TRILLIUM H&H HOMES - GARAGE LEFT

PLAN REVISIONS

ISSUANCE OF PLANS FROM THIS DRAFTERY'S CIFFICE SHALL NOT RELEVE THE BUILDER OF RESPONSELLITY TO REVEW AND VEREY'ALL NOTES, DARRISONS, AND ACKERSING: TO APPLICABLE BUILDING CODES PROR TO COMBENDERY OF ANY CONSTRUCTION.

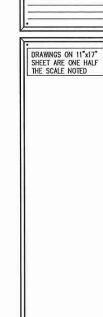
ANY CONSERVANCY OF ERROR NOTES, DARRISONS, OR AMERICAE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COMBINISTANCY OF ANY CONSTRUCTION.

ANY REVISIONS OR CHAMES, NOT RELATED TO THE CORRECTION OF BROOSS THAT ARE MADE AFTER THE FIRM FACES HAVE BEEN COMMENTED THE STREET OF DOCTORIAL FIELS.

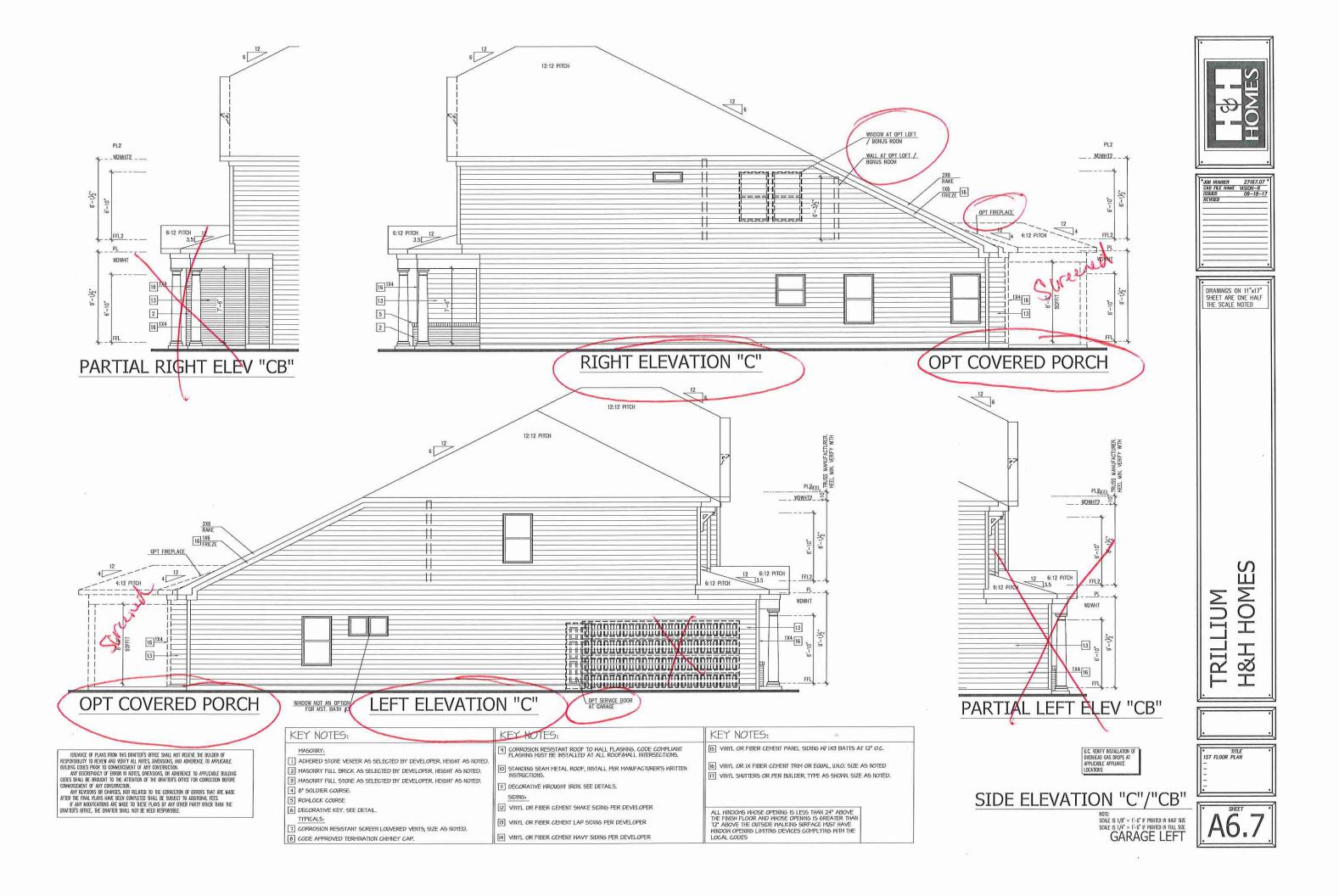
F ANY MODIFICATIONS ARE MADE TO TRESE PLANS BY ANY OTHER PRATY OTHER THAN THE DRAFTER'S CIFFICE, THE BRAFTER SHALL NOT BE HELD RESPONSERE.



