ABBREVIATIONS INDEX L LENGTH LA LAUNDRY LAY LAYATORY LYR LOUVER MAX MAXIMIM MECH MECHANICAL MER. MANUFACTURER MINIMUM MISC MISCELLANEOUS AD. AREA DRAIN AD.J ADJUSTABLE ALT ALTERNATE ALIMINM ARCH. ARCHITECTURAL BA BATHROOM BD BOARD BF BI-FOLD (DOOR) FRONT ELEVATION 'K' TITLE SHEET / COVER SHEET QUICK VIEW I.I K ROOF PLAN 'K' SIDE AND REAR ELEVATIONS 'K' 0.2 QUICK VIEW MECELLANGUS NORTH NT.5. NOT TO SCALE NOT TO SCALE OF THE NOT FRONT FLEVATION 'A' SIDE AND REAR ELEVATIONS 'K'-ΙA ROOF PLAN 'A' W CRANL SPACE DE BEANGE (DOOR) BOT BOTTOM BINN BETWEEN BOT BOTTOM BINN BETWEEN CAB CABNET CAB CABNET CAB CARNOL JOINT OR CONSTRUCTION JOINT CL (LOSET OR CENTER LINE CL COLLEGE CALL COMMETE MASOINTY UNIT CAN COMMETE CAN COMMETE CAR CORRESION RESISTANT CAT. CERAMIC TILE CAT. CERAMIC TILE CAT. CERAMIC TILE D DRYER SIDE AND REAR ELEVATIONS 'A' SIDE AND REAR ELEVATIONS 'K'-2 A SIDE AND REAR ELEVATIONS 'A'-W/ BASEMENT 2.I A W CRAWL SPACE MONOLITHIC SLAB PLAN 'K' SIDE AND REAR ELEVATIONS 'A'-2.2 A STEM WALL PLAN 'K' 3 SW K W/ BASEMENT 3 (SK CRAWL SPACE PLAN K 3 MS A MONOLITHIC SLAB PLAN 'A' BASEMENT PLAN 'K' 3 SW A STEM WALL PLAN 'A' 4 K IST FLOOR PLAN 'K' CRAWL SPACE PLAN 'A' 3 CS A 5 K 2ND FLOOR PLAN 'K' C.I. CERAMIC IILE D PRYTER DBL DOUBLE DH DOUBLE HANS DIM DINENSION DISP DISPOSAL DN DOON DR DOON DR DOON DS DOWNSPOUT DW DISH MASHER DWG DRAWING E EAST EA EACH BUY ELEVATION BASEMENT PLAN 'A' 3 BS A 4 A IST FLOOR PLAN 'A' ΙP FRONT ELEVATION 'P' 2ND FLOOR PLAN 'A' 5 A HP ROOF PLAN 'P' SIDE AND REAR ELEVATIONS 'P' ΙB FRONT ELEVATION 'B' SIDE AND REAR ELEVATIONS 'P'-I.I B ROOF PLAN 'B W/ CRAWL SPACE 2 B SIDE AND REAR ELEVATIONS 'B' SIDE AND REAR ELEVATIONS 'P'-2.I B SIDE AND REAR ELEVATIONS 'B' W/ BASEMENT W CRAWL SPACE 3 MS P MONOLITHIC SLAB PLAN 'P' SIDE AND REAR ELEVATIONS 'B'-3 SW P STEM WALL PLAN 'P' W/ BASEMENT CRAWL SPACE PLAN 'P' V.B. VAPOR BARRIER VERT VERTICAL V.T.R. VENT THRU ROOF 3 (SP MONOLITHIC SLAB PLAN 'B' 3 MS B 3 BS P BASEMENT PLAN 'P' V.T.R. VENT THRU ROOF IN MASHING MACHINE ND MOOD NDM INIDOM NH MATER HEATER IN WOOD NIC MALK-IN CLOSET W WO WITH OR NITHOUT NP MATERREPROOF(ING) WHM MELDED MIRE MESH 3 SW B STEM WALL PLAN 'B' 4 P IST FLOOR PLAN 'P' CRAWL SPACE PLAN 'B' 2ND FLOOR PLAN 'P' 3 (SB 5 P 3 BS B BASEMENT PLAN 'B' IST FLOOR PLAN 'B' 4 B FRONT ELEVATION 'R' GL GLASS OR GLAZING OFF PD OFF STAM BOARD HB HOSE DIBB HD HEAD OR HARD HIRR HEADER HT HEADER HAVE HEATHS/NETITLATING/AIR COND. HBY INTEROR JUNI JUNI JUNI KIT KITCHEN #L PROPERTY LINE Ø ROUND / DIAMETER 2ND FLOOR PLAN 'B' 5 B IJ₽ ROOF PLAN 'R' SIDE AND REAR ELEVATIONS 'R' FRONT ELEVATION 'F' SIDE AND REAR ELEVATIONS 'R'-ROOF PLAN 'F' LLE W/ CRAWL SPACE SIDE AND REAR ELEVATIONS 'F' 2 F SIDE AND REAR ELEVATIONS 'R'-2.I F SIDE AND REAR ELEVATIONS 'F'-W/ BASEMENT BUILDING CODE COMPLIANCE / W/ CRAWL SPACE MONOLITHIC SLAB PLAN 'R' SIDE AND REAR ELEVATIONS 'B'-STEM WALL PLAN 'R' 3 SW R PROJECT INFORMATION W/ BASEMENT 3 CS R CRAWL SPACE PLAN 'R' ALL CONSTRUCTION TO COMPLY WITH LOCAL CODES AND ORDINANCES CURRENTLY IN USE WITH THE LOCAL JURISDICTION. MONOLITHIC SLAB PLAN 'F' BASEMENT PLAN 'R' 3 MS F 3 BS R STEM WALL PLAN 'F' IST FLOOR PLAN 'R' 3 SW F CRAWL SPACE PLAN 'F' 2ND FLOOR PLAN 'R' 3 CS F 5 R FOLLOW ALL APPLICABLE STATE AND LOCAL CODES. 2018 NORTH CAROLINA STATE SUPPLEMENTS AND AMENDMENTS BASEMENT PLAN 'E' 3 BS F 4 F IST FLOOR PLAN 'F' BUILDING SECTIONS 2ND FLOOR PLAN 'F' CONTRACTOR AND BUILDER SHALL REVIEW ENTIRE PLAN TO VERIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH ALL APPLICABLE CODES IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR. BUILDING SECTIONS LLAS I.I.2 A S BUILDING SECTIONS I.I.3 A S BUILDING SECTIONS BASEMENT UTILITY PLAN SINGLE FAMILY RESIDENCE IST FLOOR UTILITY PLAN 2ND FLOOR UTILITY PLAN OCCUPANCY CLASSIFICATION ARCHITECTURAL SHEETS RESIDENTIAL R-3 CONSTRUCTION TYPE ALL CONSULTANT DRAWINGS ACCOMPANYING THESE ARCHITECTURAL DRAWINGS HAVE NOT BEEN PREPARED BY OR UNDER THE DIRECTION OF GMD DESIGN GROUP, INC. GMD DESIGN GROUP INC. THEREFORE ASSUMES NO LIABILITY FOR THE COMPLETENESS OR CORRECTNESS OF THESE DRAWINGS

EXPRESS HOMES 40'SFRIFS MODEL 'HAYDEN' -(

Woodgrove Lot 87 27 Pecan Grove Fuquay Varina, NC 27526 NO: DATE: A 04.25.22

PROJECT TITLE: PLAN CHANGES: 40' Series DESCRIPTION 02.22.21 INITIAL PLAN RELEASE 03.10.21 CLIENT REVISIONS CLIENT REVISIONS 04.14.21 04 15 21 CLIENT REVISIONS CLIENT REVISIONS 12.03.21 012622 CLIENT REVISIONS ADDED LIGHT OVER TUB/SHOWER IN BATH 2

OPT. BASEMENT

FOR CONSTRUCTION

CONSULTANTS:

GENERAL NOTES DESIGNER NORTH CAROLINA:

THESE DOCUMENTS ARE THE PROPERTY OF THE DESIGNER AND SHALL NOT BE COPIED, 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

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED

ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS

ALL TRUSS DRAWINGS TO BE REVIEWED AND APPROVED BY THE STRUCTURAL

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 LOCAL CODES.)

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

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.

ELASTOMERIC SHEET WATERPROOFING: FURNISH AND INSTALL ALL WATERPROOFING 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.

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.

SHOP DRAWING REVIEW AND DISTRIBUSTION, ALONG WITH PRODUCT SUBMITTALS. RESPONSIBILITY OF THE GENERAL CONTRACTOR, UNLESS DIRECTED OTHERWISE

DEVIATIONS FROM THESE DOCUMENTS IN THE CONSTRUCTION PHASE SHALL BE REVIEWED BY THE DESIGNER AND THE OWNER PRIOR TO THE START OF WORK IN QUESTION, ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT PRIOR REVIEW, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR

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.

THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE

THE DUILDER SYMELT INVANCES AND AND ALL RECEIVED FROM THE SECTECHNICAL ENGINEER (SOILS REPORT), ON THE STUDY OF THE PROPROSED SITE, TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR. IN THE 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

ALL WORK PERFORMED BY THE GENERAL CONTRACTOR SHALL COMPLY AND CONFORM WITH LOCAL AND STATE BUILDING CODES, ORDINANCES AND THE REPORT OF THESE REQUIREMENTS. AND GOVERNING REGULATIONS.

PROVIDE AN APPROVED WASHER DRAIN PAN AT SECOND FLOOR ONLY

WINDOM SUPPLIER TO VERIFY AT LEAST ONE WINDOM IN ALL BEDROOMS TO HAVE A CLEAR OPENABLE AREA OF 4,0 SQ FT. THE MINIMM NET CLEAR OPENING HEIGHT SHALL BE 22" AND THE MINIMM NET CLEAR OPENING HEIGHT SHALL BE 22" AND THE MINIMM NET CLEAR OPENING WIDTH SHALL BE 20". GLAZING TOTAL AREA OF NOT LESS THAN 5,0 SQ FT IN THE CASE OF A GROUND MINDOM AND NOT LESS THAN 5,7 SQ FT IN THE CASE OF A GROUND MINDOM AND NOT LESS THAN 5,7 SQ FT IN THE

ALL HANDRAIL BALLUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS PROVIDE STAIR HANDRAILS AND GUARDRAILS PER

BUILDER SET:

THE SCOPE OF THIS SET OF PLANS IS TO PROVIDE A "BUILDER'S SET" THE SCUPE OF THIS SET OF PLANS IS TO PROVIDE A BUILDERS SET.

OF CONSTRUCTION DOCUMENTS AND GENERAL NOTES HEREINAFTER REFERRED TO AS "PLANS".

THIS SET OF PLANS IS SUFFICIENT TO OBTAIN A BUILDING FERNIT, HOWEVER, ALL MATERIALS.

AND METHODS OF CONSTRUCTION NECESSARY TO COMPLETE THE PROJECT ARE NOT. AND HELHOUS OF CONSTRUCTION INCLESSANT TO COMPLETE HE PROJECT ARE NOT NECESSANTLY DESCRIBED. THE PLANS CHINATTE AND DESCRIBE ONLY LICATIONS, DIMENSIONS, TYPES OF MATERIALS, AND GENERAL METHODS OF ASSEMBLING OR FASTENING. THEY ARE NOT INTENDED TO SPECIFY PARTICULAR PRODUCTS OR OTHER METHODS OF ANY SPECIFIC MATERIALS, PRODUCT OR METHOD. THE IMPLEMENTATION OF THE PLANS REQUIRES A CLIENT / CONTRACTOR THROUGHLY KNOWLEDGEABLE WITH THE APPLICABLE BUILDING CODES. AND METHODS OF CONSTRUCTION SPECIFIC TO THIS PRODUCT TYPE AND TYPE OF CONSTRUCTION

CONSTRUCTION REQUIREMENTS AND QUALITY: PROVIDE WORK OF THE SPECIFIC QUALITY WHERE QUALITY LEVEL IS NOT INDICATED, PROVIDE WORK OF QUALITY CUSTOMARY IN SIMILAR TYPES OF WORK. WHERE THE PLANS AND SPECIFICATIONS, CODES, LAWS, REGULATIONS, THESE OF MORN. THERE THE FLAND AND SPECIFICATIONS, CODIES, LAND, REDUCTIONS, MANUFACTURERS RECOMMENDATIONS OR INDUSTRY STANDARDS REQUIRE WORK OF HIGHER QUALITY OR PERFORMANCE, PROVIDE WORK COMPLYING WITH THOSE REQUIREMENTS AND QUALITY WERER TWO OR MORE QUALITY PROVISIONS OF THOSE REQUIREMENTS COMFLICT WITH THE MOST STRINGENT REQUIREMENTS, WHERE REQUIREMENTS ARE DIFFERENT BUT APPARENTLY EQUAL, AND HEREE IT IS UNCERTAIN MICH REQUIREMENT IS MOST STRINGENT, OBTAIN CLARIFICATION FROM THE 6MD DESIGN GROUP BEFORE PROCEEDING.

AREA CALCULATIONS:

Express

PROJECT NO: GMD17049 MODEL 'HAYDEN' SQUARE FOOTAGES ELEV 'B'

Ist FLOOR 1066 SF 2nd FLOOR 1445 SF TOTAL LIVING 2511 SF GARAGE 422 SF 109 SF 80 SF

BASEMENT AREA IS TAKEN TO INSIDE OF CONCRETE WALL

1006 SF

January 22, 2021

TITLE SHEET







Front Elevation 'A' scale: 1/4'=1'-0" at 22"x34" Layout 1/8"=1'-0" at 11"x17" Layout

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





NO: DATE: REVISION:

O4.25.22

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

LIENTS NAME:



PROJECT NO: GMD17049

SHEET TITLE:

QUICK VIEW

PRINT DATE:

January 22, 2021

SHEET NO:

0.1

AVAILABLE WITH OPTIONAL 9'-1" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:

- WDW HT SET AT 7'-6"
- INTERIOR SOFFITS AT 8'-0"
- EXTERIOR SOFFITS AT 8'-0"

NOTES:

- GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN, BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS, INIDION HEAD HIGHTS, IST FLOOR = 6-6* UNJO, ON LEVATIONS, 2ND FLOOR = 1**0* UNJO, ON LEVATIONS, 2ND FLOOR = 1**0**UNJO, ON LEVATIONS, 2ND FLOOR = 1**0**UNJO, ON LEVATIONS, 2ND FLOOR = 1**0**UNJO, ON LEVATIONS, 2ND FLOOR = 1**0*UNJO, ON LEVATIONS, 2ND FLOOR = 1**0**UNJO, ON LEVATIONS, 2ND FLOOR = 1**0*UNJO, 2ND FLOOR = 1**0*UNJO, ON LEVATIONS, 2ND FLOOR = 1**0*UNJO, ON LEVATIONS, 2ND FLOOR = 1**0*UNJO, 2ND FLOOR = 1**0*UNJO, ON LEVATIONS, 2ND FLOOR = 1**0*UNJO, 2ND FLOO

- 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.
- 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.)

KEY NOTES:

MASONRY:

- ADHERED STONE VENEER AS SELECTED BY DEVELOPER, HEIGHT AS NOTED.
- 2 MASONRY FULL BRICK AS SELECTED BY DEVELOPER, HEIGHT AS NOTED.
- MASONRY FULL STONE AS SELECTED BY DEVELOPER, HEIGHT AS NOTED.
- 4 8" SOLDIER COURSE. 5 ROWLOCK COURSE

- N/A
 TYPICALS:
 CORROSION RESISTANT SCREEN LOWERED VENTS, SIZE AS NOTED.
- [8] CODE APPROVED TERMINATION CHIMNEY CAP.
- 4 CORROSION RESISTANT ROOF TO WALL FLASHING, CODE COMPLIANT FLASHING PER NCRC R905-2,6:3
- O STANDING SEAM METAL ROOF, INSTALL PER MANUFCATURER'S WRITTEN INSTRUCTIONS. DECORATIVE WROUGHT IRON, SEE DETAILS.

