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 ΙK 0 QUICK VIEW I.I K ROOF PLAN 'K' 0.2 QUICK VIEW 2K SIDE AND REAR ELEVATIONS 'K' MECELLANGUS NORTH NT.5. NOT TO SCALE NOT TO SCALE OF THE NOT BLOCK (CMUs) BLING BLK BLOCK (CMUs) BLM BELOW BM BEAM BP BI-PASS (DOOR) FRONT FLEVATION 'A' SIDE AND REAR ELEVATIONS 'K'-ΙA 2.I K I.I A ROOF PLAN 'A' W CRANL SPACE DE BENNES (DOOR) BOT BOTTON BTINN BETNESN BETNESN BETNESN CAB CABNET CER GERANIC CL. CONTROL JOINT OR CONSTRUCTION JOINT CL. (LOSET OR CENTER LINE CL. CALLEAR CLEAR CLEAR COMCRETE MASONRY UNIT COMC COMPRETE CAC CORROSION RESISTANT CSHT CARROSION RESISTANT CSHT CARROSION (TIEL CLT. CERANIC TILE C.T. CERANIC TILE C.T. CERANIC 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 CS K CRAWL SPACE PLAN K 3 MS A MONOLITHIC SLAB PLAN 'A' BASEMENT PLAN 'K' STEM WALL PLAN 'A' 4 K IST FLOOR PLAN 'K' 3 SW A 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 REGURED SOUTH SOUTH SOUTH SERVICE SERVICE SERVICE SERVICE SUBJECT SUB BASEMENT PLAN 'A' 3 BS A 4 A IST FLOOR PLAN 'A' ΙP FRONT ELEVATION 'P' 2ND FLOOR PLAN 'A' 5 A 1.1 P ROOF PLAN 'P' SIDE AND REAR ELEVATIONS 'P' ΙB FRONT ELEVATION 'B' SIDE AND REAR ELEVATIONS 'P'-E AOJ EA EACH ELV ELVATION FALL FORCED AIR UNIT F.C. FLOOR CHAINE F.D. FLOOR CHAINE F.D. FLOOR CHAINE F.C. FINISH FLOOR LINE F.C. FRIED GLAGO ELVATION 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' UND. UNLESS NOTED OTHERWISH W/ BASEMENT CRAWL SPACE PLAN 'P' V.B. VAPOR BARRIER VERT VERTICAL V.T.R. VENT THRU ROOF 3 (SP 3 MS B MONOLITHIC SLAB PLAN '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 ΙR FRONT ELEVATION 'R' GL GLASS OR GLAZING OFF PD GYSPAN BOARD HB HOSE DIBB HD HEAD OR HARD HDR HEADER HCT HEADER HAVAC HEATING/VENTILATING/AIR COND. HBT INTERIOR 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' 2R 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' 3 MS R 2.2 F 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 MONOLITHIC SLAB PLAN 'F' BASEMENT PLAN 'R' 3 MS F 3 BS R CURRENTLY IN USE WITH THE LOCAL JURISDICTION. STEM WALL PLAN 'F' IST FLOOR PLAN 'R' 3 SW F 4 R 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' IAS 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. 5 F 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 GENERAL NOTES DESIGNER NORTH CAROLINA:

EXPRESS HOMES 40' SERIES MODEL 'HAYDEN' - RH

WOODGROVE LOT 195 RED CEDAR WAY PIN 0653-66-8654.000 FUQUAY VARINA, NC 27526 NO: DATE: REVISION: PROFESSIONAL SEAL:

PROJECT TITLE: PLAN CHANGES: 40' Series DESCRIPTION: 02.22.21 INITIAL PLAN RELEASE 03.10.21 CLIENT REVISIONS 04.14.21 CLIENT REVISIONS 04 15 21 CLIENT REVISIONS

Ist FLOOR

2nd FLOOR

GARAGE

TOTAL LIVING

OPT. BASEMENT

OPT. COVERED PORCH

CONSULTANTS:

FOR CONSTRUCTION

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

FIGURE SHILLER SHALL PROBLEM AND ALL PROPRIS RECYCLED FROM HE GEOTECHNICAL 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 BY ASSAMED TO BE A MINIMAN 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 CASE OF AN UPPER STORY WINDOW, (PER NORG SECTION R3)

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" OF CONSTRUCTION DOCUMENTS AND GENERAL NOTES HEREINAFTER REFERRED TO AS "PLANS" THIS SET OF PLANS IS SUFFICIENT TO OBTAIN A BUILDING PERMIT, 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 DELINEATE 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:

MODEL 'HAYDEN' SQUARE FOOTAGES

BASEMENT AREA IS TAKEN TO INSIDE OF CONCRETE WALL

Express

ELEV 'F', 'K

1066 SF

1445 SF

2511 SF

422 SF

109 SF

PROJECT NO: GMD17049

TITLE SHEET

January 22, 2021



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.)

ITE TEALER LOWIN JULIUM POJ, KALLS, FILESES, STEEPS .

MISLATION FER TABLE NIOZI.

ZETERIOR MALLS .

ELIB MINTAL CAPOEL .

ELIB MINTAL CAPOEL .

ELIB MINTAL CAPOEL .

ELIB MINTAL CAPOEL .

ELIB MINTAL MINTAL MERITY .

ELIB ATTS MINIMAM VERITY .

ELIB ATT

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 R405.2.8.3

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 CEPERI PAVY SUINDS PER DEVELOPER WI NA CORNER IRIN PER DÉVELOPER.

(AT SPECIFIED LOCATIONS,
FIBER CEPERI PARALE SIDINS WI NS BATTS AT 12° O.C. PER DÉVELOPER WI NA CORNER TRIM BOARD.)

(B) VINVL TRIM SIZE AS NOTED

(AT SPECIFIC LOCATIONS,
IX FIBER CEPERIT 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 FYPON: 5H3POI2X505, FASCIA MDW HD 17 FYPO 5H3POI8X62 FYPON: 17 SH3POI8X625, 17 OR OTHER -13 4:12 PITCH , WDW HD STONE HEADER COLUMN DETAIL Front Elevation 'K'

NO: DATE: REVISION: 04.15.21 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION



PROJECT NO: 6MD17049

SHEET TITLE: 'HAYDEN' **EXTERIOR**

ELEVATIONS '4EPF-K'

PRINT DATE: January 22, 2021

1K

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

THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN I/I50 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 FAVE 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
1.5Q 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 VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIOWN CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SICH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE BILLING OFFICIAL. BY THE BUILDING OFFICIAL.

BY THE BUILDING OFFICIAL.

ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING KAS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEPENDENTLY TO CAS CREQUIREMENTS.

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

(PER SECTION R806.2)

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

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

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

ROOF AREA I:= 1488 5F 1488 50, FT. X 144 = 214272 50, IN. 214272 50, IN. / 150 = 1428.48 50, IN. OF VENT REQID

ROOF AREA 2:= 34 SF 34 SQ, FT, X I44 = 56I6 SQ, IN, 56I6 SQ, IN, / I50 = 31.44 SQ, IN, *O*F VENT REQ'D

ROOF AREA 3:= 180 SF 180 SQ, FT. X 144 = 25420 SQ, IN. 25420 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 PLUMBING VENTS SHALL BE COMBINED INTO A MINIMUM AMOUNT OF ROOF PENETRATIONS, ALL ROOF PENETRATIONS SHALL OCCUR TO THE REAR OF THE MAIN RIDGE.

ATTIC VENT CALCULATION FOR PLAN 'HAYDEN': 1:300 RATIO.

AS AN ALTERNATE TO THE 1/150 RATIO LISTED ABOVE, 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 VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMM ACLULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION 5TOP 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 CANTILLEYEREU AKCHITECTURAL POP-COUTS, AND ANT USE 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.

*144 904, IN. = 1 904, F1.

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

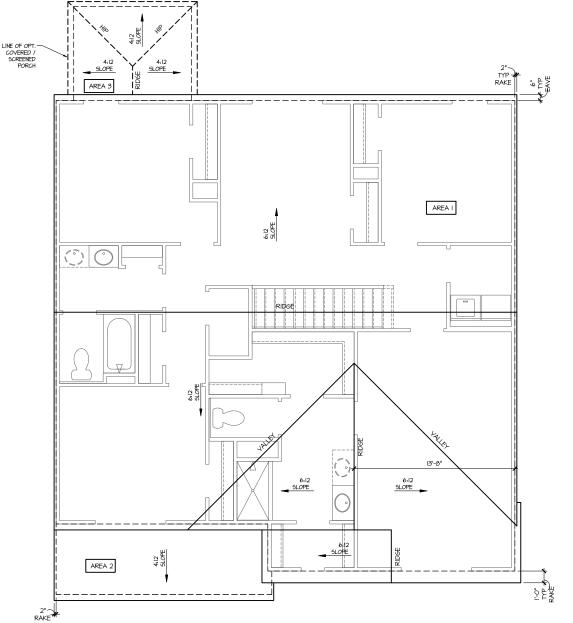
BLDG, (SQ, IN.) / 300 = SQ, IN. OF VENT REQUIRED

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

A 1: ### A 1: ### A 200 / A 1: ### A 200 / ROOF AREA I: =

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: 04.15.21 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

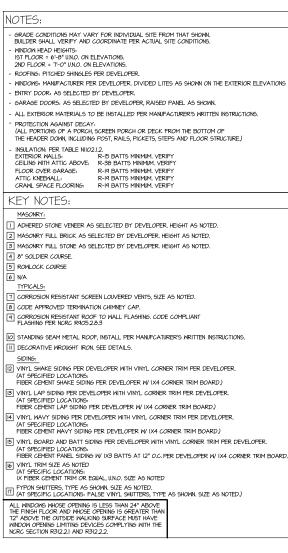


PROJECT NO: GMD17049

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

January 22, 2021

1.1 K



Right Elevation 'K'

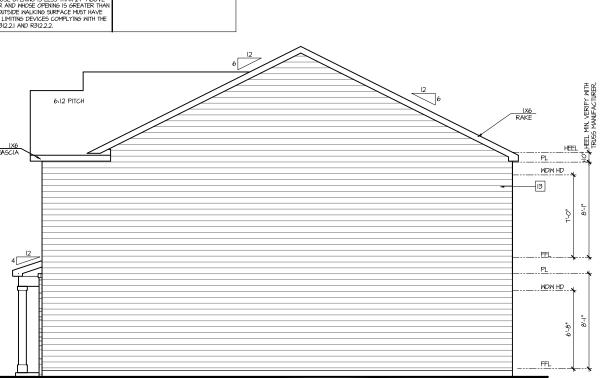
SCALE: 174"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT

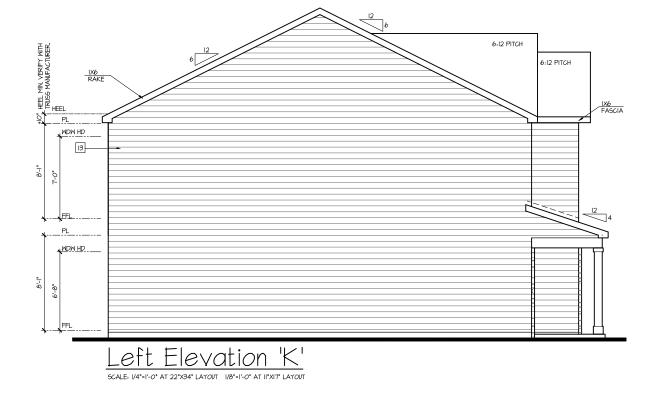
AVAILABLE WITH OPTIONAL 9'-I" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:

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









Rear Elevation 'K SCALE: I/4"=I'-0" AT 22"X34" LAYOUT I/8"=I'-0" AT II"XIT" LAYOUT

NO: DATE: REVISION: 04.15.21 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION



PROJECT NO: GMD17049

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

PRINT DATE:

January 22, 2021

2 K



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.