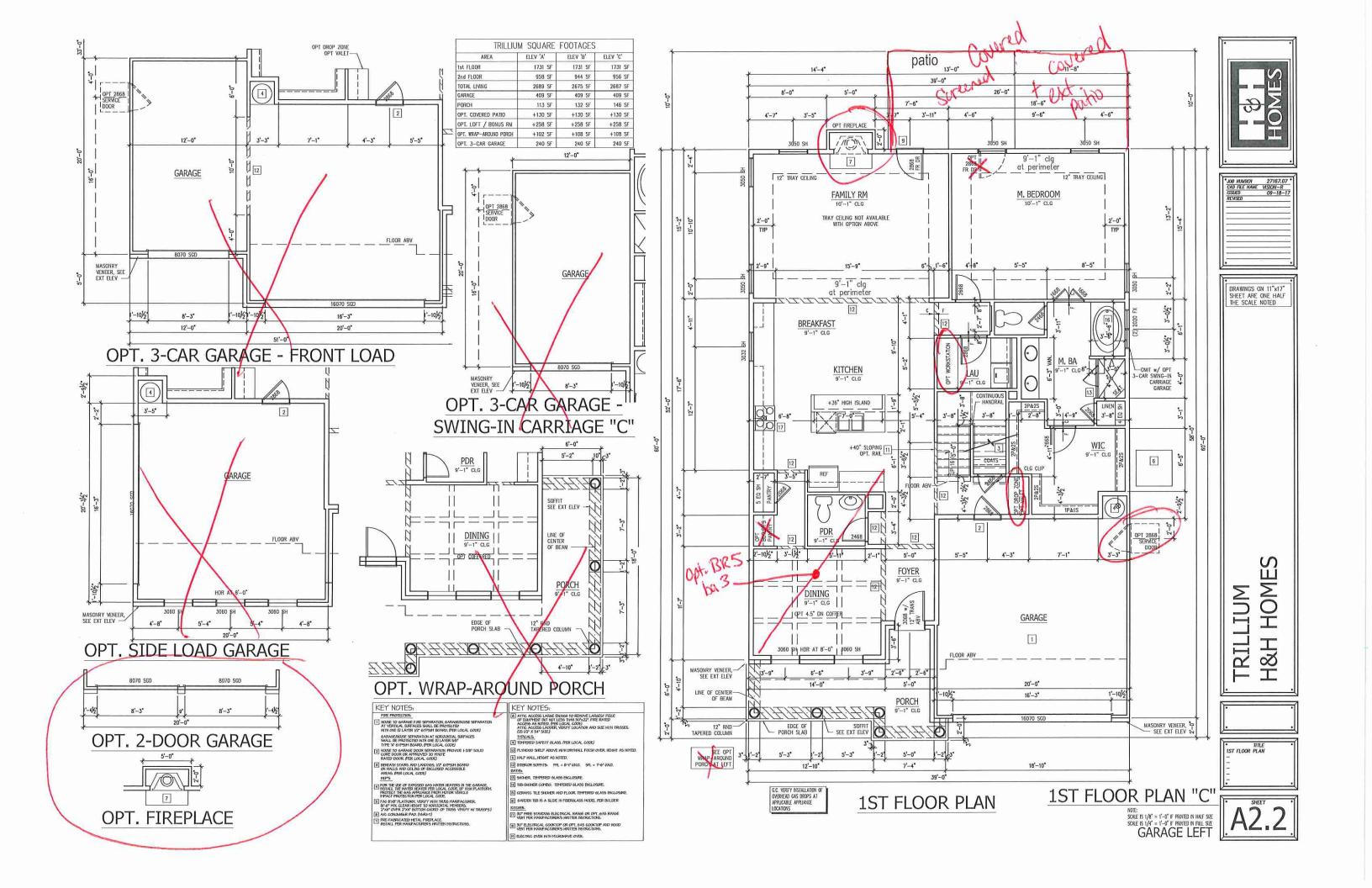
H&H HOMES TRILLIUM

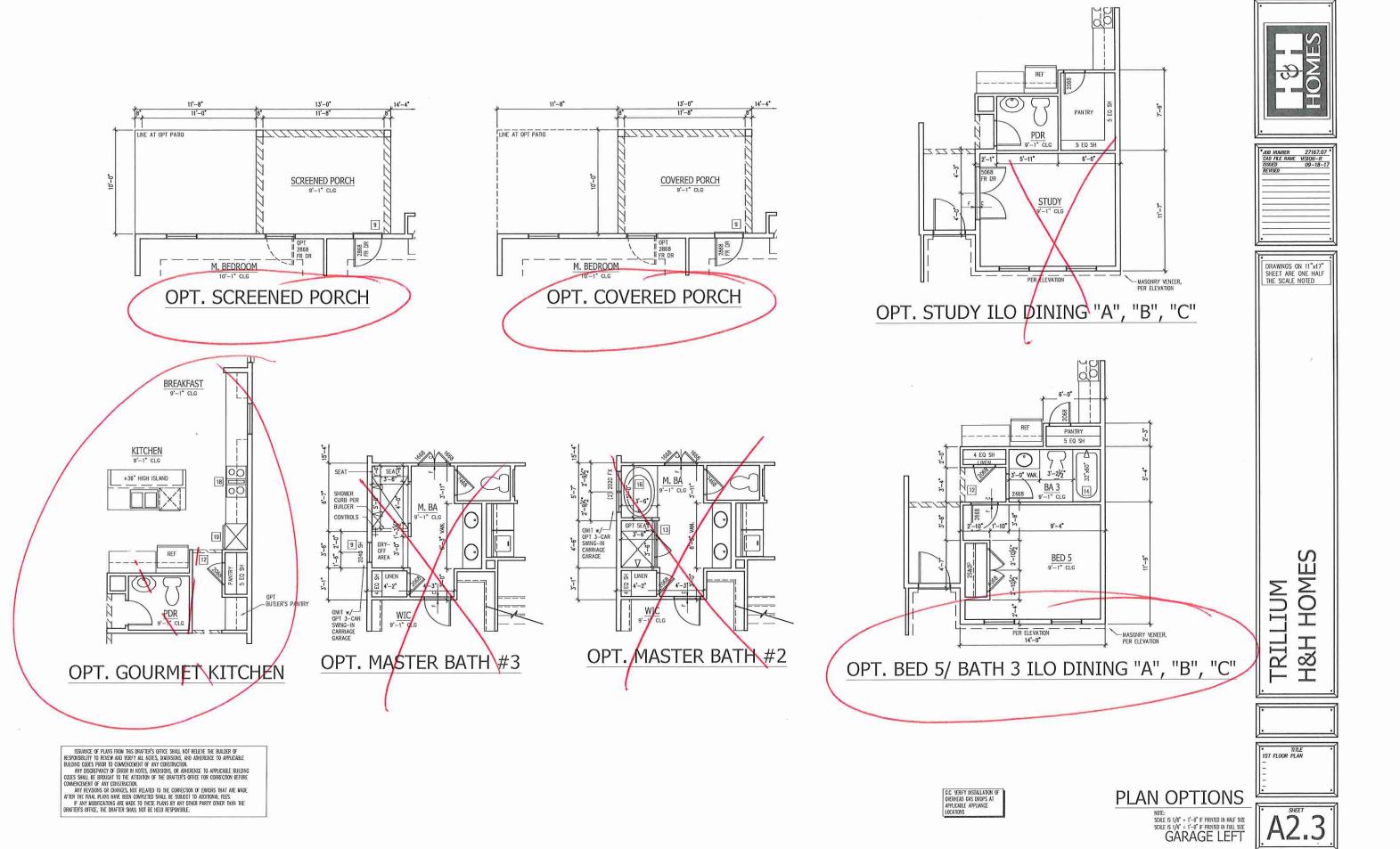


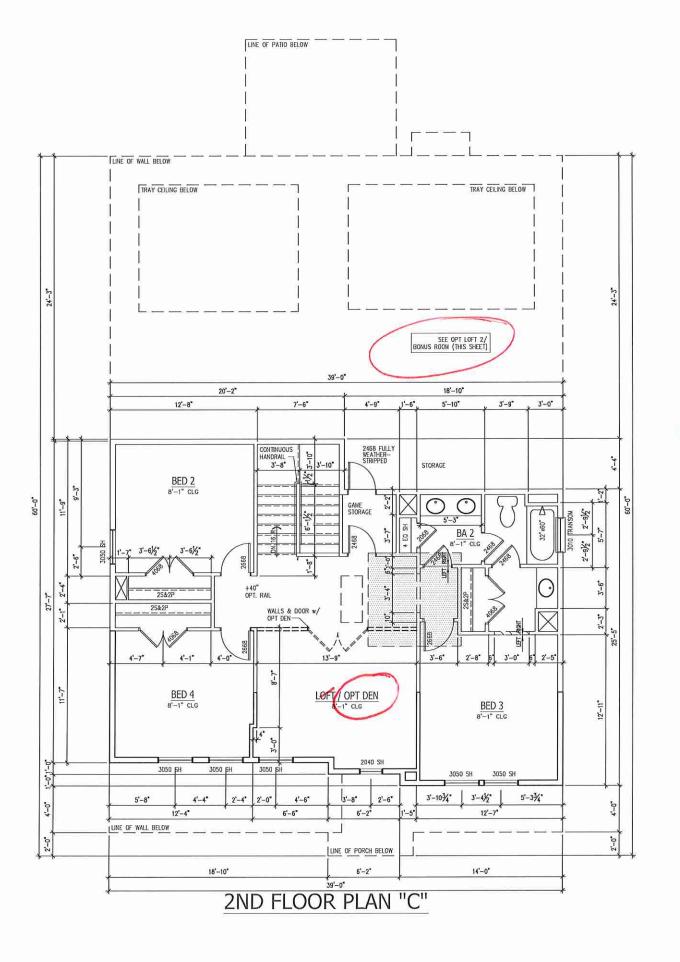


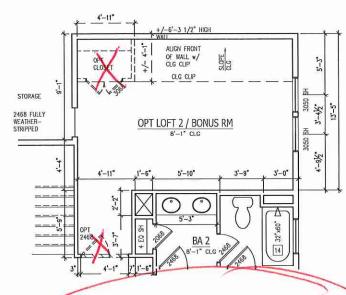












OPT. LOFT 2 / BONUS ROOM



DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

ES H&H HOM TRILLIUM

IST FLOOR PLAN

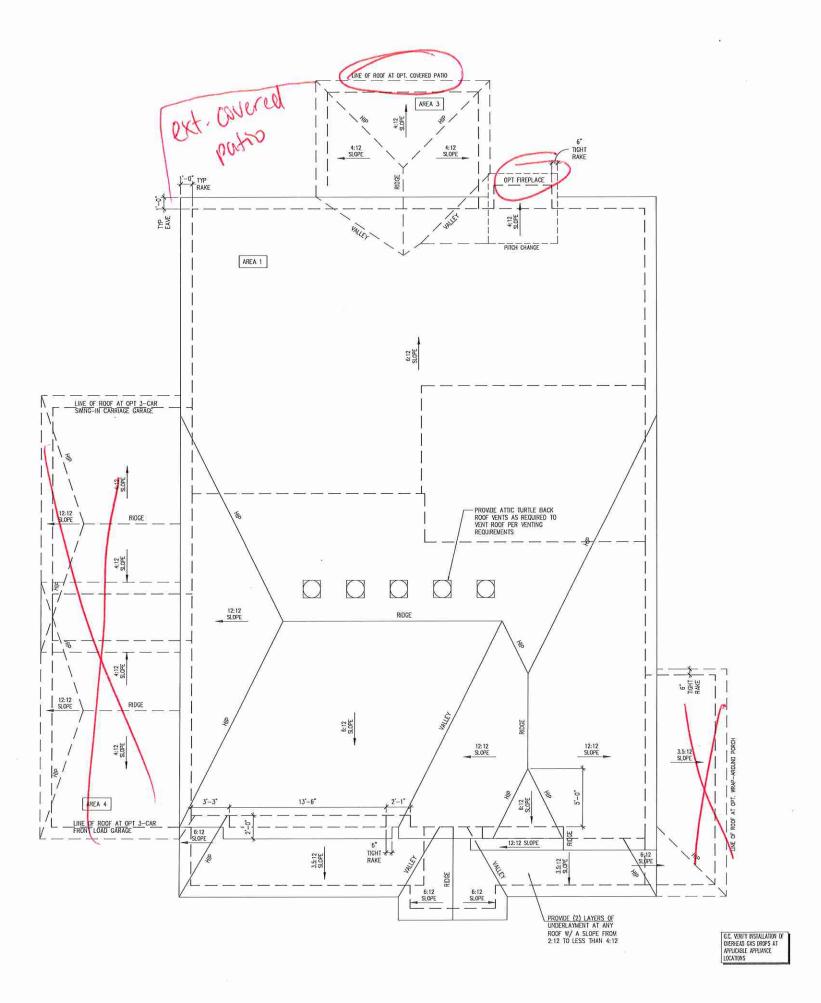
2ND FLOOR PLAN "C"

NOTE:
SCALE IS 1/8" = 1'-0" F PRINED IN HALF SZE
SCALE IS 1/4" = 1'-0" F PRINED IN PULL SIZE
GARAGE LEFT

ISSUANCE OF PLAYS FROM THIS DRAFTER'S GETICE SHALL NOT RELIEVE THE BUILDER OF FESTIONSBUILTY TO REVEN AND VERFY ALL NOTES, DMENSORS, AND ARREPRICE TO APPUCABLE BUILDING CODES FROM TO COMMENDERATE OF ANY CONSTRUCTION.

ANY DISPERIENCE OF BRONG HOUTES, DMENSORS, OR DIMERRICE TO APPUCABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ORATER'S GETICE FOR CORRECTION BEFORE COMMENSUART OF ANY CONSTRUCTION.

ANY REVISIONS OF DRAWES, NOT RELIABLE TO THE CORRECTION OF BERIORS THAT ARE MADE AFTER THE FINAL PLAYS HAVE EVEN COMPLETED SHALL BE SUBJECT TO ACCORDING FEES. IF ANY ACOUSTACROES ARE MADE TO THESE PLAYS BY ANY OTHER PRINTY OTHER THAN THE DRAFTER'S GETICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.





DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

ES HOME TRILLIUM H&H



ITTLE

ROOF PLAN "C"

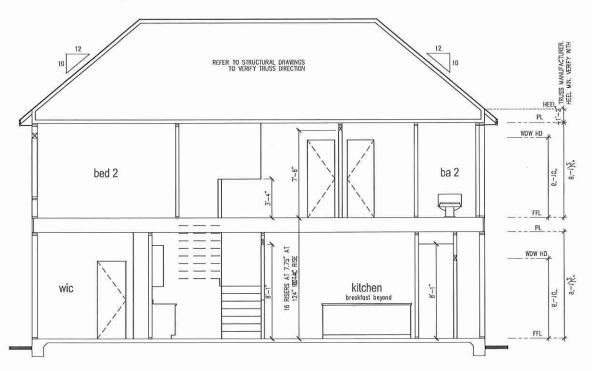
NOTE: SCALE IS 1/4" = 1"-0" IF PRINTED IN HALF STE SCALE IS 1/4" = 1"-0" IF PRINTED IN FULL 97E GARAGE LEFT

SHEET

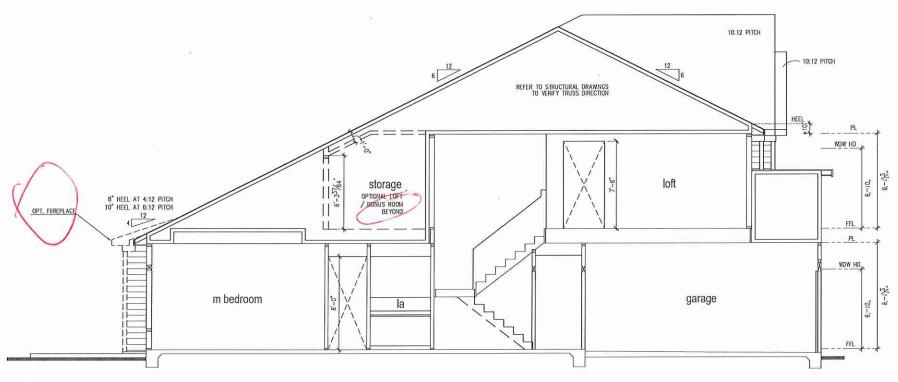
ISSUANCE OF PLANS FROM THIS DRATTER'S OFFICE SHALL NOT RELEVE THE BULDER OF RESPONSIBILITY TO REVEN AND VERFY ALL NOTES, DVENSORS, AND ADMERINCE TO APPLICABLE BULDING COOLES FROM TO COMPANDIENT OF ANY CONSTRUCTION.

ANY DISCREPANCY OF BERRY ROVED, DVENSORS, OR DISEBERNE TO APPLICABLE BULDING COOLES SHALL BE BROUGHT TO THE ATTENTION OF THE DRATTER'S OFFICE FOR CORRECTION BEFORE COMPENSIONED OF ANY CONSTRUCTION.

ANY REVISIONS OF DURINGES, NOT RELIABLE TO THE CORRECTION OF BERROES THAT HEE MADE AFTER THE PINAL PLANS HAVE BEEN COMPARIED SHALL BE SUBJECT TO MODITARIL FEELS. IF ANY MODIFICATIONS ARE MUSE TO THESE PLANS BY ANY OTHER PRITY OTHER THAN THE DRATTER'S OFFICE, THE ORDATION BY BULL BUT SEPARATED SHALL NOT BE HELD RESPONSIBLE.



BUILDING SECTION 1



SSUANCE OF PLANS IROU THIS DRAFTER'S OFFICE SHALL NOT RELEVE THE BULDER OF RESPONSIBILITY TO REVEW AND VERRY ALL NOTES, DWENSONS, AND ADSERBAGE TO APPLICABLE BULDONS COCES PROR TO COMENCEMENT OF ANY CONSTRUCTION.

ANY DISOPPORTS OF ERROR IN DISTS, DUENSONS, OR ADSERBAGE TO APPLICABLE BULDONS COLES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COMPRESSION OF ANY CONSTRUCTION.

ANY REVISIONS OR CRAWES, NOT RELATED TO THE CORRECTION OF THERROR THAT ARE ANDE AFTER THE THAL FLANS HAKE BEEN COMPARETED SHALL BE SUBJECT TO ADDITIONAL FEES.