- SIDING.

 IZ VINTL SHAKE SIDING FER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER.
 (AT SPECIFIED LOCATIONS.
 FIBER CEMENT SHAKE SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.)
- 3 VINYL LAP SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER.
- (AT SPECIFIED LOCATIONS: FIBER CEMENT LAP SIDING PER DEVELOPER W/ IX4 CORNER TRIM BOARD.) 4 VINYL WAVY SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER.
- (AT SPECIFIED LOCATIONS: FIBER CEMENT WAYY SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.)
- FIBER CEPTENT PAVIT SOUND FER DEVELOPER WI NA CONTREX TRIN BOARDJ

 [3] NINTL BOADD AND BATT SONNO FER DEVELOPER WITH VINYL CORNER TRIM PER DÉVELOPER

 (AT S'PECIFIED LOCATIONS.
 FIBER CIPENT PANEL SOINS WI I/OS BATTS AT 12" O.C. PER DEVELOPER WI I/O CORNER TRIM BOARDJ

 [4] NINYL TRIM SIZE AS NOTED

 (AT S'PECIFIC LOCATIONS.

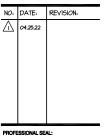
 IN PIECE CEPTENT TRIM OR EQUAL, UN.O. SIZE AS NOTED

- FYPON SHUTTERS, TYPE AS SHOWN, SIZE AS NOTED.

 (AT SPECIFIC LOCATIONS: FALSE VINYL SHUTTERS, TYPE AS SHOWN, SIZE AS NOTED.)

ALL INIDON'S MADE CIPIENTS IS LESS THAN 24" ABOVE THE FINISH FLOOR AND MADSE OPENING IS GREATER THAN 12" ABOVE THE OUTSIDE MALKING SURFACE MAST HAVE NINDOW OPENING LIMING DEVICES COMPLYING WITH THE NORC SECTION R312.21 AND R312.22.

6:12 PITCH <u>|</u>12 6" BAND RAKE FYPON: 5H3POI2X505. FASCIA WDW HD FYPON SH3POI8X629 FYPON: 17 SH3POI8X625, 17 OR OTHER 4:12 PITCH , WDW HD <u>I3</u> COLUMN DETAIL Front Elevation 'B' SCALE: I/4"=1'-0" AT 22"X34" LAYOUT | I/8"=1'-0" AT II"XI7" LAYOUT



PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



PROJECT NO: 6MD17049

SHEET TITLE:

'HAYDEN' **EXTERIOR ELEVATIONS** '4EPF-B'

PRINT DATE:

January 22, 2021

1B

ATTIC VENT CALCULATION FOR PLAN 'HAYDEN': 1:150 RATIO.

THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED, PROVIDED THAT AT LEAST 50 PERCENT AND NOT MORE THAN 80 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS.

EXCEPTIONS:

1. EXCLOSED ATTIC/RAFTER SPACES REQUIRING LESS THAN
1.50 FT OF VENTILATION MAY BE VENTED WITH CONTINUOUS
SOFFIT VENTILATION ONLY.

2. ENCLOSED ATTIC/RAFTER SPACES OVER UNCONDITIONED SPACE MAY BE VENTED WITH CONTINUOUS SOFFIT VENT ONLY

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE CHINEAL CONINACIOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER, VERIFY WITH MANIFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMAN 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.

BY THE BUILDING OFFICIAL.

ALL OVERTAL PRAMED ROOF AREAS SHALL HAVE OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING KAS ALLOWED BY THE STRUCKRAL ENGINEER!

TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEFENDENTLY TO CASC REQUIREMENTS.

PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE CANTILLEVERED ACCHIECTIONS THAT ARE SEPARATED FROM THE YEATING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRANCE ELEMENT.

(PER SECTION R806.2)

I SQUARE INCH VENT FOR EVERY 150 SQUARE INCHES OF CEILING *144 SQ. IN. = 1 SQ. FT.

BLDG. CEILING (SF) X 144 = BLDG (SQ. IN.)

BLDG. (SQ. IN.) / I50 = SQ. IN. OF VENT REQUIRED

ROOF AREA I:= 1488 SF 1488 SQ. FT. X 144 = 214272 SQ. IN. 214272 SQ. IN. / ISO = 1428.48 SQ. IN. OF VENT REQ'D

ROOF AREA 2:= 34 SF 34 SQ. FT. X 144 = 5616 SQ. IN. 5616 SQ. IN. / ISO = 37.44 SQ. IN. *O*F VENT REQ'D

ROOF AREA 3:= 180 SF 180 SQ, FT. X 144 = 25920 SQ, IN, 25920 SQ, IN, / 150 = 172.80 SQ, IN, OF VENT REQ'D

- 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 PLIMBING 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 FOR PLAN 'HAYDEN': 1:300 RATIO.

AS AN ALTERNATE TO THE 1/150 RATIO LISTED ABOVE, AS AN ALTERNALE TO THE MISO RATIO LISTED MOVE,
THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED
TO 1/300 WHEN A CLASS I OR II VAPOR RETARDER IS INSTALLED
ON THE WARM - IN - WINTER SIDE OF THE CEILING.

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANIFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMY CALCULATED VENTS REQUIRED, THE REQUIRED VENTILATION SHALL BE WANTAINED. 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 TO CBC REQUIREMENTS.

PER DEVELOPER, AT ALL CANTILEVERED FLOORS,
CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE CANTILLEVERED ARCHITECTURAL PCO-COUTS, ARLY ANT USED THE 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 300 SQUARE INCHES OF CEILING *144 SQ. IN. = 1 SQ. FT.

*144 30. IN. = 1 30. F1.

BLDG. (SELING (SF) X 144 = BLDG (SQ. IN.)

BLDG. (SQ. IN.) / 300 = SQ. IN. OF VENT REQUIRED

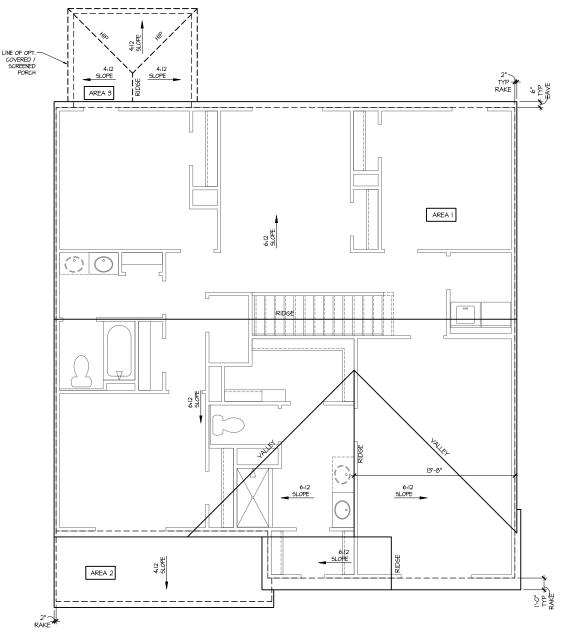
SQ. IN. OF VENT REQUIRED / 2 = 50% AT HIGH & 50% AT LOW.

ROF AREA I: = 1408 SQ, FT. X 144 = 214272 SQ, IN. 214272 SQ, IN. 21424 SQ, IN. 25 SI, IN. 0F VENT REQ'D 357.12 SQ, IN. 0F VENT AT HIGH \$ 357.12 SQ, IN. 0F VENT AT LOW REQUIRED. ROOF AREA 2: = 34 55 50. FT. X 144 = 5616 50. IN. 0F VENT REQ'D 15.12 50. IN. 0F VENT REQ'D 15.12 50. IN. 0F VENT AT LOW REQUIRED.

| ROOF AREA 3; = | 180 SF | | 180

BUILDER TO PROVIDE (2) LAYERS OF UNDERLAYMENT AT ANY ROOF W/ A SLOPE FROM 2:12 TO LESS THAN 4:12

> AT SINGLE FAMILY DETACHED PLANS: PREFINISHED VENTED SOFFIT AT EAVE PER MANUFACTURER. (VERIFY FIRE SEPARATION DISTANCE FOR SOFFIT PROTECTION PER NCRC SECTION R302.1.1 AND TABLE R302.1)



NO: DATE: REVISION: 04.25.22 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

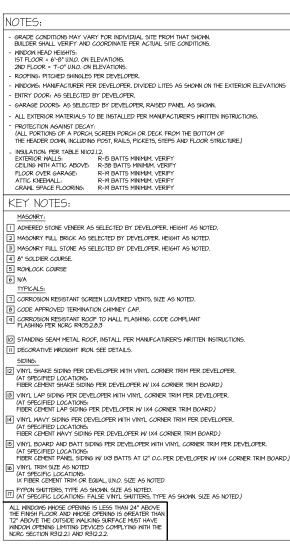


PROJECT NO: GMD17049

'HAYDEN' **ROOF PLAN** '4EPF-B'

January 22, 2021

1.1 B



Right Elevation 'B'

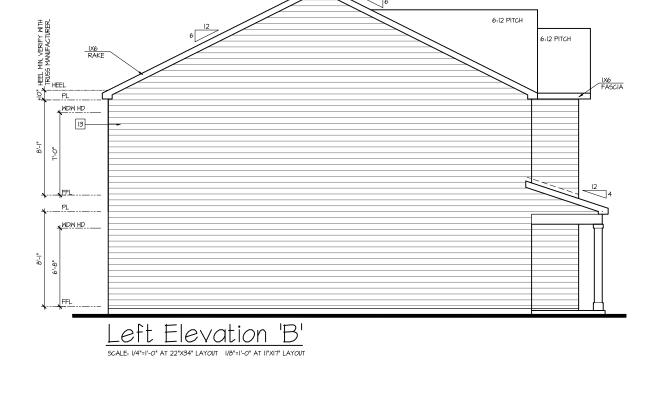
SCALE: 174"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT

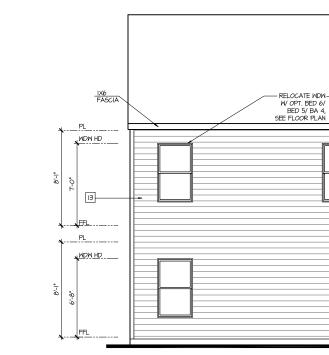
AVAILABLE WITH OPTIONAL 9'-1" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:

- WDW HT SET AT 7'-6"
- INTERIOR SOFFITS AT 8'-0"
- EXTERIOR SOFFITS AT 8'-0"







Rear Elevation 'B'
scale: 1/4*=11-0* AT 22*X34* LAYOUT 1/8*=11-0* AT 11*X17* LAYOUT



PROJECT TITLE:

6:12 PITCH

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



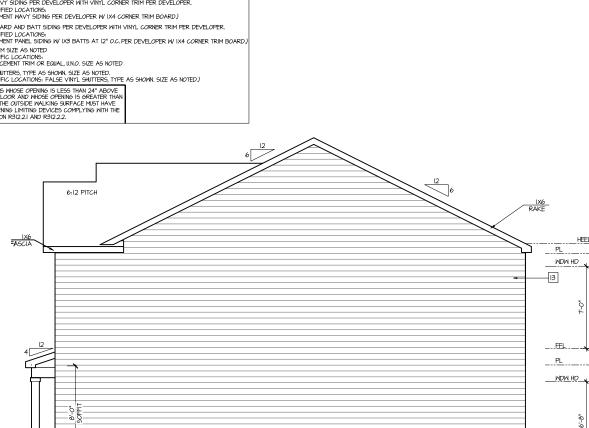
PROJECT NO: GMD17049

HEET TITLE:

'HAYDEN' EXTERIOR ELEVATIONS '4EPF-B'

PRINT DATE: January 22, 2021

2B



NOTES FOR NORTH CAROLINA:

IRRIGATION SYSTEM SHALL BE DESIGNED TO PREVENT THE SATURATION OF SOIL ADJACENT TO BUILDING.

THIS PERIMETER DIMENSION PLAN IS FOR DIMENSIONAL INFORMATION ONLY.

SLOPE ALL STOOPS AND HARDSCAPE MATERIAL AWAY FROM BUILDING - TYPICAL.

SLOPE GARAGE FLOOR I/8" PER FOOT TO GARAGE DOOR OPENING.

- VERIFY CURB CUT BLOCKOUT WITH GARAGE DOOR MANUFACTURER. - REFER TO CIVIL DRAWINGS FOR FINISH SURFACE ELEVATIONS.

- FINISH GRADE SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING, REFER TO SOILS REPORT FOR ANY SPECIFIC REQUIREMENTS.

REFER TO STRUCTURAL DRAWINGS FOR HOLDDOWNS, FOOTING DETAILS, CURB THICKNESS, AND INFORMATION NOT SHOWN ON THIS PLAN.

PLUMBING FIXTURES, VENT LOCATIONS, ETC. ARE APPROXIMATE. CONTRACTOR TO VERIFY COUNT AND LOCATION. VERIFY THE SUPPLY FOR SEPARATE CONDUITS TO ANY ISLAND FOR GAS, WATER OR ELECTRIC.

· VERIFY ALL DOOR THRESHOLD HEIGHTS TO HARD SURFACES, δ 1/4" MAX AT INSWING DOORS, (PER NORG SECTION R311,3.1,)

- TYP STOOP AT INSWING/SLIDER DOORS: 36" DEEP BY THE WIDTH OF THE DOOR SERVED, MINIMUM. (PER NORG SECTION R311.3.) PROVIDE A SLIP-RESISTANT FINISH.

FOR THE USE OF EXPOSED GAS MATER HEATERS IN THE GARAGE, PROTECT THE WATER HEATER WITH 3" DIA CONCRETE FILLED STEEL PIPE EMBEDDED INTO CONCRETE FOOTING.

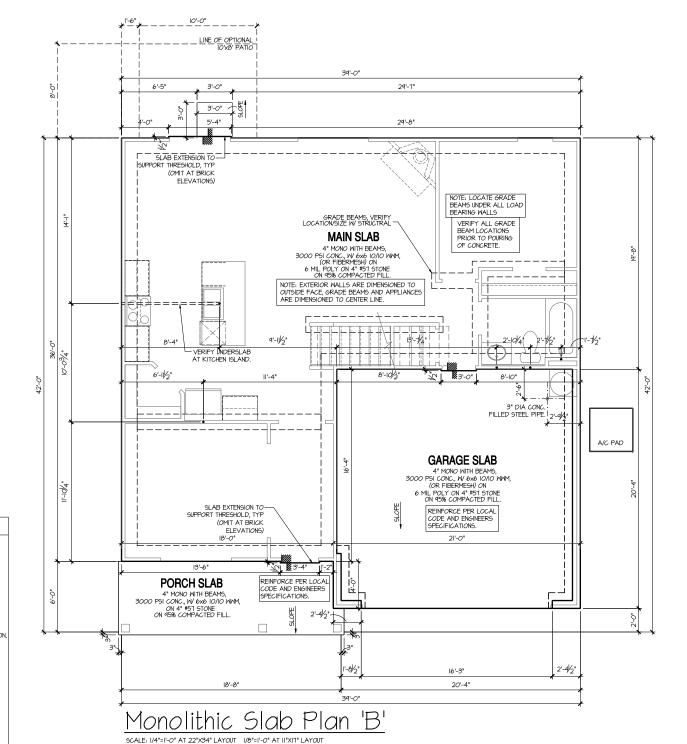
S DIA CONCRETE FILLED STEEL FIFE EMBEDDED INTO CONCRETE FOOTING.