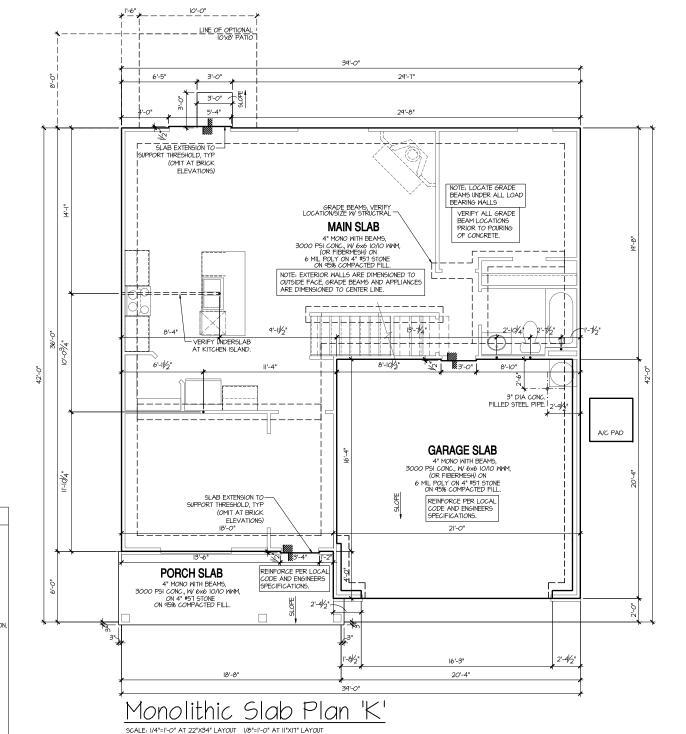
S DIA CONCRETE FILLED STEEL FIFE EMBEDDED INTO CONCRETE FOOTING.

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: 04.15.21 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION



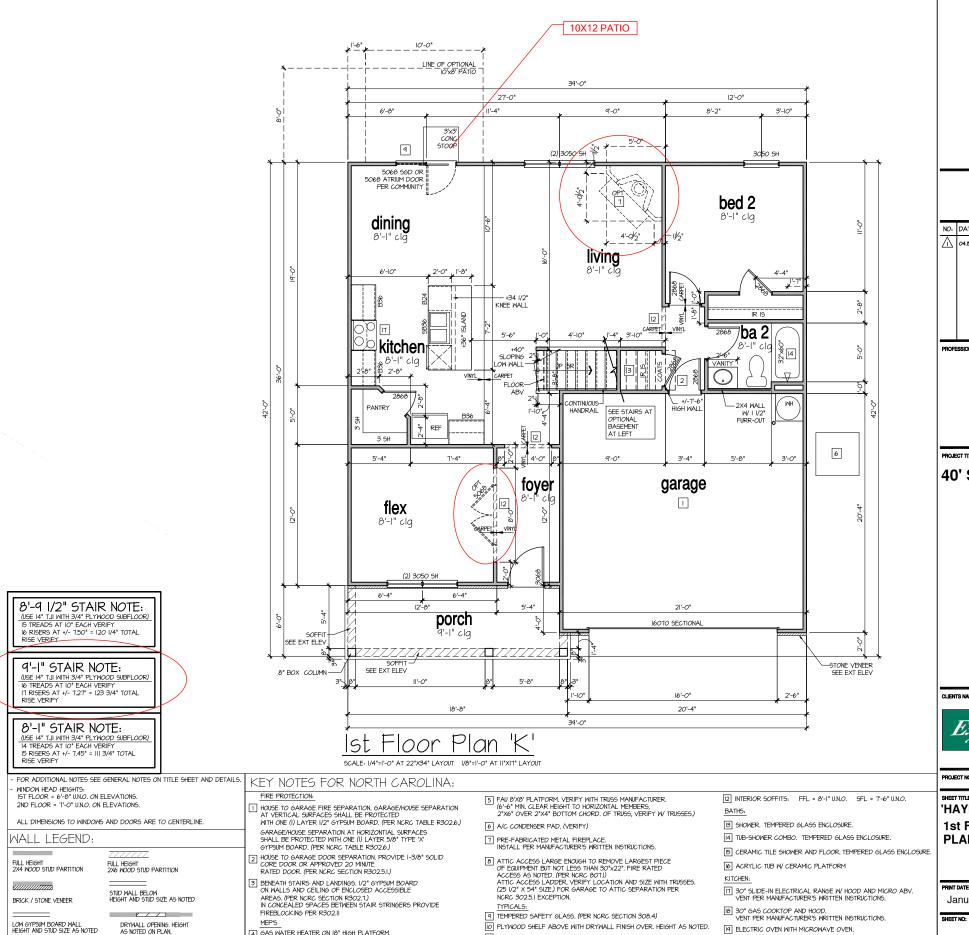
PROJECT NO: GMD17049

'HAYDEN'

MONOLITHIC SLAB PLAN '4EPF-K'

January 22, 2021

3 MS K



II HALF WALL, HEIGHT AS NOTED.

NO: DATE: REVISION: 04.15.21 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION



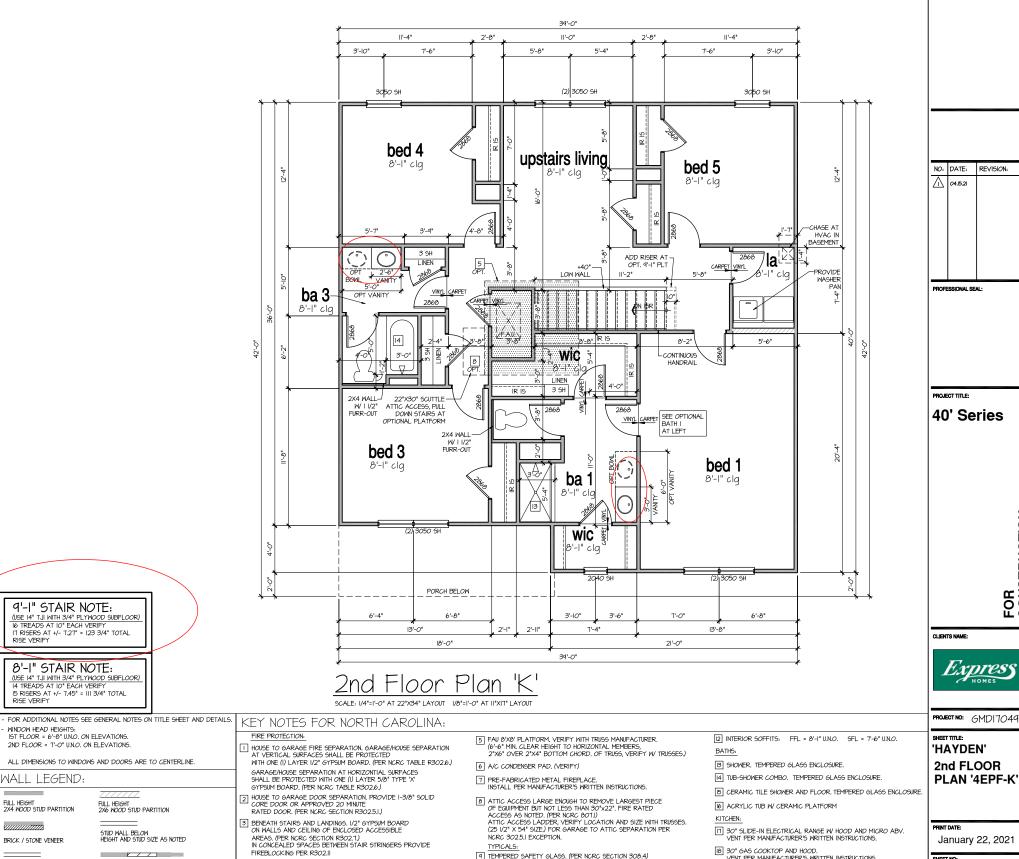
PROJECT NO: GMD17049

'HAYDEN'

1st FLOOR PLAN '4EPF-K'

January 22, 2021

4 K



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

II HALF WALL, HEIGHT AS NOTED.

MEP'S

DRYWALL OPENING. HEIGHT AS NOTED ON PLAN.

LOW GYPSUM BOARD WALL HEIGHT AND STUD SIZE AS NOTED

NO: DATE: REVISION: 04.15.21 PROFESSIONAL SEAL:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



PROJECT NO: GMD17049

'HAYDEN' 2nd FLOOR

PLAN '4EPF-K'

B 30" GAS COOKTOP AND HOOD.

VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

19 ELECTRIC OVEN WITH MICROWAVE OVEN.

5 K

9'-1" STAIR NOTE:

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

8'-I" STAIR NOTE:

(USE 14" T.JI WITH 3/4" PLYWOOD SUBFLOOR)
14 TREADS AT 10" EACH VERIFY
15 RISERS AT +/- 7.45" = III 3/4" TOTAL
RISE VERIFY

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

 THESE BUILDING SECTIONS MAY VARY AT ALTERNATE ELEVATION STYLES AND AT "PLAN OPTION" CONDITIONS, REFER TO MAIN FLOOR PLAN AND ALTERNATE FLOOR PLANS FOR INFORMATION NOT SHOWN HERE.
- BUILDING SECTIONS SHOWN HERE DEPICT VOLUMN SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS, TRUSS DRAWINGS, STRUCTURAL DETAILS AND CALCULATIONS BY OTHER FOR ALL STRUCTURAL INFO.

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

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 WITH LOCAL CODES,

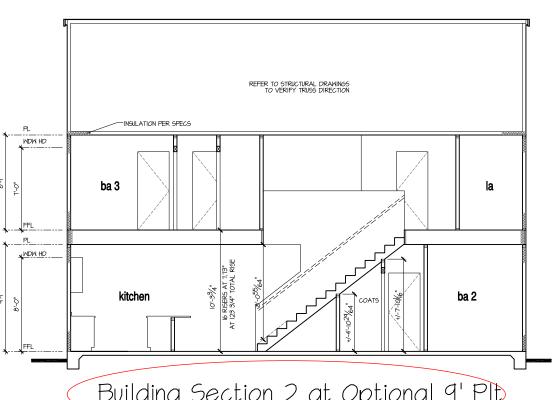
INSULATION:

- INSULATION:
EXTERIOR MALLS ZONE 3: R-13 BATTS MINIMM. VERIFY
EXTERIOR WALLS ZONE 4: R-15 BATTS MINIMM. VERIFY
CEILING WITH ATTIC ABOVE COMPRESSED INSULATION.
R-30 BATTS MINIMM. VERIFY
CEILING WITH ATTIC ABOVE UNCOMPRESSED INSULATION (HEELS IN TRUSSES):
R-30 BATTS MINIMM. VERIFY
R-30 BATTS MINIMM. VERIFY

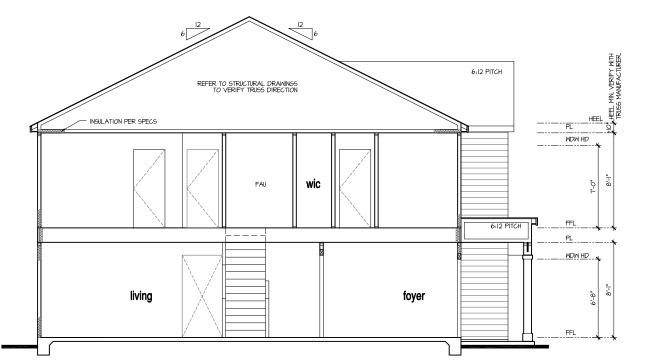
R-19 BATTS MINIMUM, VERIFY

FLOOR OVER GARAGE: ATTIC KNEEWALL: CRAWL SPACE FLOORING:

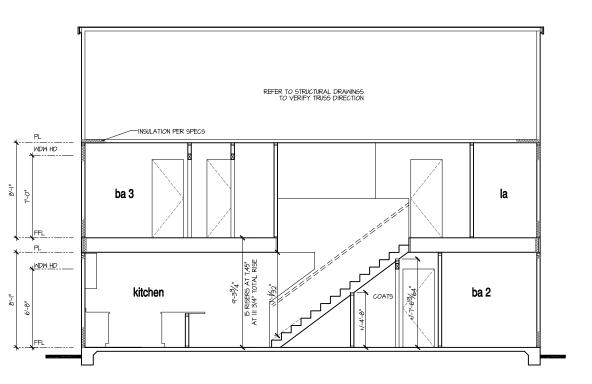
WINDOW GLAZING "U" FACTOR: 0.35



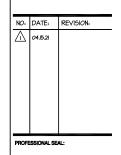
Building Section 2 at Optional 9' PID



Building Section Lat Monolithic Slab



Building Section 2 at Monolithic Slab



PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



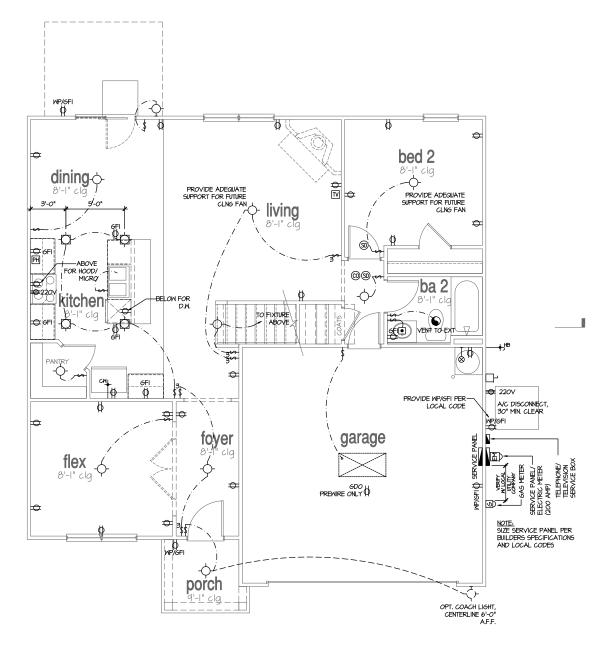
PROJECT NO: GMD17049

'HAYDEN' **BUILDING SECTIONS**

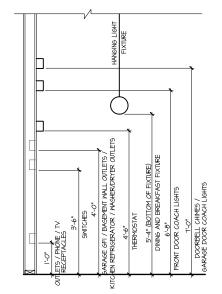
January 22, 2021

1AS

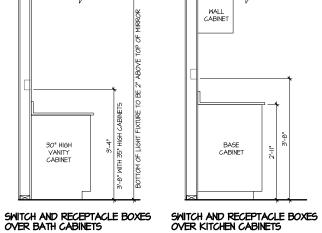


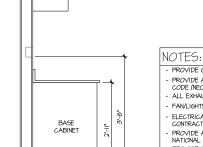






STANDARD ELECTRICAL BOX HEIGHTS





- ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOUSE-UP-S/CUTOPES.

- ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY : DRAIN TILE SUMP, AND MATTER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.

- PROVIDE PORER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURES WRITTEN INSTRUCTIONS.



NOTES:	LEGEND:			
- PROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES.				
 PROVIDE AND INSTALL ARC FAULT CIRCUIT-INTERRUPTERS (AFCI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES. 	DUPLEX OUTLET		CH CHIMES	
- ALL EXHAUST FANG SHALL HAVE BACKDRAFT DAMPERS.	ØWP/GFI WEATHERPROOF GFI DUPLEX OUTLET		Ризнвиттом змітсн	^ ^
FANLIGHTS IN WET/DAMP LOCATIONS SHALL BE LABLED "SUITABLE FOR WET OR DAMP LOCATIONS."	Ø GFI GROUND-FAULT CIRCUIT-INTERRUPTER	FLUSH-MOUNT LED CEILING FIXTURE	(S) IIOV SMOKE DETECTOR	CEILING FAN (PROVIDE ADEQUATE SUPPORT)
 ELECTRICAL SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT. 	H OI DUPLEX OUTLET	FLUSH-MOUNT LED CEILING FIXTURE (PROVIDE CEILING FAN SUPPORT)	W BATTERY BACKUP	(I ROVIDE ADEQUATE SUITORI)
- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY	HALF-SWITCHED DUPLEX OUTLET	A	⊚ CO2 DETECTOR	
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.	220V 220 VOLT OUTLET	- Q 2-LIGHT VANITY FIXTURE	(T) THERMOSTAT	
PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.	REINFORCED JUNCTION BOX	- 3 3-LIGHT VANITY FIXTURE	PH TELEPHONE	+D HOSE BIBB
ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.	A	-(4) 4-LIGHT VANITY FIXTURE	TW TELEVISION	
- HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.	\$ WALL SWITCH	Ψ 12000 10000		
 ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS. 	\$ 3 THREE-WAY SWITCH	- WALL MOUNT FIXTURE	ELECTRIC METER	
- PROVIDE POWER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S	\$4 FOUR-WAY SWITCH	2 FAMILIES EN A SUS TO SUSSIDION		- WALL SCONCE
WRITTEN INSTRUCTIONS.	1	EXHAUST FAN (VENT TO EXTERIOR)	DISCONNECT SWITCH	71

NO: DATE: REVISION: 04.15.21 PROFESSIONAL SEAL:

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40' Series

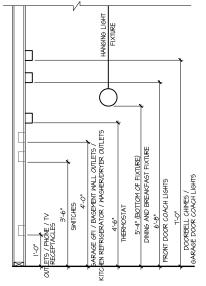
FOR CONSTRUCTION



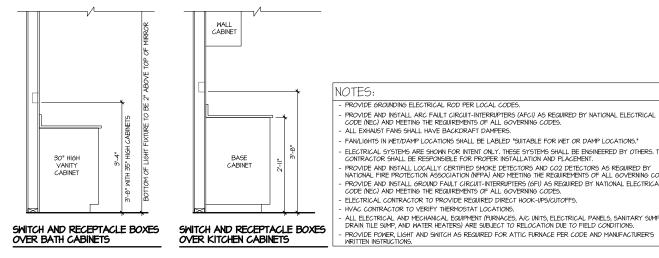
PROJECT NO: GMD17049

'HAYDEN' 1st FLOOR **UTILITY PLAN**

January 22, 2021



STANDARD ELECTRICAL BOX HEIGHTS



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" clq (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,

