INDEX

PLAN 2

| TITLE SHEET / COVER SHEET TECHNICAL INFORMATION QUICK VIEW - 'A' QUICK VIEW - 'B' QUICK VIEW - 'C' QUICK VIEW - 'D' QUICK VIEW - 'E' QUICK VIEW - 'F' | I E I.I E 2 E 3 E 3.I E 4 MS E 4 BS E 5 E | FRONT ELEVATION 'E' FRONT AND REAR ELEVATION 'E' ROOF PLAN 'E' SIDE AND REAR ELEVATIONS 'E' SIDE BASEMENT ELEVATIONS 'E' MONOLITHIC SLAB PLAN 'E' BASEMENT PLAN 'E' IST FLOOR PLAN 'E' 2ND FLOOR PLAN 'E' |
|--|---|--|
| ROOF PLAN 'A' SIDE AND REAR ELEVATIONS 'A' SIDE BASEMENT ELEVATIONS 'A' MONOLITHIC SLAB PLAN 'A' BASEMENT PLAN 'A' IST FLOOR PLAN 'A' 2ND FLOOR PLAN 'A' | F . F 2 F 3 F 3. F | FRONT ELEVATION 'F' FRONT AND REAR ELEVATION 'F' ROOF PLAN 'F' |
| FRONT AND REAR ELEVATION 'B' BASEMENT ROOF PLAN 'B' SIDE AND REAR ELEVATIONS 'B' SIDE BASEMENT ELEVATIONS 'B' MONOLITHIC SLAB PLAN 'B' BASEMENT PLAN 'B' | 6 7 7.1 | BASEMENT UTILITY PLAN IST FLOOR UTILITY PLAN 2ND FLOOR UTILITY PLAN |
| IST FLOOR PLAN 'B' 2ND FLOOR PLAN 'B' FRONT ELEVATION 'C' FRONT AND REAR ELEVATION 'C' BASEMENT | 7 MS 7 BS | MONO. SLAB BUILDING SECTIONS BASEMENT BUILDING SECTIONS |
| ROOF PLAN 'C' SIDE AND REAR ELEVATIONS 'C' SIDE BASEMENT ELEVATIONS 'C' MONOLITHIC SLAB PLAN 'C' BASEMENT PLAN 'C' IST FLOOR PLAN 'C' IST FLOOR PLAN 'C' FRONT ELEVATION 'D' FRONT AND REAR ELEVATION 'D' BASEMENT ROOF PLAN 'D' SIDE AND REAR ELEVATIONS 'D' SIDE BASEMENT ELEVATIONS 'D' MONOLITHIC SLAB PLAN 'D' BASEMENT PLAN 'D' IST FLOOR PLAN 'D' 2ND FLOOR PLAN 'D' | 67 | ARCHITECTURAL SHEETS |
| | TECHNICAL INFORMATION GUICK VIEW - 'A' GUICK VIEW - 'B' GUICK VIEW - 'C' GUICK VIEW - 'D' GUICK VIEW - 'F' FRONT ELEVATION 'A' FRONT ELEVATION 'A' FRONT AND REAR ELEVATION 'A' BASEMENT ROOF PLAN 'A' SIDE AND REAR ELEVATIONS 'A' SIDE BASEMENT ELEVATIONS 'A' MONOLITHIC SLAB PLAN 'A' BASEMENT PLAN 'A' IST FLOOR PLAN 'A' SIDE AND REAR ELEVATION 'B' BASEMENT ROOF PLAN 'B' SIDE AND REAR ELEVATION 'B' BASEMENT ROOF PLAN 'B' SIDE AND REAR ELEVATIONS 'B' SIDE AND REAR ELEVATIONS 'B' MONOLITHIC SLAB PLAN 'B' SIDE AND REAR ELEVATIONS 'B' MONOLITHIC SLAB PLAN 'B' SIDE AND REAR ELEVATIONS 'B' MONOLITHIC SLAB PLAN 'B' IST FLOOR PLAN 'B' SIDE AND REAR ELEVATIONS 'B' MONOLITHIC SLAB PLAN 'B' BASEMENT PLAN 'B' IST FLOOR PLAN 'B' FRONT ELEVATION 'C' FRONT AND REAR ELEVATIONS 'C' SIDE AND REAR ELEVATIONS 'C' SIDE AND REAR ELEVATIONS 'C' SIDE AND REAR ELEVATIONS 'C' SIDE BASEMENT ELEVATIONS 'C' SIDE AND REAR ELEVATIONS 'C' SIDE BASEMENT FLEVATIONS 'D' MONOLITHIC SLAB PLAN 'C' SIDE AND REAR ELEVATIONS 'D' SIDE AND REAR ELEVATIONS 'D' | TECHNICAL INFORMATION I.I E QUICK VIEW - 'A' 2 E QUICK VIEW - 'B' 3 E QUICK VIEW - 'C' 3.I E QUICK VIEW - 'D' 4 M5 E QUICK VIEW - 'E' 4 B5 E QUICK VIEW - 'F' 5 E SIDE 5.I E FRONT ELEVATION 'A' 1 F FRONT AND REAR ELEVATION 'A' BASEMENT 1.I F ROOF PLAN 'A' 2 F SIDE AND REAR ELEVATIONS 'A' 3.I F MONOLITHIC SLAB PLAN 'A' 4 M5 F BASEMENT PLAN 'A' 4 M5 F BASEMENT PLAN 'A' 4 M5 F SIDE AND REAR ELEVATION 'B' BASEMENT 6 ROOF PLAN 'A' 5.I F SIDE FLOOR PLAN 'A' 5.I F PRONT ELEVATION 'B' 7.I SIDE AND REAR ELEVATION 'B' BASEMENT 6 ROOF PLAN 'B' 7.I SIDE BASEMENT ELEVATION 'B' 7.I SIDE BASEMENT PLAN 'B' 7.I SIDE AND REAR ELEVATION 'C' BASEMENT 6 ROOF PLAN 'C' 7.M5 SIDE AND REAR ELEVATION 'C' BASEMENT 6 SIDE AND REAR ELEVATIONS 'C' <td< td=""></td<> |

ALL CONSULTANT DRAWINGS ACCOMPANYING THESE DESIGN DRAWINGS HAVE NOT BEEN PREPARED BY OR UNDER THE DIRECTION OF GMD DESIGN GROUP OF GEORGIA, INC. GMD DESIGN GROUP OF GA INC. THEREFORE ASSUMES NO LIABILITY FOR THE COMPLETENESS OR CORRECTNESS OF THESE DRAWINGS THAT ARE PREPARED BY OTHER CONSULTANTS.

Eagle Creek Lot 118 Fuquay Varina, NC 27526

'Ψ' ELEVATION 'F' BASEMENT

ELEVATION 'E' BASEMENT LEVATIONS 'E'

Έ

Plan 2 50' SERIES Hartwell LH

| PLAN 2 SQUARE FOOTAGES | | | | |
|---|--|----------|--|--|
| AREA | | ELEV 'E' | | |
| Ist FLOOR | | 1872 SF | | |
| 2nd FLOOR | | 1240 SF | | |
| TOTAL LIVING | | 3112 SF | | |
| GARAGE | | 454 SF | | |
| PORCH | | 182 SF | | |
| COVERED PATIO | | 96 SF | | |
| | | | | |
| OPT. BASEMENT | | | | |
| | | | | |
| UNFINISHED SPACE | | 1789 SF | | |
| **BASEMENT AREA IS TAKEN TO INSIDE OF CONCRETE WALL** | | | | |

| œ | <i>M</i> |
|---|------------|
| | wilder |
| | 300 |
| | , vi |
| | rica |
| | merica's J |
| | X |
| | |

| 08.15.24 |
|---|
| |
| |
| |
| |
| |
| |
| |
| |
| PROFESSIONAL SEAL: |
| |
| |
| |
| |
| |
| |
| PROJECT TITLE: |
| 50' Series |
| Hartwell LH |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| PROJECT NO: GMD-GA22008 |
| |
| F |
| SHEET |
| H |
| |
| /EI |
| 10 |
| / COVER |
| |
| Ш |
| |
| IHS |
| E SHI |
| TLE SHI |
| HET TILE SHE |
| HE JUNE HE JUN |

O

SHEET NO:

GENERAL NOTES DESIGNER: NCRC

THESE DOCUMENTS ARE THE PROPERTY OF THE DESIGNER AND SHALL NOT BE COPIE DUPLICATED, ALTERED, MODIFIED OR REVISED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE DESIGNER.

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE AND ALL INCONSISTENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DEVELOPER AND THE DESIGNER BEFORE PROCEEDING WITH WORK.

ANY ERRORS OR OMISSIONS FOUND IN THESE DRAWINGS SHALL BE BROUGHT TO DEVELOPERS AND DESIGNERS ATTENTION IMMEDIATELY.

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.

ALL TRUSS DRAWINGS TO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO ISSUANCE OF BUILDING PERMIT.

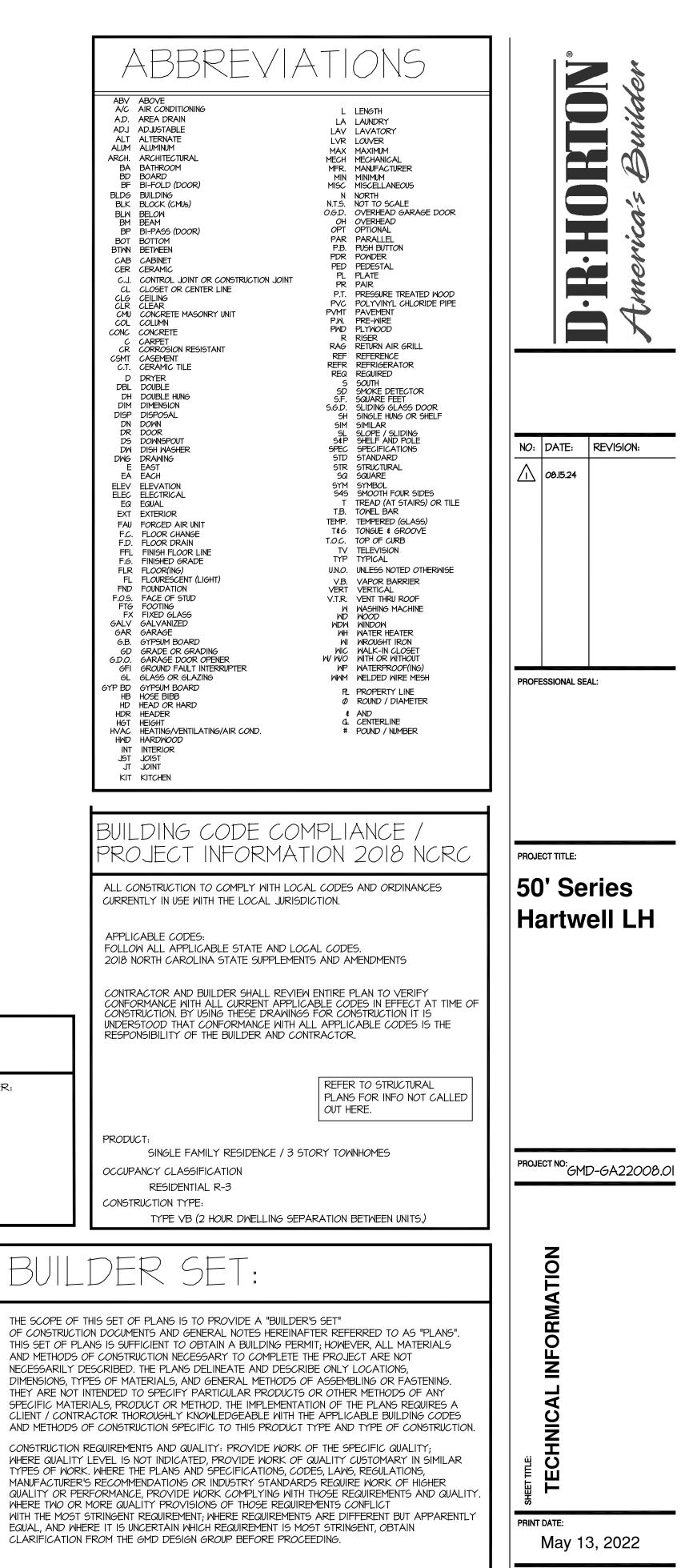
ALL OR EQUAL SUBSTITUTIONS MUST BE SUBMITTED TO AND APPROVED BY CITY BUILDING OFFICIAL PRIOR TO INSTALLATION.

ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED. PROVIDE FIREBLOCKING. (PER NCRC SECTION R302.11)

ALL ELECTRICAL AND MECHANICAL EQUIPMENT AND METERS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS, CONTRACTOR TO VERIFY.

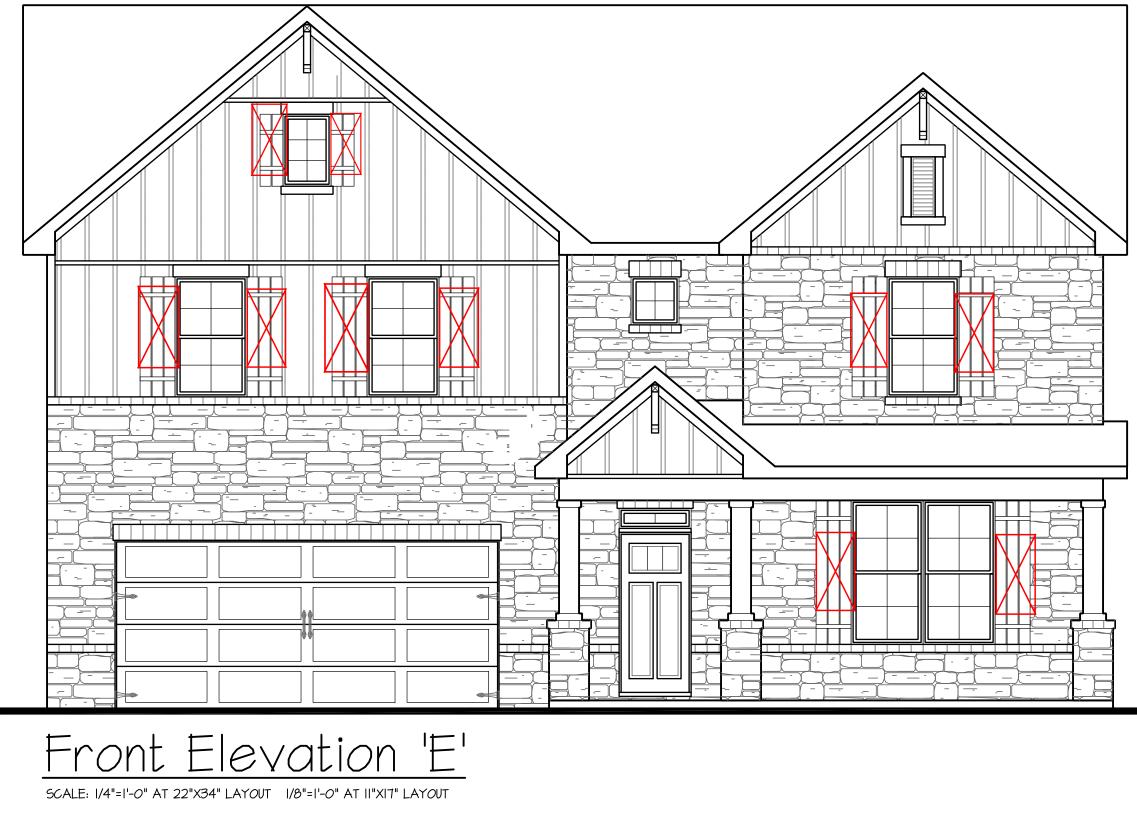
CONSULTANTS: LOCAL JURISDICTION: BUILDER: DESIGNER: GMD DESIGN GROUP 1845 SATELLITE BLVD. STE 850 SUWANEE, GA. 30091 PHONE: (170) 375-7351 CONTACT: DONALD J. MCGRATH EMAIL: DONNIE@GMDDESIGNGROUP.COM