FARY MODIFICATIONS ARE AUGE TO THESE FLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NO BE HELD RESPONSIBLE.

BUILDING SECTION 2

G.C. VERIFY INSTALLATION OF OVERHEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

BUILDING SECTION

NOTE:
SCALE IS 1/8" = 1"-0" IF PRINTED IN HALF SIZE
SCALE IS 1/4" = 1"-0" IF PRINTED IN FULL SIZE
GARAGE LEFT

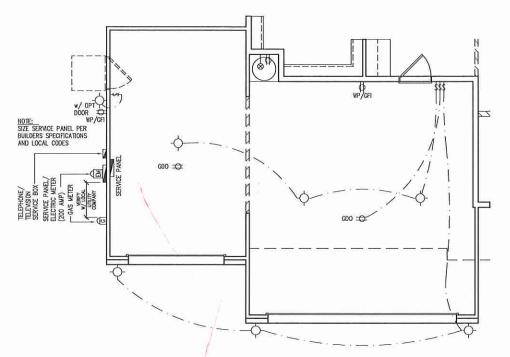




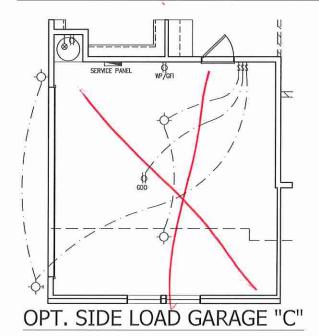
DRAWINGS ON 11"×17" SHEET ARE ONE HALF THE SCALE NOTED

ES H&H HOM TRILLIUM

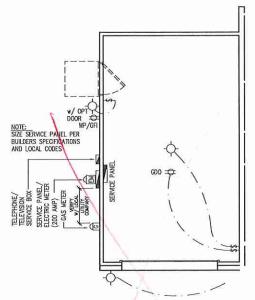
* TITLE IST FLOOR PLAN



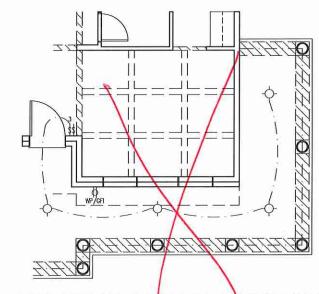
OPT. 3-CAR GARAGE - FRONT LOAD



	ELECTRICAL LEGEND					
	DESCRIPTION					
b	SINGLE POLE SMITCH	-	PENDANT LICHT			
\$ ⁵	THREE-WAY SMICH		RECESSED LIGHT			
\$	FOUR-WAY SWICH	5D/6H5D.	SMOKE DETECTOR/ CARBON MONOXOE DETECTOR			
Ф	DUPLEX RECEPTACLE	Œ	THERMOSTAT			
WP.	WATERPROOF RECEPTACLE		exhaust fan Waught			
\$ \$	GROUND FAULT DUPLEX RECEPTACLE	PANEL	ELEC. PANEL BOX			
220	220 RECEPTACLE		CELUNC/ FAN LIGHT COVER			
Φ	COLING DUPLEX RECEPTAGLE	00	CERNOT IN DAIL CONDO			
(10)	FLOOR DUPLEX RECEPTAGLE	C 0 C 2				
φ	SCONCE/WALL LIGHT	00	COT. CELLING FAN			
- -	CELLING FIXTURE) —(FLOURESCENT LIGHT			

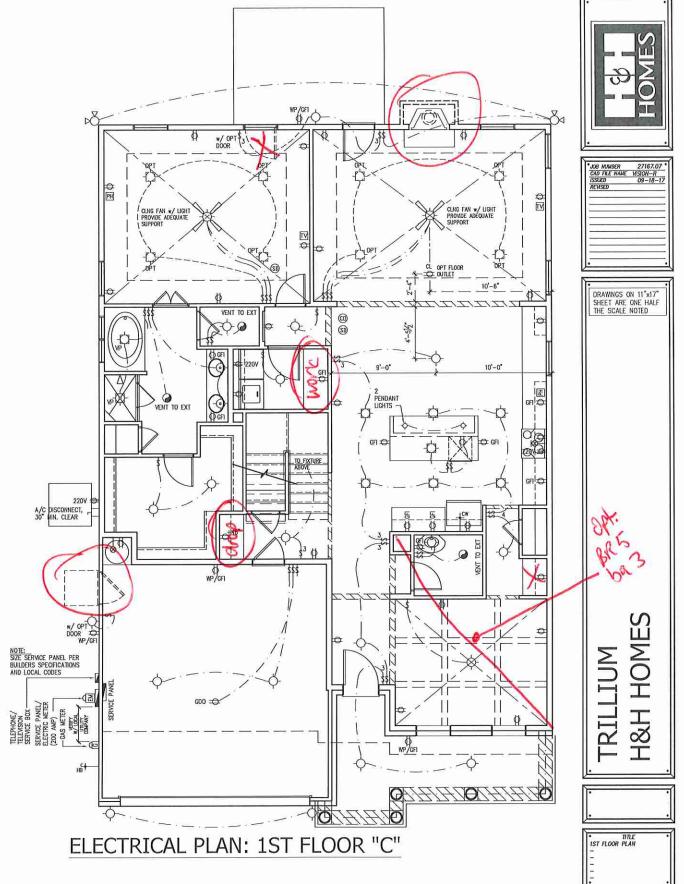


OPT. 3-CAR GARAGE -SWING-IN CARRIAGE "C"



OPT. WRAP-AROUND PORCH "C"

ISSUANCE OF PLANS FROM THIS BRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVEW AND VERFY ALL NOTES, DIVERSIONS, AND ADMERING: TO APPLICABLE BUILDING COCES PROR TO COMMENCIATH OF ANY CONSTRUCTION, ANY DISSEPANCY OF BRISE OF MOISES, DIVERSOR, OR ADMERINGE TO APPLICABLE BUILDING COSES SHALL BE BROUGHT TO THE ATTENTION OF THE BRAFTER'S OFFICE FOR CORRECTION BEFORE CONNECCENT ON ANY CONSTRUCTION ANY ENTRY CONSTRUCTION ANY ENTRY ON THE STATE OFFICE TO ADMITTANT ARE MADE AFTER THE FRAM, PLANS HARE BEEN CONFLICTED SHALL BE SUBJECT TO ADMITTANT AFTER FRAM, PLANS HARE BEEN CONFLICTED SHALL BE SUBJECT TO ADMITTANT AFTER. FANT HORSELENCE TO REPORT OFFICE THAT THE BRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.



G.C. VERFY INSTALLATION OF OVERHEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

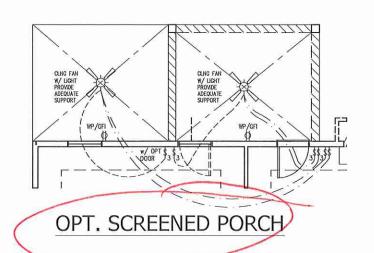
1ST FLOOR ELECTRICAL PLAN "C"

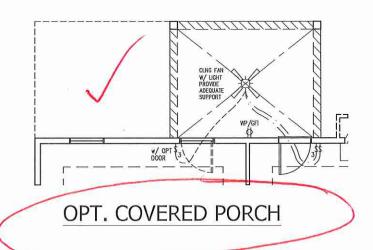
NOTE:

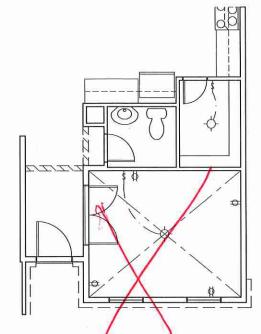
SCALE IS 1/8" = 1"-0" F PRINTED IN HALF SIZE

SCALE IS 1/4" = 1"-0" F PRINTED IN HALF SIZE

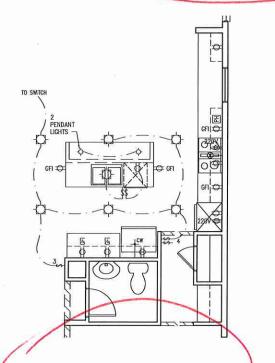
GARAGE LEFT



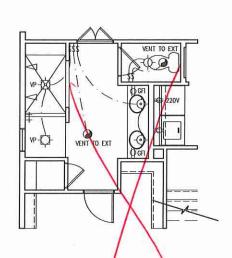




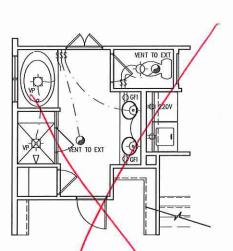
OPT. STUDY ILO DINING "A", "B", "C"



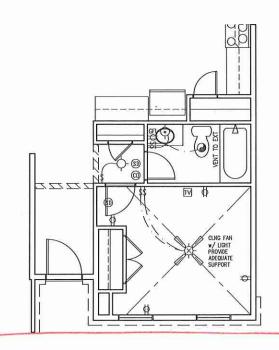




OPT. MASTER BATH #3



OPT. MASTER BATH #2



OPT. BED 5/ BATH 3 ILO DINING "A", "B", "C"

ISSUINCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BULDER OF RESPONSBULLY TO REVEW AND VEREY ALL NOTES, DMENSIGES, AND AMERICANE TO APPLICABLE BULDOS CODES PRORE TO COMERCIZION OF ANY CONSTRUCTION.

ANY DOSPROMENCY OF BRISE IN NOTES, DMENSIONS, OR DMERENCE TO APPLICABLE BULDING CODES SHALL BE BROUGHT TO THE ATTRIBUTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COMPANIZATION OF ANY CONSTRUCTION.

ANY REVISIONS OR CHANGES, NOT RELIED TO THE CORRECTION OF THEORY THAT ARE MADE AFTER THE PRIAL PLANS HARE ELEN CORPORTED SHALL BE SUBJECT TO ADDITIONAL FEES.

FARY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY ORDER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

ELECTRICAL PLAN ON PLAN OPTIONS

NOTE:
SCALE IS 1/8" = 1"-0" IF PRINTED IN HALF SIZE
SCALE IS 1/4" = 1"-0" IF PRINTED IN HALF SIZE
GARAGE LEFT

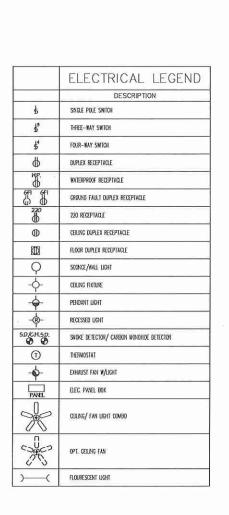
ITTLE IST FLOOR PLAN





DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

HOMES TRILLIUM H&H

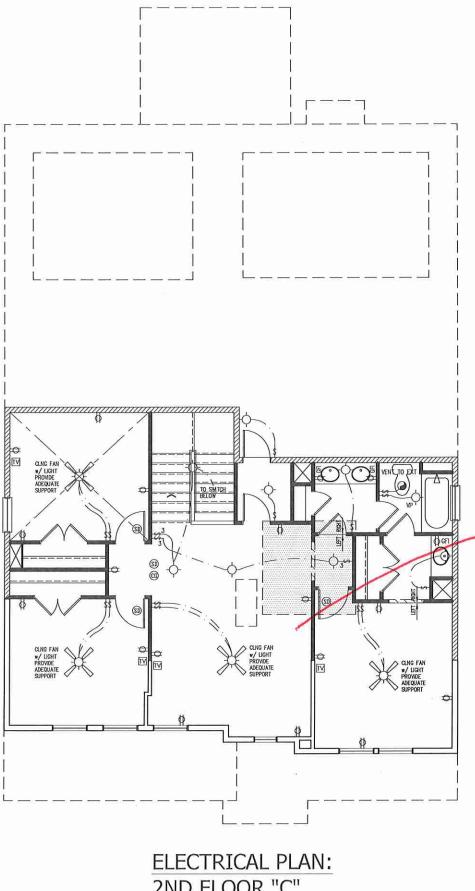


ISSUINCE OF PLANS FROM THIS BRAFTER'S CITICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVER AND VEREY ALL NOTES, DARASSONS, AND ARRESTNE TO APPULABLE BUILDING COCKS FROM TO COMPRICEIUM OF ANY CONSTRUCTION.

