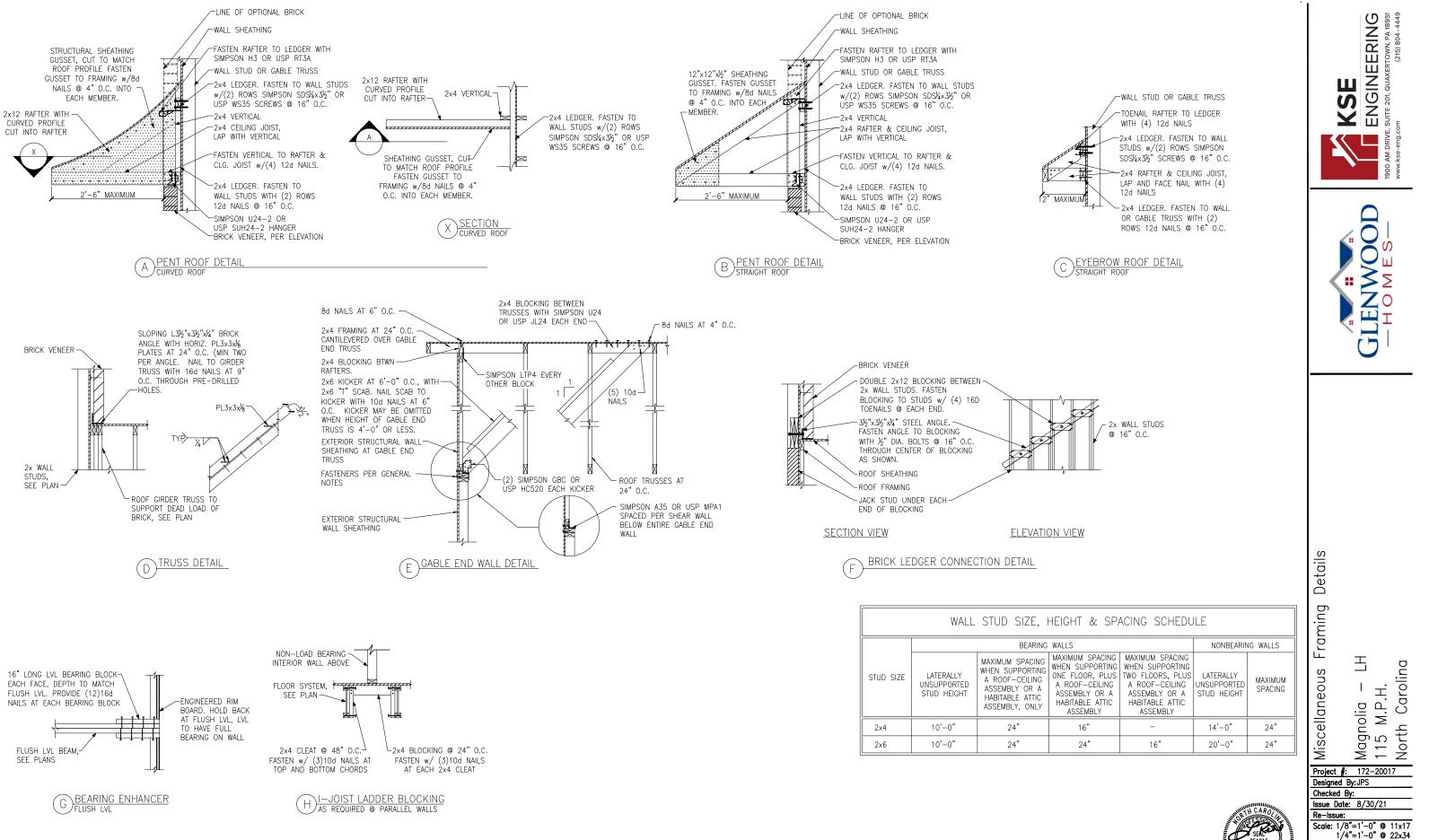
SIMPSON STHD14 STRAP-TIE HOLDOWN WITH (28)16d SINKERS AT STUDS. INSTALL PER MANUFACTURER'S SPECS.