| 1ED, ≣D | PROVIDE BLOCKING AND/OR BACKING AT ALL TOWEL BAR, TOWEL RING AND/OR TOILET PAPER HOLDER LOCATIONS, AS SHOWN PER PLAN. TYPICAL AT ALL BATHROOMS AND POWDER ROOMS. VERIFY LOCATIONS AT FRAMING WALK. | THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER (SOILS REPORT), ON THE STUDY OF THE PROPOSED SITE, TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR. IN THE |
|-------------------|--|---|
| | ELASTOMERIC SHEET WATERPROOFING: FURNISH AND INSTALL ALL WATERPROOFING COMPLETE. A 40 MIL. SELF-ADHERING MEMBRANE OF RUBBERIZED ASPHALT INTEGRALLY BONDED TO POLYETHYLENE SHEETING, OR EQUAL. INSTALL PER MANUFACTURE'S AND TRADE ASSOCIATION'S PRINTED INSTALLATION INSTRUCTIONS. 6" MINIMUM LAP AT ALL ADJACENT WALL SURFACES. | EVENT THE GEOTECHNICAL REPORTS DO NOT EXIST, THE SOILS CONDITION SHALL BE ASSUMED TO BE A MINIMUM DESIGN SOIL PRESSURE STATED BY THE STRUCTURAL ENGINEER OF RECORD FOR THE PURPOSE OF STRUCTURAL DESIGN. GENERAL CONTRACTOR SHALL ASSURE THE SOIL CONDITIONS MEET OR EXCEED THE CRITERIA. |
|) | TO THE BEST OF THE DESIGNER'S KNOWLEDGE THESE DOCUMENTS ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION AND OCCUPANCY. | ALL WORK PERFORMED BY THE GENERAL CONTRACTOR SHALL COMPLY AND CONFORM WITH LOCAL AND STATE BUILDING CODES, ORDINANCES AND REGULATIONS, ALONG WITH ALL OTHER AUTHORITIES HAVING JURISDICTION. THE GENERAL CONTRCATOR IS RESPONSIBLE TO BE AWARE OF THESE REQUIREMENTS |
| | SHOP DRAMING REVIEW AND DISTRIBUSTION, ALONG WITH PRODUCT SUBMITTALS, REQUESTED IN THE CONSTRUCTION DOCUMENTS, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR, UNLESS DIRECTED OTHERWISE UNDER A SEPARATE AGREEMENT. | AND GOVERNING REGULATIONS. PROVIDE AN APPROVED WASHER DRAIN PAN AT SECOND FLOOR ONLY THAT DRAINS TO EXTERIOR. |
| | DEVIATIONS FROM THESE DOCUMENTS IN THE CONSTRUCTION PHASE SHALL BE REVIEWED BY THE DESIGNER AND THE OWNER PRIOR TO THE START OF WORK IN | WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR EGRESS OPENING OF 5.7 SQ FT WITH MIN. DIMENSION OF 24" IN HEIGHT AND 20" IN WIDTH: SILL HEIGHT NOT GREATER THAN 44" ABOVE FLOOR. (PER LOCAL CODES) |
| | QUESTION. ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT PRIOR REVIEW, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. | ALL HANDRAIL BALLUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS BETWEEN BALLUSTERS. (PER LOCAL CODES) |
| | THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS REPRESENTED ON THESE DOCUMENTS INCLUDING THE WORK AND MATERIALS FURNISHED BY SUBCONTRACTORS AND VENDORS. | PROVIDE STAIR HANDRAILS AND GUARDRAILS (PER LOCAL CODES) |

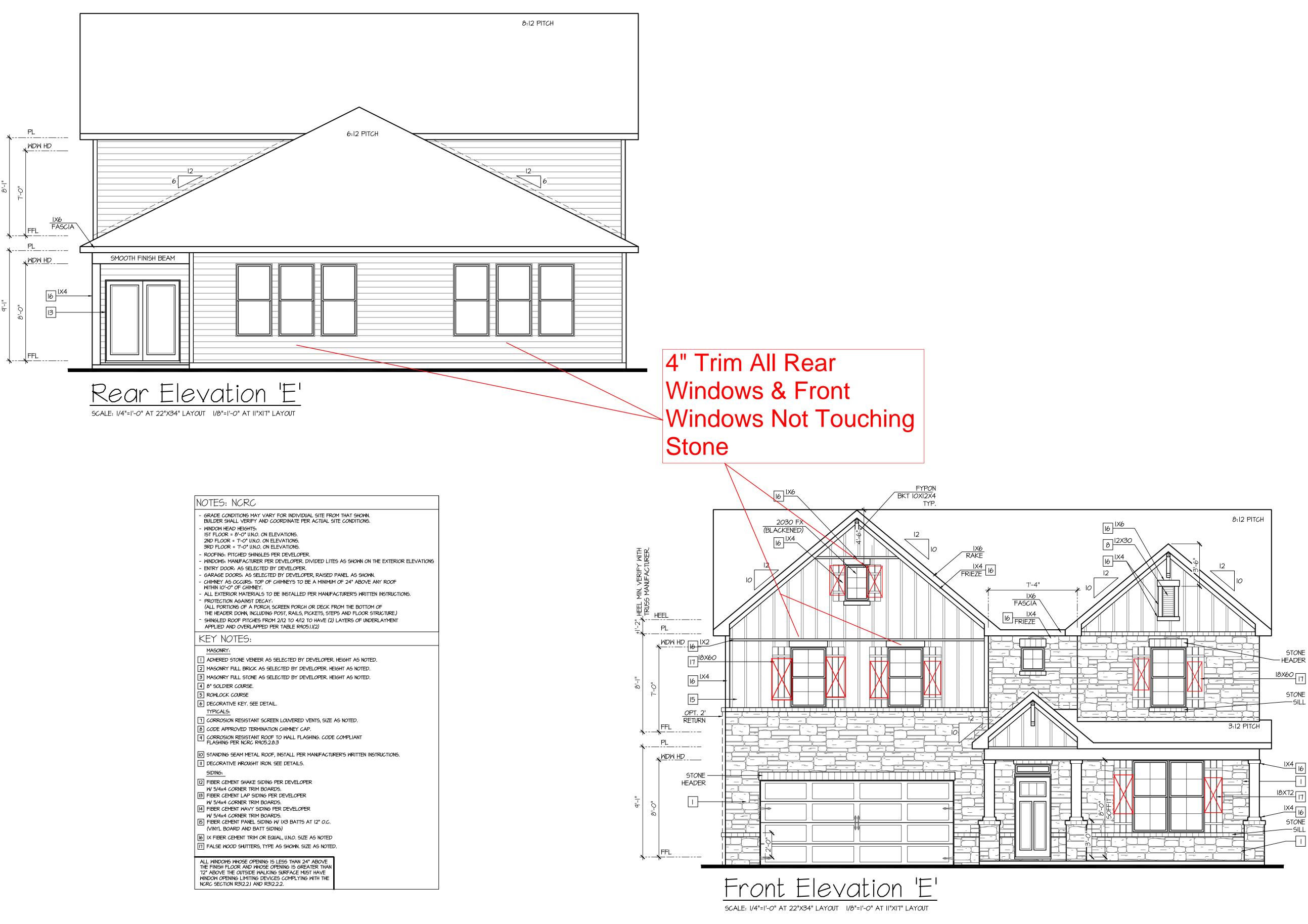


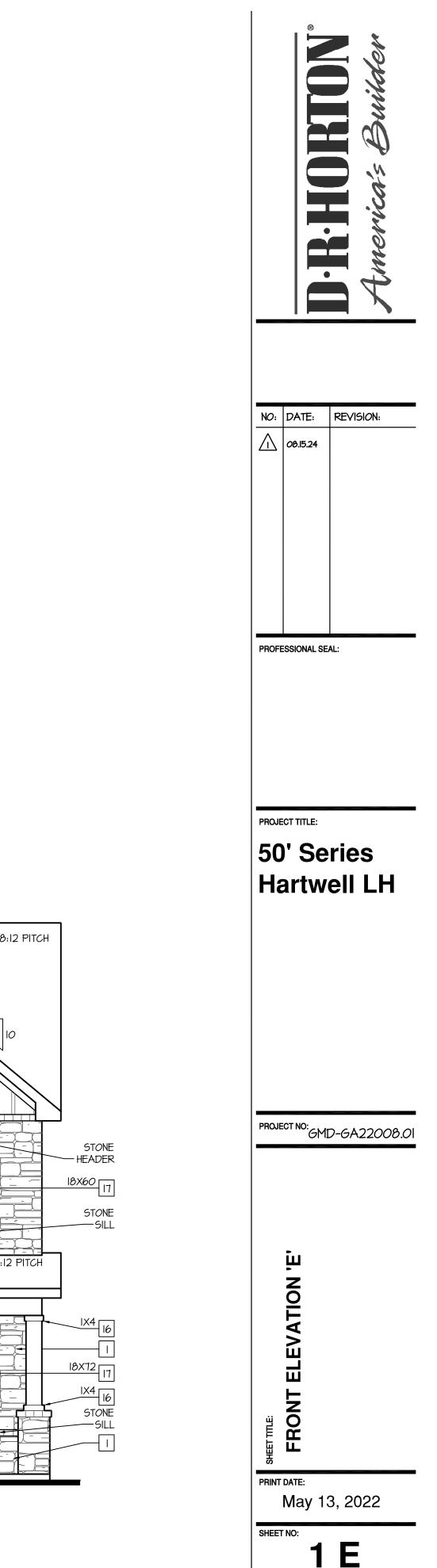
| NO: | | |
|-----|----|--|
| | 0. | |

No Shutters



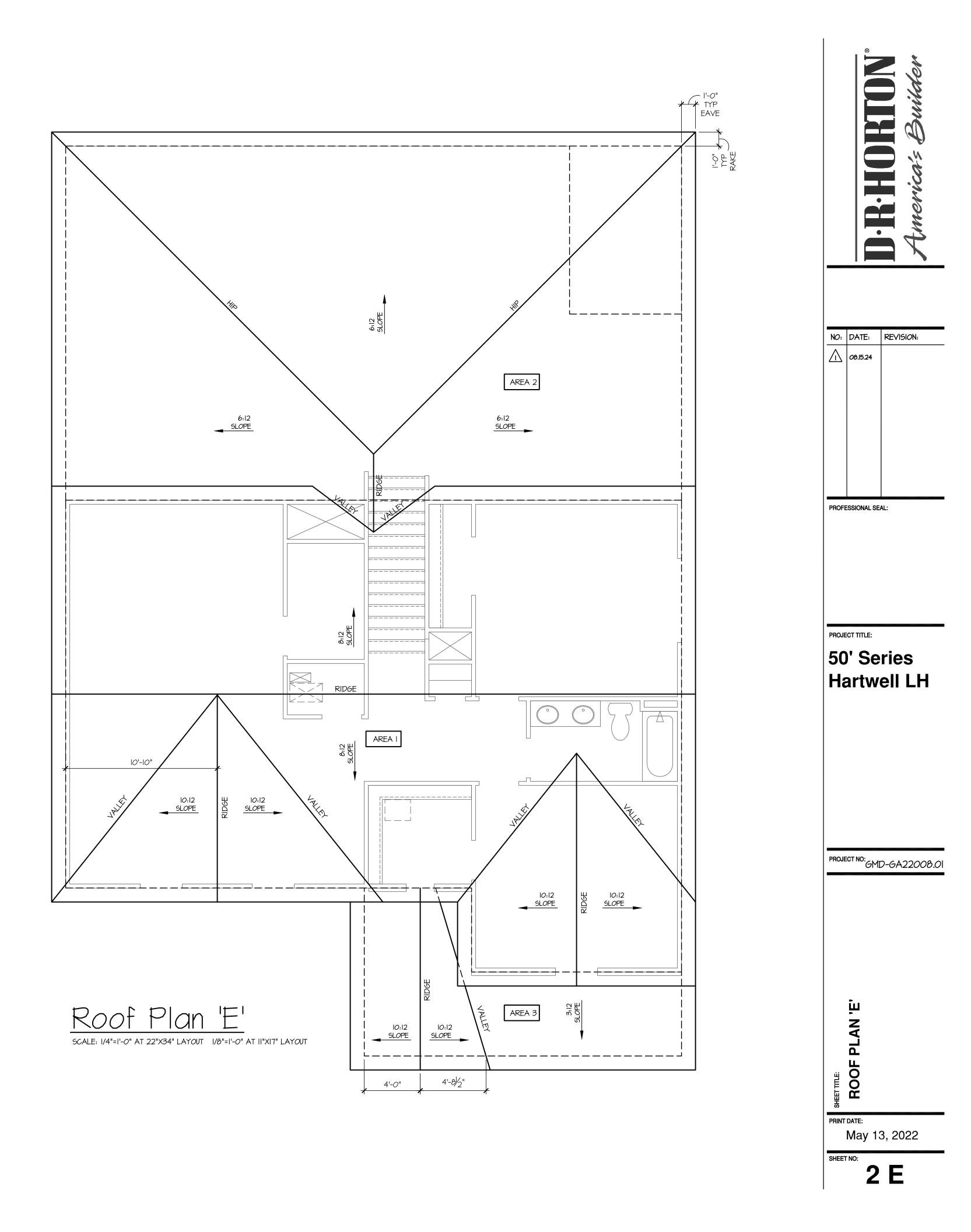
| DrR.HORDN America's Builder |
|---|
| NO: DATE: REVISION: |
| PROFESSIONAL SEAL: |
| PROJECT TITLE: 50' Series Hartwell LH |
| PROJECT NO: GMD-GA22008.01 |
| BEETTILE: |
| May 13, 2022 SHEET NO: 0.2 E |