SOLA STREATMENT:

BORACARE TERMITE TO BE APPLIED TO FRAMING PER PRODUCT SPECIFICATIONS.

(PROVIDE CHEMICAL TREATMENT FOR PROTECTION FROM TERMITE INVESTATION ACCORDING TO THE STANDARDS OF THE NC DEPT OF AGRICULTURE).

HOOD CONTACTING CONCRETE OR MASONRY OR LESS THAN CODE REQUIRED SEPARATION TO GRADE SHALL BE PRESEQUE TREATED OR FOUNDATION GRADE REDWOOD. SET ALL EXTERIOR WALL SILLS IN MASTIC.



NO: DATE: REVISION: 04.25.22 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

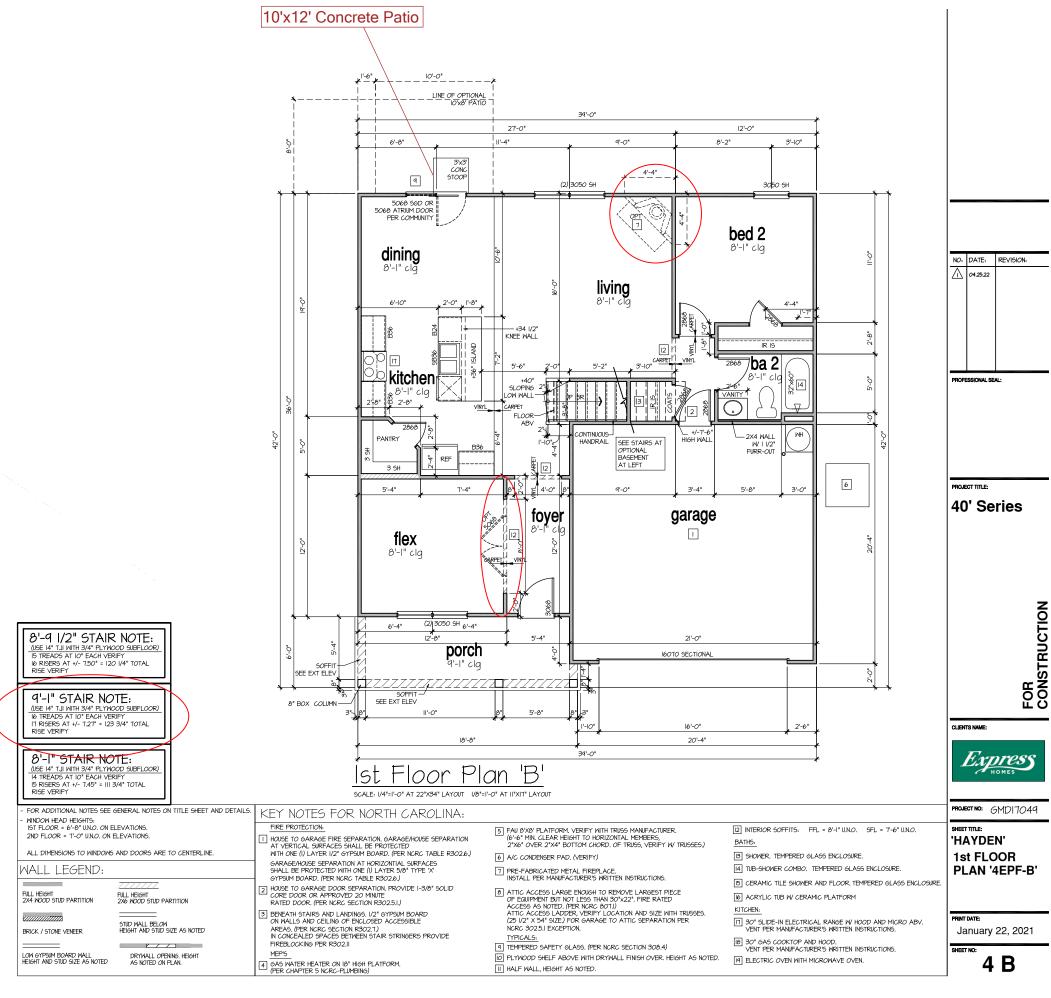


PROJECT NO: GMD17049

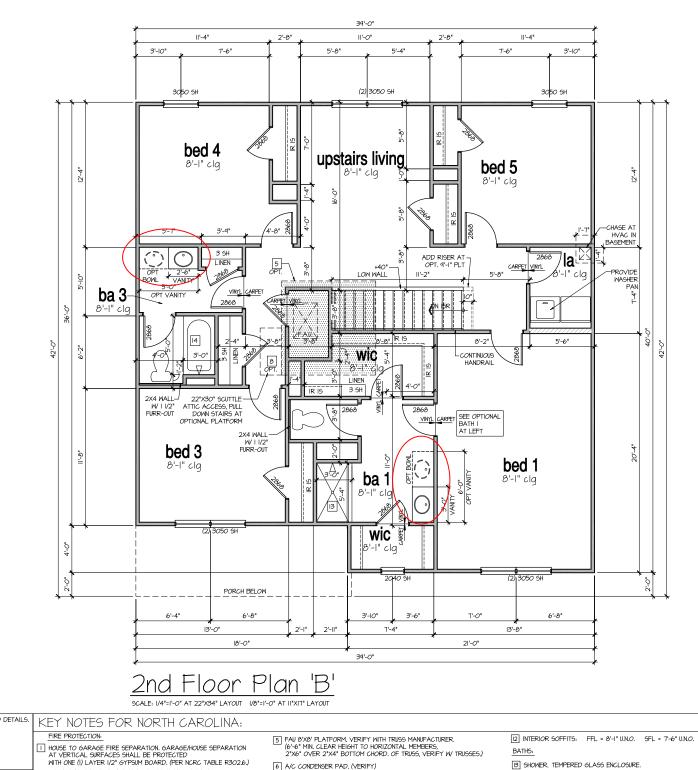
'HAYDEN' MONOLITHIC SLAB PLAN '4EPF-B'

January 22, 2021

3 MS B







NO: DATE: REVISION: 04.25.22

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



PROJECT NO: GMD17049

'HAYDEN' 2nd FLOOR

14 TUB-SHOWER COMBO. TEMPERED GLASS ENCLOSURE. PLAN '4EPF-B' 15 CERAMIC TILE SHOWER AND FLOOR, TEMPERED GLASS ENCLOSURE.

6 ACRYLIC TUB W CERAMIC PLATFORM

KITCHEN: TI 30" SLIDE-IN ELECTRICAL RANGE W HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

[18] 30° GAS COOKTOP AND HOOD. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 19 ELECTRIC OVEN WITH MICROWAVE OVEN.

January 22, 2021

5 B

9'-1" STAIR NOTE:

(USE 14" T.J.I WITH 3/4" PLYNOOD SUBFLOOR)
16 TREADS AT 10" EACH VERIFY
17 RISERS AT +/- 7.27" = 123 3/4" TOTAL
RISE VERIFY

8'-1" STAIR NOTE:

(ISE I4" T.JI WITH 3/4" PLYWOOD SUBFLOOR, I4 TREADS AT IO" EACH VERIEY I5 RISERS AT +/- 7.45" = III 3/4" TOTAL RISE VERIEY

FOR ADDITIONAL NOTES SEE GENERAL NOTES ON TITLE SHEET AND DETAILS. MINDOW HEAD HEIGHTS: IST FLOOR = 6'-8" U.N.O. ON ELEVATIONS. 2ND FLOOR = 7'-0" U.N.O. ON ELEVATIONS.

ALL DIMENSIONS TO WINDOWS AND DOORS ARE TO CENTERLINE.

WALL LEGEND:

FULL HEIGHT 2X4 WOOD STUD PARTITION

FULL HEIGHT 2X6 WOOD STUD PARTITION

BRICK / STONE VENEER

DRYWALL OPENING. HEIGHT AS NOTED ON PLAN. LOW GYPSUM BOARD WALL HEIGHT AND STUD SIZE AS NOTED

STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED

MEP'S

GARAGE/HOUSE SEPARATION AT HORIZONTIAL SURFACES SHALL BE PROTECTED WITH ONE (I) LAYER 5/8" TYPE 'X' GYPSUM BOARD. (PER NCRC TABLE R302.6.)

HOUSE TO GARAGE DOOR SEPARATION, PROVIDE 1-3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE RATED DOOR. (PER NORG SECTION R302.5.I.)

BENEATH STAIRS AND LANDINGS. I/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS. (PER NORC SECTION R302.7.)
IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.II

6 A/C CONDENSER PAD. (VERIFY)

PRE-FABRICATED METAL FIREPLACE.
INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

ATTIC ACCESS LARGE ENOUGH TO REMOVE LARGEST PIECE
OF EQUIPMENT BUT NOT LESS THAN 30"x22". FIRE RATED
ACCESS AS NOTED, (FER NCR: 80"1).
ATTIC ACCESS LADDER, VERIFY LOCATION AND SIZE WITH TRUSSES.
(25 1/2" X 54" SIZE). FOR GARAGE TO ATTIC SEPARATION PER
NCRC 30:25.] EXCEPTION.

TOTAL ACCESS LARGE ENOUGH TO ATTIC SEPARATION PER
NCRC 30:25.] EXCEPTION.

TOTAL ACCESS LARGE ENOUGH TO ATTIC SEPARATION PER
NCRC 30:25.] EXCEPTION.

TYPICALS:

TEMPERED SAFETY GLASS. (PER NORC SECTION 308.4)

PLYWOOD SHELF ABOVE WITH DRYWALL FINISH OVER. HEIGHT AS NOTED.

II HALF WALL, HEIGHT AS NOTED.

9'-I" STAIR NOTE:

(USE 14" T.J.I WITH 3/4" PLYWOOD SUBFLOOF 16 TREADS AT IO" EACH VERIFY 17 RISERS AT +/- 7.27" = 123 3/4" TOTAL RISE VERIFY

8'-1" STAIR NOTE:
(USE I4" T.J. MITH 3/4" PLYMOOD SUBFLOOR)
14 TREADS AT 10" EACH VERIFY
15 RISERS AT 4" - 7.45" = 111 3/4" TOTAL
RISE VERIFY

NOTES:

- 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.
- DILLDING SECTIONS SHOWN HERE DEPICT VOLUMIN SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWNINGS, TRUSS DRAWNINGS, STRUCTURAL DETAILS AND CALCULATIONS BY OTHER FOR ALL STRUCTURAL INFO.

 ROOFING: PITCHED SHINGLE ROOF, REFER TO ROOF PLAN FOR TYPICALS.

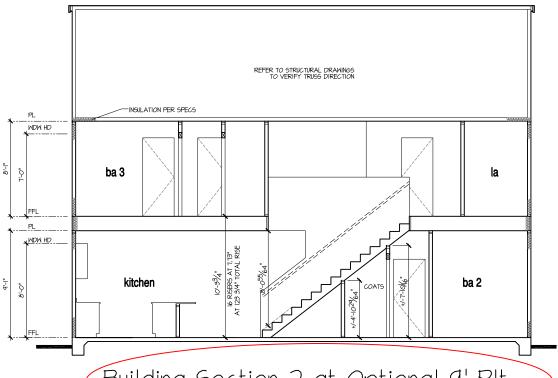
PER STATE RESIDENTIAL CODE COMPLIANCE METHOD TO BE DETERMINED BY BUILDER.

- WOOD FLOORS: FLOOR SHEATHING OVER FLOOR JOIST. REFER TO STRUCTURAL AND TRUSS DRAWINGS BY OTHERS.
- VERIFY STAIRS MINIMUM AND MAXIMUM REQUIREMENTS FOR CONSTRUCTION CLEARANCES MITH LOCAL CODES.
- INSULATION:
 EXTERIOR WALLS ZONE 3:
 EXTERIOR WALLS ZONE 4:
 R-I3 BATTS MINIMUM. VERIFY
 R-I5 BATTS MINIMUM, VERIFY

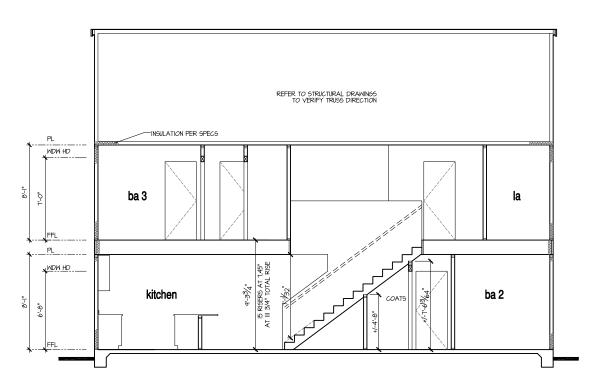
- CEILING WITH ATTIC ABOVE COMPRESSED INSULATION:
 R-36 BATTS MINIMM. VERIFY
 CEILING WITH ATTIC ABOVE UNCOMPRESSED INSULATION (HEELS IN TRUSSES):
 R-30 BATTS MINIMM. VERIFY
- FLOOR OVER GARAGE:
 ATTIC KNEEWALL:
 CRAWL SPACE FLOORING:
 R-19 BATTS MINIMUM, VERIFY
 R-19 BATTS MINIMUM, VERIFY
- WINDOW GLAZING "U" FACTOR: 0.35

REFER TO STRUCTURAL DRAWINGS TO VERIFY TRUSS DIRECTION - INSULATION PER SPECS MDW HD MDM HD living foyer

Building Section Lat Monolithic Slab



Building Section 2 at Optional 9' Plt



Building Section 2 at Monolithic Slab

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



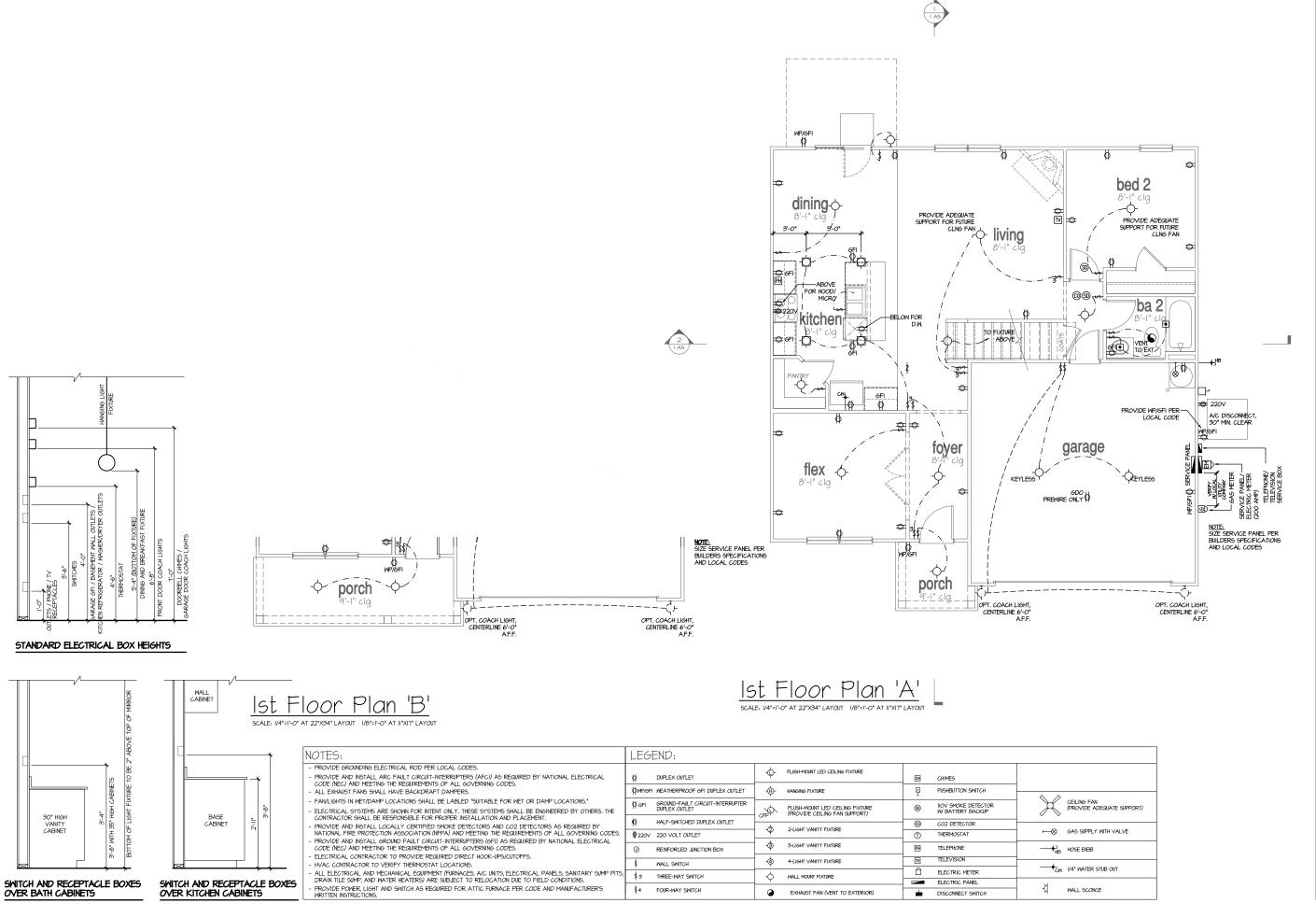
PROJECT NO: GMD17049

'HAYDEN' **BUILDING SECTIONS**

PRINT DATE:

January 22, 2021

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NO: DATE: REVISION:

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PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

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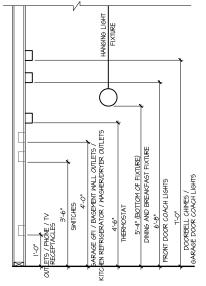
PROJECT NO: GMD17049

SHEETTITUS:
'HAYDEN'
1st FLOOR
UTILITY PLAN

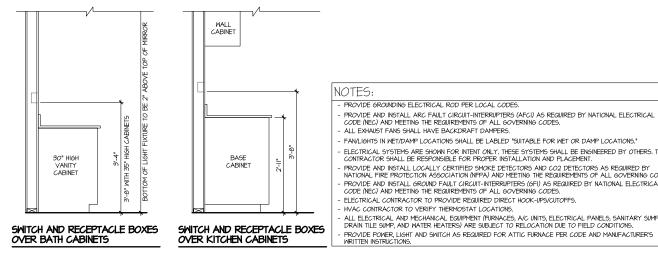
int date: January 2

January 22, 2021

7



STANDARD ELECTRICAL BOX HEIGHTS



bed 4 upstairs living PROVIDE ADEQUATE BUPPORT FOR FUTURE CLING FAN 8'-1"-519 PROVIDE ADEQUATE SUPPORT FOR FUTURE CLING FAM PROVIDE ADEQUATE SUPPORT FOR FUTURE CLNG FAN (SD) PROVIDE 2ND GFI/LIGHT AT OPTIONAL BOWL la ba 3 8'-1" cla (SD) VENT TO EXT (SD) VENT TO EXT PROVIDE ADEQUATE SUPPORT FOR FUTURE CLNG FAN PROVIDE 2ND GFI/LIGHT AT OPTIONAL BOWL bed 3 -VENT TO EXT bed 1 **ba 1** 8'-1" clg **** WIC,

2nd Floor Plan 'A' Scale: 1/4"=1-0" at 22"x34" layout 1/8"=1-0" at 11"x17" layout

| | LEGI | END: | | | | | | |
|-------|---------------|---|-----|--|----------|---|-----------------|---|
| | ф | DUPLEX OUTLET | ф | FLUSH-MOUNT LED CEILING FIXTURE | CH CH | CHIMES | | |
| | Фир/6FI | WEATHERPROOF GFI DUPLEX OUTLET | | HANGING FIXTURE | 9 | PUSHBUTTON SWITCH | 1 | |
| HE | Ф <i>6</i> FI | GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET | | FLUSH-MOUNT LED CEILING FIXTURE (PROVIDE CEILING FAN SUPPORT) | 99 | IIOV SMOKE DETECTOR W BATTERY BACKUP | | CEILING FAN (PROVIDE ADEQUATE SUPPORT) |
| | Ø | HALF-SWITCHED DUPLEX OUTLET | | · | 60 | CO2 DETECTOR | 1 | |
| DES. | ₽220V | 220 VOLT OUTLET | -\$ | 2-LIGHT VANITY FIXTURE | (T) | THERMOSTAT | | GAS SUPPLY WITH VALVE |
| | | REINFORCED JUNCTION BOX | -\$ | 3-LIGHT VANITY FIXTURE | PH | TELEPHONE | → _{HB} | HOSE BIBB |
| ŀ | \$ | WALL SWITCH | -4) | 4-LIGHT VANITY FIXTURE | īV | TELEVISION | | |
| PITS, | \$ 3 | THREE-WAY SWITCH | - | WALL MOUNT FIXTURE | | ELECTRIC METER | → CM | I/4" WATER STUB OUT |
| - | 1 . | | Ψ. | 77 GET FORTH TOTAL | | ELECTRIC PANEL | Ж | |
| | \$4 | FOUR-WAY SMITCH | • | EXHAUST FAN (VENT TO EXTERIOR) | — | DISCONNECT SWITCH | 7 7 | MALL SCONCE |

| NO: | DATE: | REVISION: | | | |
|-------------------------|----------|-----------|--|--|--|
| $\overline{\mathbb{A}}$ | 04.25.22 | | | | |
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| PROFESSIONAL SEAL | | | | | |

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAM



PROJECT NO: GMD17049

SHEET TITLE:
'HAYDEN'
2nd FLOOR

January 22, 2021

UTILITY PLAN

QUEET NO.

8

Second Floor Bracing Plan





CALL 2564 MATER DRAIN SYL JOST

PETER TO COVER BREET FOR A CSI

DESIGN SPECIFICATIONS: Construction Type: Commerical ☐ Residential ☒ Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

• ASCE 1-10: Minimum Design Loads for Buildings and Other Structures Design Loads: I. Roof Live Loads Conventional 2x 2. Roof Dead Loads 2.l. Conventional 2x 22. Truss _____ 10 PSE _ 15 PSF 3.1. Importance Factor 4. Floor Live Loads 4.1. Typ. Dwelling 42. Sleeping Areas 43. Decks 40 PSF PROJECT ADDRESS 4.4. Passenger Garage 50 PSF 5. Floor Dead Loads
5.1. Conventional 2x. 52. I-Joist . 6. Ultimate Design Wind Speed (3 sec. gust) ______ 130 MPH DESIGNER: 6.1. Exposure .. GMD Design Group 102 Fountain Brook Circle 62. Importance Factor. 63. Wind Base Shear 631 Vx = Cary, NC 27511 6.32.Vy = 1. Component and Cladding (in PSF) | MEAN ROOF | UP TO 30' | 30'|"-35' | 35'|"-40' | 40'|"-45' ZONE I 16.1,-18.0 11.6,-18.9 18.3,-19.1 18.8,-2.02 P.C. before construction begins. ZONE 2 16.1-21Ø 116-221 183-229 188-236 ZONE 3 16.1.-21Ø 17.6.-22.1 18.3.-22.9 18.8.-23.6 ZONE 4 182,-19.0 192,-20.0 19.9,-20.8 20.4,-21.3 PLAN ABBREVIATIONS: ZONE 5 182,-24.0 19.2,-25.2 19.9,-26.2 20.4,-26.9

HAYDEN RH

OWNER: DR Horton, Inc. 8001 Arrowridge Blvd. Charlotte, NC 28273

| AB | ANCHOR BOLT | PT | PRESSURE TREATED |
|-----|------------------------|-----|------------------------|
| AFF | ABOVE FINISHED FLOOR | RS | ROOF SUPPORT |
| CJ | CEILING JOIST | 9C | STUD COLUMN |
| CLR | CLEAR | SJ | SINGLE JOIST |
| DJ | DOUBLE JOIST | SFF | SPRUCE PINE FIR |
| D5P | DOUBLE STUD POCKET | SST | SIMPSON STRONG-TIE |
| EE | EACH END | 5YP | SOUTHERN YELLOW PINE |
| ΕW | EACH WAY | TJ | TRIPLE JOIST |
| NTS | NOT TO SCALE | TSP | TRIPLE STUD POCKET |
| oc | ON CENTER | TYP | TYPICAL |
| PSF | POUNDS PER SQUARE FOOT | uno | UNLESS NOTED OTHERWISE |
| PSI | POUNDS PER SQUARE INCH | WWF | WELDED WIRE FABRIC |

PEVISION LIST

| Revision No. | Date | Project No. | Description |
|-----------------|---------|----------------|--|
| 1 | 4.19.21 | TØITT | Updated elevation names |
| | | | Added Stem Wall, Crawlapace, and Basement |
| 2 | 6.14.21 | TØITT | Added OX-15 option and Updated OX-15 table framing |
| 3 | 112321 | דרושד | Updated the engineering in the first floor framing |
| | - | | |
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| These drawings are to be coordinated with the architectural, mechanical, plumbing, |
|--|
| electrical, and civil drawings. This coordination is not the responsibility of the |
| structural engineering of record (SER). Should any discrepancies become |
| apparent, the contractor shall notify SUMMIT Engineering, Laboratory 4 Testing, |
| PC before construction begins |

| AB | ANCHOR BOLT | PT | PRESSURE TREATED |
|-----|------------------------|-----|------------------------|
| AFF | ABOVE FINISHED FLOOR | RS | ROOF SUPPORT |
| CJ | CEILING JOIST | 9C | STUD COLUMN |
| CLR | CLEAR | SJ | SINGLE JOIST |
| DJ | DOUBLE JOIST | SPF | SPRUCE PINE FIR |
| D5P | DOUBLE STUD POCKET | SST | SIMPSON STRONG-TIE |
| EE | EACH END | SYP | SOUTHERN YELLOW PINE |
| EW | EACH WAY | TJ | TRIPLE JOIST |
| NTS | NOT TO SCALE | TSP | TRIPLE STUD POCKET |
| oc | ON CENTER | TYP | TYPICAL |
| PSF | POUNDS PER SQUARE FOOT | uno | UNLESS NOTED OTHERWISE |
| PSI | POUNDS PER SQUARE INCH | WWF | WELDED WIRE FABRIC |
| | | • | |

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) prior to the Initial design. Therefore, truss and joist directions were assumed based on the information provided by <u>DR Horton, Inc.</u> Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUPMIT immediately.

GENERAL STRUCTURAL NOTES:

- NERAL 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 elements and the performance of this structure. No other party may revise alter, or delets any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory 4 Testing, P.C. (SUMMIT) or the SER. For the surposes of these construction documents the SER R and SUMMIT. purposes of these construction documents the SER and SUMMIT
- 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.

 Any structural elements or details not fully developed on the 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 SUM*III 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 SUM*III.

 Verification of assumed field conditions is not the responsibility of the SER Descriptions shall verify the SER or SUM*III.
- of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT 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 drailings.

 This structural and all construction shall conform to all
- applicable sections of the international residential code.
 This structure and all construction shall conform to all applicable sections of local building codes.
- All structural assemblies are to meet or exceed to requirements of the current local building code.

FOUNDATIONS:

I. The structural engineer has not performed a subsurface investigation. Verification of this 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. However, the bottom of all footings shall be a minimum of 12" below grade. Any fill shall be placed under the direction or recommendation.

8.5.1. 6ms = %g 8.52. 6ml = %g 86. Seismic Base Shear 8.62.Vy =

8.1. Basic Structural Sustem (check one) Bearing Wall

□ Building Frame

□ Moment Frame

☐ Inverted Pendulum 8.9. Lateral Design Control: Seismic

9. Assumed Soil Bearing Capacity

☐ Dual w/ Special Moment Frame □ Dual w/ Intermediate R/C or Special Steel

- maximum dry density.

 Excavations of footings shall be lined temporarily with a 6 mil polysthylene 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.

- <u>STRUCTURAL STEEL:</u>
 I. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design"
- Structural steel shall receive one coat of shop applied
- All steel shall have a minimum yield stress (F_u) of 36 ksi unless
- All steel orbit in very a minimum gieral stress (r_y or 26 ks) unless otherwise noted.

 Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS DIL Electrodes for shop and field welding shall be class Ellöxx. All welding shall be performed by a certified welder per the above

- Concrete shall have a normal weight aggregate and a minimum compressive strength (1°c) at 28 days of 3000 psi, 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 42% of target values as follows:
 3.1. Footings: 5%
 32. Exterior Slabs: 5%
- No admixtures shall be added to any structural concrete without written permission of the SER.

- . Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab
- The concrete slab-on-grade has been designed using a subgrade modulus of k-250 pci and a design loading of 200 pst. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.

Wind ⊠

- Control or saw cut joints 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 $[\theta^-]$ 0" unless otherwise noted. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint.
 Reinforcing steel may extend through a control joint.
 Reinforcing steel may extend through a saw cut joint.

 10. All welded wire fabric (WWF.) for concrete slabe-on-grade shall be placed at mid-depth of slab. The WWF. shall be securely supported during the concrete pour.

CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased
- abrasion resistance, and residual strength.
 Filoemesh reinforcing to be 100% virgin polypropylene filoers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- manuactured for use as concrete sectorizing information and Application of Fibermeeth per cubic yard of concrete shall equal a minimum of 0.1% by volume (15 pounds per cubic yard) Fibermeeth phall comply with ASTM CIII6, and Jocal building code requirements, and shall meet or exceed the current industry
- Steel reinforcing bars shall be new billet steel conforming to
- ASIM A615, grade 60.

 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"

 Horizontal footing and wall reinforcement shall be continuous and shall have 30° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B
- Lab reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.

- 9. Uhere 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.

 2. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

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 be Southern-Yellow-Pine (SYP) 2.
- LVL or PSL engineered wood shall have the following minimum
- design values: 2.1. E = 1,900,000 psi 22. Fb = 2600 ps
- 2.4.Fc = 700 bsi
- Wood in contact with concrete, masorry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other maisture expased wood shall be treated in accordance with AUPA standard C-2
- Nails shall be common wire nails unless otherwise noted.
 Lag screws shall conform to ANSI/ASME standard B182.1-1981. Lead holes for lag screws shall be in accordance with NDS
- specifications.

 All beams shall have full bearing on supporting framing members
- unless otherwise noted.

 Exterior and load bearing stud walls are to be 2x4 SYP 12 \$ 16"

 OC. unless otherwise noted. Studs shall be continuous from the ole plate to the double top plate. Stude shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header.
- King stude shall be continuous.

 Individual stude forming a column shall be attached with one I@d nall @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer Multi-ply beams shall have each ply attached with (3) lØd nails € 24" OC.
- Four and five ply beams shall be boilted together with (2) rows of 1/2" diameter through boilts staggered * 16" O.C. unless

WOOD TRUSSES:

- The wood truss manufacturer/fabricator is responsible for the ries wood truss manufacturer/labricator 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 five (5) days for recrice. The scripe shall have a minimum of 11/96 (5) daily for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for
- the wood trusses.

 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 1-10), 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 "National Design Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
- The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracina, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for
- 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.

EXTERIOR WOOD FRAMED DECKS:

Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details

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
- All structurally required wood sheathing shall bear the mark of

- 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, sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.