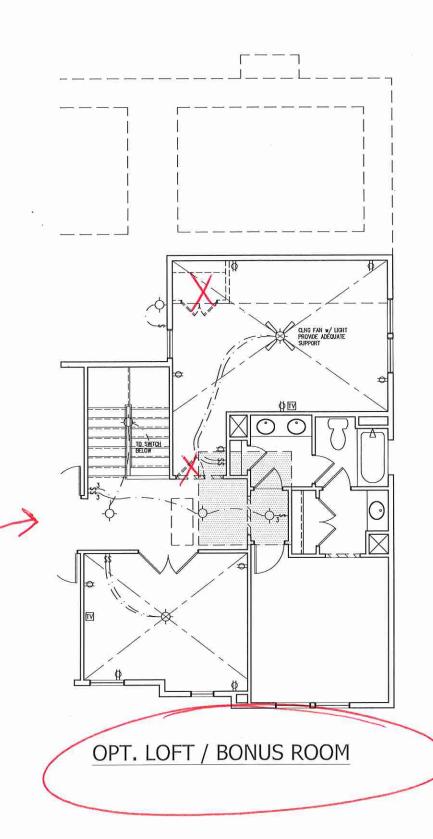
ANY DOSSPRINCY OF BRIEF IN NOTES, DAMPSONS, OR ARRESTNE TO APPULABLE BUILDING COCKS SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COMMISSIONED OF ANY CONSTRUCTION.

ANY REVISIONS OR CHANGS, NOT RELIED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLANS HAVE BEEN COMPLICIED SHALL BE SUBJECT TO ADDITIONAL FEES.

FARY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE CRAFTER'S CITICE, THE BRAFTER SHALL NOT BE HELD RESPONSIBLE.



2ND FLOOR "C"



2ND FLOOR ELECTRICAL PLAN "C"

NOTE:
SCALE IS 1/8" = 1'-0" IF PRINTED IN HALF SZE.
SCALE IS 1/4" = 1'-0" IF PRINTED IN HALF SZE.
GARAGE LEFT

DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

HOMES TRILLIUM H&H

1ST FLOOR PLAN



1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951 (215) 804 - 4449 www.kse-eng.com

TRILLIUM

CAROLINA DIVISION

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.

DESIGN SPECIFICATIONS:

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

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- · UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
- · HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR = 40 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK = 40 PSFBALCONY = 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
- · 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 = 120 MPH
- EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12"

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- TJI 210 SERIES (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 PSL: E=2,100,000 PSI, F_B=2,900 PSI, F_V=290 PSI, F_C=625 PSI

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE. WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRC R301.1.3.







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Trillium Model 120 M.P.H. Carolina Divisio

Cover Project #: 105-16011

Designed By: KRK Checked By:

Issue Date: 4/8/19 Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

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 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
- 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.
- 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 THI 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 FLEMENTS 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.
- 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. PROVIDE MOISTURE PROTECTION AND FLASHING PER ARCHITECTURAL

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 BEFORE PROCEEDING
- 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
- WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2" 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, 1/2" DIAMETER x 8" LONG SIMPSON TITEN HD 1. OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1
- 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%
- 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.
- 13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

CONCRETE & REINFORCING

- CONCRETE DESIGN BASED ON ACL 318 AND ACL 318.1 OR ACL 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
- CONCRETE SLARS-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
- 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.
- 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.
- POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.
- 10. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- 11. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACL 315: "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
- 12. 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.
- 13. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:
 - #4 BARS 30" LENGTH #5 BARS - 38" LENGTH #6 BARS - 45" LENGTH
- 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.
- WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED
- 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.
- 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.

- 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 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 36" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000
- 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 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 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.
- WALL STUD SPACING, (MAXIMUM 10' NOMINAL PLATE HEIGHT): 1 & 2 STORY EXTERIOR AND INTERIOR BEARING: 2x4 @ 16" O.C. OR 2x6 @ 24" O.C., U.N.O.
 - BOTTOM OF 3 STORIES EXTERIOR AND INTERIOR BEARING: 2x6 @ 16" O.C., U.N.O. INTERIOR NON-BEARING:
- 2x @ 24" O.C., U.N.O 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 FASE 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.
- 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.
- 10. FASTEN 4-PLY BEAMS WITH (1) 1/2" DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 11/2" MINIMUM EDGE DISTANCE, (UNLESS OTHERWISE NOTED)
- 11. 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.
- 12. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. (1) STUD UP TO 6' OPENING
- (2) STUDS UP TO 8' OPENING (3) STUDS UP TO 9' OPENING
- 13. 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.
- 14. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS. 15. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY
- (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED. 16. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND
- 17. 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,
- 18. 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.
- 19. DIAGONAL BRACING SHALL BE INSTALLED AT EACH END OF BASEMENT BEARING WALLS AND NOT MORE THAN 20' ON CENTER

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 GUARD RAILS REQUIRED AT DECKS. DESIGN BY OTHERS TO MEET
- MINIMUM CODE REQUIREMENTS. PROVIDE DECK LATERAL LOAD AND BRACING CONNECTIONS PER BUILDING

RAFTER FRAMED ROOF CONSTRUCTION: 1. 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 CFILING 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 BRACING ON TOP FDGE 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
- FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
- 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
- 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
- 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"
- 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 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 DIACONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEFT O.C. DIAGONAL BRACES SHALL BE FASTENED TO EACH 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.) IS 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
- 10. 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
- 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 %6" OSB OR PLYWOOD MINIMUM, AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.
- 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 FIFLD LINLESS 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 %5" OSB MINIMUM.
- 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 X" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

STRUCTURAL FIBERBOARD PANELS:

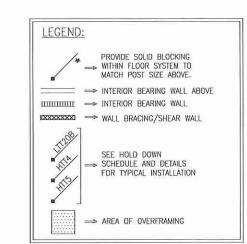
- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
- FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS.
- FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING 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 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL SHALL BE FABRICATED AND FRECTED 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
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F,) 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
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 36" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 1/2" 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"

MECHANICAL FASTENERS:

- 1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED FOLIVALENT
- 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 APPLICABLE CORROSIVE CHEMICALS.



SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3½"x3½"x¼"	4"
UP TO 6'-3"	5"x3½"x¾6" L.L.V.	8"
UP TO 9'-6"	6"x3½"x½" L.L.V.	12"



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Project #: 105-19000 Designed By: KRK

Checked By Issue Date: 1/1/19

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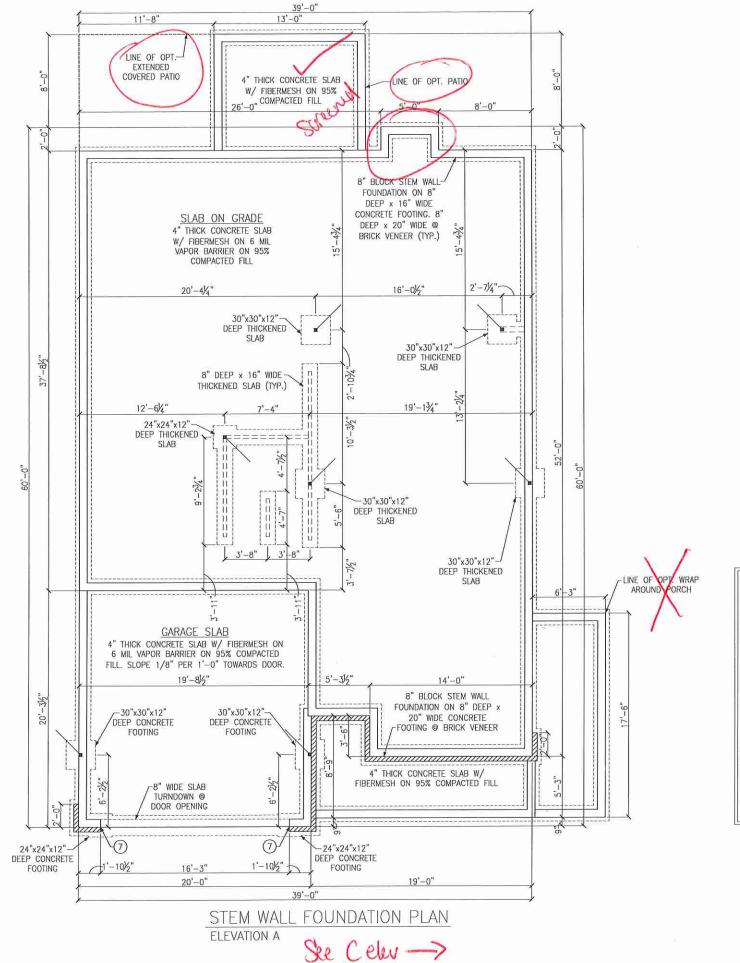
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Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



-30"x30"x12" DEEP CONCRETE

FOOTING

8" WIDE SLAB TURNDOWN @ DOOR OPENING

-30"x30"x12"

DEEP CONCRETE

FOOTING

PARTIAL FRAMING PLAN

PARTIAL FRAMING PLAN

OPT. 2 DOOR GARAGE

-8" WIDE SLAB 30"x30"x12" TURNDOWN @ DEEP CONCRETE

FOOTING

7

OPT. SIDE LOAD GARAGE

-8" WIDE SLAB

DOOR OPENING

7)

7

GARAGE SLAB

4" THICK CONCRETE SLAB W/ FIBERMESH ON 6 MIL VAPOR BARRIER ON 95% COMPACTED FILL. SLOPE 1/8" PER 1'-0" TOWARDS DOOR.

> 0"x30"x12"— DEP CONCRETE FOOTING





LEGEND

PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

⇒ BEARING WALL ABOVE ⇒ BRACED WALL PANEL 48" WSP (SEE KSE STRUCTURAL DETAIL

SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) ZZZZZZZZZ

LOCATION OF DOOR ABOVE

REFER TO KSE STRUCTURAL DETAILS SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

KEYNOTES:

7) REINFORCE 8" CMU WALL AND FOOTING UNDER PORTAL FRAME PER DETAIL A OR B/SD-4.