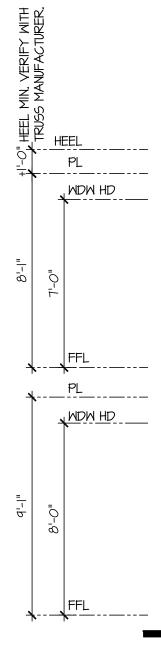




| ATTIC VENT CALCULATION | FOR PLAN 'PLAN 2': 1:150 RATIO. |
|--|---|
| THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED. GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE BUILDING OFFICIAL. ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEPENDENTLY PER LOCAL CODE. PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPARATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT. | (PER SECTION R806.2) I SQUARE INCH VENT FOR EVERY ISO SQUARE INCHES OF CEILING *I44 SQ. IN. = I SQ. FT. BLDG. CEILING (SF) X I44 = BLDG (SQ. IN.) BLDG. (SQ. IN.) / ISO = SQ. IN. OF VENT REQUIRED ROOF AREA I:= I309 SF IB304 SQ. FT. X I44 = I80446 SQ. IN. OF VENT REQ'D ROOF AREA 2:= III3 SF III3 SQ. FT. X I44 = I60212 SQ. IN. OF VENT REQ'D ROOF AREA 2:= III3 SF IB2 SQ. FT. X I44 = 160212 SQ. IN. OF VENT REQ'D ROOF AREA 3:= I82 SF IB2 SQ. FT. X I44 = 26208 SQ. IN. OF VENT REQ'D ROOF AREA 3:= I82 SF IB2 SQL SQ. IN. / ISO = I14.12 SQ. IN. OF VENT REQ'D BUILDER TO PROVIDE ATTIC VENTING MINIMUM AREA PER LOCAL CODE WITH THE AMOUNT/NUMBER VENTS AND TYPE OF VENTING USED PER THE WRITTEN MANUFACTURER'S SPECIFICATIONS PRIOR TO THE FINISH OF ROOFING MATERIAL. |
| NOTES: - ALL ROOF DRAINAGE SHALL BE PIPED TO STREET OR APPROVED DRAINAGE FACILITY. - DASHED LINES INDICATE WALL BELOW. - LOCATE GUTTER AND DOWNSPOUTS PER BUILDER. - PITCHED ROOFS AS NOTED. | TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWINGS TO THE BUILDER'S GENERAL CONTRACTOR AND BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATIONS. ALL PLUMBING VENTS SHALL BE COMBINED INTO A MINIMUM AMOUNT OF ROOF PENETRATIONS. ALL ROOF PENETRATIONS SHALL OCCUR TO THE REAR OF THE MAIN RIDGE. |
| ATTIC VENT CALCULATION AS AN ALTERNATE TO THE I/I50 RATIO LISTED ABOVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO I/300 PER SECTION R806.2 GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMUM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE BUILDING OFFICIAL. ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEPENDENTLY PER LOCAL CODE. PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPARATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT. | FOR PLAN 'PLAN 2': 1:300 RATIO. (PER SECTION REGGE) I SQUARE INCH VENT FOR EVERY 300 SQUARE INCHES OF CEILING *144 50. IN. = 1 SQ. FT. BLD6. CEILING (SF) X 144 = BLD6 (SQ. IN.) BLD6. CEILING (SF) X 144 = BLD6 (SQ. IN.) BLD6. (SQ. IN.) / 300 = 50. IN. OF VENT REQUIRED SQ. IN. OF VENT AT HIGH \$ 50% AT LON. ROOF AREA 1: = 1309 SF III3 SQ. FT. X 144 = 108496 III3 SF III3 SF III3 SF III3 SG. FT. X 144 = 160272 III3 SF III3 SG. IN. OF VENT AT LOW REQUIRED. ROOF AREA 3: = 102 SF ISQ. SQ. FT. X 144 = 26208 SQ. IN. J 2 = 43268 SQ. FT. X 144 = 26208 |
| BUILDER TO PROVIDE (2) LAYERS OF UNDERLAYMENT AT ANY ROOF W/ A SLOPE FROM 2:12 TO LESS THAN 4:12 | BUILDER TO PROVIDE ATTIC VENTING MINIMUM AREA PER LOCAL CODE WITH THE AMOUNT/NUMBER VENTS |

PER LOCAL CODE WITH THE AMOUNT/NUMBER VENTS AND TYPE OF VENTING USED PER THE WRITTEN MANUFACTURER'S SPECIFICATIONS PRIOR TO THE FINISH OF ROOFING MATERIAL.





Ξħ

HEEL

PL

FFL

×---×--

NOTES: NCRC

- GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN. BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS.
- WINDOW HEAD HEIGHTS:
- IST FLOOR = 8'-0" U.N.O. ON ELEVATIONS.
- 2ND FLOOR = 7'-0" U.N.O. ON ELEVATIONS.
- 3RD FLOOR = 7'-O" U.N.O. ON ELEVATIONS.
- ROOFING: PITCHED SHINGLES PER DEVELOPER.
- WINDOWS: MANUFACTURER PER DEVELOPER. DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS
- ENTRY DOOR: AS SELECTED BY DEVELOPER.
- GARAGE DOORS: AS SELECTED BY DEVELOPER, RAISED PANEL AS SHOWN. CHIMNEY AS OCCURS: TOP OF CHIMNEYS TO BE A MINIMUM OF 24" ABOVE ANY ROOF
- WITHIN 10'-0" OF CHIMNEY. ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROTECTION AGAINST DECAY:
- (ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POST, RAILS, PICKETS, STEPS AND FLOOR STRUCTURE.)
- SHINGLED ROOF PITCHES FROM 2/12 TO 4/12 TO HAVE (2) LAYERS OF UNDERLAYMENT APPLIED AND OVERLAPPED PER TABLE R905.1.1(2)

KEY NOTES:

MASONRY:

- ADHERED STONE VENEER AS SELECTED BY DEVELOPER. HEIGHT AS NOTED.
- 2 MASONRY FULL BRICK AS SELECTED BY DEVELOPER. HEIGHT AS NOTED.
- 3 MASONRY FULL STONE AS SELECTED BY DEVELOPER. HEIGHT AS NOTED.
- 4 8" SOLDIER COURSE.
- 5 ROWLOCK COURSE
- 6 DECORATIVE KEY. SEE DETAIL.
- TYPICALS:
- [7] CORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED.
- 8 CODE APPROVED TERMINATION CHIMNEY CAP.
- Image: Corrosion Resistant Roof to Wall Flashing. Code CompliantFLASHING PER NCRC R905.2.8.3
- O STANDING SEAM METAL ROOF, INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- III DECORATIVE WROUGHT IRON. SEE DETAILS.
- SIDING:
- 12 FIBER CEMENT SHAKE SIDING PER DEVELOPER
- W/ 5/4x4 CORNER TRIM BOARDS.
- 13 FIBER CEMENT LAP SIDING PER DEVELOPER
- W/ 5/4x4 CORNER TRIM BOARDS.
- 14 FIBER CEMENT WAVY SIDING PER DEVELOPER
- W/ 5/4x4 CORNER TRIM BOARDS. 15 FIBER CEMENT PANEL SIDING W/ IX3 BATTS AT 12" O.C.
- (VINYL BOARD AND BATT SIDING)

16 IX FIBER CEMENT TRIM OR EQUAL, U.N.O. SIZE AS NOTED [1] FALSE WOOD SHUTTERS, TYPE AS SHOWN. SIZE AS NOTED.

ALL WINDOWS WHOSE OPENING IS LESS THAN 24" ABOVE THE FINISH FLOOR AND WHOSE OPENING IS GREATER THAN 72" ABOVE THE OUTSIDE WALKING SURFACE MUST HAVE WINDOW OPENING LIMITING DEVICES COMPLYING WITH THE NCRC SECTION R312.2.1 AND R312.2.2.

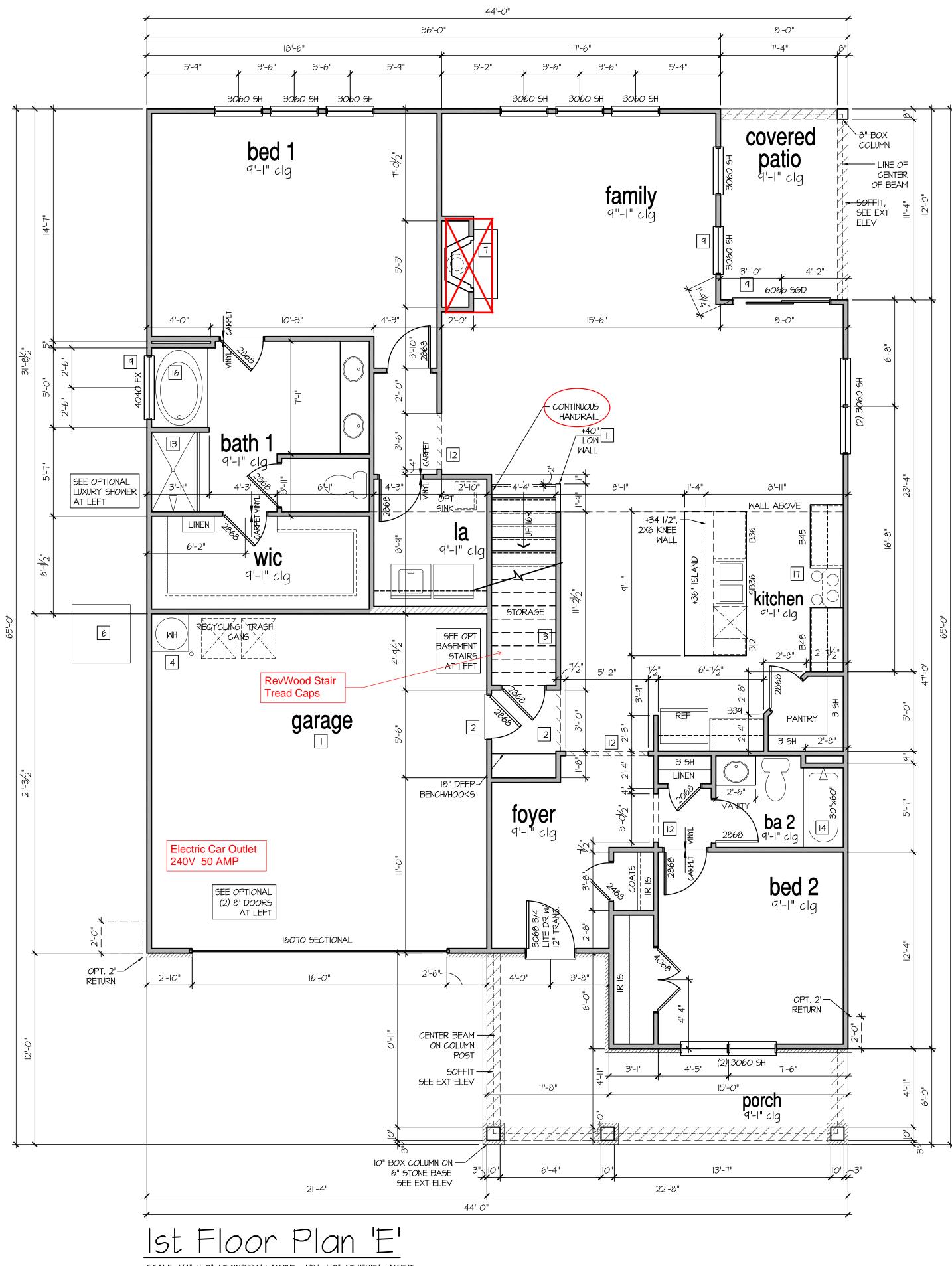






| - WINDOW HEAD HEIGHTS: IST FLOOR = 8'-0" U.N.O. ON | |
|--|---|
| 2ND FLOOR = 7'-0" U.N.O. ON ALL DIMENSIONS TO WINDOW | I ELEVATIONS. IS AND DOORS ARE TO CENTERLINE. |
| WALL LEGEND: | |
| FULL HEIGHT 2X4 WOOD STUD PARTITION | ZZZZZZ FULL HEIGHT 2X6 WOOD STUD PARTITION |
| BRICK / STONE VENEER | = = = = = STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED |
| Low Gypsum Board Wall Height and stud size as noted | DRYWALL OPENING. HEIGHT AS NOTED ON PLAN. |
| KEY NOTES: NC | CRC |
| AT VERTICAL SURFACES S WITH ONE (I) LAYER 1/2" GN GARAGE/HOUSE SEPARATIU SHALL BE PROTECTED WIT TYPE 'X' GYPSUM BOARD. HOUSE TO GARAGE DOOR CORE DOOR OR APPROVE RATED DOOR. (PER NCRC) BENEATH STAIRS AND LAN ON WALLS AND CEILING OF AREAS. (PER NCRC SECTION IN CONCEALED SPACES BE FIREBLOCKING PER R302.1 MEP'S FOR THE USE OF EXPOSED INSTALL PER LOCAL CODE FAU 8'X8' PLATFORM. VER (6'-6" MIN. CLEAR HEIGHT 2"X6" OVER 2"X4" BOTTON ACC CONDENSER PAD. (VEI) PRE-FABRICATED METAL F INSTALL PER MANUFACTUR ATTIC ACCESS LARGE ENC OF EQUIPMENT BUT NOT LE ACCESS AS NOTED. (PER N ATTIC ACCESS LARDER, V (25 1/2" X 54" SIZE.) FOR C NCRC 302.5.1 EXCEPTION. ACCESS PANEL SHALL BE AND INSULATED TO AN R-10 TYPICALS: TEMPERED SAFETY GLASS PLYWOOD SHELF ABOVE V HALF WALL, HEIGHT AS NO INTERIOR SOFFITS: FFL BATHS: SHOWER. TEMPERED GLASS PLYWOOD SHELF ABOVE V HALF WALL, HEIGHT AS NO ID PLYWOOD SHELF ABOVE NO CERAMIC TILE SHOWER AN ACRYLIC TUB W CERAMIC KITCHEN: 30" SLIDE-IN ELECTRICAL VENT PER MANUFACTURER' BOT GAS COOKTOP AND H VENT PER MANUFACTURER' LAUNDRY CLOSETS, AN OP | YPSUM BOARD. (PER NCRC SECTION R302.6) ON AT HORIZONTAL SURFACES H ONE (I) LAYER 5/8" (PER NCRC SECTION R302.6) SEPARATION. PROVIDE 1-3/8" SOLID ED 20 MINUTE SECTION R302.5.1) IDINGS. 1/2" GYPSUM BOARD F ENCLOSED ACCESSIBLE ON R302.7.1 ETWEEN STAIR STRINGERS PROVIDE II O GAS WATER HEATERS IN THE GARAGE, 5. IFY WITH TRUSS MANUFACTURER. TO HORIZONTAL MEMBERS, M CHORD. OF TRUSS, VERIFY W/ TRUSSES.) RIFY) FIREPLACE. ER'S WRITTEN INSTRUCTIONS. 20GH TO REMOVE LARGEST PIECE SS THAN 30"X22". FIRE RATED VCRC 807.1) FERIFY LOCATION AND SIZE WITH TRUSSES. 5ARAGE TO ATTIC SEPARATION PER WEATHERSTRIPPED O MINIMUM VALUE PER LOCAL CODES. 5. (PER NCRC SECTION R308.4) NITH DRYWALL FINISH OVER. HEIGHT AS NOTED. TED. = δ' -I" U.N.O. SFL = T'-6" U.N.O. 5 ENCLOSURE. IPERED GLASS ENCLOSURE. IPERED GLASS ENCLOSURE. IPLATFORM RANGE W/ HOOD AND MICRO ABV. 'S WRITTEN INSTRUCTIONS. OD. 'S WRITTEN INSTRUCTIONS. |
| LOUVERED DOORS OR PRO | BY OTHER APPROVED MEANS PER LOCAL CODES OVIDING A TRANSFER GRILLE ABOVE THE DOOR DERCUT TO PROVIDE ADDITIONAL VENTILATION |
| | |
| (USE 14" TJI WITH 15 TREADS AT 10 | AIR NOTE: H 3/4" PLYWOOD SUBFLOOR) O" EACH VERIFY /- 7.75" = 123 3/4" TOTAL |
| | |
| | STAIR NOTE: |