upstairs living

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

bed 4

LEGEND:						
	φ-	FLUSH-MOUNT LED CEILING FIXTURE	CH	CHIMES		
ØWP/GFI WEATHERPROOF GFI DUPLEX	OUTLET	HANGING FIXTURE	모	PUSHBUTTON SWITCH		
GFI GROUND-FAULT CIRCUIT-INTE	RRUPTER	FLUSH-MOUNT LED CEILING FIXTURE (PROVIDE CEILING FAN SUPPORT)	99	IIOV SMOKE DETECTOR W BATTERY BACKUP		CEILING FAN (PROVIDE ADEQUATE SUPPORT)
HALF-SWITCHED DUPLEX OUT	LET .		- 60	CO2 DETECTOR		
220V 220 VOLT OUTLET	- 4	2-LIGHT VANITY FIXTURE	1	THERMOSTAT	—⊗	GAS SUPPLY WITH VALVE
REINFORGED JUNCTION BOX	-\$	3-LIGHT VANITY FIXTURE	PH	TELEPHONE	— ∤ HB	HOSE BIBB
\$ WALL SWITCH		4-LIGHT VANITY FIXTURE	TV	TELEVISION		
\$ 3 THREE-WAY SWITCH	4	WALL MOUNT FIXTURE		ELECTRIC METER	TCM	I/4" WATER STUB OUT
ta EOR MAY CHITCH				ELECTRIC PANEL	. К Г	WALL SCONCE
4	Phyligh Neatherproof of Duplex	DIPLEX CUILET DIPLEX CUILET PHYSICAL MEATHERPROOF GFI DUPLEX CUILET GROUND-FAULT CIRCUIT-INTERRUPTER DIPLEX CUILET PARTICLES DUPLEX CUILET P	DIPLEX OUTLET THOUGHT WEATHERPROOF GFI DUPLEX OUTLET GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET HALF-SWITCHED DUPLEX OUTLET 2-LIGHT VANITY FIXTURE PLUSH-MOUNT LED CELLING FIXTURE (PROVIDE CELLING FAN SUPPORT) 2-LIGHT VANITY FIXTURE 3-LIGHT VANITY FIXTURE 4-LIGHT VANITY FIXTURE THESE-WAY SWITCH WALL MOUNT FIXTURE WALL MOUNT FIXTURE	DIPLEX CUITET THORSE WITHER COMPANITY CIRCUIT-INTERRUPTER DUPLEX OUTLET DIPLEM CONTROL CIRCUIT-INTERRUPTER DUPLEX OUTLET DIPLEM CONTROL CIRCUIT-INTERRUPTER DUPLEX OUTLET DIPLEM CONTROL CELLING FAX SUPPORT) DIPLEM CONTROL CIRCUIT STATURE DIPLEM CONTROL CIRCUIT	DIPLEX CUILET DIPLEX	DIPLEX CUITET T DIPLEX CHINES PUSHBUTTON SWITCH S IDV SMOKE DETECTOR W BATTERY BACKUP W BATTERY BACKUP W CAZ DETECTOR THERMOSTAT CONTROL CHINES FAILURE THERMOSTAT CHINES ALIGHT VANITY FIXTURE THELPHONE THELPHONE HB TELEPHONE THELPHONE THELPH

NO: DATE: REVISION: 04.15.21 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION



PROJECT NO: GMD17049

'HAYDEN'

2nd FLOOR **UTILITY PLAN**

January 22, 2021

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

• A9CE 7-10: Minimum Design Loads for Buildings and Other Structures

Design Loads:		
1. Roof	Live Loads	
LL.	Conventional 2x	20 PSF
12.	Truss	20 PSF
	12.1. Attic Truss	60 PSF
2. Roof	Dead Loads	
2.1.	Conventional 2x	10 PSF
2.2.	Trues	20 PSF
3. S now		IS PSF
21	Importance Esster	100

 Importance Fact
 Floor Live Loads 4.1. Typ. Dwelling 4.2. Sleeping Areas 4.3. Decks 40 PSF 4.4. Passenger Garage
5. Floor Dead Loads
5.1. Conventional 2x 5/0 PSF

52. I-Joist 15 PSF 62. Importance Factor. 63. Wind Base Shear

632.Vy =

631 Vx =

	component and cladding (in For)				
MEAN ROOF HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'	
ZONE I	16.7,-18.0	17.6,-18.9	18.3,-19.7	18.8,-202	
ZONE 2	16.7,-21Ø	l7.€,-22.l	18.3,-22.9	18.8,-23.6	
ZONE 3	16.7,-21 <i>®</i>	IT. 6 ,-22.I	18.3,-22.9	18.8,-23.6	
ZONE 4	182,-19.0	19.2,-20.0	19.9,-20.8	20.4,-21.3	
ZONE 5	18.2,-24.0	192,-252	19.9,-26.2	20.4,-26.9	

DEISMI	5	
8.1.	Site Class	D
8.2.	Design Category	С
8.3.	Importance Factor	10
8.4.	Seismic Use Group	1
8.5.	Spectral Response Acceleration	
	85.1. Sms = '%a	

8.52.5ml = %g 8.6. Seismic Base Shea

862.Vg =
862.Vg =
8.1. Basic Structural System (check one)
Spearing Wall
Building 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 ____

9. Assumed Soil Bearing Capacity ______ Wind ⊠



HAYDEN

OWNER:

PROJECT ADDRESS:

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

DESIGNER: GMD Design Group 102 Fountain Brook Circle Suite C Cary, NC 27511

These drawings are to be coordinated with the architectural mechanical blumbing Interes crailings are to be coordinated with reference true, mechanical, plumbin 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	5C	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SFF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	96 T	SIMPSON STRONG-TIE
EE	EACH END	5YP	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 4 Testing, P.C. (SUMMIT) prior to the linitial 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 SUMMIT immediately.

SHEET LIST:

REVISION LIST:

Date

4.19.21

Revision

No.

Project No.

TOIT

Sheet No.	Description		
CSI	Cover Sheet, Specifications, Revisions		
SI.Øm	Monolithic Slab Foundation		
51.Øs	Stem Wall Foundation		
91.Øc	Crawl Space Foundation		
SI.Øb	Basement Foundation		
52.Ø	Basement Framing Plan		
53.Ø	First Floor Framing Plan		
94.Ø	Second Floor Framing Plan		
95.Ø	Roof Framing Plan		
56.Ø	Basement Bracing Plan		
\$1.Ø	First Floor Bracing Plan		
58.Ø	Second Floor Bracing Plan		

Description

lpdated elevation names

Added Stem Wall, Crawlapace, and Basemer

Foundations

DR HORTON PROJECT SIGN-OFF:

Manager	Signature
Operations	
Operations System	
Operations Product Development	





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 4 Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same attitute.
- 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.
- to stabilize the structure.

 The SER is not responsible for construction sequences, method or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's fallure 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 tuly 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, the state he reconstibilities of the SEPS or SUMMIT.
- is not the responsibility of the SER or SUMMIT.

 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.

 The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements spe noted on the structural drawings.

 This structure 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 requirement of the current local building code.

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
- maximum dry density.

 Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
- No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

- STRUCTURAL STEEL:

 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" latest editions.
- Structural steel shall receive one coat of shop applied
- otherwise noted.

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

- NUMBELIE:
 Concrete shall have a normal weight aggregate and a minimum compressive strength (°L) at 28 days of 30000 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: 31. Footings: 5% 32. Exterior Glabs: 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 Construction"
- The concrete slab-on-grade has been designed using a of a licensed professional engineer.
 The resulting soil shall be compacted to a minimum of 95% 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 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 10-20 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.

 - process within 4 to 12 hours after the state has been infinited Reinforcing steel may extend through a centrol joint. Reinforcing steel may extend through a saw out joint. All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at field-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.
 Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforceme
- naminatured for use as concerns securitary removements Application of fill-emesh per cubic yard of concrete shall equal a minimum of 21% by volume (15 pounds per cubic yard) Filtermenh shall comply with ASTM Cliffs, and yocal building code requirements, and shall meet or exceed the current industry
- Steel reinforcing bars shall be new billet steel conforming to
- ASTM 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
 - 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.

- Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters
- into the footing.

 10. 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: 21. E = 1,900,000 psi 22. Fb = 2600 psi
- 2.4.Fc = 700 bsi Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-IB. All
- 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

other moisture exposed wood shall be treated in accordance

- unless otherwise noted. Exterior and load bearing stud walls are to be 2x4 SYP 4 2 6 16. O.C. unless otherwise noted. Stude shall be continuous from the ole 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 stude shall be continuous.
- nail of the stude forming a column shall be attached with one loc nail of 0.C. staggered. The stud column shall be continuous nall © ° OL, staggered. His suice commit as in the Committee to the foundation or bean. 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) [Ød nails ©
- 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 design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to supporting dealerations 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.

 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 shall be designed, fabricated, and erected in accordance with the latest edition of the "National Desig Specification for Wood Construction." (NDS) and "Desig Specification for Metal Plate Connected Wood Trusses."
- The trues 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
- 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 standards.
- 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 I or 2.
- Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nall 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
- have a span rating consistent with the framing spacing, Use suitable edge support by use of piguood clips or limber 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 (I)-8d CC ingahank nail 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 use said have a span rating consistent with the framing spacing. Use suitables edge rating consistent with the framing spacing. Use suitable edge support by use of 74G plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Sheathinging 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.
 All structurally required fiberboard sheathing shall bear the mark of the AFA.
- mark or tree APA.

 Fiberboard utill sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these draings. Refer to wall bracing notes in plan set for more information.
- Sheathing shall have a 1/8" gap at panel ende and edges are recommended in accordance with the AFA.





SCALE THAN MARKET DRAIN SY: JOS

PROFES TO COVER SHEET FOR A CONFILETE LIST OF PRIVISIONS

CSI

ELEVATION B.F.K.

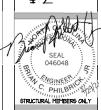
OPT. SCREENED/COVERED





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

> Hyden Ra , Monolithic Slab Foundation



DATE 40001 SCALE 23:04 HP-1-9* Bill HP-1-9* PROJECT 4 900-0496 23046 DRAIN BY: JCS* CHECKED BY: BCP

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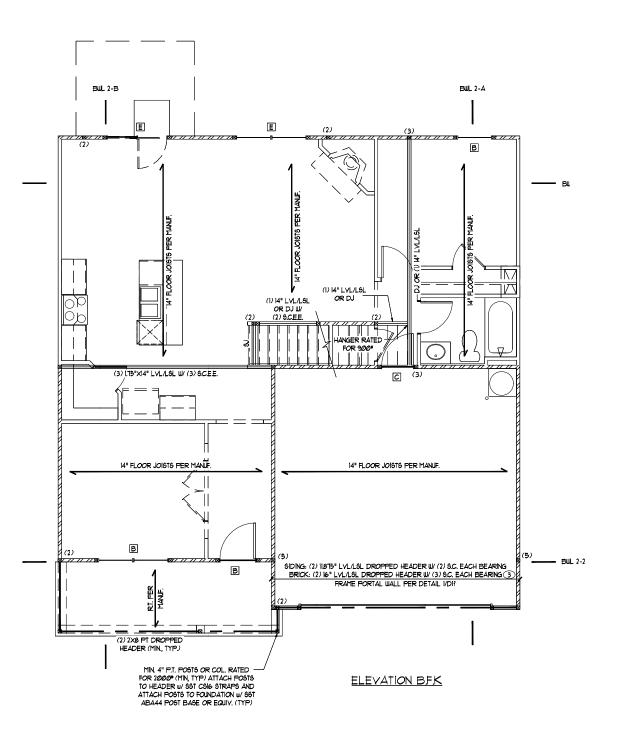
STRUCTURAL MEMBERS ONLY