Stem Wall Founds Elevation A & Op Trillium Model — 120 M.P.H. Carolina Division

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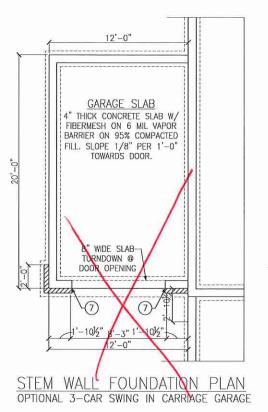
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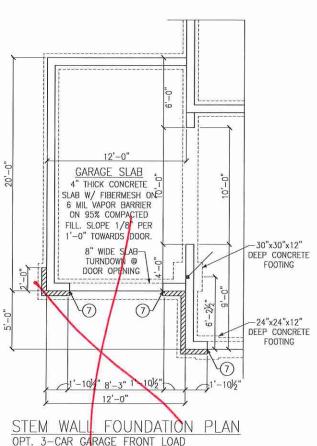
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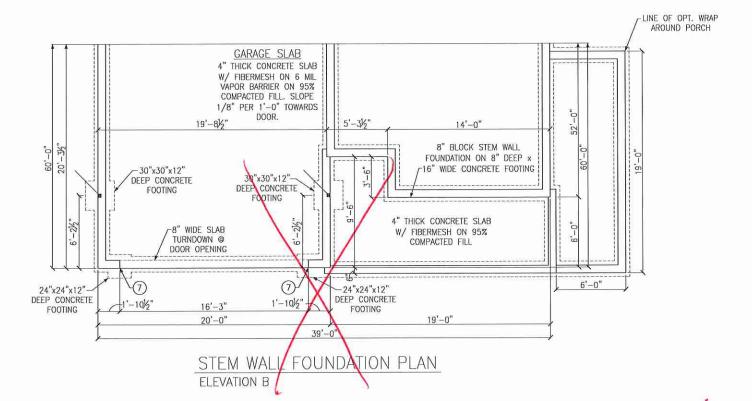
Project #: 105-16011 Designed By: KRK Checked By:

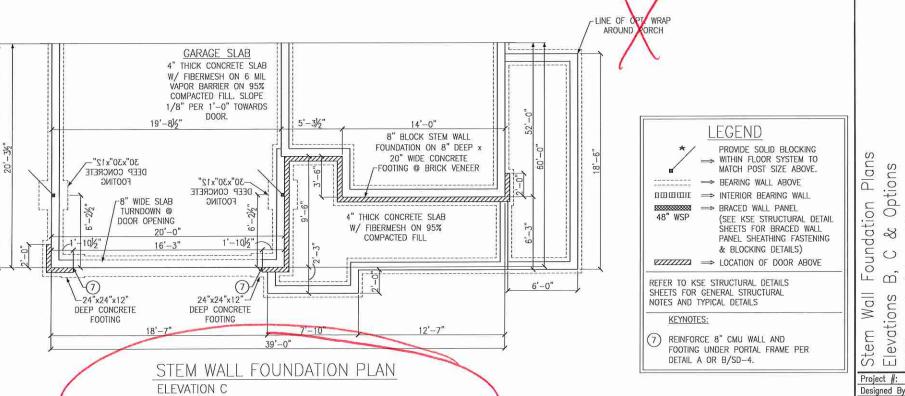
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NC FIRE FC-210

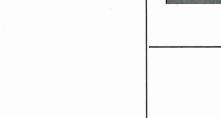
Designed By: KRK Checked By:

Issue Date: 4/8/19
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

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Plans

Framing Option



BRACED WALL PANEL (SEE KSE STRUCTURAL DETAIL

SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) REFER TO KSE STRUCTURAL DETAILS

SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

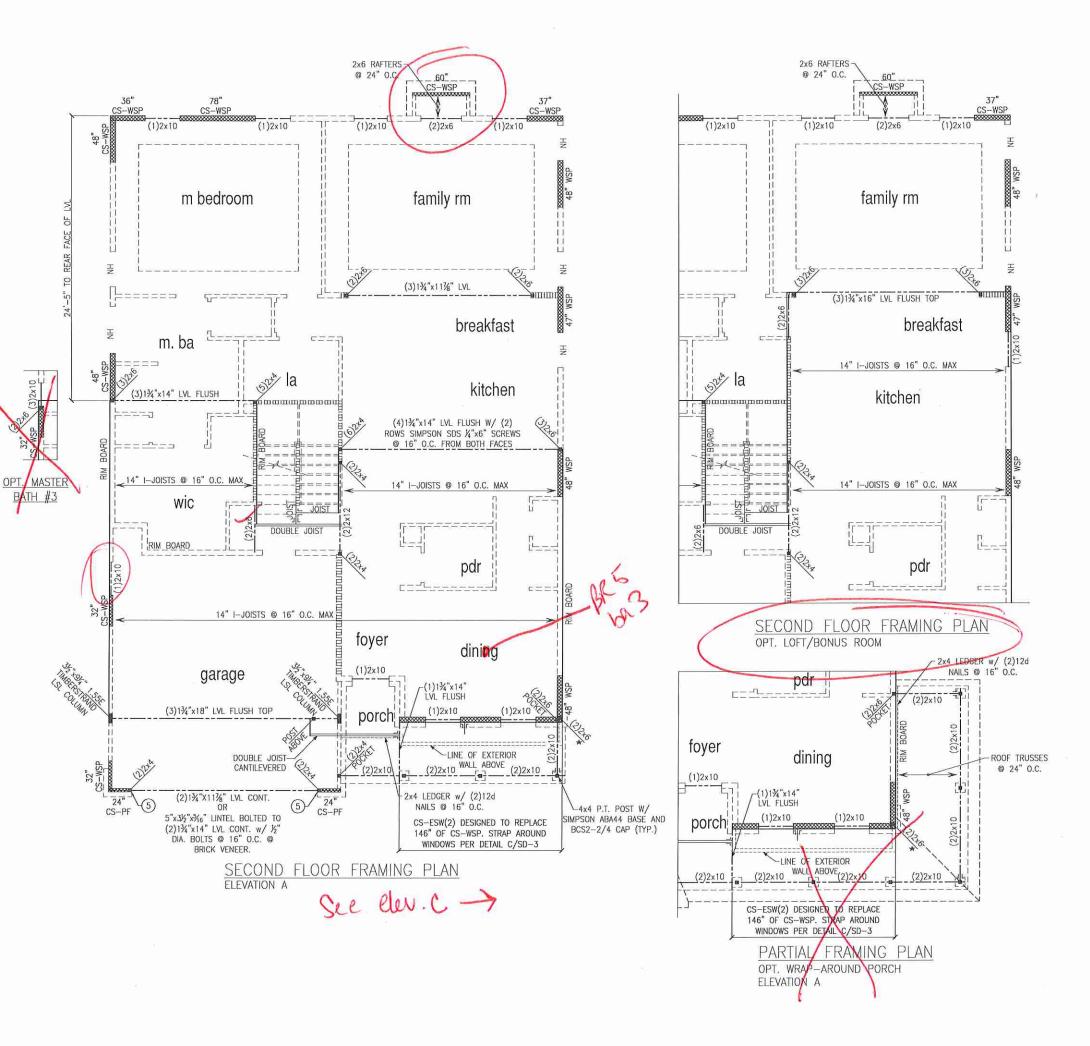
PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL

KEYNOTES:

- (4) INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- (5) INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.





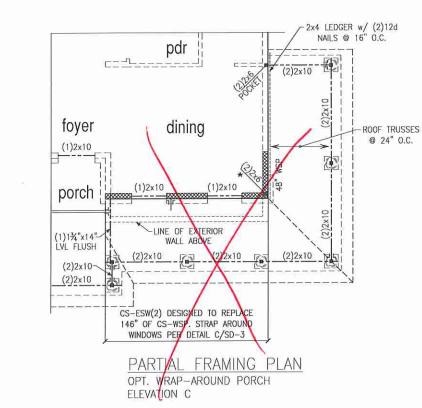
Second Floor Fra Elevation A & Op Trillium Model — 120 M.P.H. Carolina Division

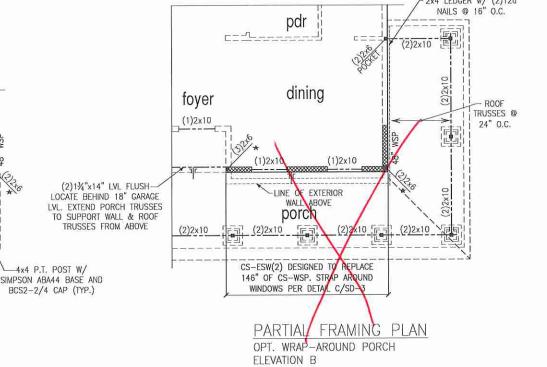
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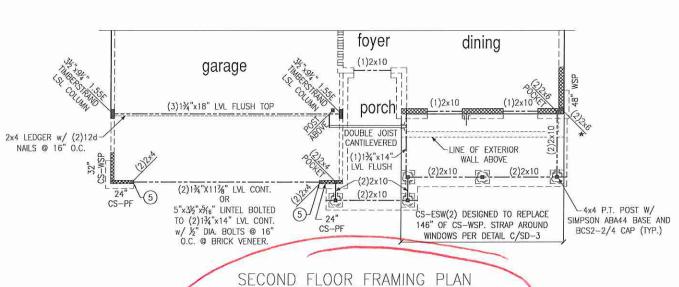
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

Designed By: KRK Checked By:

Issue Date: 4/8/19







foyer

(1)2x10

porc

LOOR_FRAMING PLAN

(2)1¾"x14" VL FLUSH— LOCATE BEHIND 18" GARAGE

LVL. EXTEND PORCH TRUSSES TO SUPPORT WALL & ROOF TRUSSES FROM ABOVE

garage

(3)1¾"x18" LVL FLUSH TOP

(2)1¾"X11%" LVL CONT.

ELEVATION B

ELEVATION C

2x4 LEDGER w/ (2)12d-

NAILS @ 16" O.C.

24" \₍₅₎

CS-PF

dining

-LINE OF EXTERIOR WALL ABOVE

CS-ESW(2) DESIGNED TO REPLACE

146" OF CS-WSP. STRAP AROUND

WINDOWS PER DETAIL C/SD-3

(1)2x10

(2)2x10

(1)2x10



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LEGEND

PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

→ BEARING WALL ABOVE ⇒ INTERIOR BEARING WALL

⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAIL SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL

KEYNOTES:

48" WSP

- (4) INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- (5) INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.



Carolina Division Second Floor F Elevations B & Trillium Model 120 M.P.H. Project #: 105-16011 Designed By: KRK

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Checked By: Issue Date: 4/8/19

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Framing

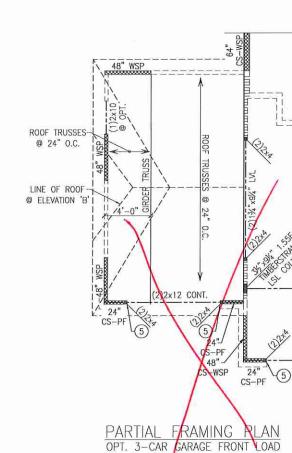
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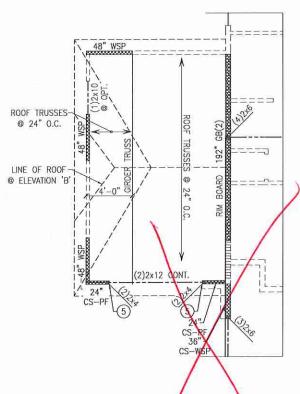
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Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



ROOF TRUSSES-@ 24" O.C. 4x4 P.T. POST W/-SIMPSON ABA44 BASE AND BCS2-2/4 CAP (TYP.) ROOF TRUSSES @ 24" O.C. CS-WSP (1)2x10 CS-WSP (1)2x10 (2)2x6 PARTIAL FRAMING PLAN OPT. COVERED PATIO





LEGEND

PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

 \implies BEARING WALL ABOVE IDIDIDIDI ⇒ INTERIOR BEARING WALL ⇒ BRACED WALL PANEL 48" WSP

(SEE KSE STRUCTURAL DETAIL SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 110 I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL

KEYNOTES:

- (4) INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- (5) INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.