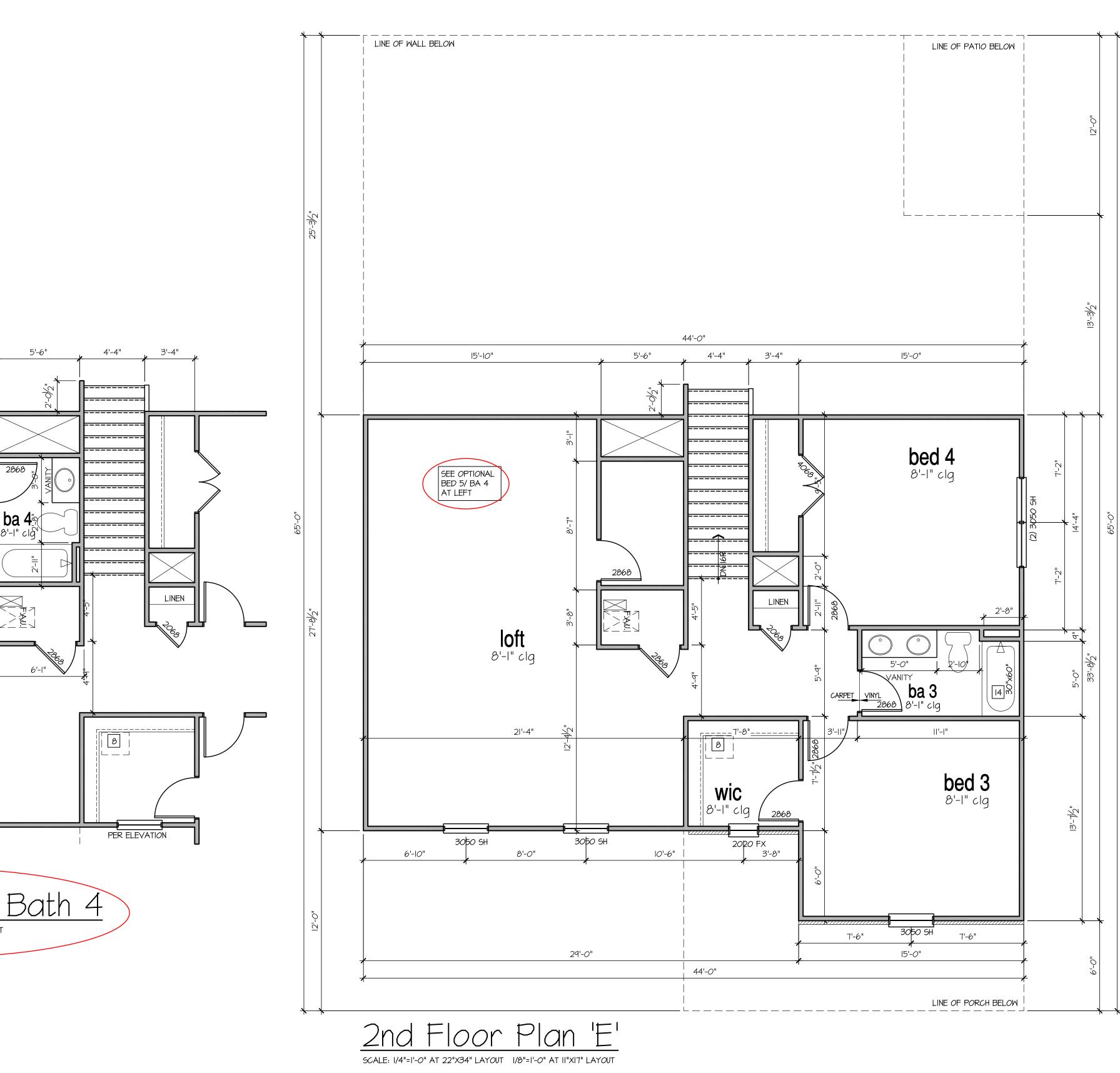
15" TREADS AT 10" EACH VERIFY 16 RISERS AT +/- 7.5" = 120 1/4" TOTAL RISE VERIFY

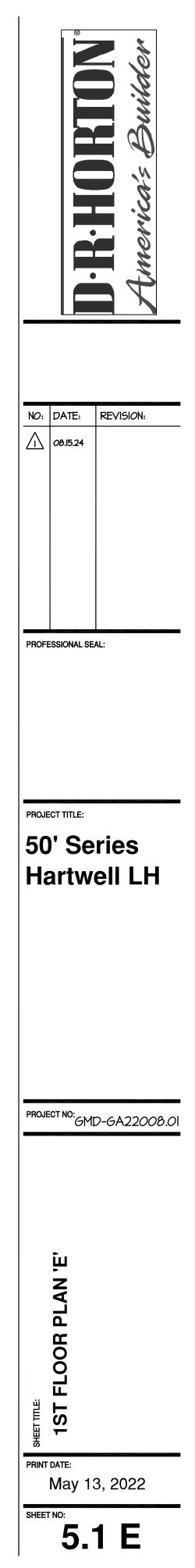


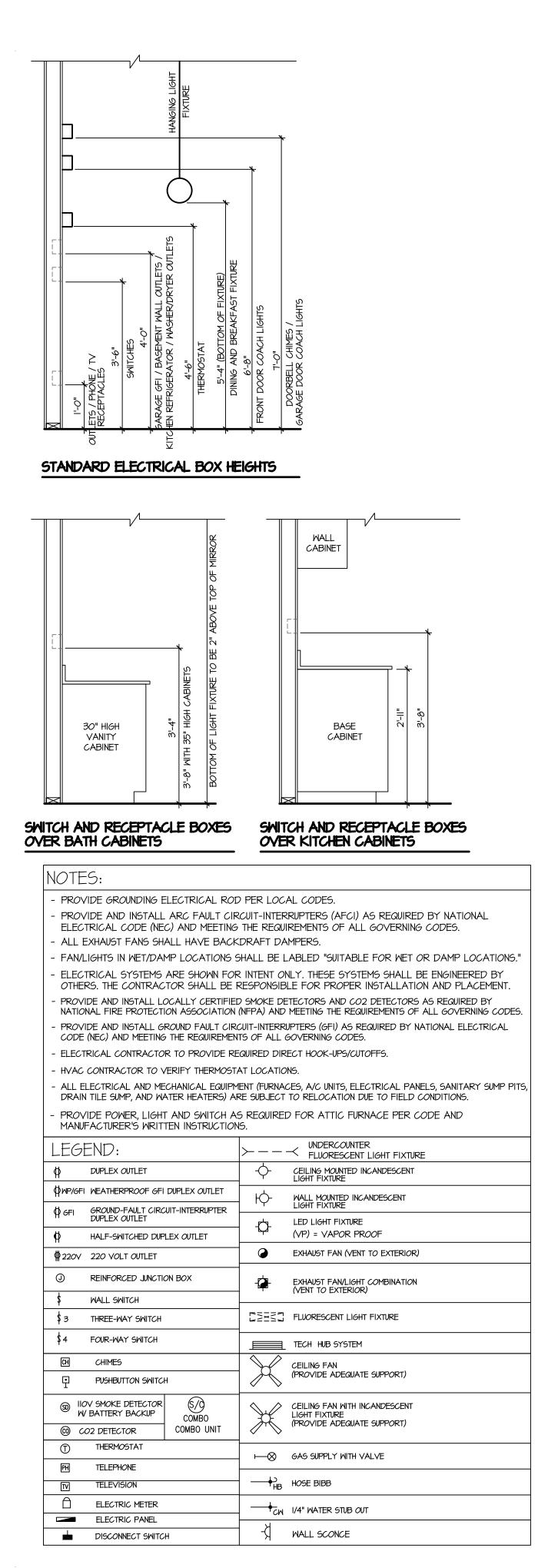
SCALE: I/4"=I'-0" AT 22"X34" LAYOUT I/8"=I'-0" AT II"XI7" LAYOUT

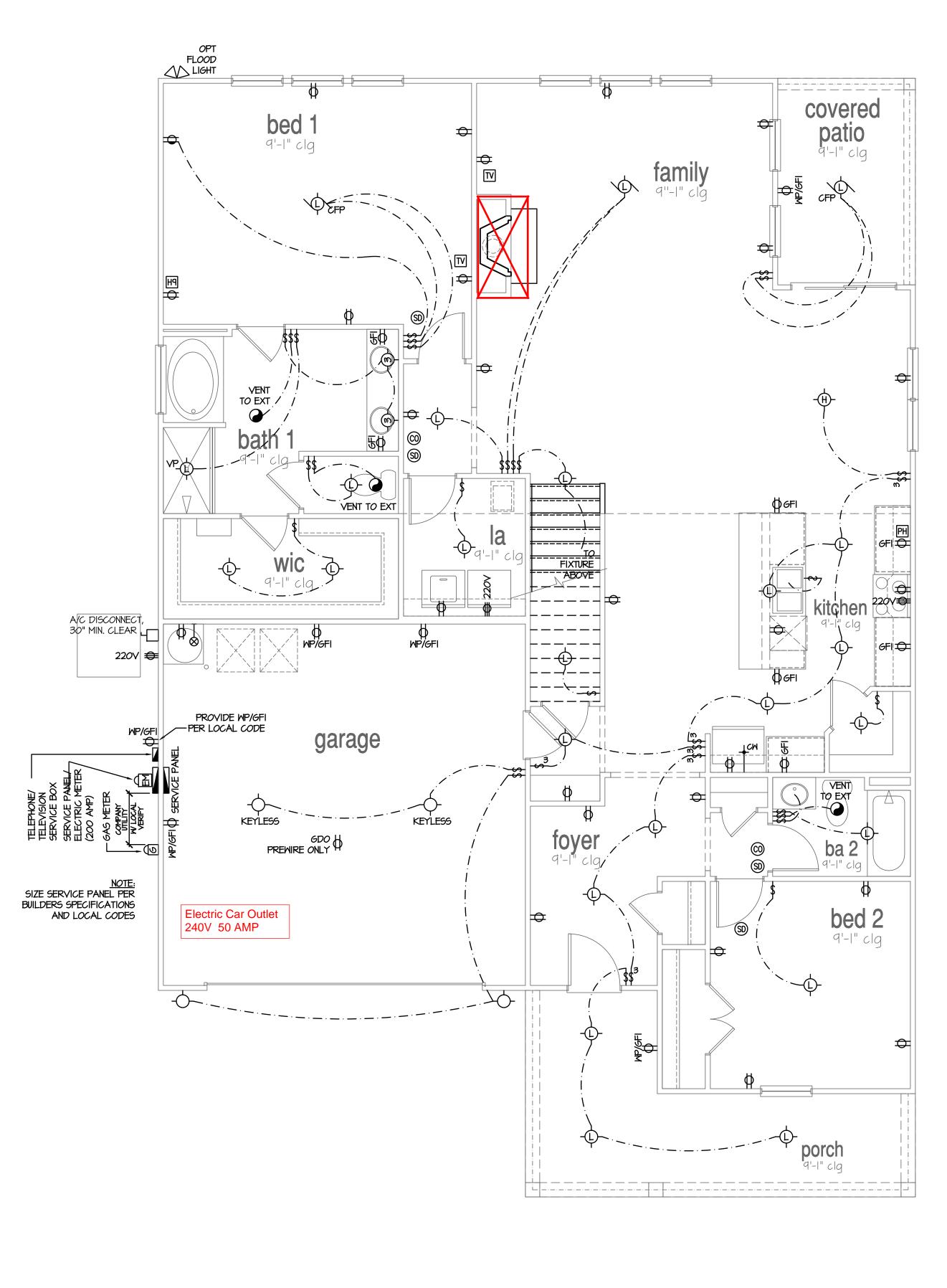
| D.R.HORTON America's Builder | |
|---|---|
| NO: DATE: REVISION: 1 08.15.24 08.15.24 | |
| PROFESSIONAL SEAL: | _ |
| PROJECT TITLE: | |
| 50' Series Hartwell LH | |
| | |

| FOR ADDITIONAL NOTES SEE WINDOW HEAD HEIGHTS: IST FLOOR = 8'-O" U.N.O. ON 2ND FLOOR = 7'-O" U.N.O. ON | | | | | | |
|---|--|-----------------|--------|-------------------------|---------------------------|----------------------------|
| | 5 AND DOORS ARE TO CENTERLINE. | | | | | |
| WALL LEGEND: | | _ | | | | |
| FULL HEIGHT 2X4 WOOD STUD PARTITION | ZZZZZZ FULL HEIGHT 2X6 WOOD STUD PARTITION | _ | | | | |
| BRICK / STONE VENEER | = == == = STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED | | | | | |
| Low Gypsum Board Wall Height and stud size as noted | DRYWALL OPENING. HEIGHT AS NOTED ON PLAN. | | | | | |
| KEY NOTES: NC | RC | | | | | |
| AT VERTICAL SURFACES S WITH ONE (I) LAYER I/2" GT GARAGE/HOUSE SEPARATION SHALL BE PROTECTED WIT TYPE 'X' GYPSUM BOARD. (2 HOUSE TO GARAGE DOOR CORE DOOR OR APPROVE RATED DOOR. (PER NCRC 3 BENEATH STAIRS AND LAN ON WALLS AND CEILING OF AREAS. (PER NCRC SECTION IN CONCEALED SPACES BE | (PSUM BOARD. (PER NCRC SECTION R302.6) ON AT HORIZONTAL SURFACES H ONE (I) LAYER 5/8" (PER NCRC SECTION R302.6) SEPARATION. PROVIDE I-3/8" SOLID D 20 MINUTE SECTION R302.5.1) DINGS. 1/2" GYPSUM BOARD = ENCLOSED ACCESSIBLE ON R302.7) TWEEN STAIR STRINGERS PROVIDE | | | | | |
| INSTALL PER LOCAL CODE FAU 8'X8' PLATFORM. VER (6'-6" MIN. CLEAR HEIGHT | GAS WATER HEATERS IN THE GARAGE, ES. IFY WITH TRUSS MANUFACTURER. | <u> </u> | × | | 5'-10" | |
| 6 A/C CONDENSER PAD. (VEI 7 PRE-FABRICATED METAL I | RIFY) | | | | | |
| OF EQUIPMENT BUT NOT LE ACCESS AS NOTED. (PER N ATTIC ACCESS LADDER, V (25 I/2" X 54" SIZE.) FOR G NCRC 302.5.I EXCEPTION. ACCESS PANEL SHALL BE AND INSULATED TO AN R-IN | ERIFY LOCATION AND SIZE WITH TRUSSES. SARAGE TO ATTIC SEPARATION PER | 12'-8" 12'-1 | 3050 | | bed 5 8'-1" clg | =L18 |
| TYPICALS: TEMPERED SAFETY GLASS | . (PER NCRC SECTION R308.4) | | 3'- | .0" 6'-0/2" | . 3'-0" | |
| ID PLYWOOD SHELF ABOVE N | NITH DRYWALL FINISH OVER. HEIGHT AS NOTED. | | | | | 5869 |
| | = 8'-1" U.N.O. SFL = 7'-6" U.N.O. | 1 8 | | | | |
| 13 SHOWER. TEMPERED GLAS | | | | | | 5-0- 5-0- |
| | D FLOOR. TEMPERED GLASS ENCLOSURE. | | | | | |
| IG ACRYLIC TUB W/ CERAMIC KITCHEN: | PLATFORM | | * | 2'-0 <mark>/</mark> 2" | loft | 3'-6" |
| 17 30" SLIDE-IN ELECTRICAL VENT PER MANUFACTURER | RANGE W/ HOOD AND MICRO ABV. 5 WRITTEN INSTRUCTIONS. | = | | | 8'-1" clg | , |
| B 30" GAS COOKTOP AND H VENT PER MANUFACTURER ELECTRIC OVEN WITH MICK | S WRITTEN INSTRUCTIONS. | 12'-412' | | | | 12"-42" |
| IOO SQ IN SHALL BE PROV AIR SHALL BE PROVIDED LOUVERED DOORS OR PRO | ENING HAVING AN AREA NOT LESS THAN /IDED IN THE CLOSET ENCLOSURE OR MAKEUP BY OTHER APPROVED MEANS PER LOCAL CODE DVIDING A TRANSFER GRILLE ABOVE THE DOOR DERCUT TO PROVIDE ADDITIONAL VENTILATION | | | | | |
| | | + $+$ | | | PER ELEVAT | |
| 9'-1" STAIR (USE 14" TJI WITH 3/4" F 15 TREADS AT 10" EAC 16 RISERS AT +/- 7.75" RISE VERIFY | PLYWOOD SUBFLOOR) H VERIFY | | Or | otional | Bed | 5/ |
| | | | SCALE: | I/4"=I'-0" AT 22"X34" L | AYOUT 1/8"=1'-0" A | AT II"XI7" LAY <i>o</i> ut |