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"-@" ON 22"x34" OR 1/8"=1"-@" ON 11"x17"



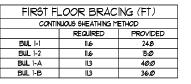
STRUCTURAL MEMBERS ONLY

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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"x1"





UK HOTON, INC. 8001 Arounidge Blvo Charlotte, NC 28273

Huyden Ru First Floor Framing Plan



DATE 48801 SCALE 2204 MP-F-SP Biff MP-F-SP PROJECT 9 500-669-22046 DRAIN SY: JCSP GRECKED SY: SCP

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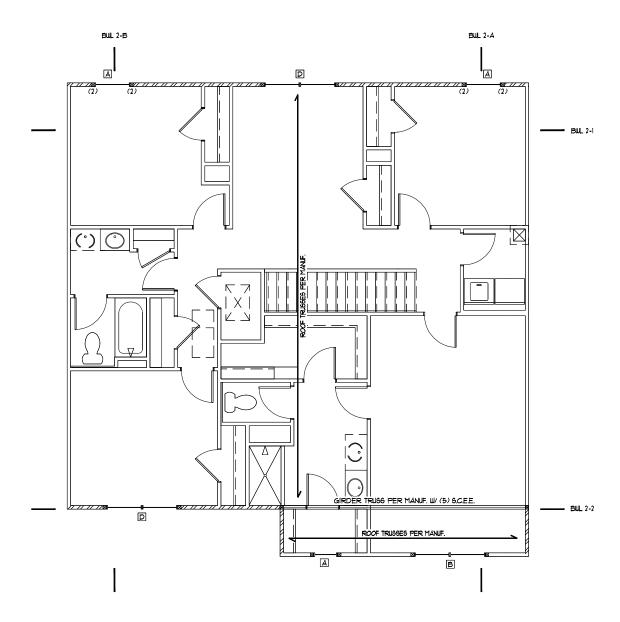
S3.1



Framing



SCALE 2504 NO-1-6" DRAWLEY: JOSE



ELEVATION B.F.K.

STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN 9CALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x17"

SECOND FLOOR BRACING (FT) CONTINUOUS SHEATHING METHOD REQUIRED PROVIDED
60 210
60 250
58 400
58 360 BUL 2-1 BUL 2-2

TRUSS UPLIFT CONNECTOR SCHEDULE					
MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO PND		
600 LBS	H2.5A	PER WALL SHEATHING & FASTENER			
1200 LBS	(2) H2.5A	C516 (END = 11")	DTT2Z		
145Ø LBS	HT52Ø	CSI6 (END = II")	DTT2Z		
2000 LBS	(2) MT52Ø	(2) CSI6 (END = II")	DTT2Z		
2900 LBS	(2) HT62Ø	(2) C\$I6 (END = II")	HTT4		
3685 LBS	LGT3-5D525	MSTC52	HTT4		

3695 LB6 | LGT3-8D525 | MSTC52 | HTT4

L ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT
PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.

2. UPLIFT VALUES LISTED ARE FOR SYP 92 GRADE MEMBERS.

3. REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES AND
TRUSS TO TRUSS CONNECTIONS. CONNECTORS SPECIFIED BY TRUSS
MANUFACTURER OVERRIDE THOSE LISTED ABOVE.

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

NOTE: 1ST 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 EYEDROW, RETURN OR SHED ROOF FRAMING REQUIREMENTS, (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS HANLFACTURER IN ACCORDANCE WITH SECTION REWOULD WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION REWOLDS OF THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION REWOLDS OF THE WIND WAS THE WIND WAS THE WORLD WIND THE PER TO BRACED WALL IN A POR SHEATHING AND FASTENER REGUIRDEMENTS

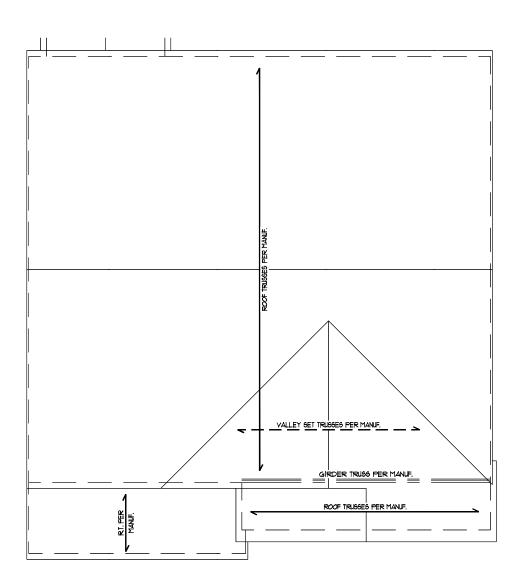
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u> COMPLETED/REVISED ON <u>1272</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GLIARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WIEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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.

ROOF FRAMING PLAN SCALE: 1/4"-1"-0" ON 22"x34" OR 1/8"-1"-0" ON 11"x1T"









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

Roof Framing Plan



DATE 48801 SCALE 2304 IMP-I-SP Bott IMP-I-SP PROJECT 4 950-0496 23846 DRAIN SY: JCSF GRECKED SY: SCP

MATER TO COVER GREET TO CONTINUE LIST OF TRANSCO

S5.

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

• ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

9" -	ougos.		
٦.	Roof	Live Loads	
	1.1.	Conventional 2x	2Ø PSF
	1.2.	Trus s	2Ø PSF
		12.1. Attic Truss	60 PSF
2.	Roof	Dead Loads	
	2.1.	Conventional 2x	10 PSF
	2.2.	Truse	2Ø PSF
3.	Snow		15 PSF
	3.1.	Importance Factor	lø
4.	Floor	Live Loads	
	4.1.	Typ. Dwelling	40 PSF
		Sleeping Areas	
		Decks	
	4.4.	Passenger Garage	50 PSF

5. Floor Dead Loads
5.I. Conventional 2x ... 52 I-Joist

6.l. Exposure 62. Importance Factor... 63. Wind Base Shear

6.3.l. Vx =

632. Vy = T. Component and Cladding (in PSF)

MEAN ROOF HT.	UP T Ø 3Ø'	3 Ø'I"-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,-2 Ø .7	20.4,-21.3
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

Seismic Use Group ...

8.5. Spectral Response Acceleration 85.1. Sms = %g 85.2. Sml = %g 8.6. Seismic Base Shear

861.Vx = 862.Vy = 8.1. Basic Structural System (check one)

⊠ 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 🗆 llind 🖂 9. Assumed Soil Bearing Capacity ...

STRUCTURAL PLANS PREPARED FOR

STANDARD DETAILS

PROJECT ADDRESS:

OUNER: DR Horton Carolinas Division

ARCHITECT/DESIGNER

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 recoord (SER, Should any cliarcepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory 4 Testing, P.C. before construction begins.

PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
u	CEILING JOIST	5C	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
EW	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
ОC	ON CENTER	TYP	TYPICAL
P S F	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
₽91	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 4 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 **50**11411 immediately.

SHEET LIST:

REVISION LIST:

Date

FIII

T |2 |T

3 2.15.18

4 228.18

5 12.19.18

6 2.19.19

8 3.6.19

9 3220

Project No.

Revision

ôheet Nø.	Description			
CSI	Cover Sheet, Specifications, Revisions			
D1m	Monolithic Slab Foundation Details Stem Wall Foundation Details Crawl Space Foundation Details			
Dis				
Dlc				
Dlb	Basement Foundation Details			
DIf	Framing Details			

DR HORTON PROJECT SIGN-OFF:

Manager	Signature		
Operations			
Operations System			
Operations Product Development			

SÜMMIT



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, after, 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 surposes of these construction documents the SER 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 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,
- the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or 91/mill. 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 91/mill before construction begins.

 The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted to the structural drawings.
- noted on the structural drawings.

 This structure 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:

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

- 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.
- of a licensed professional engineer.
 The resulting earl shall be compacted to a minimum of 95%
- maximum dry density.

 5. Excavations of footings shall be lined temporarily with a 6 mill polyetylene memorane 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.

- STRUCTURAL STEEL:

 1. 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_u) of 36 kg unless
- otherwise noted
- Welding shall conform to the latest edition of the American weraing shall common to the latest edition of the American Welding Society's Structural Welding Code AUS DIJ. Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above

- Number IE.

 Concrete shall have a normal weight aggregate and a minimum compressive strength (fe/ at 28 days of 3000 ps), unless otherwise noted on the plan.

 Concrete shall be proportioned, mixed, and placed in
- accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of 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.

- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction" The concrete slab-on-grade has been designed using a Any fill shall be placed under the direction or recomme
 - 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 urreported conditions not in accordance with the above assumptions. Control or solu cut joints shall be spaced in interior slabs-on-grade at a maximum of 15-01 O.C. and in exterior
 - slabs-on-grade at a maximum of $|\mathcal{O}|$ 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

 - process within 4 to 12 hours after the state has been has been intered.

 9. Reinforcing steel may extend through a control joint.

 Reinforcing steel may extend through a saw cut joint.

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

- CONCRETE REINFORCEMENT:

 I. 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.
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (15 pounds per cubic yard) Fibermesh shall comply with ASTM CIII6, any local building code requirements, and shall meet or exceed the current industry
- standard.
 Steel reinforcing bars shall be new billet steel conforming to
- of the inferior of the state of size/spacing as the horizontal reinforcement with a class B
- 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
- into the Footing.

 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise nated. 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 Spruce-Yellow-Pise (SYP) 2.

 LVL or PSL engineered wood shall have the following minimum
- - sign values: 2.1. E = 1,900,000 psi
 - 2.2. F_b = 2600 psi 2.3. F_v = 285 psi
- 2.4.Fc = 100 psi 1.4.1°C incorption.

 Who in contract 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.
- Nails shall be common wire nails unless otherwise noted.

 Lag screws shall confrom to ANSI/ASME standard Bi82.1-1981.

 Lead holes for lag screws shall be in accordance with NDS specification.
- 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 $^{\circ}$ 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. 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 lod nail e 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) lod nails e
- 10. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be bolted together with (2) rous of 1/2" diameter through boilts staggered # 16" O.C. unless noted otherwise. Min. edge distance shall be 2" and (2) bolts shall be located a min. 6" from each

WOOD TRUSSES:

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.