 Roof sheathing shall be APA rated sheathing exposure | or 2.
- Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6°0/c at panel edges and at 12°0/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing, Sheathing shall have a span rating consistent with the framing spacing. Use
- have a span rating consistent with the framing spacing, like suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.

 Wood Floor sheathing shall be APA rated sheathing exposure 1 or 2, Attach sheathing to its supporting framing with (1)-8d CC ringshark nall at 6°ofc at panel edges and at 12°ofc 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, like suitable edge rating consistent with the framing spacing. Use suitable edge support by use of T4G plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards. All structurally required fiberboard sheathing shall bear the mark of the AFA.
- mark or the APA.

 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
- Sheathing shall have a 1/8" gap at panel ends and edges are

summit



DATE-1034001 9CALE-23:54 MF-1-6F 941 MF-1-6F PROJECT 9-909-101T1 DRAM-9Y: JCEF

PROFES TO COMES SHEET FOR A CONFLETE LIST OF PEMBIONS

SI.lm

OPT. 9CREENED/COVERED PORCH: 12"x10" DP CONT. -CONC. FTG. (TYP @ PORCH) 4" CONCRETE 9LAB ON 95% COMPACTED FILL 5'-5½" 5'-5¹" 24'-1<mark>3</mark>" 24"x24"x10" DP -CONC, FTG. (TYP) Dlm/ 3000 PSI 4" CONCRETE — SLAB W 6"X6"X WAXWA WUR OR FIBER*1ESH RENFORCEMENT OVER 6 MIL. VAPOR RETARDER OVER FILL OR 4" BASE COURSE PER SECTION R506 Dlm | 16"x10" DP LUG FTG. (TYP) Dim / II'-5<u>3</u>" 12'-21 Dim Dlm, 20'-8¹ 16"x13.5" DP LUG — FTG. (TYP @ GARAGE INTERIOR) Dlm/ 3000 PSI 4" CONCRETE — SLAB W/ 6"X6"X WL4XWL4 WWR OR FIBERMESH WIR OR FIDERS 185H
REINFORCEMENT OVER 6
MILL VAPOR RETARDER
OVER FILL OR 4" BASE
COURSE PER SECTION R506 (6) Dim 30"x30"x10" DP CONC. FTG. - 30"x30"x10" DP 18'-0" Dim 4" CONCRETE SLAB ON BRICK VENEER PER ELEVATION (REFER TO ARCHITECTURALS)

ELEVATION B.F.K

12"x10" DP CONT. CONC. FTG. (TYP @ PORCH)

STRUCTURAL MEMBERS ONLY

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION PLAN

SCALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x11"

**OR EQUIVALENT PER TABLE R1023.5

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2016 NORTH CAROLINA RESIDENTIAL CODE WITH ALL LOCAL AND STATE AMENDMENTS.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS UP TO
- 130 MPH. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
- TABLE REQUIAL

 ALL BRACED WALL PANELS SHALL BE RILL WALL HEIGHT AND SHALL NOT EXCEED

 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
 MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.1.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS
- SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO). FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL
- PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT
- EXCEED 21 FEET.
 MASONRY OR CONCRETE STEM WALLS W/ A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.4.3 OF THE 2018 NCRC.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN
- ACCORDANCE WITH SECTION R602J0.4.4
- BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R60210.45 CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN
- ACCORDANCE WITH SECTION REPORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.101 (UNO)

GB = GYPSUM BOARD

WSP = WOOD STRUCTURAL PANEL C3-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION
PF = PORTAL FRAME PF-ENG = ENG. PORTAL FRAME

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL
- CONTRACTOR SHALL VERIEY ALL DIMENSIONS, CONTRACTOR SHALL VERIEY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT, ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING
- REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
 PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS: MICROLLAM (LVL): F₁ = 2600 PSI; F₂ = 255 PSI; E = 1,3x10° PSI PARALLAM (PSL): F₃ = 2900 PSI; F₂ = 290 PSI; E = 125x10° PSI ALL WOOD HEMBERS SHALL BE *2 STP (NLESS NOTED ON PLAN, ALL STUD COLUMNS AND JOISTS SHALL BE *2 STP (UNO).
- STUD COLUMNS AND JOISTS SHALL BE "2 FY (UND).

 ALL BEAM'S SHALL BE SUPPORTED WITH A (2) 2x4 "2 SYP STUD COLUMN
 AT EACH END UNLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO
 ASTM AGE AND SHALL HAVE A MINIMUM COVER OF 3".

 CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN

- PERPENDICULAR TO RAFTERS
- FEITCH BEAMS, 4-PLY LYLS AND 3-PLY SIDE LOADED LYLS SHALL BE BOLTED TOGETHER WITH 12" DIA THRU BOLTS SPACED AT 24" OC. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3f.
- (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D31.

 MIN EDGE DISTANCE SHALL BE I "AND (2) BOLTS SHALL BE LOCATED

 MINIMUM 6" FROM EACH END OF THE BEAM.

 10. ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP 12,

 DROPPED, FOR NON-LOAD BEARING HEADERS EXCEEDING 8"-2" IN

 WIDTH AND/OR WITH MORE THAN 2"-2" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 5YP *2, DROPPED. (UNLESS NOTED OTHERWISE)

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR HORTON COMPLETED/REVISED ON 4/15/21. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE

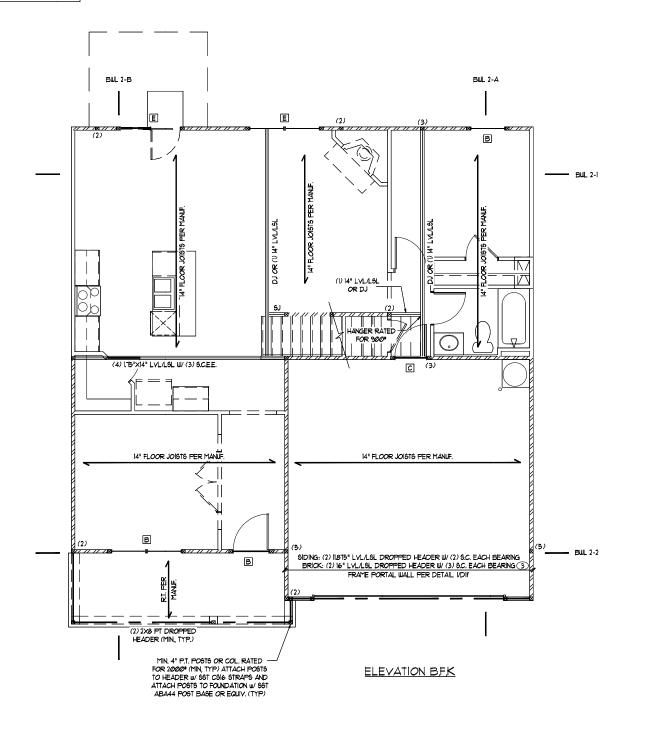
STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

SCALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x17"



| FIRST FLOOR BRACING (FT) | | | | | |
|-----------------------------|-------------------|------|--|--|--|
| CONTINUOUS SHEATHING METHOD | | | | | |
| | REQUIRED PROVIDED | | | | |
| BWL I-1 | 11.6 | 24.8 | | | |
| BWL 1-2 | 11.6 | 15.0 | | | |
| BUL 1-A | 113 | 40.0 | | | |
| BWL 1-B | BWL 1-B 11.3 36.0 | | | | |

| HE | HEADER SCHEDULE | | | | | |
|-----|--------------------|-----|--|--|--|--|
| TAG | TAG SIZE | | | | | |
| Α | (2) 2x6 | (1) | | | | |
| В | (2) 2x8 | (2) | | | | |
| С | (2) 2x1Ø | (2) | | | | |
| D | (2) 2x12 | (2) | | | | |
| E | (2) 9-1/4" LSL/LVL | (3) | | | | |
| Ŧ | (3) 2x6 | (1) | | | | |
| G | (3) 2x8 | (2) | | | | |
| Н | (3) 2xlØ | (2) | | | | |
| | (3) 2x12 | (2) | | | | |

<u>NOTES.</u> . HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER 1. HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.
2. ALL HEADERS TO BE DROPPED (UNO.).
3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD

COLUMNS LISTED ABOVE (UN.O.).

| KING STUD | KING STUD SCHEDULE | | | |
|---------------------|-------------------------|--|--|--|
| MAXIMUM HEADER SPAN | MINIMUM KING STUDS E.E. | | | |
| 4'-0" | (I) | | | |
| 6'-0" | (2) | | | |
| 8'-0" | (2) | | | |
| 10'-0" | (3) | | | |
| 12'-Ø" | (3) | | | |
| 14'-0" | (3) | | | |
| 16'-0" | (4) | | | |
| I8'-Ø" | (4) | | | |

| WALL | STUD SCI | HEDULE | (IØ FT + | EIGHT) | |
|---------------------------|-----------|--------|--------------------|---------------------|--|
| STUD SIZE STUD SPACING (C | | | CING (O.C.) | c) | |
| | ROOF ONLY | ROOF # | ROOF 4 2 FLOORS | NON-LOAD BEARING | |
| 2x4 | 24" | 16" | 12" | 24" | |
| 2x6 | 24" | 24" | 16" | 24" | |
| | | | | | |

I. BRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C. 2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16" O.C.

3. TWO STORY WALLS SHALL BE FRAMED us/ 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ HORIZ. BLOCKING @ 6'-0" O.C. VERTICALLY.

| | LINTEL SCHEDULE | | | |
|--|------------------------------------|------------------------|--|--|
| TAG | SIZE | OPENING SIZE | | |
| 0 | L3x3x1/4" | LESS THAN 6'-0" | | |
| 2 | L5x3x1/4" | 6'-0" TO 10'-0" | | |
| 3 | L5x3-1/2x5/16" | GREATER THAN 10'-0" | | |
| 4 | L5x3-1/2x5/16" ROLLED OR EQUIV. | ALL ARCHED OPENINGS | | |
| SECURE LINITEL TO LIE ADER III / (2) 1/2" DIAMETER LAG | | | | |

SECURE LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED ® 16" O.C. (TYP FOR) ALL HEADERS WHERE BRICK IS USED, TO BE:

SHADED WALLS INDICATED LOAD BEARING WALLS

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS

JOIST 4 BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

DESIGNATES JOIST SUPPORTED LOAD BEARING WALL ABOVE. PROVIDE BLOCKING UNDER JOIST SUPPORTED LOAD BEARING WALL.

NOTE: MEMBERS NOTED AS PRESSURE TREATED MAY BE FRAMED WITH NON-PRESSURE TREATED LUMBER PROVIDED THE ENTIRETY OF THE MEMBER IS WRAPPED TO PREVENT MOISTURE INTRUSION.

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.8 & FIG, R602.10.1 OF THE 2018 NCRC.

NOTE: IIIALL SHEATHING AND EASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NORC

summi



DR Horton, Inc. 8001 Amountage Blvd. Charlotte, NC 28213

Plan Framing



SCALE 23:04 NF-17-67 DRAIN SY: JOS

PERSON TO COVER SHEET FOR A

G3.1

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2018 NORTH CAROLINA RESIDENTIAL CODE WITH ALL LOCAL AND STATE AMENDMENTS.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS UP TO
- 13/2/MPH. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
 MINIMUM PANEL LENGTH SHALL BE PER TABLE R602101.
 THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS
- SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYP9UM BOARD (UNO). FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION
- OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- ON A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A
 BRACED WALL LINE.

 II. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT
- EXCEED 21 FEET.

 12. MASONRY OR CONCRETE STEM WALLS W/ A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602 10 4 3 OF THE 2018 NCRC
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN
- ACCORDANCE WITH SECTION R6@2.I@.4.4 BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R60210.45
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN
- ACCORDANCE WITH SECTION REØ21046
 PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R60210J (UNO)

WGP = WOOD STRUCTURAL PANEL GB = GYPSUM BOARD

C9-XXX = CONT. SHEATHED

FF = PORTAL FRAME

FF-ENG = ENG. PORTAL FRAME

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL
- BUILDING CODE WITH ALL LOCAL AND STATE AMENDMENTS.

 CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONTRACTOR SHALL

 COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT, ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING
- REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
 PROPERTIES USED IN THE DESIGN ARE AS FOLLOUS: FROM ER 1180 WELD IN THE DEDICAN ARE AS POLICIUS:

 MICROLLAM (IV.L), F₃ = 2600 PSI, F₄ = 285 PSI, F₅ = 13x10° PSI

 PARALLAM (PSI.), F₃ = 2920 PSI, F₄ = 292 PSI, F₅ = 125x10° PSI

 ALL WOOD MEMBERS SHALL BE ¹² SYP WILESS NOTED ON PLAN ALL

 STUD COURTNS AND JOISTS SHALL BE ¹² SYP (WHO).

- SILD COLLING SAND JOISTS SHALL BE "2FF (UND).

 ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 "2" SYP STUD COLLINN
 AT EACH END UNLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60" BARS CONFORMING TO
 ASTM ABB AND SHALL HAVE A MINIMUM COVER OF 3".

 CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN
- PERPENDICULAR TO RAFTERS.
- FERRENDICULAR TO RATTERS AND 3-PLY SIDE LOADED LYLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA, THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3f.
- (MAX) 51 ACGENTED OR EQUIVALENT CONNECTIONS PER DETAIL 1/1931.

 MIN EDGE DISTANCE SHALL BE 2" AMD (2) BOLTS SHALL BE LOCATED

 MINIMUM 6" FROM EACH END OF THE BEAM.

 (2) ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP 12,

 DROPPED, FOR NON-LOAD BEARING HEADERS EXCEEDING 8"-2" IN

 WIDTH AND/OR WITH MORE THAN 2"-2" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP *2, DROPPED. (UNLESS NOTED OTHERWISE)

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR HORTON COMPLETED/REVISED ON 4/15/21. IT IS THE REPPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE

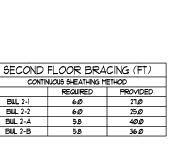
STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN

SCALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x17"



| BWL 2-B | | BUL 2-A |
|---------|------------------|-------------------------------------|
| [[A | | |
| | Rudege FER MANE. | (2) (2) BUL 2-1 |
| | | |
| | | JSS PER MANUF. W/ (5) SCEE. BUL 2-2 |
| 1 | A A | DE TRUSSES PER MANUF. |
| | | |

ELEVATION B.F.K

| HE, | ADER SCHED | ULE |
|-----|--------------------|------------------|
| TAG | SIZE | JACKS (EACH END. |
| A | (2) 2x6 | (I) |
| В | (2) 2x8 | (2) |
| С | (2) 2xlØ | (2) |
| D | (2) 2×12 | (2) |
| E | (2) 9-1/4" LSL/LVL | (3) |
| F | (3) 2x6 | (I) |
| G | (3) 2x8 | (2) |
| Н | (3) 2xlØ | (2) |
| i i | (2) 2,42 | (2) |

<u>. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER</u> HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

2. ALL HEADERS TO BE DROPPED (UNO.).

3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD

COLUMNS LISTED ABOVE (UN.O.).

| KING STUD | SCHEDULE |
|---------------------|-------------------------|
| MAXIMUM HEADER SPAN | MINIMUM KING STUDS E.E. |
| 4'-Ø" | (I) |
| 6'-0" | (2) |
| 8'-0" | (2) |
| 10'-0" | (3) |
| 12'-Ø" | (3) |
| 14'-0" | (3) |
| 16'-0" | (4) |
| 18'-Ø" | (4) |

| WALL S | STUD SCI | HEDULE | (10 FT H | IEIGHT) |
|-----------|-----------|----------|--------------------|---------------------|
| STUD SIZE | | STUD SPA | CING (O.C.) | |
| | ROOF ONLY | ROOF # | ROOF 4 2 FLOORS | NON-LOAD BEARING |
| 2x4 | 24" | 16" | 12" | 24" |
| 2x6 | 24" | 24" | 16" | 24" |
| NOTES. | | | | |

NOTEST WALLS STUDS SHALL BE A MAX OF 16" O.C.