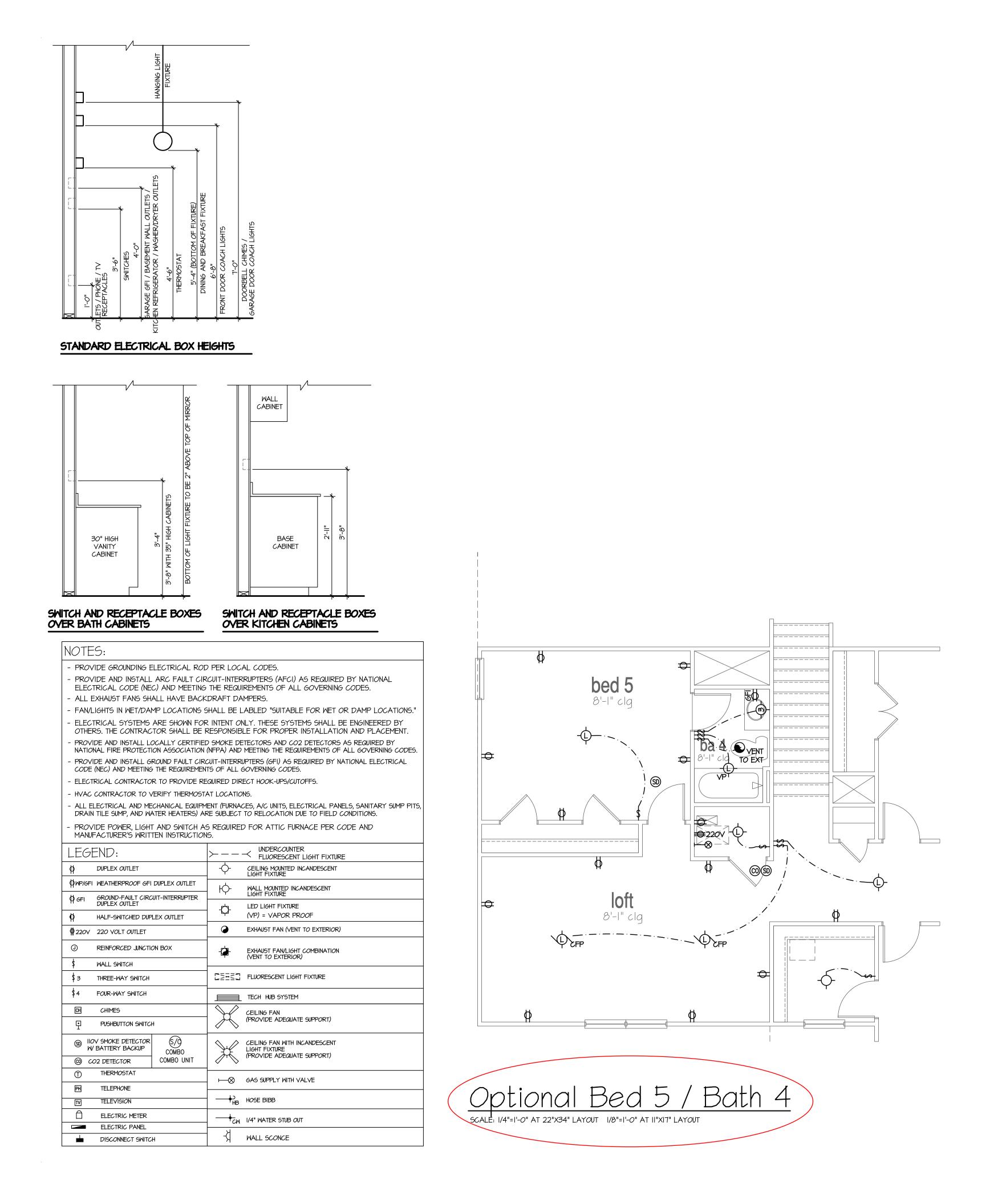


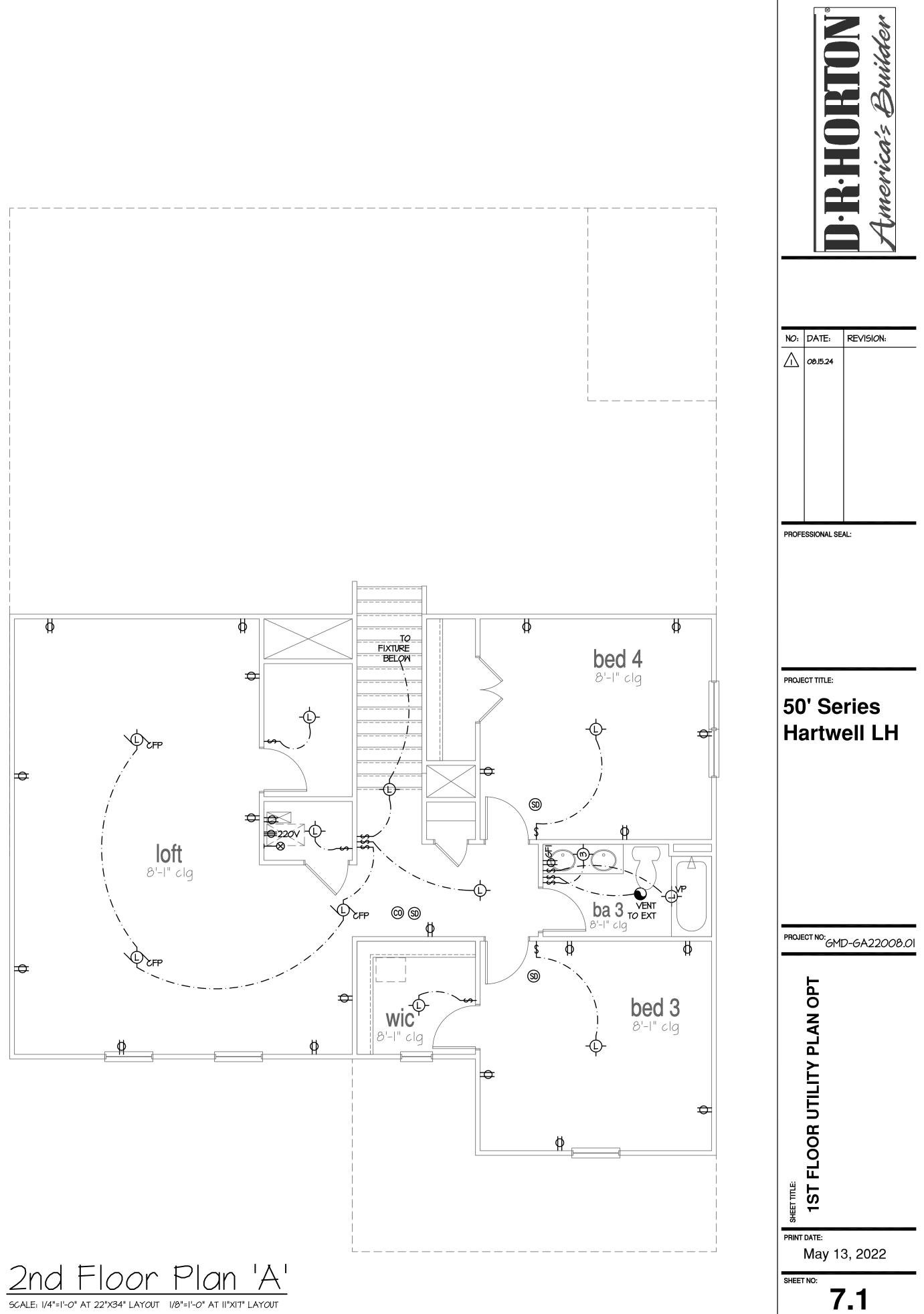




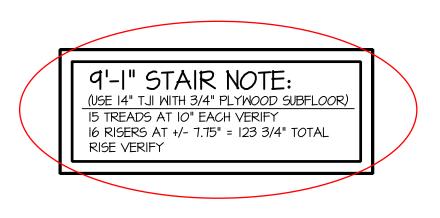


| | America's Builder |
|--|---------------------|
| NO: DATE: | REVISION: |
| PROFESSIONAL SE | EAL: |
| PROJECT TITLE: 50' Se Hartw | eries ell LH |
| PROJECT NO: GM | D-GA22008.01 |
| SHEFT THE 1ST FLOOR UTILITY PLAN | |
| May 1 SHEET NO: | 3, 2022 7 |









NOTES: NCRC TABLE NIIO2.I.2

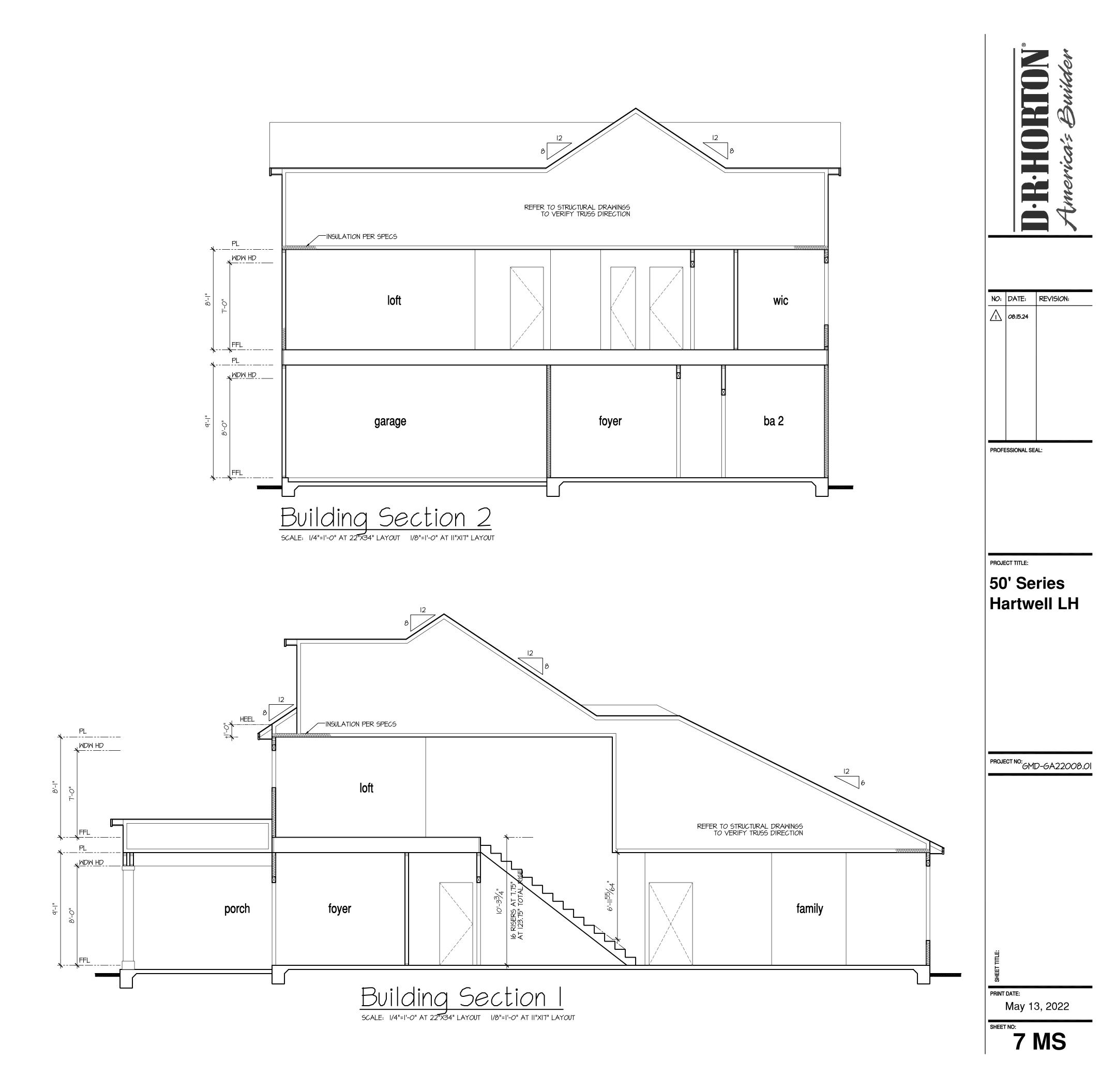
- REFER TO FLOOR PLAN NOTES FOR TYPICAL FIRE PROTECTION NOTES AND LOCATIONS.

- THESE BUILDING SECTIONS MAY VARY AT ALTERNATE ELEVATION STYLES AND AT "PLAN OPTION" CONDITIONS. REFER TO MAIN FLOOR PLAN AND ALTERNATE FLOOR PLANS FOR INFORMATION NOT SHOWN HERE.
- BUILDING SECTIONS SHOWN HERE DEPICT VOLUMN SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS, TRUSS DRAWINGS, STRUCTURAL DETAILS AND CALCULATIONS BY OTHER FOR ALL STRUCTURAL INFO.
- ROOFING: PITCHED SHINGLE ROOF. REFER TO ROOF PLAN FOR TYPICALS.
- WOOD FLOORS: FLOOR SHEATHING OVER FLOOR JOIST.
- REFER TO STRUCTURAL AND TRUSS DRAWINGS BY OTHERS.
- VERIFY STAIRS MINIMUM AND MAXIMUM REQUIREMENTS FOR CONSTRUCTION CLEARANCES WITH LOCAL CODES.

- INSULATION: PER TABLE NIIO2.I.2. NCRC 2018 ZONE 3 AND 4:

EXTERIOR WALLS:R-I5 BATTS MINIMUM. VERIFYCEILING WITH ATTIC ABOVE:R-38 BATTS MINIMUM. VERIFYFLOOR OVER GARAGE:R-I9 BATTS MINIMUM. VERIFYATTIC KNEEWALL:R-I9 BATTS MINIMUM. VERIFYCRAWL SPACE FLOORING:R-I0/15 MINIMUM. VERIFYSLAB VALUE:R-I0 MINIMUM. VERIFY

PER STATE RESIDENTIAL CODE COMPLIANCE METHOD TO BE DETERMINED BY BUILDER.



SHEET INDEX:

| S-0 | COVER SHEET | |
|----------------|------------------------------------|----------------------|
| S-0.1 | GENERAL STRUCTURAL NOTES | |
| | | |
| S 3MS A | MONOLITHIC SLAB FOUNDATION PLANS | ELEVATION A & OPTION |
| S 3MS B | MONOLITHIC SLAB FOUNDATION PLANS | ELEVATION B & OPTION |
| S 3MS C | MONOLITHIC SLAB FOUNDATION PLANS | ELEVATION C & OPTION |
| S 3MS D | MONOLITHIC SLAB FOUNDATION PLANS | ELEVATION D & OPTION |
| S 3MS E | MONOLITHIC SLAB FOUNDATION PLANS | ELEVATION E & OPTION |
| S 3MS F | MONOLITHIC SLAB FOUNDATION PLANS | ELEVATION F & OPTION |
| | | |
| S 3CS A | CRAWL SPACE FOUNDATION PLANS | ELEVATION A & OPTION |
| S 3CS B | CRAWL SPACE FOUNDATION PLANS | ELEVATION B & OPTION |
| S 3CS C | CRAWL SPACE FOUNDATION PLANS | ELEVATION C & OPTION |
| S 3CS D | CRAWL SPACE FOUNDATION PLANS | ELEVATION D & OPTION |
| S 3CS E | CRAWL SPACE FOUNDATION PLANS | ELEVATION E & OPTION |
| S 3CS F | CRAWL SPACE FOUNDATION PLANS | ELEVATION F & OPTION |
| S 3 A | BASEMENT FOUNDATION PLANS | ELEVATION A & OPTION |
| S 3 B | BASEMENT FOUNDATION PLANS | ELEVATION B & OPTION |
| S 3 C | BASEMENT FOUNDATION PLANS | ELEVATION C & OPTION |
| S 3 D | BASEMENT FOUNDATION PLANS | ELEVATION D & OPTION |
| 5 3 E S 3 E | BASEMENT FOUNDATION PLANS | ELEVATION E & OPTION |
| S 3 F | BASEMENT FOUNDATION PLANS | ELEVATION F & OPTION |
| 5 5 1 | DASEMENT FOUNDATION FEANS | |
| S 4 A | SECOND FLOOR FRAMING PLANS | ELEVATION A & OPTION |
| S 4 B | SECOND FLOOR FRAMING PLANS | ELEVATION B & OPTION |
| S 4 C | SECOND FLOOR FRAMING PLANS | ELEVATION C & OPTION |
| S 4 D | SECOND FLOOR FRAMING PLANS | ELEVATION D & OPTION |
| S 4 E | SECOND FLOOR FRAMING PLANS | ELEVATION E & OPTION |
| S 4 F | SECOND FLOOR FRAMING PLANS | ELEVATION F & OPTION |
| | | |
| S 5 A | ROOF FRAMING PLAN | ELEVATION A |
| S 5 B | ROOF FRAMING PLAN | ELEVATION B |
| S 5 C | ROOF FRAMING PLAN | ELEVATION C |
| S 5 D | ROOF FRAMING PLAN | ELEVATION D |
| S 5 E | ROOF FRAMING PLAN | ELEVATION E |
| S 5 F | ROOF FRAMING PLAN | ELEVATION F |
| | | |
| DS-1J | BRACED WALL DETAILS | |
| DS-2J | HOLD DOWN DETAILS | |
| DS-3 | BRACED WALL NOTES & DETAILS | |
| DS-4 | PORTAL FRAME DETAILS | |
| DS-5 | MISCELLANEOUS FRAMING DETAILS | |
| DS-6 | MISCELLANEOUS FRAMING DETAILS | |
| DS-7 | MONOLITHIC SLAB FOUNDATION DETAILS | |
| DS-8 | NOT USED | |
| DS-9J | CRAWL SPACE FOUNDATION DETAILS | |
| DS-10 | BASEMENT FOUNDATION DETAILS | |
| DS-11 | BASEMENT FOUNDATION DETAILS | |

KSE ENGINEERING

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

HARTWELL - LH

NORTH CAROLINA

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.