The wood trusses shall be designed for all required loadings.

dded box bay detail (2/D2f). Added deck

stem wall and crawl space foundations

Revised garage door detail, NC only

Added high-wind foundation details

Revised per Mecklenburg County Comments Revised stem wall deck attachment and roo

Corrected dimensions at perimeter footings

Revised stem wall insulation note

Revised per 2018 NCRC

sheathing on wall sections.

Added tall turndown detail

options with basement. Revised deck options with

- In a wood trusses shall be designed for all required loadings as specified in the local building code, the AGCE Standard "Minimum Design Loads for Buildings and Other Structures."

 (ASCE 1-05), 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
- 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 bracing, both temporary and permanent, shall be shown on the shop drawings.

 Also, the shop drawings shall show the required attachments for
- the trusses.

 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:

 I. 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

- 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 I 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
- have a span rating consistent with the framing spacing, Use suitable edge support by use of plywood clips or limber 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 I or 2. Attach sheathing to its supporting framing with (I)-Bd CC ringshark nail at 6 lore at panel edges and at 12 lore 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 14G 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.
- state Building Code.

 Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

- STRUCTURAL FIBERBOARD PANELS:

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

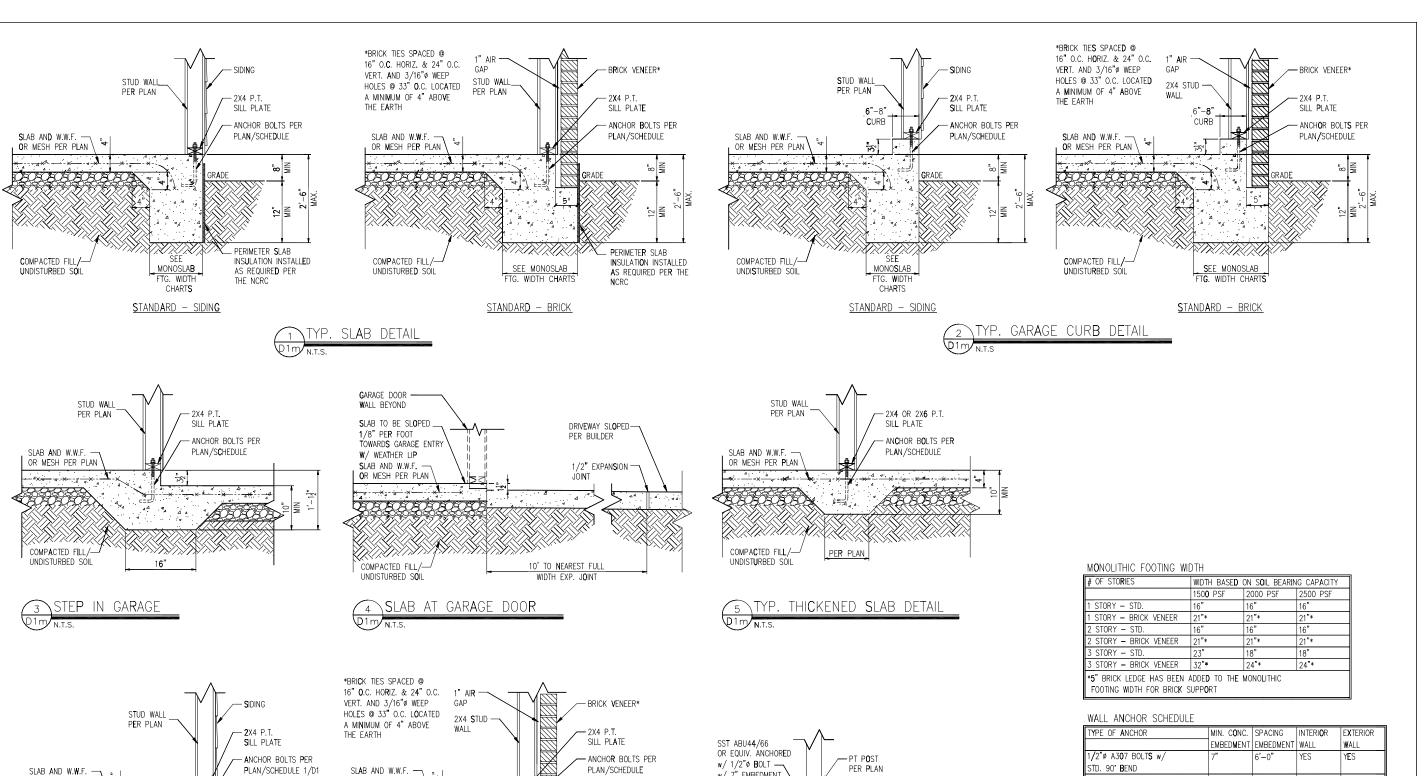


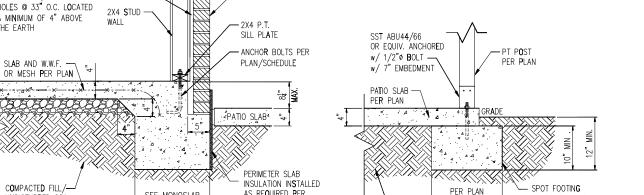
DATE: 3/2/2 8CALE: 22x34 V4"+1"-8" lbt1 V8"+1"-8" PROJECT 1 P-19Ø1-1Ø DRAWN BY: LAG

CHECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

CSI





AS REQUIRED PER

THE NCRC

<u>STANDARD - BRICK</u>

SEE MONOSLAB

FTG. WIDTH CHARTS

PATIO SLAB DETAIL

UNDISTURBED SOIL

- PATIO SLAB⁴

SEE

MONOSI AF

FTG WIDTH

CHARTS

STANDARD - SIDING

- PERIMETER SLAB

THE NCRC

I**n**sulati**o**n inst**a**lled

AS REQUIRED PER

OR MESH PER PLAN

COMPACTED FILL/-

UNDISTURBED SOIL

6A COVERED PATIO DETAIL

- COMPACTED FILL/

UNDISTURBED SOIL

OR CONTINUOUS

LUG FOOTING PER PLAN

_	WALL ANGHON SCHEDOLL					
	TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERI O R	EXTERIOR	
I		EMBED M ENT	EMBEDMENT	WALL	WALL	
I	1/2"ø A3 0 7 BOLT S w/	7"	6'-0"	YES	YES	
	STD. 90° BEND					
ı	S\$T - MAS	4"	5'-0"	NO	YES	
ı	HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO	
ı	1/2"ø HILTI THREADED ROD	7"	6'-0"	YES	YES	
	w/ HIT HY150 ADHESIVE					

NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

- NOTES: 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 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
- 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







Details Foundation Slab PROJECT:
Standard Details

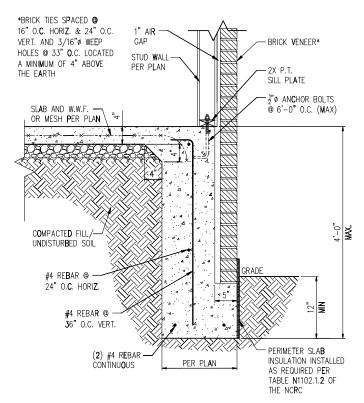
Monolithic \$



DATE: 3/2/2 8CALE: 27x34 1/4"+1"-**8"** 18x1 1/8":1"-**8"** PROJECT & P-19Ø1-1ØR DRAWN BY: LAG CHECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

Dlm



- NOTES:

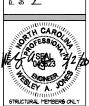
 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
 - PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
 - 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, 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





Details Foundation Slab PROJECT:
Standard Details

Monolithic (



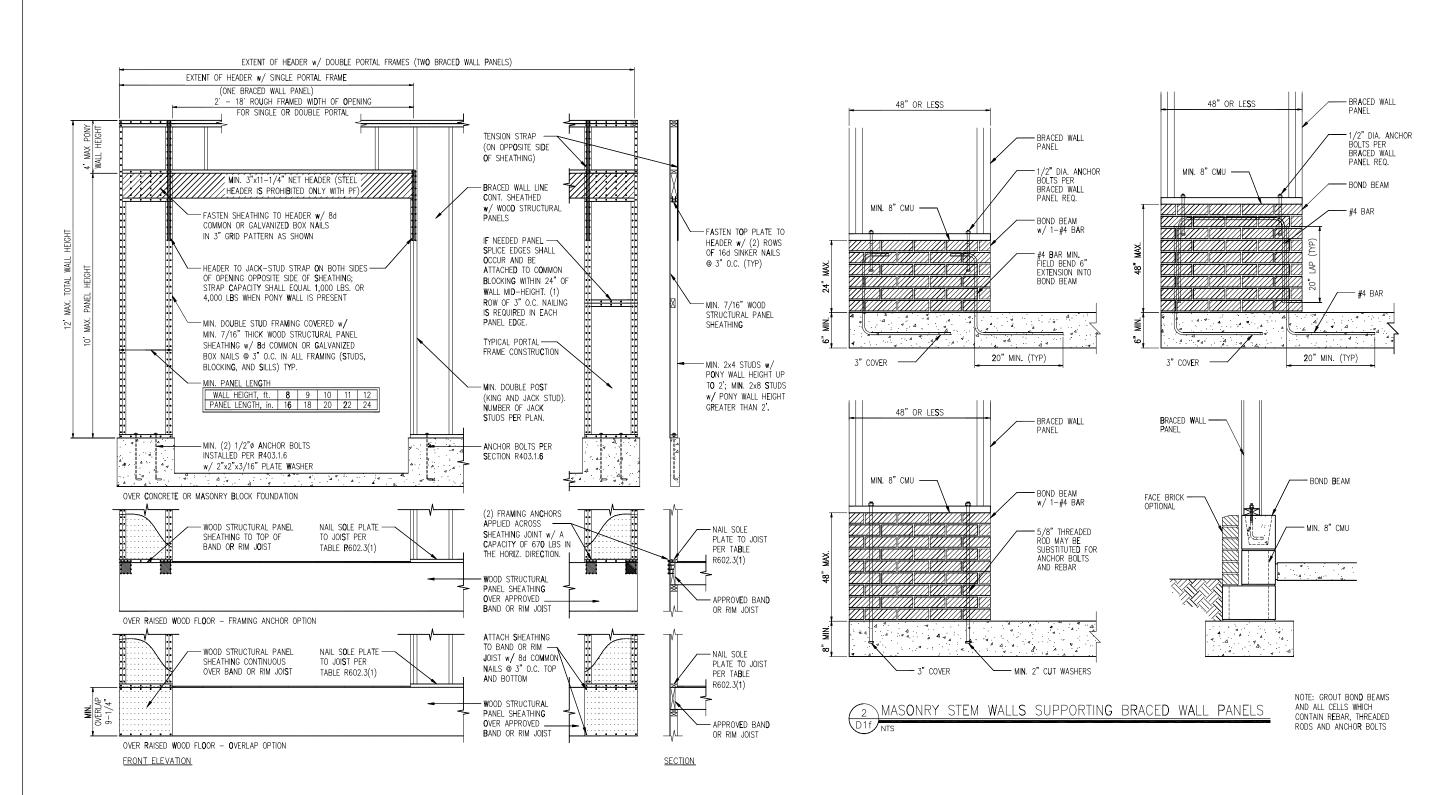
DATE: 3/2/28 8CALE: 22x34 1/4"+1-**6"** lbt1 1/8"+1-**6"** PROJECT 4 P-19Ø1-1Ø

CHECKED BY: WAJ

DRAWN BY: LAG

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2m





SÜMMIT

SUMMIT Engineering, Laboratory & Testing, P.C.