Options
Trillium Model —
120 M.P.H.
Carolina Division Second Project #: 105-16011 Designed By: KRK Checked By:

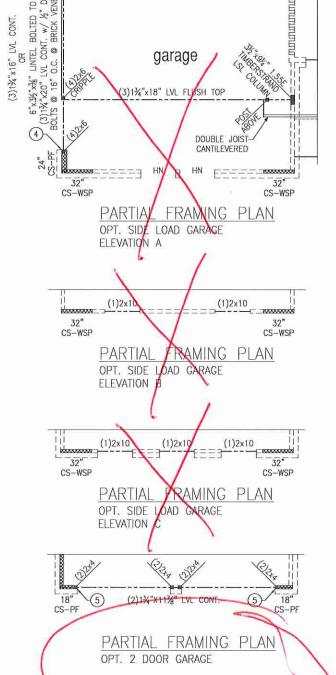
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Plans

Framing

Floor

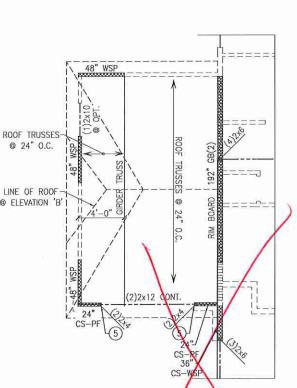
Issue Date: 4/8/19 Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



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DOUBLE JOIST

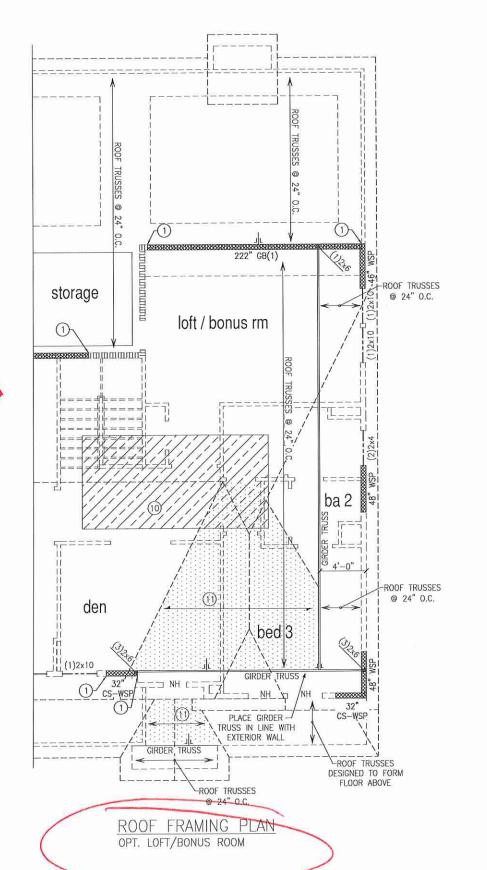
14" I-JOISTS @ 16" O.C. MAX



PARTIAL FRAMING PLAN

OPTIONAL 3-CAR SWING IN CARRIAGE GARAGE





<u>LEGEND</u>

PROVIDE SOLID BLOCKING

WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

⇒ BEARING WALL ABOVE

⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAIL SHEETS FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SHEETS FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' WALL PLATES

KEYNOTES:

48" WSP

- (1) CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS22 COIL STRAP WITH MIN 8-10d NAILS EACH END.
- 8'x16' HVAC PLATFORM TRUSSES
 DESIGNED TO SUPPORT HVAC UNITS.
- (1) 2x6 OVERFRAMING W/ 2x8 RIDGE AND VALLEY PLATES OR VALLEY SET TRUSSES @ 24" O.C. (TYP.)
- (12) 2x6 RAFTERS © 24" O.C. ON 2x4 RAKED KNEE WALLS, PROVIDE 2x4 BLOCKING BETWEEN TRUSSES UNDER KNEE WALLS.



Roof Framing Pla Elevation C & Op Trillium Model — 120 M.P.H. Carolina Division

Option - LH

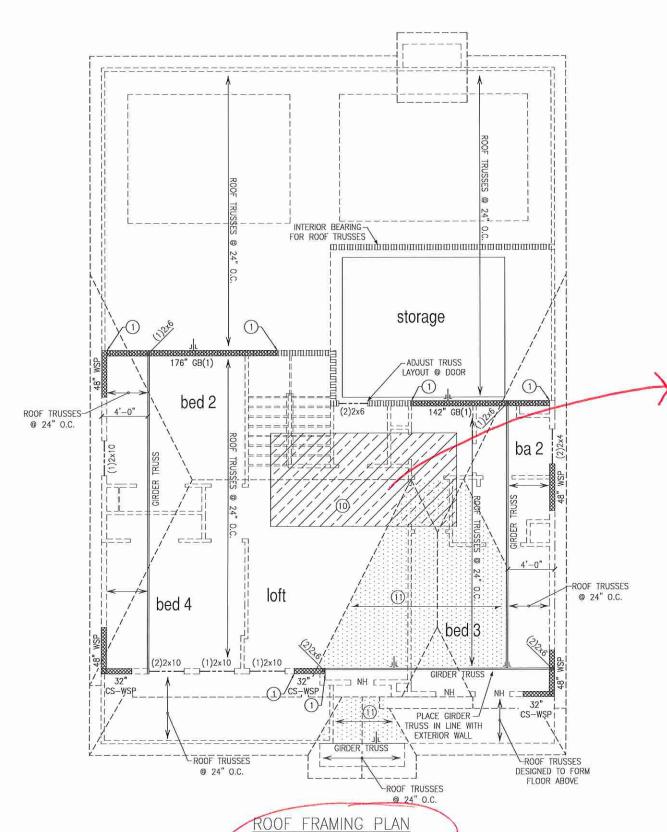
Plans

Project #: 105-16011 Designed By: KRK

Checked By: Issue Date: 4/8/19

Re-Issue: Scole: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

S - 3.2



ELEVATION C

8d NAIL @ 6" O.C. AT ALL EDGES AND 12" O.C. TYPICAL

AT ALL OTHER

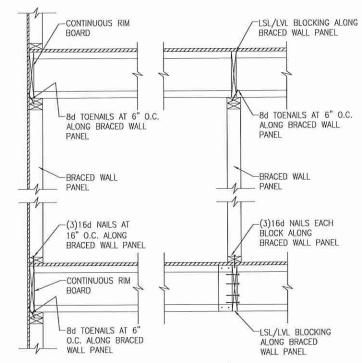
MEMBERS

~16d NAIL

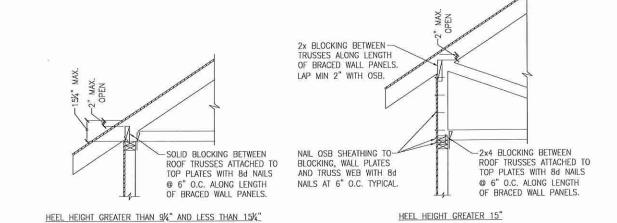
OUTSIDE CORNER PLAN VIEW

@ 12" O.C.

GYPSUM BOARD



B) TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PERPENDICULAR TO I-JOISTS



D TYPICAL EXTERIOR CORNER WALL FRAMING

EXTERIOR

SHEATHING

GYPSUM BOARD-

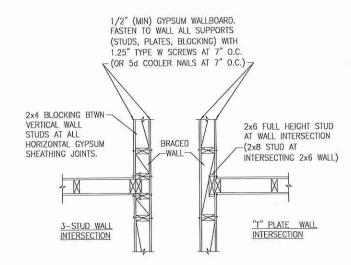
EXTERIOR SHEATHING-

16d NAIL -

@ 12" O.C.

INSIDE CORNER

ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS ONLY REQUIRED AT BRACED WALL PANELS



BRACED WALL INTERSECTIONS MAY BE FRAMED USING EITHER THE 3-STUD OR THE T-PLATE METHOD.

(C)METHOD GB(1) AND GB(2) INTERSECTION DETAILS



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Detail M.P.H. olina Division Wall paop.

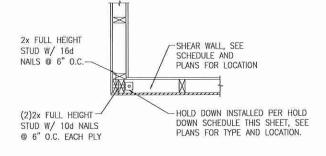
120 M.P. Carolina ă Project #: 105-19000 Designed By: KRK

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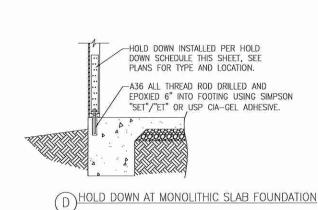
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SD

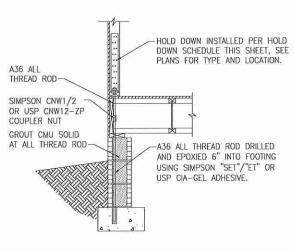
(A) TYPICAL HOLD DOWN DETAIL



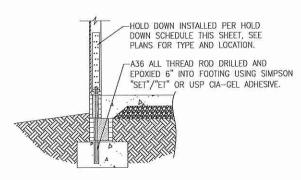
(B) TYPICAL HOLD DOWN DETAIL



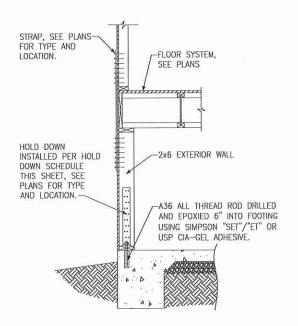
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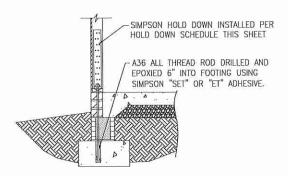
F HOLD DOWN AT CRAWL SPACE FOUNDATION



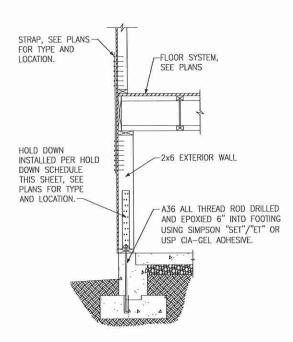
(C)HOLD DOWN AT STEMWALL SLAB FOUNDATION



F HOLD DOWN AT BASEMENT FOUNDATION



(C)HOLD DOWN AT STEMWALL SLAB



G HOLD DOWN AT BASEMENT FOUNDATION STEM WALL

HOLD DOWN		ALL THREAD ROD	FASTENERS	
SIMPSON	USP	ALL THREAD ROD	FASIENERS	
LTT20B	LTS20B	½" DIA.	(10)10d NAILS	
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS	
HTT5	HTT45	⅓" DIA.	(26)16dx2½" LONG NAILS	



120 M.P.H. Carolina Division

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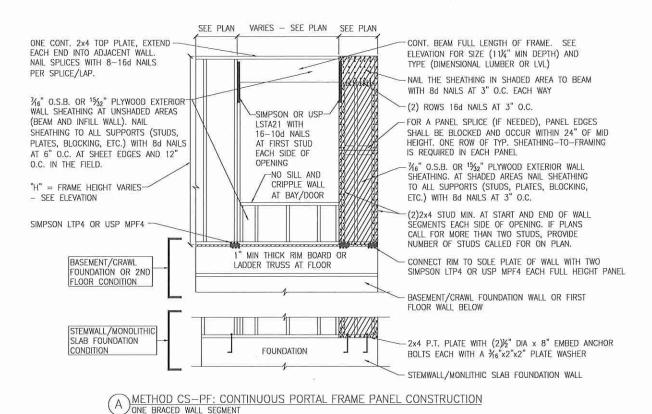
Project #: 105–19000
Designed By: KRK
Checked By:
Issue Date: 1/1/19

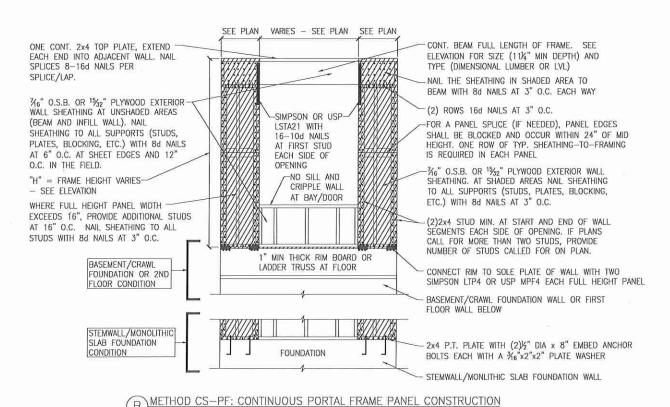
Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

SD-2

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1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18991
1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18991
1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18991