> 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.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'): 2018 NORTH CAROLINA RESIDENTIAL CODE AND ENGINEERED DESIGN

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR = 40 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK = 40 PSE
- 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
- TILE = 10 PSF (WHERE NOTED ON PLANS)

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

DESIGN WIND LOADS: • ULTIMATE WIND SPEED = 115 MPH • EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 60 PCF

FROST DEPTH = 12"

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES: • PRI-40s SERIES (DEPTH, SERIES AND SPACING PER PLANS) • LVL: E=2,000,000 PSI, F_B=3,100 PSI, F_V=285 PSI, F_C=750 PSI

• UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)





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 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
- 4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS B' 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 FLEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
- VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES. TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS
- THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- 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 DETAILS.

FOUNDATIONS

- 1. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
- 2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR
- 3. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE. THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION
- VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE PROCEEDING.
- 5. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
- 6. WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH 炎" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS. $\frac{1}{2}$ " DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS
- 7. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY
- 8 EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
- 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 FEFT
- 13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS. 14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

CONCRETE & REINFORCING

- CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN
- CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACL 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- 3. AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURA ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.
- NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
- 5 CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION'
- CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
- 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 ACI 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" | ENGTH 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.
- 15. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 16. 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.
- 17. 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 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 3/4" 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" ACL 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 HIRD 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 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
- 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) ½" DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 11/2" MINIMUM EDGE DISTANCE, (UNLESS OTHERWISE NOTED)
- 10. ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED
- 11. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. (1) STUD UP TO 6' OPENING (2) STUDS UP TO 8' OPENING
 - (3) STUDS UP TO 9' OPENING
- 12. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS
- 13. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS. 14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY
- (MOISTURE CONTENT < 19%) UNLESS OTHERWISE NOTED
- 15. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
- 16. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED.
- 17. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR GYPSIIM BOARD BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.
- 18. DIAGONAL BRACING SHALL BE INSTALLED AT EACH END OF BASEMENT BEARING WALLS AND NOT MORE THAN 20' ON CENTER

EXTERIOR WOOD FRAMED DECKS:

- 1. DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, FITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW
- PINE #2 OR BETTER. 3.
- GUARD RAILS REQUIRED AT DECKS. DESIGN BY OTHERS TO MEET MINIMUM CODE REQUIREMENTS
- 4. PROVIDE DECK LATERAL LOAD AND BRACING CONNECTIONS PER BUILDING

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 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.
- PROVIDE VERTICAL 2x6 STRONGBACKS AT CELLING JOISTS @ 8'-0' 5. 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
- STRUCTURAL STEEL 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 (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL SPECIFICATIONS THE TRUSS DRAWINGS SHALL BE COORDINATED WITH BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL 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_y) OF 50 KSI 2. HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO UNLESS OTHERWISE NOTED. TRUSSES 3. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE
- THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN 3. 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 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 BCSI 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 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 ALL TRUSSES.
- 10. PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION. UNLESS OTHERWISE NOTED.

TO BE %6" OSB MINIMUM.

6.

- WOOD STRUCTURAL PANELS: 1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS
- 2. ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE ΔPΔ
- 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 7/6" OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES

4. ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OF

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 LINLESS OTHERWISE NOTED ON THE PLANS SHEATHING SHALL

SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE

5. WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING

PANEL END JOINTS SHALL OCCUR OVER FRAMING.

RECOMMENDED IN ACCORDANCE WITH THE APA.

EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING

12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE

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.

SHEATHING SHALL HAVE A 1/8" GAP AT PANEL ENDS AND EDGES AS

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

FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT

PLANS, SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING

BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING

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.
- Sheathing shall have a $\!$ as panel ends and edges as recommended in accordance with the AFA.

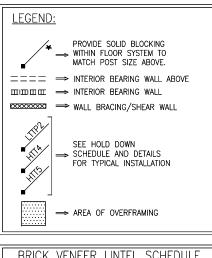
- AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1 ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A 4 MINIMUM BEARING LENGTH OF 31/2" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 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" 0.C.

MECHANICAL FASTENERS:

- ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED FOUIVALENT.
- ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE AND/OR FIRE RETARDANT 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.



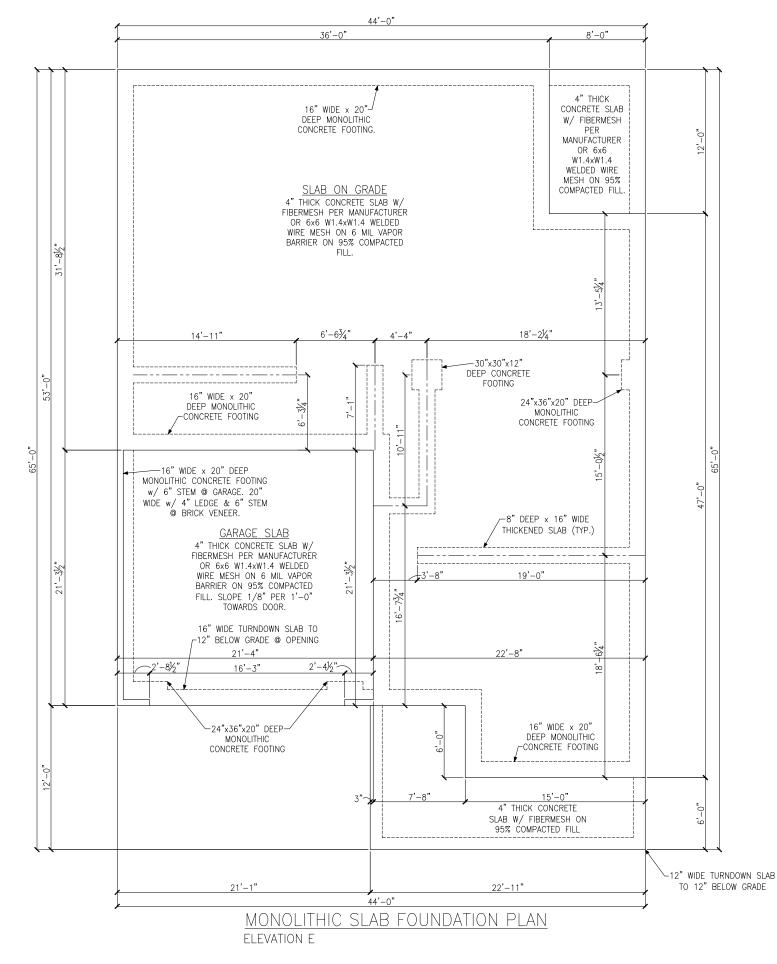
D-R-HORTON merica's



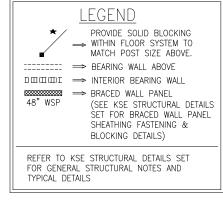
| BRICK | VENEER LINTEL SC | HEDULE |
|-------------|--|-------------|
| SPAN | LINTEL SIZE | END BEARING |
| UP TO 3'-0" | 3½"×3½"×¼" | 4" |
| UP TO 6'-3" | 5"x3½"x5⁄16" L.L.V. | 8" |
| UP TO 9'-6" | 6"x3½"x5⁄16" L.L.V. | 12" |
| | E NOT DESIGNED TO BE BOLTEI JNLESS SPECIFIED ON UNIT PL/ R 4'0" SHALL BE SHORED UP | |