TRIPLE 2x4 P.T. PLATE WITH ONE 5/8" DIA x 8" EMBED ANCHOR BOLT WITH A 3/16"x2"x2" PLATE WASHER

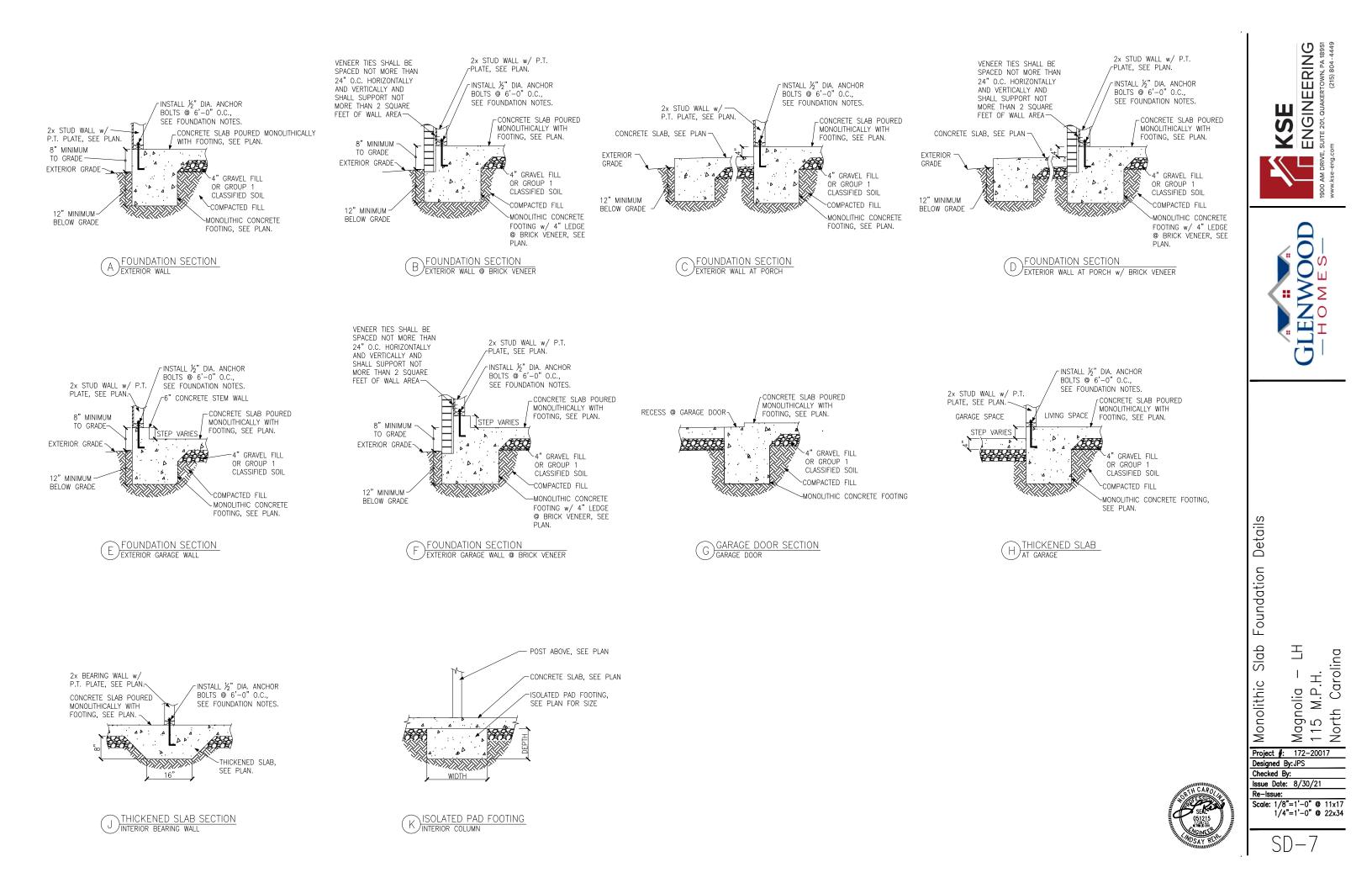


PARTIELE 201, QUAKERTOWN, PA 18951 WWW.Kse-eng.com (215) 804-4449
GLENWOOD -HOMES-
Method CS-EPF: Portal Frame w/ Hold-downs Magnolia – LH North Carolina North Carolina Bigging Science (1/8,=1,-0, €) 1171 North Carolina