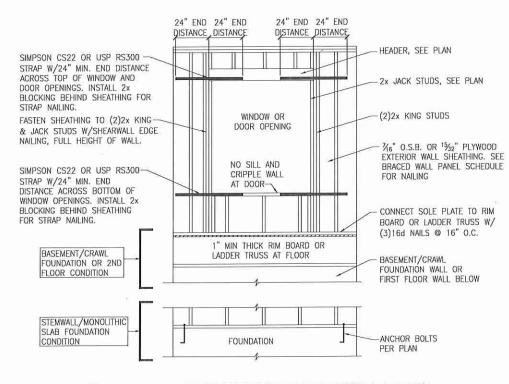


TWO BRACED WALL SEGMENTS

	BRACED WALL	PANEL AN	ID ENGINEERED SHEAR WALL SCHEDULE	
PANEL TYPES	S PANEL TYPE MATERIAL FASTENERS		FASTENERS	
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" 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(1)-4	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.	
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-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE; 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPOR	
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL	
PFH	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL	
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	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	
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS	
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	BD COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENING:	

BRACED WALL PANEL NOTES:

- 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.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH $\frac{7}{16}$ " O.S.B., OR $\frac{1}{20}$ " 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 ONLY REQUIRED WHERE SPECIFED ON PLANS





(P) \approx Wall

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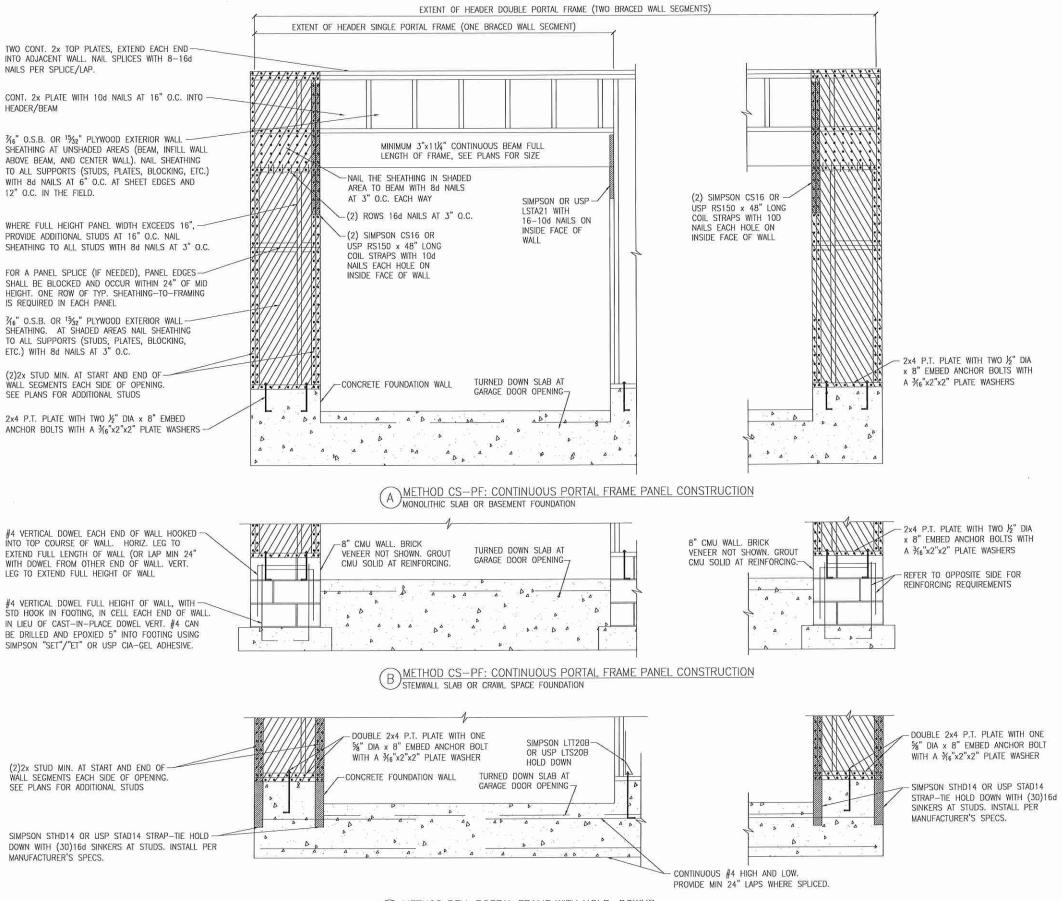
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Project #: 105-19000 Designed By: KRK

Checked By Issue Date: 1/1/19

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



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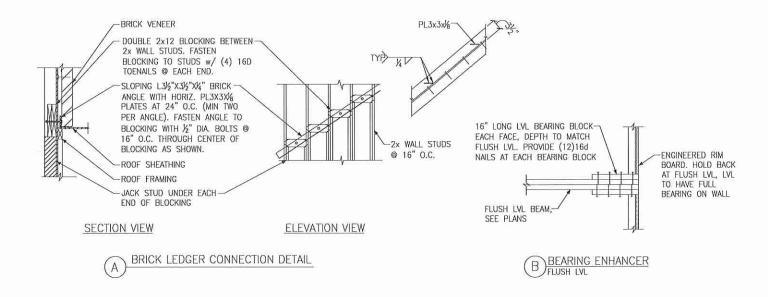
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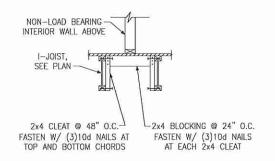
Carolina Project #: 105-19000 Designed By: KRK

Checked By Issue Date: 1/1/19

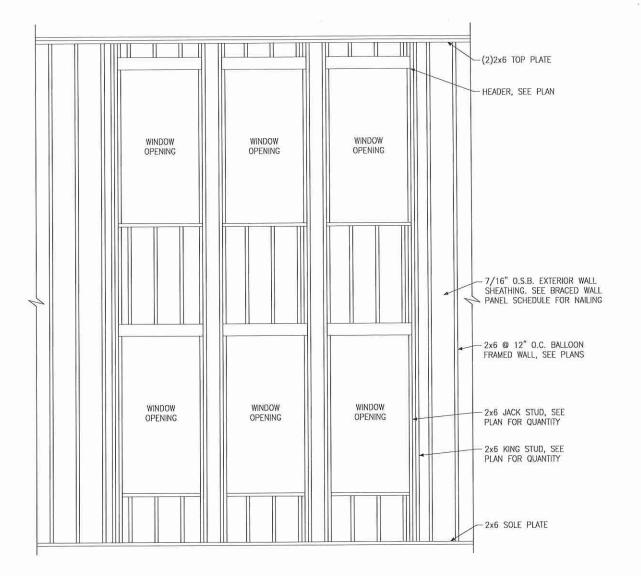
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS MONOLITHIC SLAB OR BASEMENT FOUNDATION





C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.



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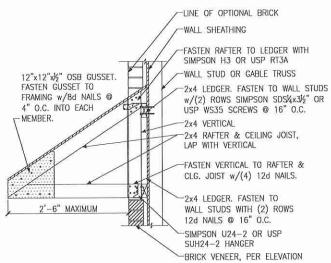


Details Framing Miscellaneous

120 M.P.H. Carolina Division Project #: 105-19000

Designed By: KRK Checked By: Issue Date: 1/1/19

Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34



B PENT ROOF DETAIL STRAIGHT ROOF

OR USP JL24 EACH END-- 8d NAILS AT 4" O.C. 2x4 FRAMING AT 24" O.C. CANTILEVERED OVER GABLE END TRUSS 2x4 BLOCKING BTWN-RAFTERS. SIMPSON LTP4 OR USP 2x6 KICKER AT 6'-0" O.C., WITH-MPF4 EVERY OTHER 2x6 "T" SCAB. NAIL SCAB TO (5) 10d-BLOCK KICKER WITH 10d NAILS AT 6" O.C. KICKER MAY BE OMITTED WHEN HEIGHT OF GABLE END TRUSS IS 4'-0" OR LESS. 1/4" OSB AT GABLE END-TRUSS, PER SHEAR WALL EDGE NAILING PER SHEAR -

-WALL STUD OR GABLE TRUSS TOENAIL RAFTER TO LEDGER WITH (4) 12d NAILS -2x4 LEDGER. FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS4x31/2" OR USP WS35 SCREWS @ 16" O.C. 2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) 12d NAILS -2x4 LEDGER, FASTEN TO WALL OR GABLE TRUSS WITH (2) ROWS 12d NAILS @ 16" O.C.

EYEBROW ROOF DETAIL (C) ETEDINON ...



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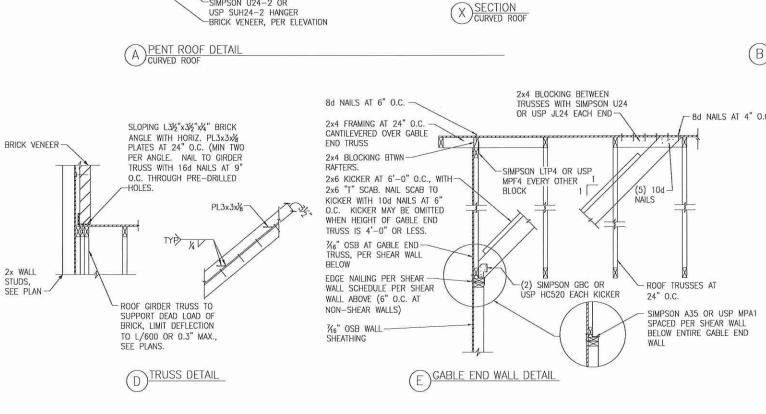
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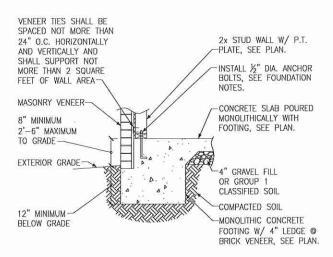
Project #: 105-19000 Designed By: KRK Checked By:

Issue Date: 1/1/19 Re-Issue:

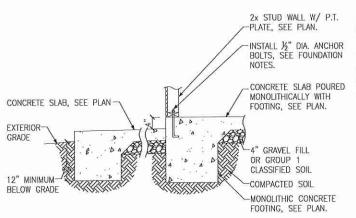
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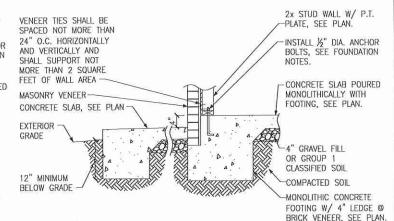


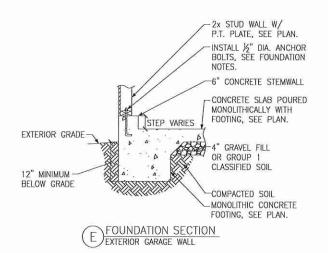


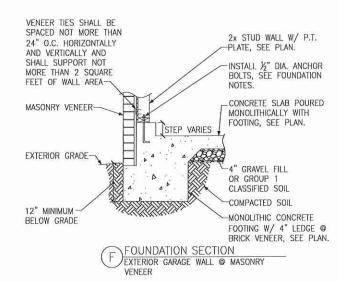
FOUNDATION SECTION B)EXTERIOR WALL @ MASONRY

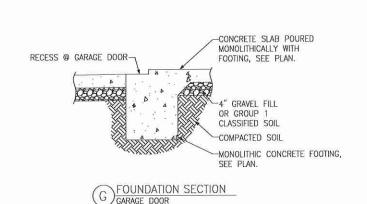


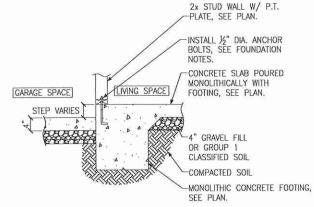
FOUNDATION SECTION EXTERIOR WALL AT PORCH



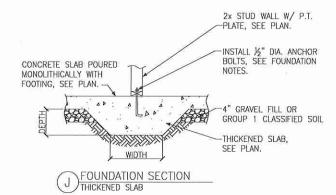


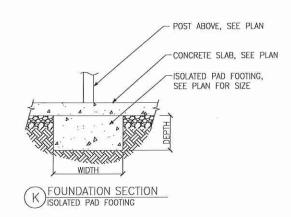






FOUNDATION SECTION (H) INTERIOR GARAGE WALL







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120 M.r. |Carolina Project #: 105-19000 Designed By: KRK Checked By: Issue Date: 1/1/19

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

BRICK VENÉER, SEE PLAN. FOUNDATION SECTION EXTERIOR WALL AT PORCH W/ MASONRY

FOUNDATION SECTION A) EXTERIOR WALL

VENEER TIES SHALL BE 2x STUD WALL W/ P.T. SPACED NOT MORE THAN -PLATE, SEE PLAN. 24" O.C. HORIZONTALLY AND VERTICALLY AND -SIMPSON MASA OR USP FA4 STRAPS, SHALL SUPPORT NOT INSTALL PER MANUFACTURER'S MORE THAN 2 SOUARE SPECIFICATIONS OR 1/2" DIA. ANCHOR FEET OF WALL AREA-BOLTS, SEE FOUNDATION NOTES. MASONRY VENEER 2'-0" MAXIMUM 4" GRAVEL FILL OR ABOVE GRADE GROUP 1 CLASSIFIED SOIL EXTERIOR GRADE--COMPACTED SOIL 12" MINIMUM CONCRETE FOOTING, BELOW GRADE SEE PLAN.