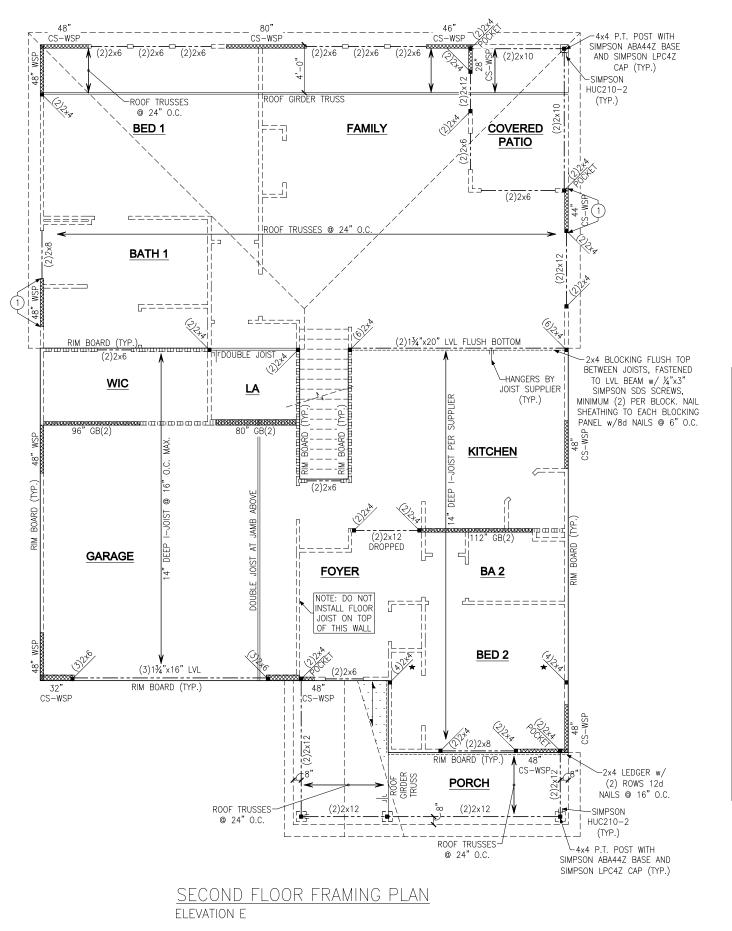


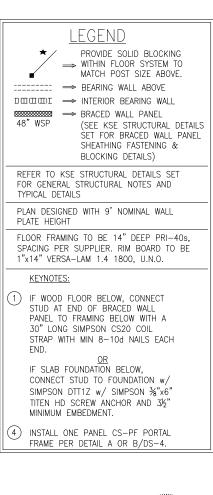






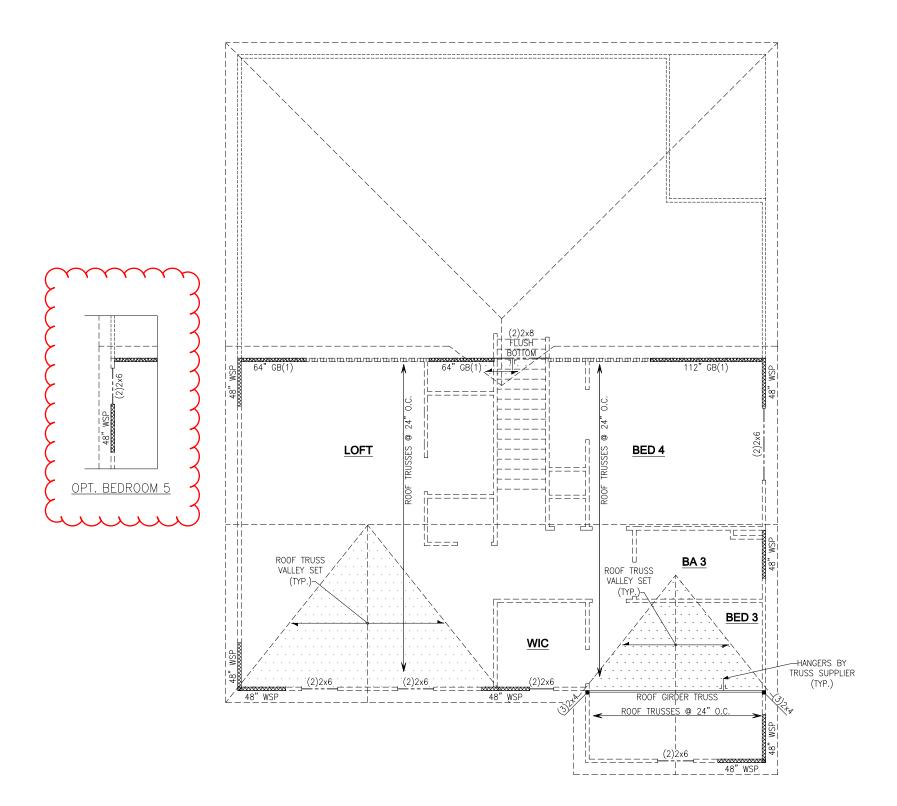
SEAL 051215





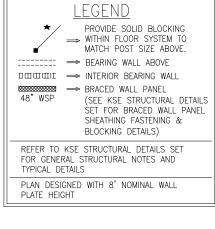
SEAL 051215



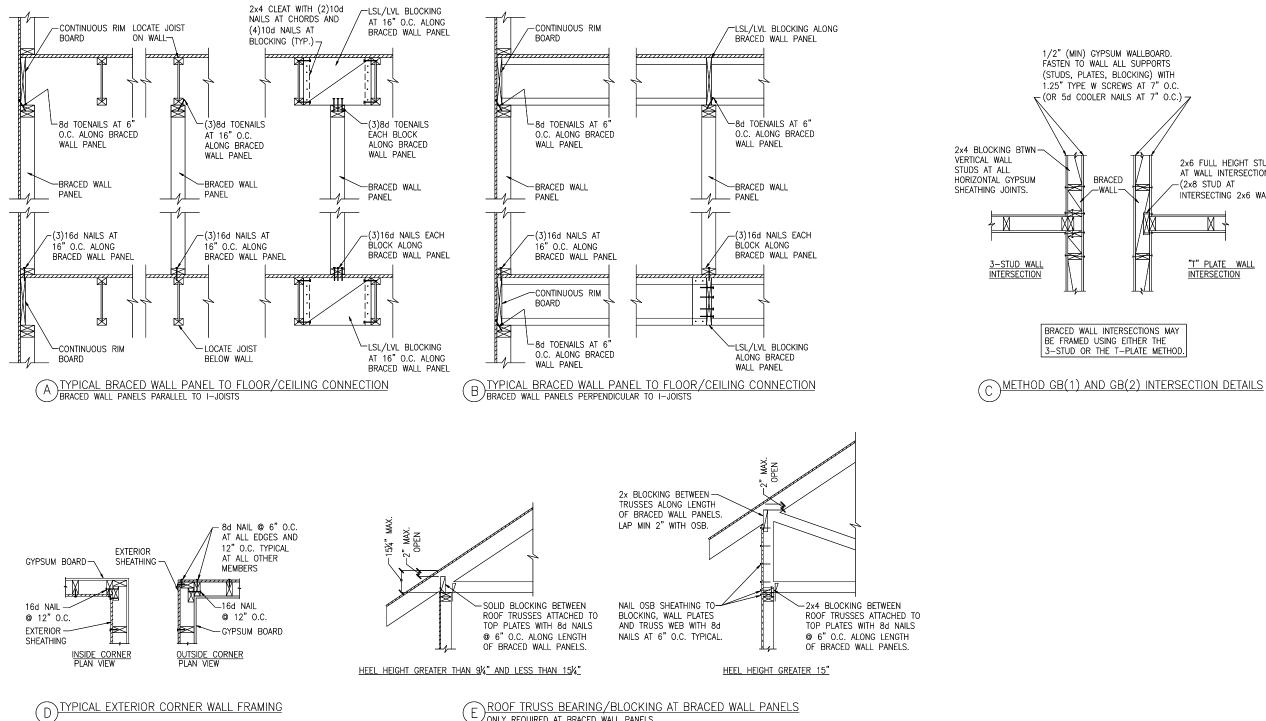


ROOF FRAMING PLAN ELEVATION E

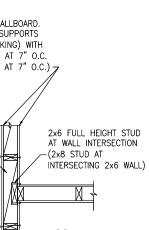








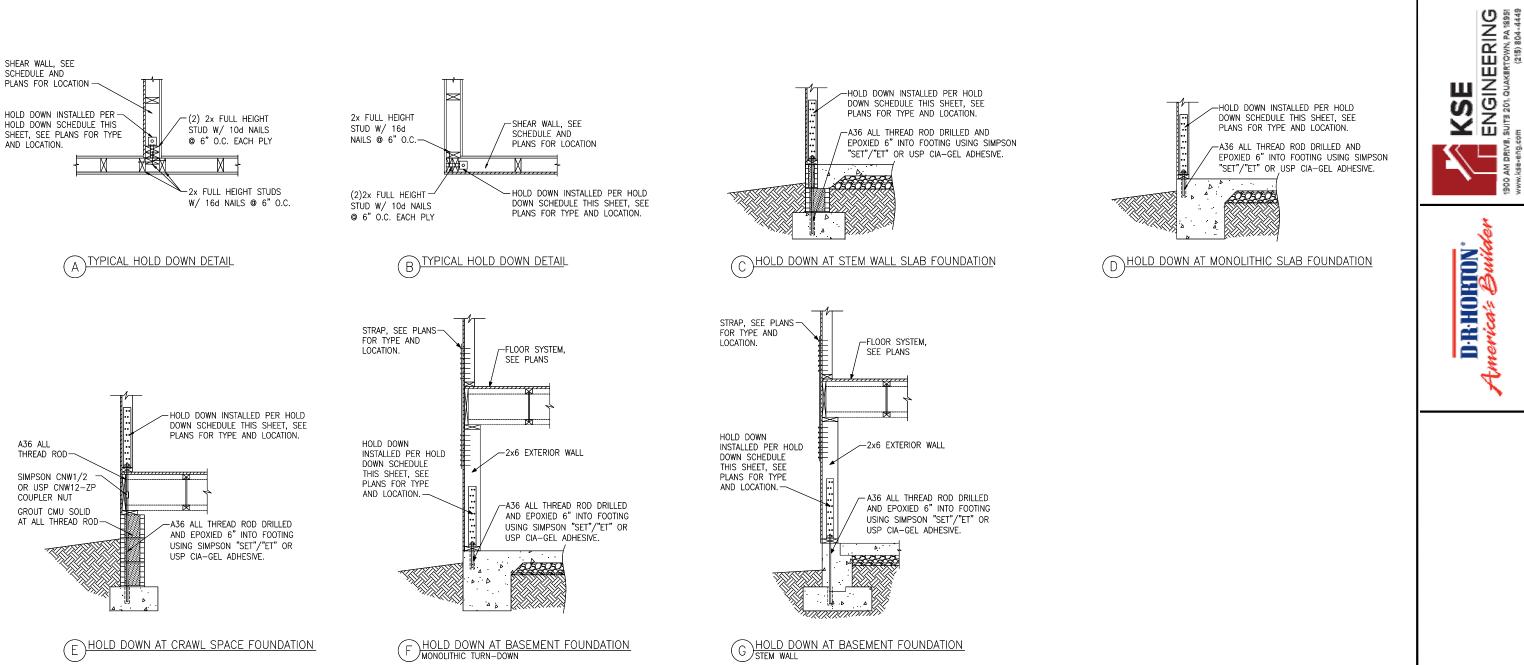
ONLY REQUIRED AT BRACED WALL PANELS



TT PLATE WALL INTERSECTION



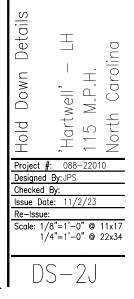


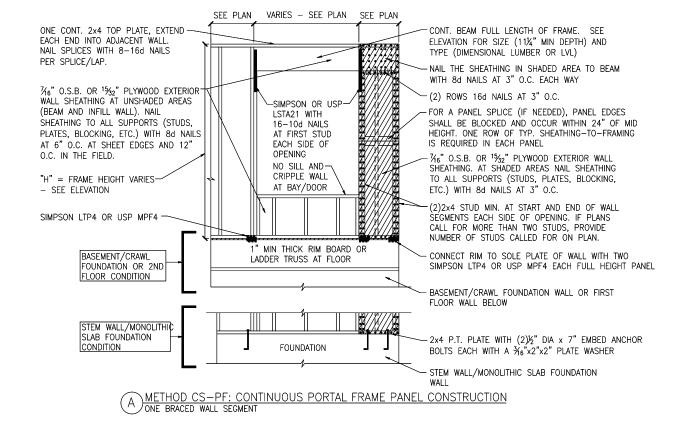


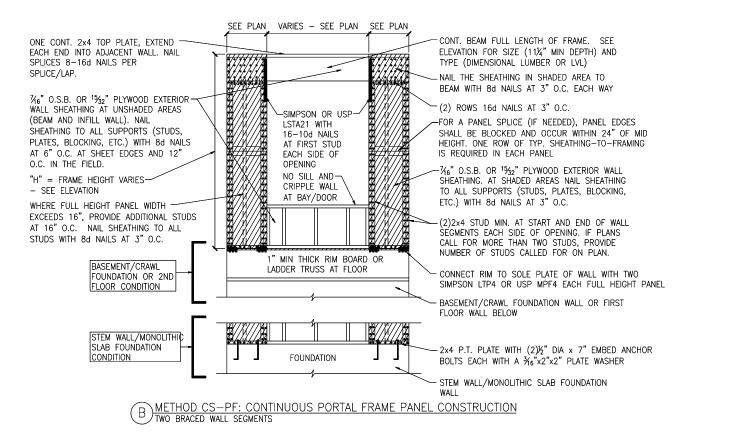
| HOL |
|---------|
| SIMPSON |
| LTTP2 |
| HTT4 |
| HTT5 |

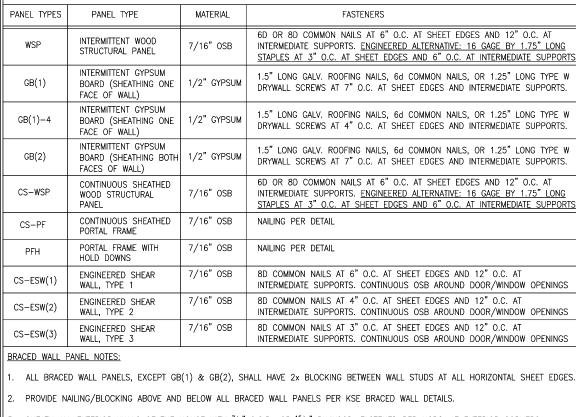
| HOLD DOWN SCHEDULE | | |
|--------------------|----------------|------------------------|
| DOWN | ALL THREAD ROD | FASTENERS |
| USP | ALL INREAD ROD | FASTENERS |
| LTS20B | ½"DIA. | (12)10dx1½" LONG NAILS |
| HTT16 | 5%" DIA. | (18)16dx2½" LONG NAILS |
| HTT45 | 5%" DIA. | (26)16dx2½" LONG NAILS |





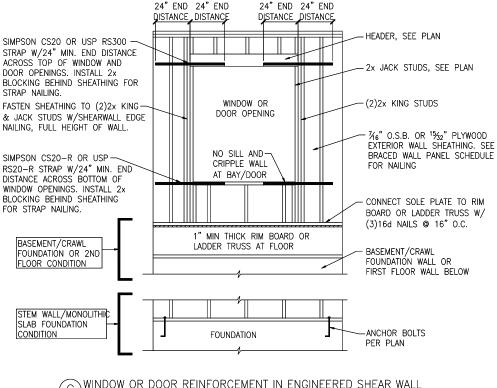






BRACED WALL PANEL AND ENGINEERED

SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 7/6" O.S.B., OR 15/22" PLYWOOD, FASTENED PER NCRC. 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



ONLY REQUIRED WHERE SPECIFIED ON PLANS

FASTENERS

6D OR 8D COMMON NAILS AT 6" O.C. AT SHEFT 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

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.

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.

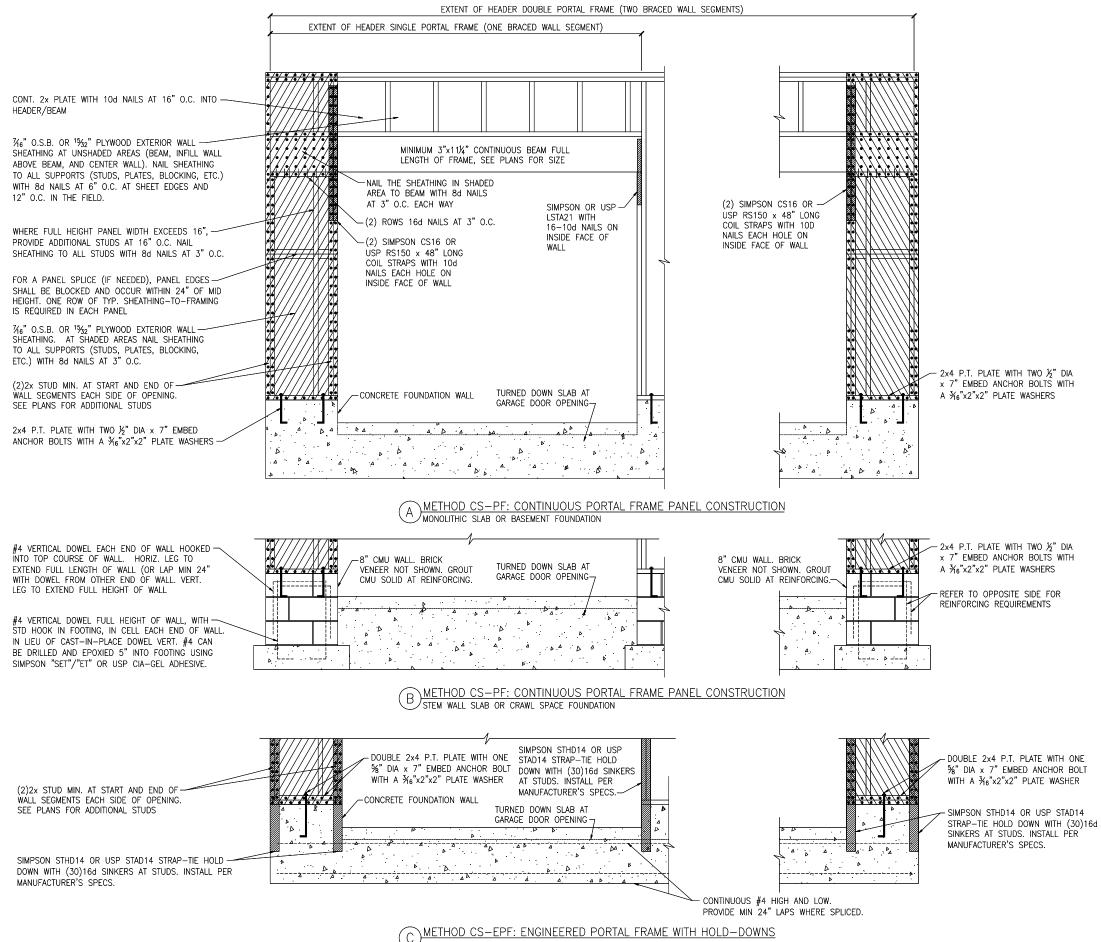
1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEFT EDGES AND INTERMEDIATE SUPPORTS.

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

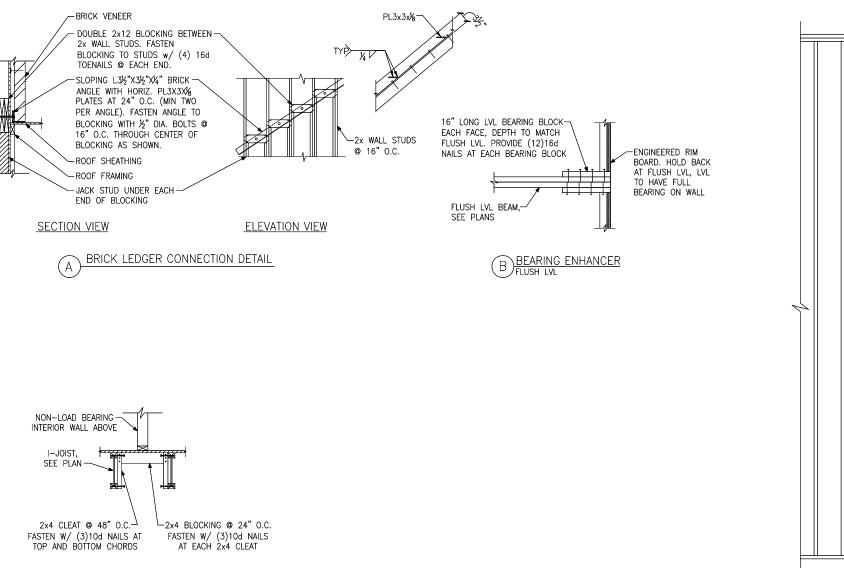
8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS, CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS 8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS 8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS



| | POD AM DRIVE, SUIT 201, OUAKBRTOWN, PA 18351 WWW.Kse-eng.com (215) 804-4449 |
|------------------------|--|
| | D-R-HORTON' America's Builder |
| Details | |
| Desig Chec Issue | H |
| Re-Is Scale | |