CLIENT:
DR Horton Carolina Divi
8001 Arrowridge Blvd.
Charlotte, NC 20213

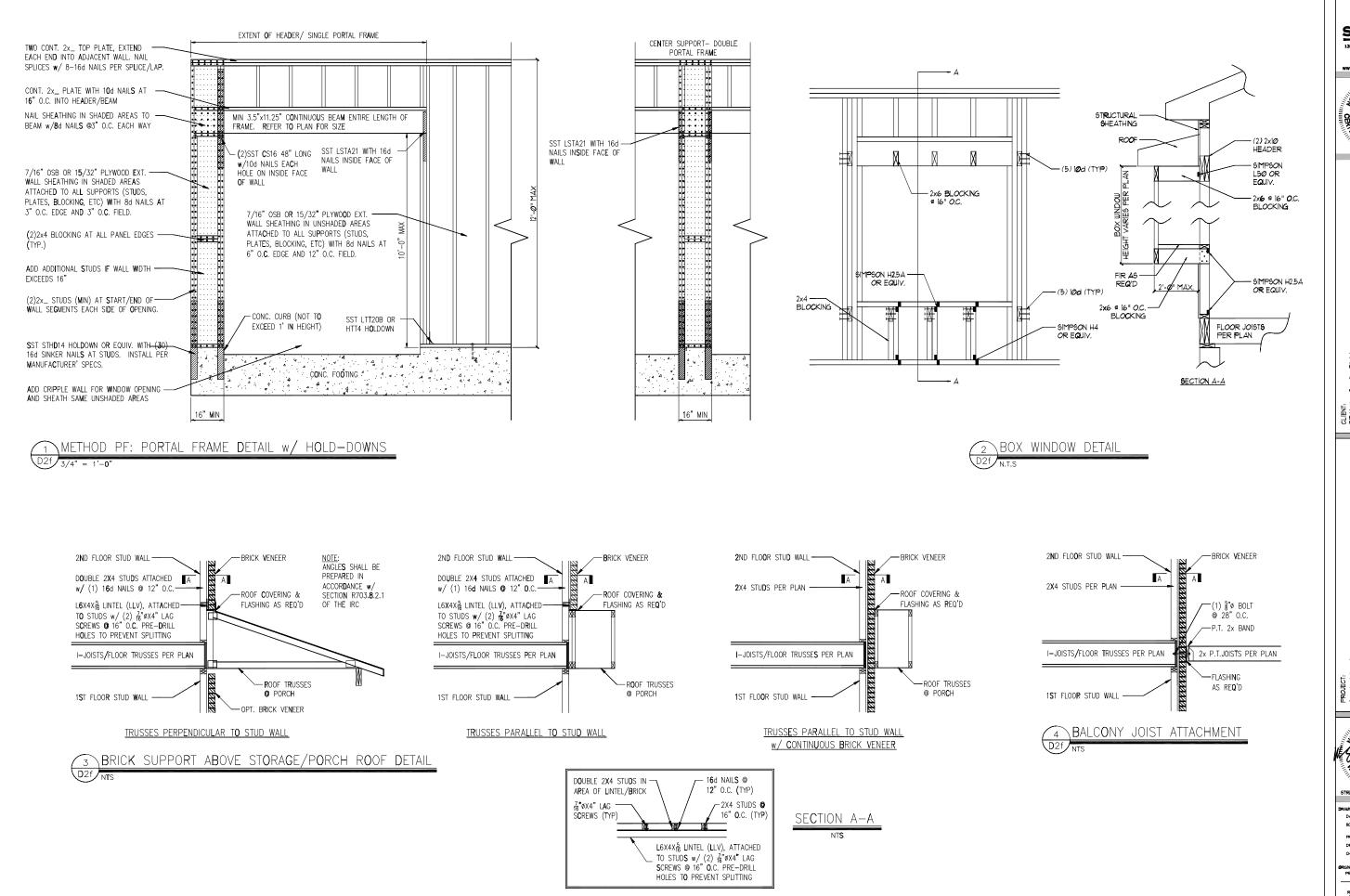


DATE: 3/2/2 8CALE: 22x34 1/4"∗1"-**8"** |bgT 1/8"∗1"-**8"** PROJECT 4 P-19Ø1-1Ø DRAIN BY: LAG CHECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D1f

METHOD PF: PORTAL FRAME DETAIL



SUMMIT





Detaí PROJECT: Standard Details Framing

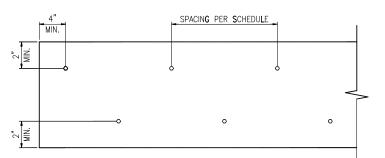


STRUCTURAL MEMBERS ONLY DATE: 3/2/2 8CALE: 22x34 1/4"∗1"-**8"** |bgT 1/8"∗1"-**8"**

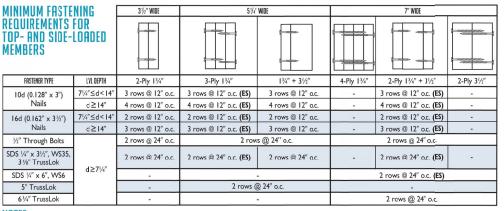
PROJECT & P-19Ø1-1ØR DRAWN BY: LAG CHECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2f



ELEVATION VIEW



- 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 7½" require special consideration. Please contact your technical representative.

L3x3x1/4"x8-1/2" LONG -

STEEL BEAM -

PER PLAN

COPE END OF STEEL

AS REQ'D TO CLEAR

WEB OF STEEL BEAM

LINTEL BOTH SIDES OF WEB

w/ 13/16" # HOLES @ GAGE

side are to be staggered up to one-hall the o.c. spacing, but maintaining the fastene-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).

SECTION VIEW

STEEL BEAM

PER PLAN

- STEEL BEAM PER PLAN

(2) 3/4"ø BOLTS

ÈACH ANGLE LEG

NOTES: 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, ther fasteners installed in adjacent rows on the front.

MULTI-PLY BEAM CONNECTION DETAIL

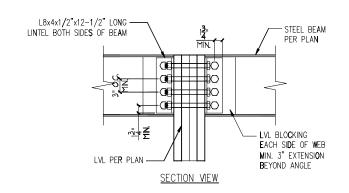
— 10d COMMON NAIL @ 12" O.C.

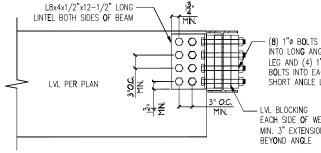
- SIMPSON C\$16 COIL STRAP OR EQUIV. PER MANUF. SPECIFICATIONS

EACH PLY OR PER CODE

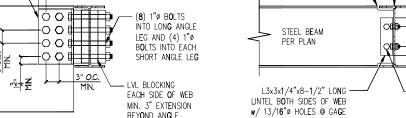
@ 1/3 HEIGHT LOCATIONS

MULTI-PLY STUD CONNECTION DETAIL





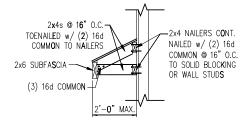
ELEVATION VIEW







ELEVATION VIEW



GABLE ROOF RETURN

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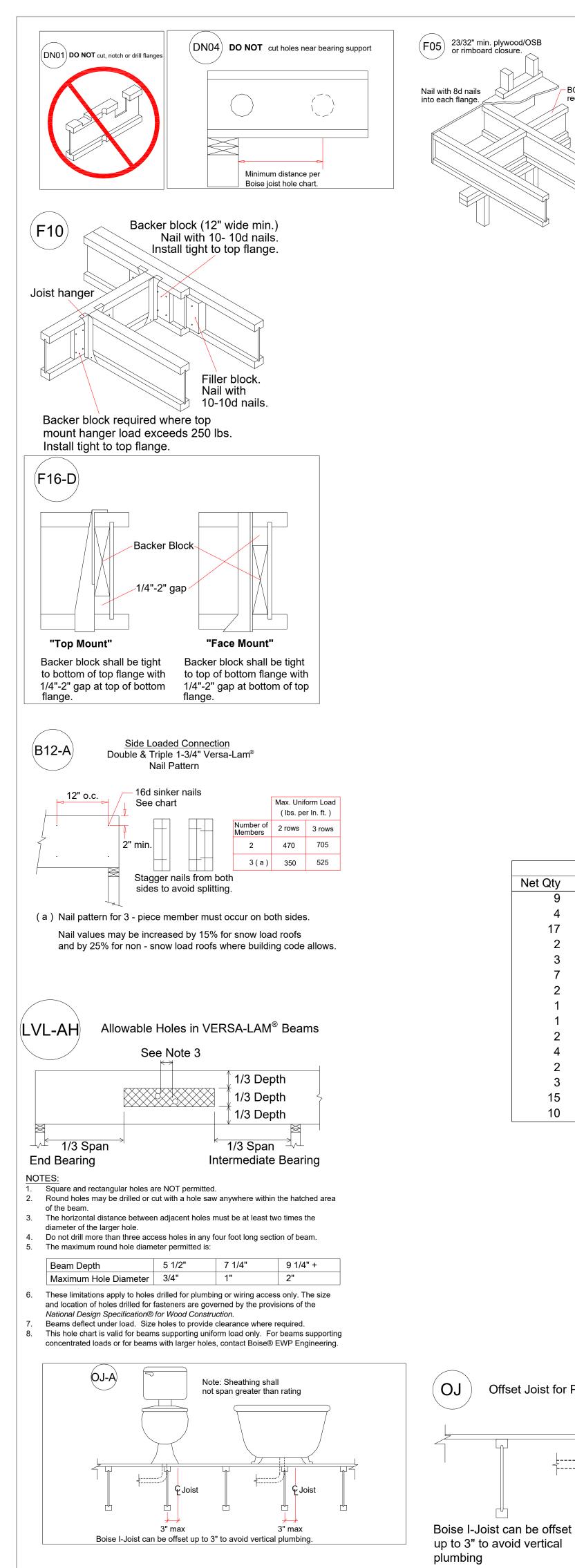
PROJECT: Standard Details Framing Details



DATE: 3/2/2 8CALE: 22x34 1/4"∗1"-**6"** lbt1 1/8"∗1"-**6"** PROJECT 4 P-1907-10R DRAIIN BY: LAG CHECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3f



(F06)

BCI[®] joist blocking

required for cantilever.