> B) FOUNDATION SECTION EXTERIOR WALL @ MASONRY VENEER

2x STUD WALL W/ P.T. PLATE, SEE PLAN. -SIMPSON MASA OR USP FA4 STRAPS, INSTALL PER MANUFACTURER'S SPECIFICATIONS OR 1/2" DIA. ANCHOR BOLTS, SEE FOUNDATION NOTES. -4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL COMPACTED SOIL COMPACTED SOIL--CONCRETE FOOTING, SFF PLAN.

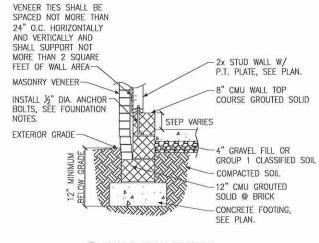
> FOUNDATION SECTION EXTERIOR WALL AT PORCH

VENEER TIES SHALL BE 2x STUD WALL W/ P.T. SPACED NOT MORE THAN -PLATE, SEE PLAN. 24" O.C. HORIZONTALLY AND VERTICALLY AND -SIMPSON MASA OR USP FA4 SHALL SUPPORT NOT STRAPS, INSTALL PER MORE THAN 2 SQUARE MANUFACTURER'S SPECIFICATIONS FEET OF WALL AREA-OR 1/2" DIA. ANCHOR BOLTS, SEE MASONRY VENEER-FOUNDATION NOTES. 4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL -COMPACTED SOIL COMPACTED SOIL-CONCRETE FOOTING, SEE PLAN.

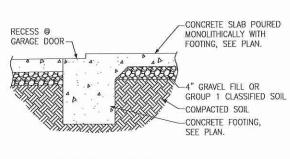
> FOUNDATION SECTION EXTERIOR WALL AT PORCH W/ MASONRY VENEER

2x STUD WALL W/ P.T. PLATE, SEE PLAN. 8" CMU WALL TOP INSTALL 1/3" DIA. ANCHOR-COURSE GROUTED SOLID BOLTS, SEE FOUNDATION NOTES. STEP VARIES EXTERIOR GRADE 4" GRAVEL FILL OR GROUP 1 CLASSIFIED SOIL COMPACTED SOIL CONCRETE FOOTING SEE PLAN.

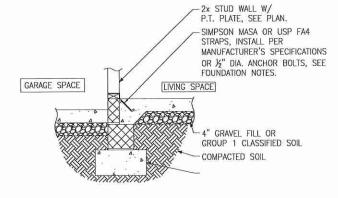
> FOUNDATION SECTION EXTERIOR GARAGE WALL



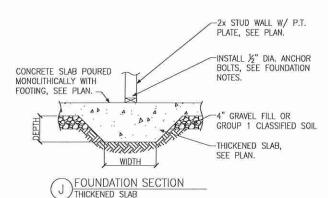
FOUNDATION SECTION (F) EXTERIOR GARAGE WALL @ MASONRY

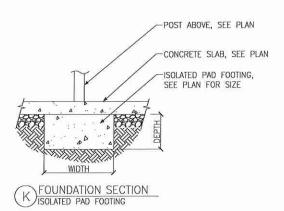


FOUNDATION SECTION GARAGE DOOR



FOUNDATION SECTION INTERIOR GARAGE WALL







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Project #: 105-19000 Designed By: KRK Checked By: Issue Date: 1/1/19

Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

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-2x STUD WALL W/

ENGINEERED RIM BOARD

-INSTALL ½" DIA. ANCHOR BOLTS, SEE FOUNDATION

12" CMU GROUTED

-CONCRETE FOOTING,

-2x STUD WALL W/

-INSTALL ½" DIA. ANCHOR BOLTS, SEE FOUNDATION

COURSE GROUTED SOLID

-8" CMU WALL TOP

-CONCRETE FOOTING,

PLATE, SEE PLAN. -ENGINEERED RIM BOARD

FLOOR JOIST,

SEE PLAN

NOTES.

SOLID @ BRICK

PLATE, SEE PLAN.

-FLOOR JOIST.

SEE PLAN

NOTES.

P.T. PLATE

SEE PLAN.

FOUNDATION SECTION

FOUNDATION SECTION

INTERIOR GARAGE WALL

P.T. PLATE -

GARAGE SPACE

EXTERIOR WALL AT PORCH W/ MASONRY VENEER

LIVING SPACE

VENEER TIES SHALL BE SPACED NOT MORE THAN

VERTICALLY AND SHALL

MASONRY VENEER

TURN DOWN PORCH

SLAB TO BELOW TOP

OF FOUNDATION WALL

24" O.C. HORIZONTALLY AND

SUPPORT NOT MORE THAN 2

SQUARE FEET OF WALL AREA-

-2x STUD WALL W/

PLATE, SEE PLAN.

-FLOOR JOIST.

SEE PLAN

NOTES.

TURN DOWN PORCH -

OF FOUNDATION WALL

RECESS @

GARAGE DOOR-

-P.T. PLATE

SEE PLAN.

FOUNDATION SECTION

FOUNDATION SECTION

PIER AND FOOTING SCHEDULE PIER HEIGHT PIER SIZE | MIN. FOOTING SIZE

UP TO 2'-8" 8" x 16" 24" x 24" x 12" U.N.O. UP TO 5'-4" 16" x 16" 24" x 24" x 12" U.N.O.

JP TO 8'-0" 16" x 16" 30" x 30" x 12" U.N.O.

MASONRY OR CONCRETE OR TOP COURSE FILLED

PIERS OVER 5'-4" SHALL BE BE FILLED SOLIDLY

PIERS SHALL BE CAPPED WITH 8" OF SOLID

WITH CONCRETE OR TYPE M OR S MORTAR.

ENGINEERING FOR PIER AND FOOTING DESIGN.

FOR PIERS OVER 8'-0" CONTACT KSE

SOLID WITH CONCRETE/MORTAR.

G GARAGE DOOR

C EXTERIOR WALL AT PORCH

-ENGINEERED RIM BOARD

-INSTALL ½" DIA. ANCHOR

BOLTS, SEE FOUNDATION

8" CMU WALL TOP

-CONCRETE FOOTING,

COURSE GROUTED SOLID

SEE ARCHITECTURAL DETAILS FOR WATERPROOFING AT PORCH SLAB/WOOD FRAMING.

CONCRETE SLAB POURED

MONOLITHICALLY WITH

FOOTING, SEE PLAN.

4" GRAVEL FILL OR

CONCRETE FOOTING,

COMPACTED SOIL

SEE PLAN.

GROUP 1 CLASSIFIED SOIL

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Carolina

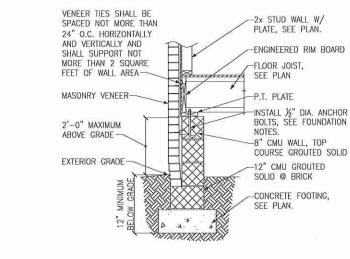
20 Project #: 105-19000 Designed By: KRK

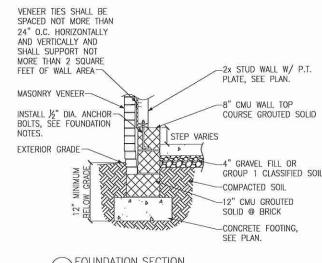
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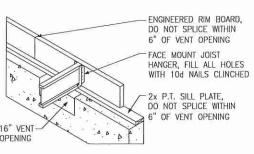
Issue Date: 1/1/19 Re-Issue: Scale: 1/8"=1'-0" @ 11x17

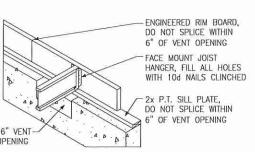
1/4"=1'-0" @ 22x34 SD-9

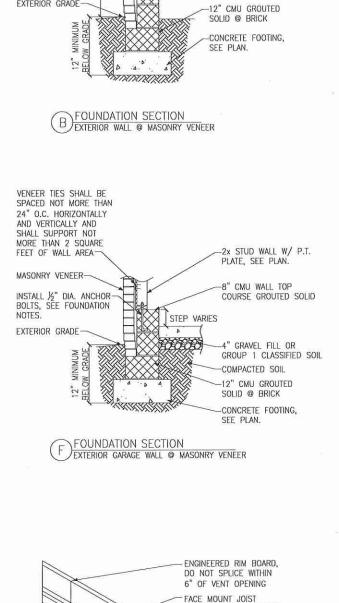
K) CRAWL SPACE VENT DETAIL

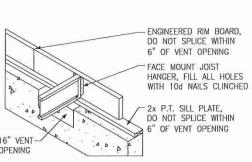


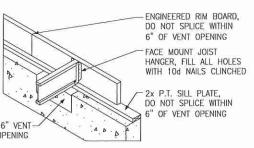


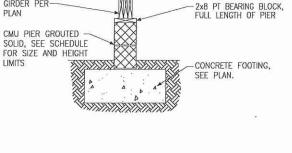












-2x STUD WALL W/

-ENGINEERED RIM BOARD

PLATE, SEE PLAN

-FLOOR JOIST.

8" CMU WALL TOP

-CONCRETE FOOTING.

-2x STUD WALL W/ P.T.

COURSE GROUTED SOLID

GROUP 1 CLASSIFIED SOIL

PLATE, SEE PLAN.

8" CMU WALL TOP

-4" GRAVEL FILL OR

CONCRETE FOOTING,

COMPACTED SOIL

SEE PLAN.

SEE PLAN.

FOUNDATION SECTION

STEP VARIES

FOUNDATION SECTION

EXTERIOR GARAGE WALL

FLOOR JOIST, SEE PLAN

A) FOUNDATION EXTERIOR WALL

COURSE GROUTED SOLID

SEE PLAN

INSTALL 1/2" DIA. ANCHOR

BOLTS, SEE FOUNDATION

NOTES.

P.T. PLATE -

2'-0" MAXIMUM

ABOVE GRADE -

EXTERIOR GRADE

INSTALL 1/2" DIA. ANCHOR

BOLTS, SEE FOUNDATION

EXTERIOR GRADE

GIRDER PER

PLAN

NOTES.