C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS

DBALLOON FRAMED WALL DETAIL

WINDOW

OPENING

WINDOW

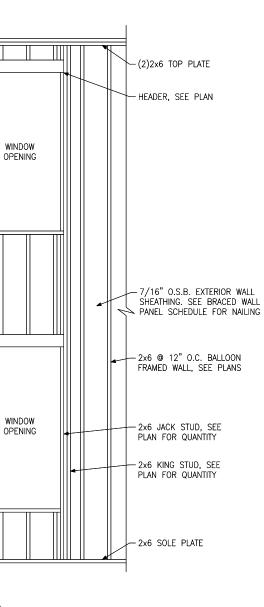
OPENING

WINDOW

OPENING

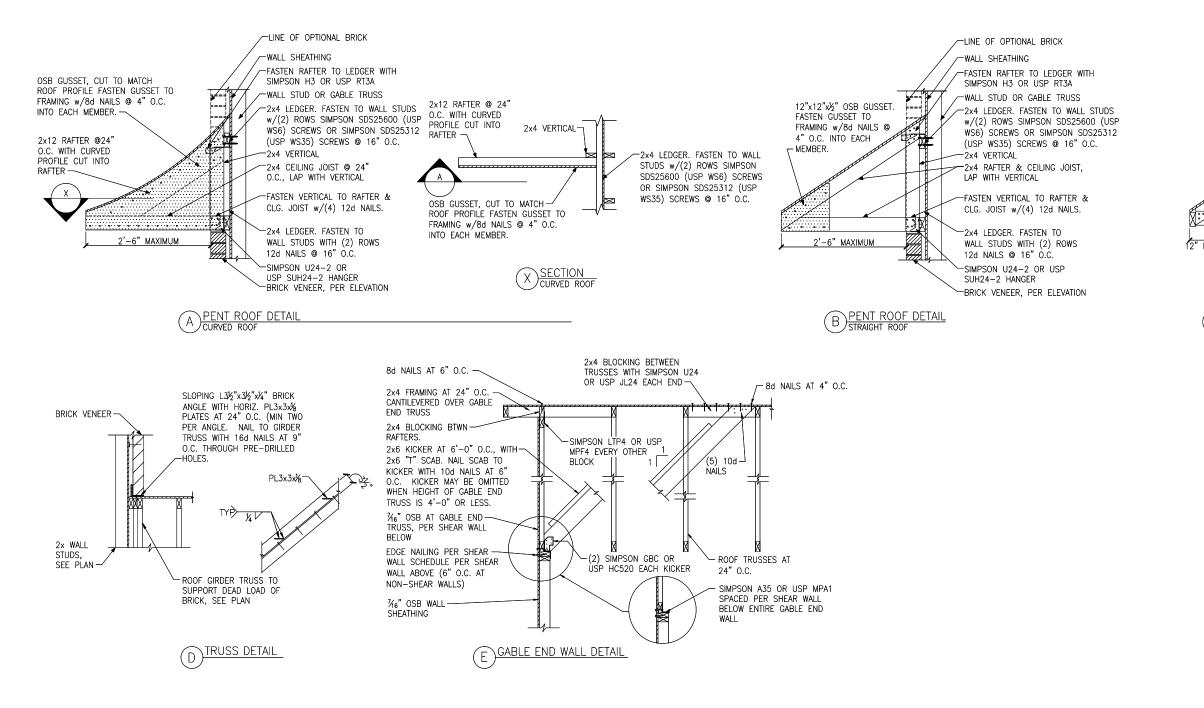
WINDOW

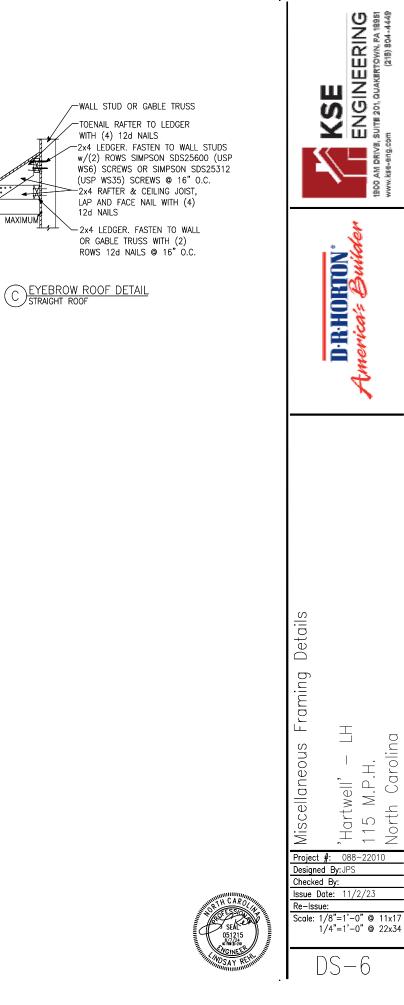
OPENING





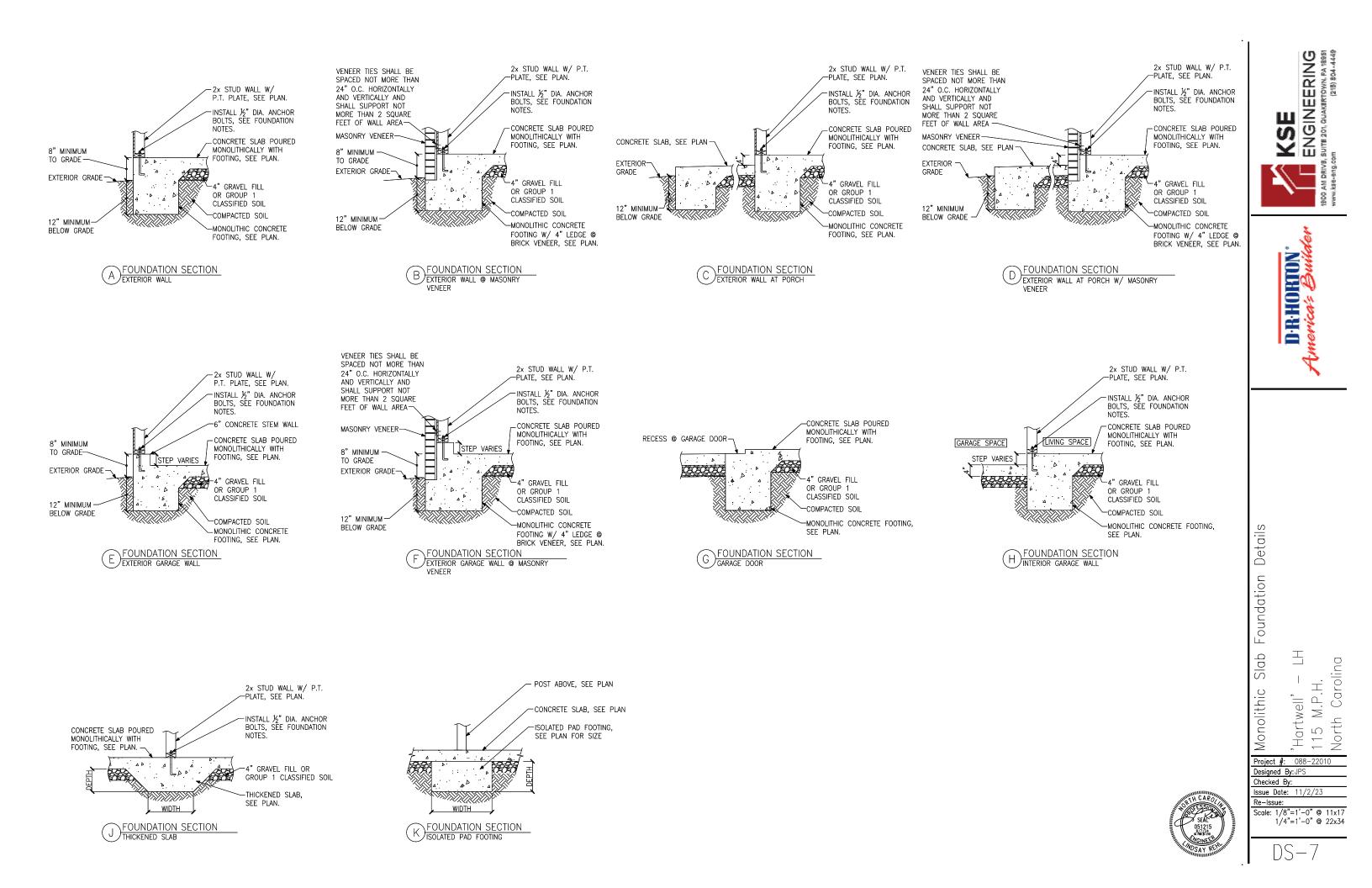


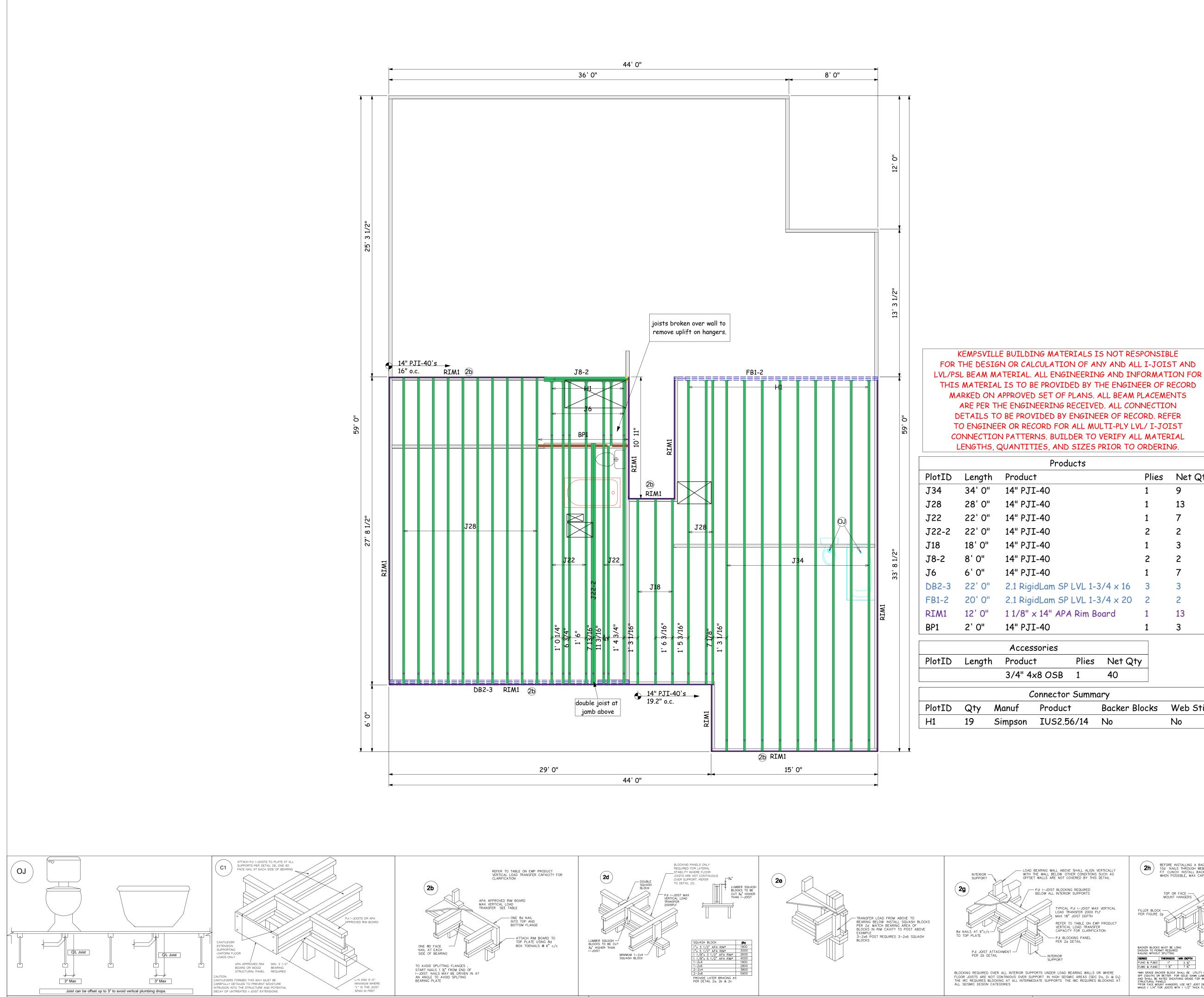




Carolina

North





PLUMBING DROPS NOTED ARE IN APPROXIMATE LOCATIONS PER PLAN. BUILDER MUST VERY LOCATIONS BEFORE SETTING JOISTS.

** REFER TO INSTALLATION GUIDE FOR PLY TO PLY CONNECTIONS.

| NY LOADS. | | Revisions |
|--|--|---|
| | | 00/00/00 Name |
| | | 00/00/00 Name |
| | | 00/00/00 Name 00/00/00 Name |
| | ENTS. | 00/00/00 Name |
| | MPON | |
| | ** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS. | This is an I-Joist Placement Plan Only. All designs of I-Joist follow the IBC/IRC Code Requirements along with Manufacturer's guidelines. This is NOT an engineered placement plan. This placement plan is created from plans provided by the customer using Manufactures guidelines. It is the responsibility of the EOR, or builder to review and approve all bearing conditions, connections, spans, loading, product usage, and quantities. Do not notch or drill holes in beams or flanges on joists without prior approval from the manufacturing Representative unless following hole guidlines in the installation guide of product. Builder takes full responsibility for doing so and NO Back charge will be accepted. |
| | ** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH. ** | |
| <u>R LAYOUT</u> | DAMAGED FLOOR JOISTS SHOULD NOT BE INSTALLED UNLESS APPROVED BY COMPONENT PLANT. | DR Horton 118 Eagle Creek Hartwell E FLOOR JOIST LAYOUT |
| LABEL LEGEND | T BE IN | |
| D = Beam by Others | ILD NC | Scale: 1/4" = 1'-0" |
|) = Post by Others) = Post by Others) = Girder by Others | NOHS | Date: // 04/17/25 |
| I-Joist = Flush Beam | SISTC | Designer: DW |
| = Dropped Beam = Roof Beam | NOR JC | Project #: 25040108 Sheet Number: |
| = Blocking Panels = Squash Blocks | | |
| | MAGE | 1 / 1 |
| | 1 1 | |
| | * | |

Plies Net Qty 9 1 13 1

| | 1 | 7 | |
|---------|---|----|--|
| | 2 | 2 | |
| | 1 | 3 | |
| | 2 | 2 | |
| | 1 | 7 | |
| ′4 x 16 | 3 | 3 | |
| ′4 x 20 | 2 | 2 | |
| ard | 1 | 13 | |
| | 1 | 3 | |
| | | | |
| Net Qt | y | | |
| 40 | | | |

| eb Stiff |
|----------|
| 0 |
| |

2ND FLOOR LAYOU

BBO = Beam by Others

PBO = Post by Others

FB = Flush Beam

RB = Roof Beam

DB = Dropped Beam

BP = Blocking Panels

SB = Squash Blocks

GBO = Girder by Others

2h BEFORE INSTALLING A BACKER BLOCK TO A DOUBLE I-JOIST, DRIVE 3 ADDITIONAL 10d NAILS THROUGH WEBS AND FILLER BLOCK WHERE THE BACKER BLOCK WILL FIT CLINCH INSTALL BACKER TIGHT TO TOP FLANGE USE 12 10d NAILS, CLINCH WHEN POSSIBLE, MAX CAPACIY FOR HANGER FOR THIS DETAIL IS 1280 LBS - DOUBLE PJI I-JOIST HEADER TOP OR FACE -MOUNT HANGER FOR HANGER CAPACITY SEE HANGER MAUNFACTURES RECOMMENDATIONS VERIFY DOUBLE PJI I-JOIST CAPACITY TO SUPPORT CONCENTRATED LOADS <u>NOTE</u> UNLESS HANGER SIDES LATERALLY SUPPORT THE TOP FLANGE, BEARING STIFFENERS SHALL BE USED **J** = I-Joist S X Y Ì BACKER BLOCKS MUST BE LONG ENOUGH TO PERMIT REQUIRED NAILING WITHOUT SPLITTING BACKER BLOCK REQUIRED (BOTH SIDES FOR FACE MOUNT HANGERS SEE HANGER MANUFATURED INSTALL DETAILS GERIES THICKNESS MIN DEPTH PJI40 & PJI60 1" 5 k" PJI40 & PJI60 1 5 ½ PJI80 & PJI90 1 ½" 7 ¼" HANGER MUST SUPPORT TOP FLANGE OF JOIST, FILLER BLOCK REQUIRED IF HANGER IS NOT FULL DEPTH OF JOST MIN GRADE BACKER BLOCK SHALL BE UTILITY GRADE SPF (SOUTH) OR BETTER FOR SOLD SAWN LUMBER AND SHALL BE RATED SHEATHING GRADE FOR WOOD STRUCTURAL PANELS **FOR FACE MOUNT HANGERS, USE NET JOIST DEPTH MINUS 1 1/4" FOR JOISTS WITH 1 1/2" THICK FLANGES