2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX OF 16" O.C.

3. TWO STORY WALLS SHALL BE FRAMED W/ 2x4 STUDS # 12" BLOCKING @ 6'-O" O.C. VERTICALLY.

| | LINTEL SCHED | PULE |
|-----------------|------------------------------------|------------------------|
| TAG | SIZE | OPENING SIZE |
| \odot | L3x3x1/4" | LESS THAN 6'-0" |
| 2 | L5x3x1/4" | 6'-0" TO 10'-0" |
| 3 | L5x3-1/2x5/16" | GREATER THAN 10'-0 |
| 4 | L5x3-1/2x5/16" ROLLED OR EQUIV. | ALL ARCHED OPENINGS |
| CE CUIDE I NITE | 1 TO UE 40E0 4 (0) 100 | DIAMETER LAG |

SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR 3) ALL HEADERS WHERE BRICK IS USED, TO BE:

SHADED WALLS INDICATED LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

NOTE: MEMBERS NOTED AS PRESSURE TREATED MAY BE FRAMED WITH NON-PRESSURE TREATED LUMBER PROVIDED THE ENTIRETY OF THE MEMBER IS WRAPPED TO PREVENT

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.8 4 FIG. R602.10.1 OF THE 2018 NCRC.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NCRC

summi



DR Horton, Inc. 8001 Amountdge E Charlotte, NC 2821

Plan

Framing

Floor

 σ

STRUCTURAL MEMBERS ONLY

SCALE 2564 NV-1-67 DRAIN SY: JOS

PERSON TO COVER SHEET FOR A

54,1

ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
2. UPLIFT VALUES LISTED ARE FOR SYP '2 GRADE MEMBER'S.
3. RETER TO TRUSS LATOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS, CONNECTIONS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.

4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: 19T PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

REFER TO DETAIL 5/D3F FOR EYEBROW, RETURN OR SHED ROOF FRAMING REQUIREMENTS, (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE UITH SECTION REWZILLI WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NCRC. REFER TO BRACED

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL, PLANS PROVIDED BY <u>DR. HORTON</u>
COMPLETED/REVISED ON <u>4/B/J</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, PC. CANNOT GUARANTEE THE ADECUACY OF THESE STRUCTURAL, PLANS WHEN USED WITH ARCHITECTURAL, PLANS DATED PRESEDENTLY THAN THE DATE LISTED MAYOR. DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

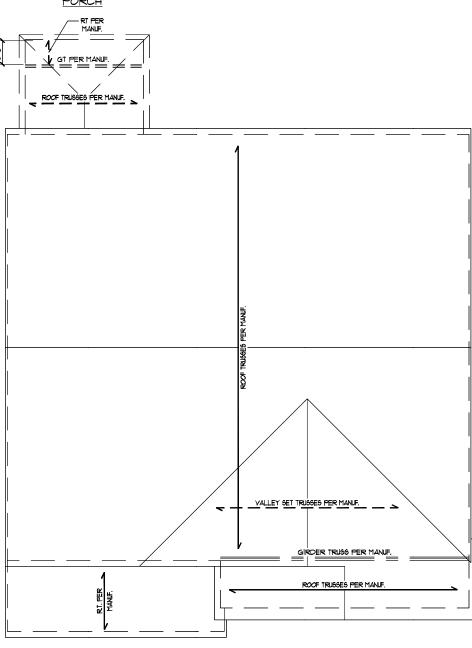
STRUCTURAL MEMBERS ONLY

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN SCALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x17"





ELEVATION B.F.K.





DR Horton, Inc. 8001 Amountage Blvd. Charlotte, NC 20213



SCALE 23.54 NF-IT-6" DRAWN SYL JOSE

NUMBER TO COVER SHEET FOR A CONFLICTE LIST OF FREMIONS

S5.1

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments • ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

Design Loads:

| sign Lo | das: | |
|---------|------------------------|--------|
| - 1. F | Roof Live Loads | |
| | I.I. Conventional 2x | 20 PSF |
| | 1.2. Truss | 20 PSF |
| | 1.2.1. Attic Truss | 60 PSF |
| 2. | Roof Dead Loads | |
| | 2.1. Conventional 2x | 10 PSF |
| | 2.2. Truss | 20 PSF |
| 3. 9 | Snow | 15 PSF |
| | 3.l. Importance Factor | 1.0 |
| 4. F | Floor Live Loads | |
| | 4.1. Typ. Dwelling | 40 PSF |

4.2. Sleeping Areas ... 40 PSF 4.3. Decks . .50 PSF 4.4. Passenger Garage .. 5. Floor Dead Loads 5.1. Conventional 2x 5.2. I-Joist 15 PSF

| MEAN ROOF HT. | UP TO 30' | 3Ø'1"-35' | 35'1"-40' | 40'1"-45' |
|------------------|------------|------------|------------|------------|
| ZONE 1 | 16.7,-18.0 | 17.5,-18.9 | 18.2,-19.6 | 18.7,-20.2 |
| ZONE 2 | 16.7,-21.0 | 17.5,-22.1 | 18.2,-22.9 | 18.7,-23.5 |
| ZONE 3 | 16.7,-21.0 | 17.5,-22.1 | 18.2,-22.9 | 18.7,-23.5 |
| ZONE 4 | 18.2,-19.0 | 19.2,-20.0 | 19.9,-20.7 | 20.4,-21.3 |
| ZONE 5 | 18.2,-24.0 | 19.2,-25.2 | 19.9,-26.1 | 20.4,-26.9 |

8 Seismic

| Seismi | C | |
|--------|--------------------------------|-----|
| 8.1. | Site Class | D |
| 8.2. | Design Category | C |
| | Importance Factor | 1.0 |
| 8.4. | Seismic Use Group | 1 |
| 8.5. | Spectral Response Acceleration | |

8.5.1. Sms = %a 8.5.2. Sml = %a 8.6. Seismic Base Shear

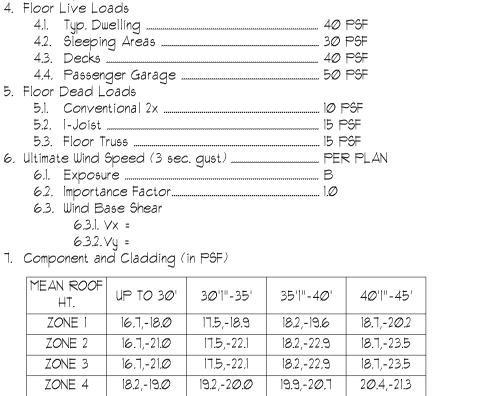
8.6.1. Vx = 8.7. Basic Structural System (check one)

9. Assumed Soil Bearing Capacity

 Bearing Wall
 ■ ☐ Building Frame

☐ Moment Frame ☐ Dual w/ Special Moment Frame ☐ Dual w/ Intermediate R/C or Special Steel

□ Inverted Pendulum 8.8. Arch/Mech Components Anchored. 8.9. Lateral Design Control: Seismic 🗆 Wind 🖂





STRUCTURAL PLANS PREPARED FOR:

STANDARD DETAILS

PROJECT ADDRESS:

DR Horton Carolinas Division 8001 Arrowridge Blvd Charlotte, NC 28273

ARCHITECT/DESIGNER: GMD Design Group 1845 Satellite Blvd. Duluth, GA 30097

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory & Testing, P.C. before construction begins.

PLAN ABBREVIATIONS:

| AB | ANCHOR BOLT | PT | PRESSURE TREATED |
|------------|------------------------|-----|------------------------|
| AFF | ABOVE FINISHED FLOOR | RS | ROOF SUPPORT |
| CJ | CEILING JOIST | SC | STUD COLUMN |
| CLR | CLEAR | SJ | SINGLE JOIST |
| DJ | DOUBLE JOIST | SPF | SPRUCE PINE FIR |
| DSP | DOUBLE STUD POCKET | SST | SIMPSON STRONG-TIE |
| EE | EACH END | SYP | SOUTHERN YELLOW PINE |
| ΕW | EACH WAY | ŤJ | TRIPLE JOIST |
| NTS | NOT TO SCALE | TSP | TRIPLE STUD POCKET |
| <i>0</i> C | ON CENTER | TYP | TYPICAL |
| PSF | POUNDS PER SQUARE FOOT | UNO | UNLESS NOTED OTHERWISE |
| PSI | POUNDS PER SQUARE INCH | WWF | WELDED WIRE FABRIC |
| | | | |

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by <u>DR Horton</u>, Inc. Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

SHEET LIST:

| Sheet No. | Description |
|-----------|--|
| CS1 | Cover Sheet, Specifications, Revisions |
| Dlm | Monolithic Slab Foundation Details |
| Dls | Stem Wall Foundation Details |
| Dic | Crawl Space Foundation Details |
| Dlb | Basement Foundation Details |
| DIf | Framing Details |

DR HORTON PROJECT SIGN-OFF:

| Manager | Signature |
|--------------------------------|-----------|
| Operations | |
| Operations System | |
| Operations Product Development | |

REVISION LIST:

| Revision No. | Date | Project No. | Description |
|-----------------|----------|----------------|---|
| 1 | 5.11.17 | | Added box bay detail (2/D2f). Added deck options with basement. Revised deck options with stem wall and crawl space foundations |
| 2 | T.12.1T | | Revised stem wall insulation note. |
| 3 | 2.15.18 | | Revised garage door detail, NC only |
| 4 | 2.28.18 | | Added high-wind foundation details |
| 5 | 12.19.18 | | Revised per 2018 NCRC |
| 6 | 2.19.19 | | Revised per Mecklenburg County Comments |
| ٦ | 3.1.19 | | Revised stem wall deck attachment and roof sheathing on wall sections. |
| 8 | 3.6.19 | | Corrected dimensions at perimeter footings |
| 9 | 3.2.20 | | Added tall turndown detail |
| 10 | 3.18.20 | | Added balloon framing detail |
| 11 | 10.20.20 | | Added alternate two-pour detail for slab and added note for crawl girder above grade |
| 12 | 3.1.21 | | Added OX-15 Standard Details |
| 13 | 5.18.21 | | Updated OX-15 Standard Details |
| 14 | Ø2.14.23 | | Added 4/D2m - Tall Slab Detail w/ Siding |
| | | | |
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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 elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT
- shall be considered the same entity. 2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur
- 4. 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 SUMMIT 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 SUMMIT.
- 5. 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 SUMMIT before construction begins.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- 7. This structure and all construction shall conform to all applicable sections of the international residential code. 8. This structure and all construction shall conform to all
- applicable sections of local building codes. 9. All structural assemblies are to meet or exceed to requirements of the current local building code.

FOUNDATIONS:

The structural engineer has not performed a subsurface investigation. Verification of this 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.

- 2. The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
- 3. Any fill shall be placed under the direction or recommendation of a licensed professional engineer. 4. The resulting soil shall be compacted to a minimum of 95%
- maximum dry density. 5. 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.
- 6. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

- STRUCTURAL STEEL: Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- Structural steel shall receive one coat of shop applied rust-inhibitive paint.
- 3. All steel shall have a minimum yield stress (F_{ij}) of 36 ksi unless otherwise noted.
- 4. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D.I. Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above standards.

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- 2. 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".
- 3. 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 target values as follows: 3.1. Footings: 5%

3.2.Exterior Slabs: 5%

4. No admixtures shall be added to any structural concrete without written permission of the SER.

- 5. Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction".
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported
- conditions not in accordance with the above assumptions. 7. Control or saw cut joints 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.
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished

supported during the concrete pour.

9. Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint. 10. 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

CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- 2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- 3. Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard) 4. Fibermesh shall comply with ASTM CIII6, any local building code requirements, and shall meet or exceed the current industry
- 5. Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- 6. 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" 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 with a class B tension splice. 8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.

- 9. 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
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.
- WOOD FRAMING: 1. Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Spruce-Yellow-Pine (SYP) #2.
- 2. LVL or PSL engineered wood shall have the following minimum design values:
 - 2.1. E = 1,9*00,000* psi $2.2.\,F_{\rm b} = 2600\,$ psi $2.3.F_{V} = 285 \text{ psi}$
- 2.4.Fc = 700 psi 3. Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- 4. Nails shall be common wire nails unless otherwise noted. 5. Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS
- specifications. 6. All beams shall have full bearing on supporting framing members
- 7. Exterior and load bearing stud walls are to be 2x4 SYP #2 @ 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall be continuous.
- 8. Individual studs forming a column shall be attached with one 10d nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer.

9. Multi-ply beams shall have each ply attached with (3) 10d nails a

10. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered @ 16" O.C. unless noted otherwise. Min. edge distance shall be 2" and (2) bolts shall be located a min. 6" from each end of the beam.

WOOD TRUSSES:

- l. 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 five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
- 2. The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-05), 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
- 3. The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
- 4. The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.
- 5. 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.

EXTERIOR WOOD FRAMED DECKS:

 Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

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
- 2. All structurally required wood sheathing shall bear the mark of the APA.

- 3. Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
- Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank 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. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- 6. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

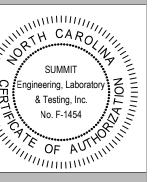
STRUCTURAL FIBERBOARD PANELS:

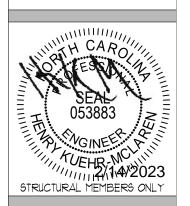
Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards. 2. All structurally required fiberboard sheathing shall bear the

- mark of the AFA. 3. 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
- 4. Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

SUMMIT RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993

120 PENMARC DR., SUITE 108 WWW.SUMMIT-COMPANIES.COM





DATE: 02/14/2023 SCALE: 22x34 |/4"=1'-0" ||x|T |/8"=1'-0" PROJECT *: 528-06R DRAWN BY: JCEF CHECKED BY: BCP

PRIGINAL INFORMATION PROJECT *

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



UNDISTURBED SOIL

6A COVERED PATIO DETAIL

STANDARD - BRICK

CHARTS

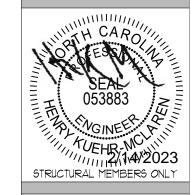
STANDARD - SIDING

6 PATIO SLAB DETAIL

SUMMIT 120 PENMARC DR., SUITE 108 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM

& Testing, Inc.