SD-5



SD-6



	BRACED WALI	l panel an	D ENGINEERED S
PANEL TYPES	PANEL TYPE	MATERIAL	F
	INTERMITTENT WOOD STRUCTURAL PANEL <u>OR</u>	7/16"OSB	6d OR 8d COMMON N INTERMEDIATE SUPPOR STAPLES AT 3" O.C. A
BWP	INTERMITTENT STRUCTURAL SHEATHING PANEL	THERMO- SHEATH RED	16 GAGE BY 1.25" LO EDGES AND 3" O.C. A <u>0.120x1¼" GALV. ROOF</u> INTERMEDIATE SUPPOR
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROO DRYWALL SCREWS AT
GB(1B)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROO DRYWALL SCREWS AT PROVIDE 2X BLOCKING
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROO DRYWALL SCREWS AT
	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL <u>OR</u>	7/16"OSB	6d OR 8d COMMON N INTERMEDIATE SUPPOR STAPLES AT 3" O.C. A
CS-BWP	CONTINUOUS STRUCTURAL SHEATHING PANEL	THERMO- SHEATH RED	16 GAGE BY 1.25" LO EDGES AND 3" O.C. A <u>0.120x1¼" GALV. ROOF</u> INTERMEDIATE SUPPOR
	CONTINUOUS SHEATHED	7/16"OSB	6d OR 8d COMMON N INTERMEDIATE SUPPOR STAPLES AT 3" O.C. A
CS-PF	PORTAL FRAME	THERMO- SHEATH RED	16 GAGE BY 1.25" LO EDGES AND 3" O.C. A <u>0.120x1¼" GALV. ROOF</u> INTERMEDIATE SUPPOR
CS-EPF	PORTAL FRAME WITH HOLD DOWNS	7/16"OSB	NAILING PER DETAIL
CS-ESW(1)	ENGINEERED SHEAR	7/16"OSB	8d COMMON NAILS AT INTERMEDIATE SUPPOR
C3-L3W(1)	WALL, TYPE 1	THERMO– SHEATH RED	CONTINUOUS AROUND
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16"OSB	8d COMMON NAILS AT INTERMEDIATE SUPPOR
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16"OSB	8d COMMON NAILS AT INTERMEDIATE SUPPOR

BRACED WALL PANEL NOTES:

- 1. 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 DETAILS A & B/SD-1.
- 3. ALL EXTERIOR WALLS OF THE HOUSE ARE SHEATHED WITH 7/16" O.S.B., OR 15/32" PLYWOOD, FASTENED PER IRC TABLE R602.3(1) OR SHEATHED WITH THERMO-SHEATH RED STRUCTURAL SHEATHING, FASTENED WITH 16 GAGE BY 1.25" LONG GALV. STAPLES W/ ¹⁵/₈" CROWN AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT INTERMEDIATE SUPPORTS OR 0.120×1/4" GALV. ROOFING NAILS AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT INTERMEDIATE SUPPORTS.
- 4. WOOD BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC SECTION R602.10. STRUCTURAL SHEATHING BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER TECHNICAL EVALUATION REPORT (TER No. 1310-01) GENERATED BY DR. J ENGINEERING LLC, DATED JANUARY 9, 2023. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.
- 5. ALL EXTERIOR WALLS TO BE 2x STUDS @ 16" O.C. MAXIMUM, UNLESS NOTED OTHERWISE ON PLANS.

ED SHEAR WALL SCHEDULE

FASTENERS

ON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT PPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG .C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS LONG GALV. STAPLES W/ 15/6" CROWN AT 3" O.C. AT SHEET C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: ROOFING NAILS AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT PORTS ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.

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

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

ON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT PPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG .C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS LONG GALV. STAPLES W/ 15/6" CROWN AT 3" O.C. AT SHEET .C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: ROOFING NAILS AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT PORTS

ON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT PPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG .C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS LONG GALV. STAPLES W/ 15/6" CROWN AT 3" O.C. AT SHEET C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: ROOFING NAILS AT 3" O.C. AT SHEET EDGES AND 3" O.C. AT PORTS

S AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT PPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

UND DOOR/WINDOW OPENINGS

S AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT PPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS S AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT PPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS



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SD-12