CLIENT: DR Horton Carolina Divis 8001 Arrowridge Blvd. Charlotte, NC 28273



DRAWING DATE: Ø2/14/2Ø23 PROJECT *: 528-06R DRAWN BY: JCEF CHECKED BY: BCP

ORIGINAL INFORMATION

4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR

5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL

AMENDMENTS AND REQUIREMENTS NOT SHOWN

CONNECTIONS

BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND

6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE

ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

Dm

PER PLAN CONTINUOUS

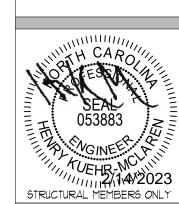
4 TALL SLAB DETAIL W/ SIDING

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET

- FOR ADDITIONAL INFORMATION. 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN
- 6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC

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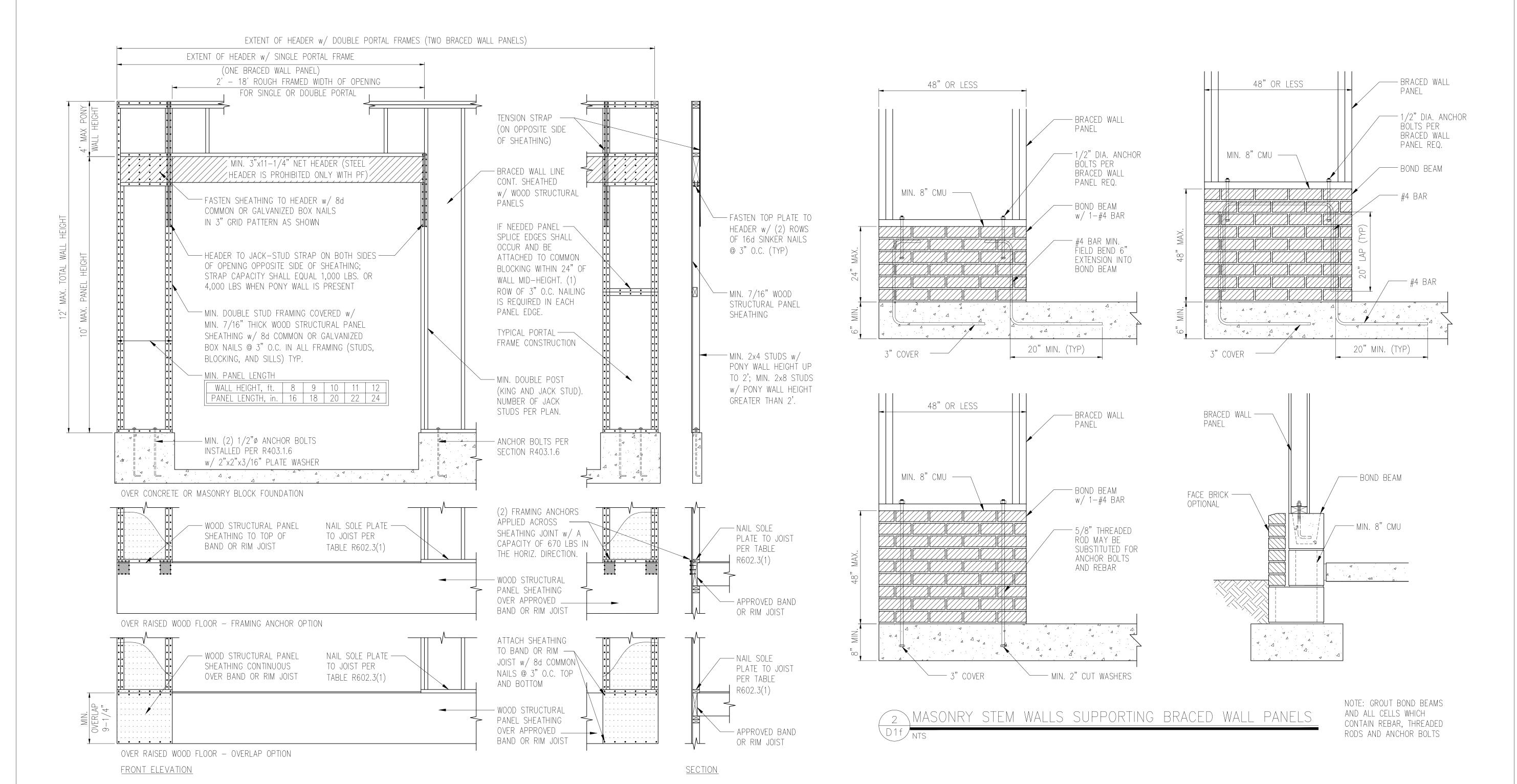


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> ORIGINAL INFORMATION PROJECT • DATE 1/31/2017

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2m







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& Testing, Inc. No. F-1454

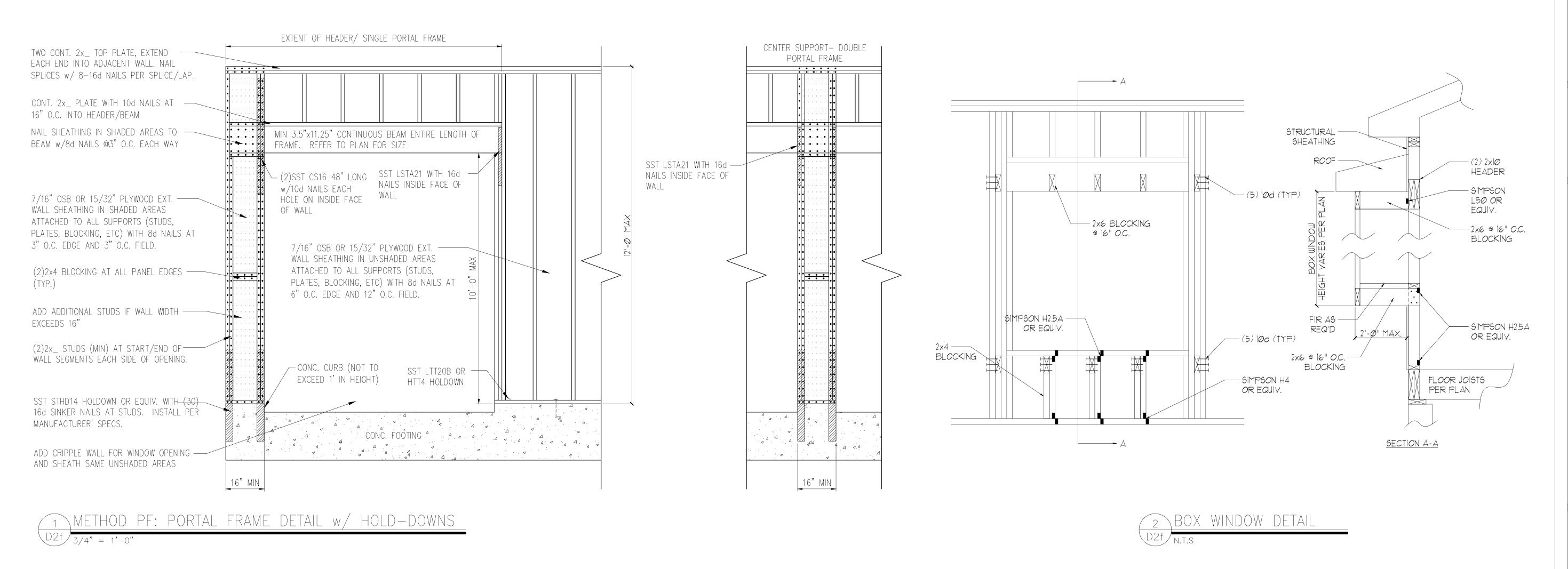


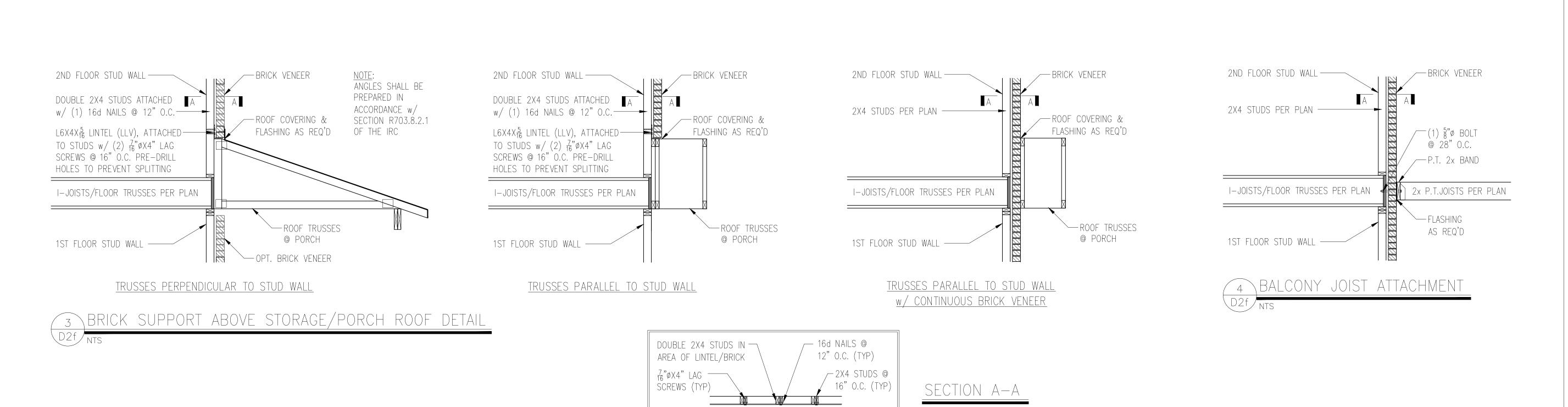
DRAWING DATE: Ø2/14/2Ø23 SCALE: 22x34 1/4"=1'-0" ||x|7 ||/8"=1'-0" PROJECT *: 528-06R DRAWN BY: JCEF CHECKED BY: BCP

ORIGINAL INFORMATION

PROJECT • DATE 1/31/2017

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

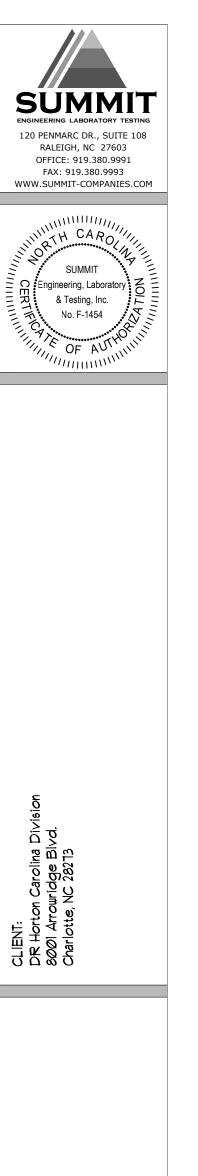




 $L6X4X_{\overline{16}}^{5}$ LINTEL (LLV), ATTACHED

_ TO STUDS w/ (2) $\frac{7}{16}$ "øx4" LAG SCREWS @ 16" O.C. PRE-DRILL

HOLES TO PREVENT SPLITTING



ille (0x-15) □@ţâ||5

 \bigcirc

STRUCTURAL MEMBERS ONLY

9CALE: 22x34 |/4"=1'-@" ||x|1 |/6"=1'-@" |PROJECT *: 528-06R

PROJECT • DATE 1/31/2017

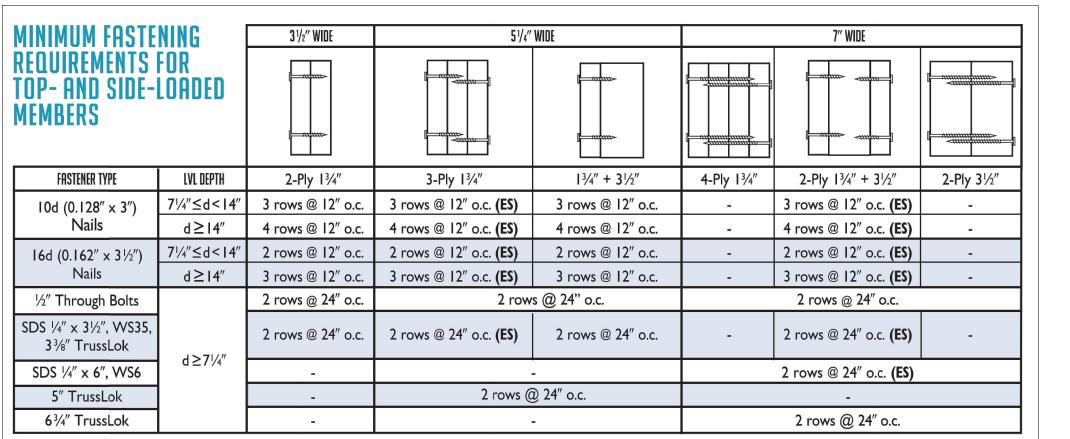
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

DRAWING

DATE: Ø2/14/2Ø23

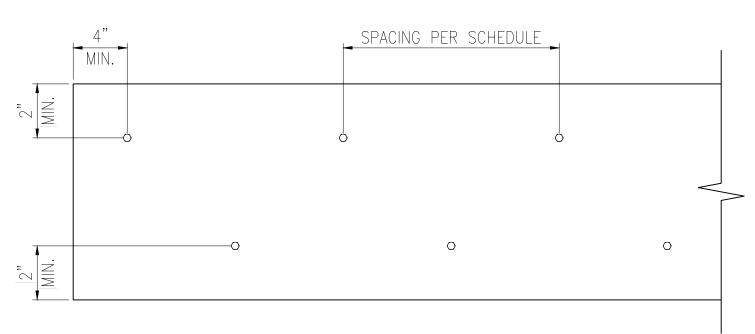
DRAWN BY: JCEF
CHECKED BY: BCP

ORIGINAL INFORMATION



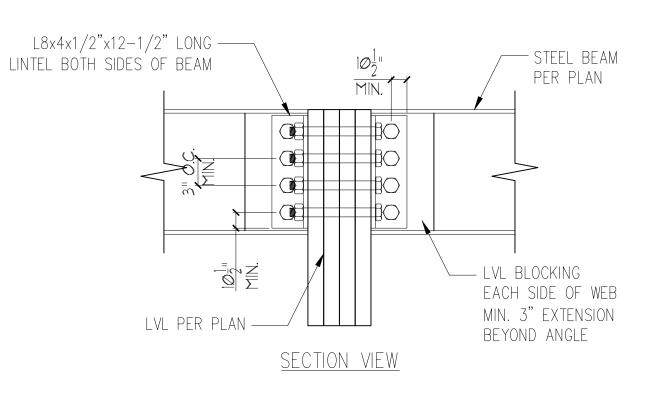
NOTES:

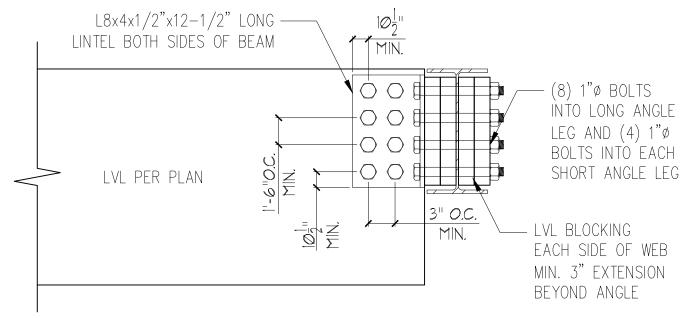
- I.All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.
- 2. Minimum fastening requirements for depths less than $7\frac{1}{4}$ " require special consideration. Please contact your technical representative.
- 3. Three general rules for staggering or offsetting for a certain fastener schedule:
- (1) if staggering or offsetting is not referenced, then none is required;(2) if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener
- clearances above; and
 (3) if "ES" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).



ELEVATION VIEW

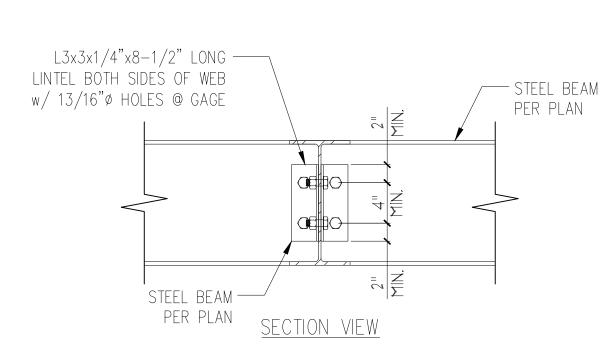
MULTI-PLY BEAM CONNECTION DETAIL

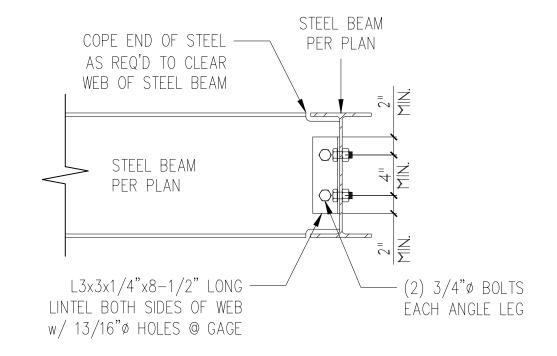




ELEVATION VIEW

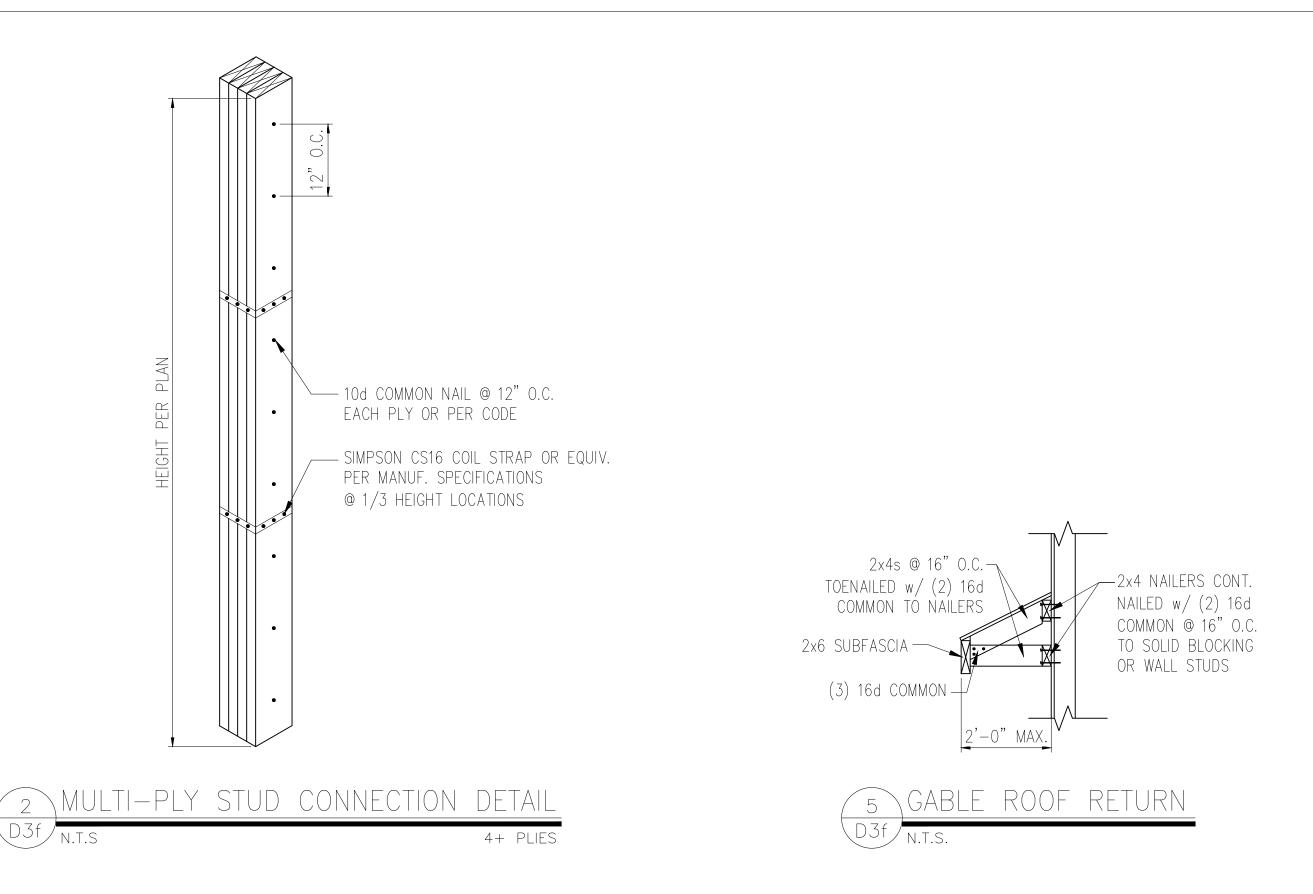


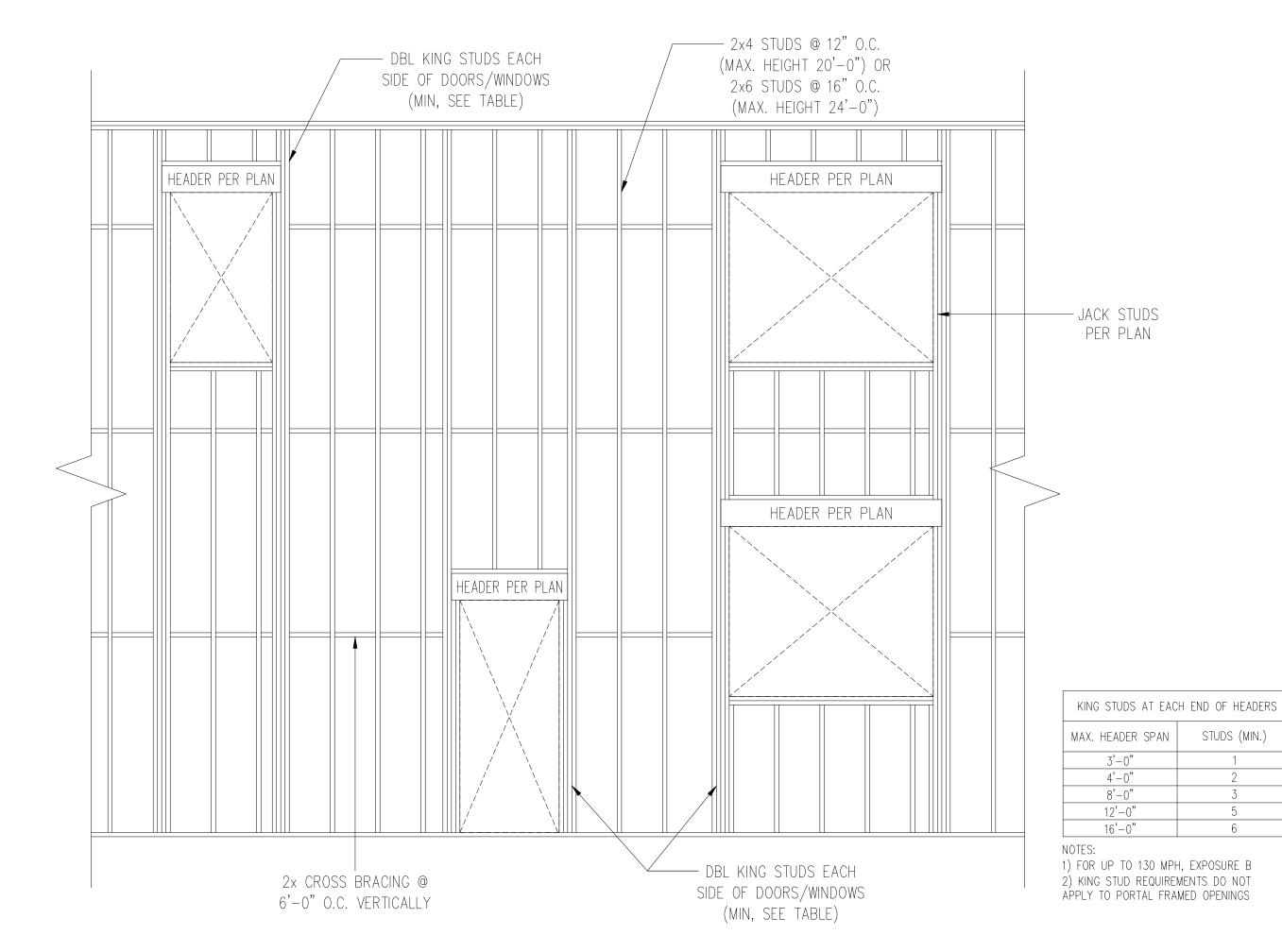




ELEVATION VIEW







6 TYP. BALLOON FRAMING DETAIL

D3f N.T.S





CLIENI:
DR Horton Carolina Divisior
8001 Arrowridge Blvd.
Charlotte, NC 28213



DRAWING

DATE: 02/14/2023

9CALE: 22x34 |/4"=|'-0"
||x|T |/8"=|'-0"

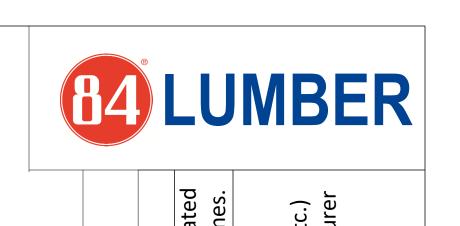
PROJECT • 528-06R

DRAWN BY: JCEF

CHECKED BY: BCP

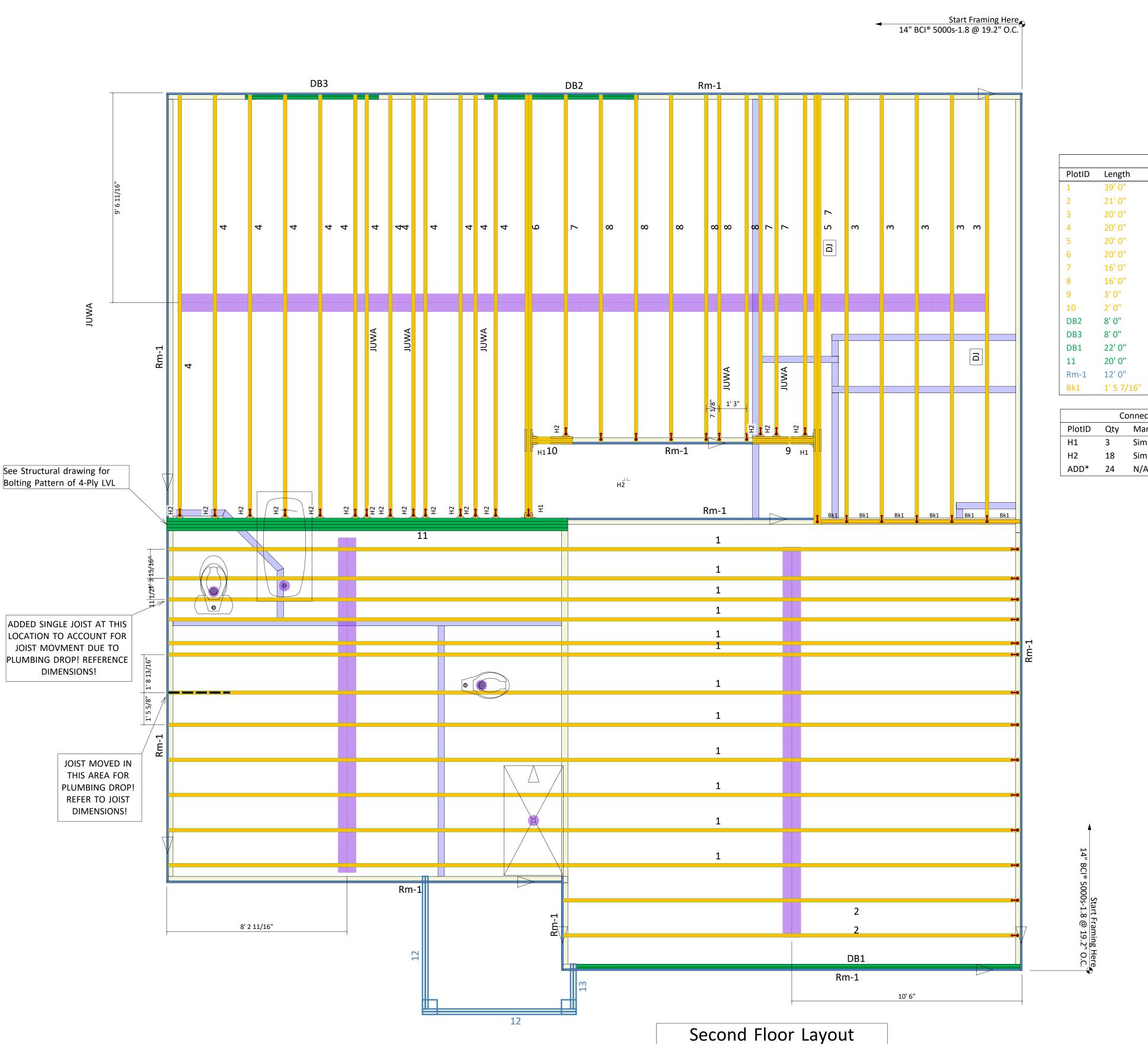
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3f



Members!! ***
nated veneer lumber, g

Carried



(DN01) **DO NOT** cut, notch or drill flanges

Nail with 8d nails into each flange.

BCI[®]Joist Blocking –

See Boise literature for vertical load capacity. ∕−BCl[®] joist blocking required for cantilever

Load bearing wall above

See Boise literature for vertical load capacity.

Nail Boise Rimboard to BCI® joist with 8d

nail into each flange.

Solid block all posts from

above to bearing below.

Stiffeners are required on both sides

of the web when:

of the joist. - Web stiffener nailed

5 - 3" (10d) nails

Web-Filler

Nailing 12" OC

for 14" & 16" joists.

with 3 - 3" (10d)

nails for 9 1/2" and

11 7/8" joists, and

Double BCI®Joist Connection

Connection valid for all applications.

Contact Boise EWP Engineering for specific conditions.

- Hangers with side nailing. - Any hanger with sides not

containing the top flange

Load bearing wall above

(stacked over wall below)

|(DN04) DO NOT cut holes near bearing support

Minimum distance per

Web stiffeners are not required when top flange is laterally supported by joist hanger

not span greater than rating

Solid block all posts from

above to bearing below.

Backer block required where top mount hanger load exceeds 250 lbs.

Backer and Filler Block Dimensions
BCI®Joist Backer Block Filler Block Th

1-1/8" or two 1/2"

1-1/8" or two 1/2" wood panels

Point Load from above > 1500 lbs. (Factored)

Install web stiffeners tight

against top flange with 1/8"

gap between bottom flange

Filler Block Thickness

Two 3/4" wood panels or 2 x ___

2 x __ + 5/8" or 3/4" wood panel

2 x ___ + 5/8" or 3/4" wood panel

Double 2 x __ lumber

Install tight to top flange.

Web Stiffener

Series Thickness 5000s 1.8 3/4" or 7/8" wood panels
6000s 1.8 1-1/8" or two 1/2" wood panels

6500s 1.8 wood panels

90 2.0 2 x __ lumber

60 2.0

Boise Rim Board

Backer block (12" wide min.)

Nail with 10- 10d nails. Install tight to top flange.

Filler block. Nail with

10-10d nails.

Boise I-Joist can be offset up to 3" to avoid vertical plumbing.

(F08-A)

_0.6 X Joist depth

Boise joist hole chart.

Products Plies Net Qty Product 14" BCI® 5000s-1.8 14" BCI® 5000s-1.8 14" BCI® 5000s-1.8 14" BCI® 5000s-1.8 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP Bk1 1' 5 7/16" 14" BCI® 5000s-1.8

Connector Summary PlotID Qty Manuf Product Simpson IUS2.06/14 1/2"x8" Bolt Sets* be Installed PRIOR 1
 cuts, notches and h
 specifically considered in th Builder or framer should revi material placement layout p beginning construction of system. This layout DOES supercede the plan se *** ANY Concealed Flange Hangers Residential Code - R502.8.2 Engineered Wood I International Finembers or I

Dimensions to any obstructions are approximate and should be field verified. Any discrepancies will be reported prior to floor installation.

Plan Information

NO N

Lot Number: 87 Woodgrove Model: Hayden B

Builder: Builder Name Boise BC FRAMER II / SAPPHIRE Structure

Plan Date: 02/12/2021

Structural Date: 02/12/2021

Not To Scale

Current Date: Enter Current Date

By: JH