Load bearing wall above

(stacked over wall below)

NOTE PLUMBING DROPS:

POSSIBLE CONFLICTS WITH JOISTS.

♀ Joist

Note: Sheathing shall

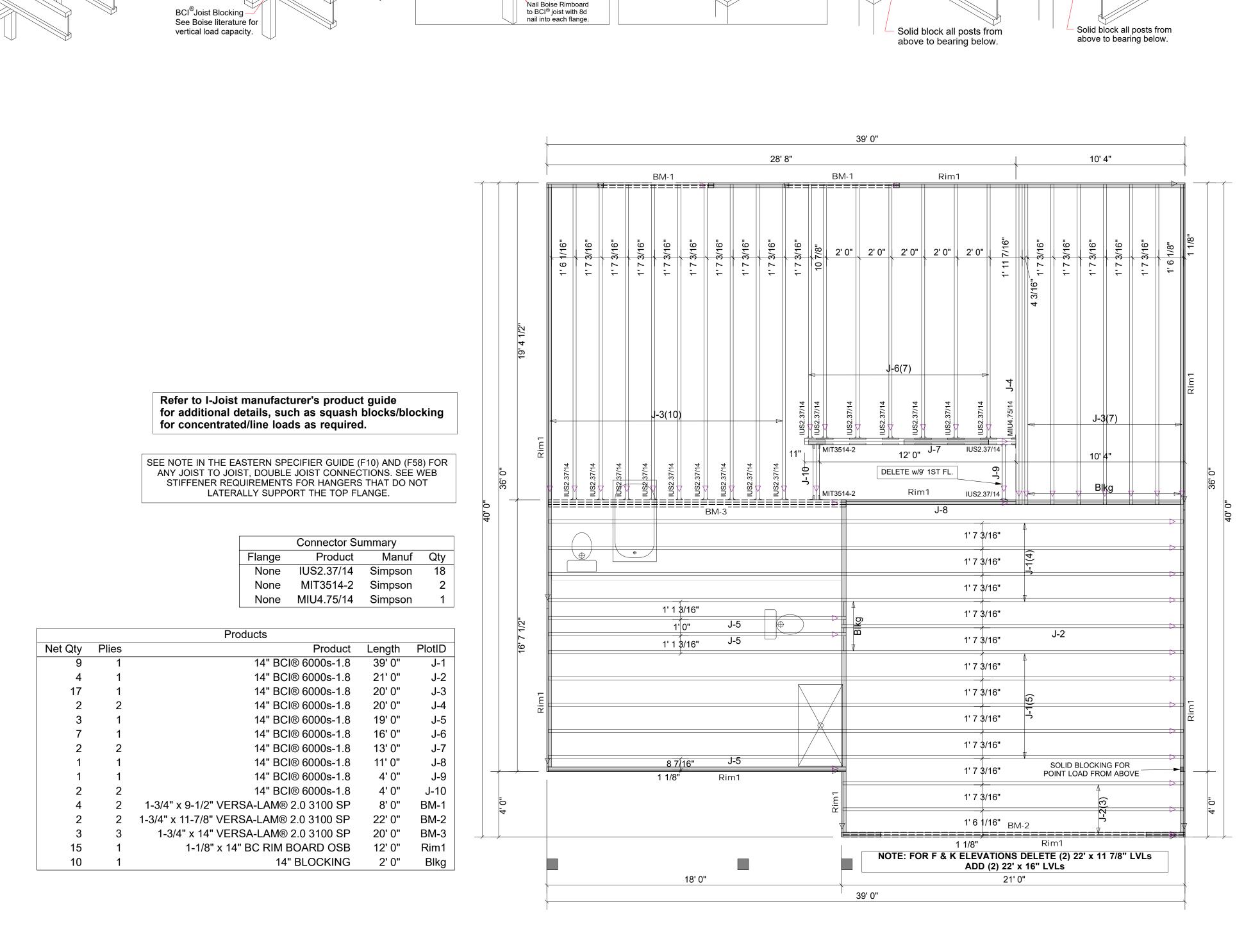
not span greater than rating

PLUMBING SYMBOLS SHOWN ARE APPROXIMATE LOCATIONS ONLY.

CLEAR DISTANCE FOR FLOOR DECKING NOT TO EXCEED RATING.

*** I-JOIST FLANGES ARE NEVER TO BE CUT ***

BUILDER TO FIELD VERIFY ACTUAL LOCATIONS TO AVOID

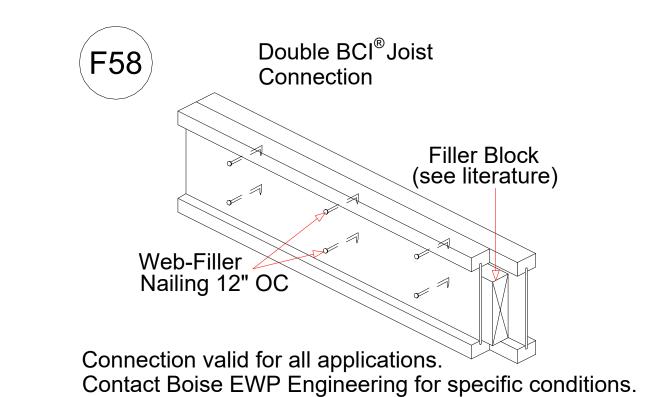


See Boise literature for

vertical load capacity.

See Boise literature for

(F07-A)





I-JOISTS

CONSTRUCTION

0 R

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GROVE

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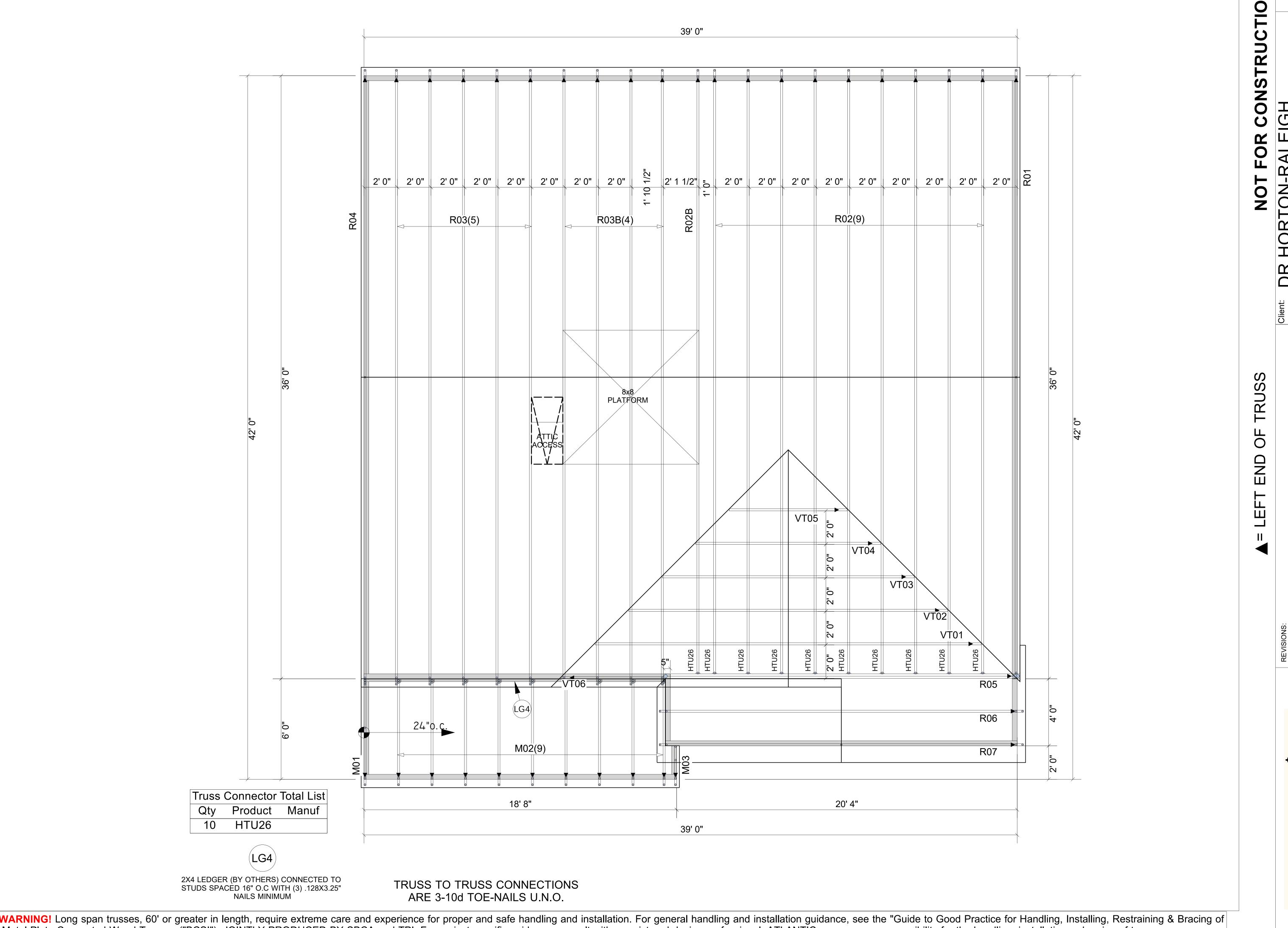
SCALE

0

Nail each end with 1 - 3" (10d) nail

1½" minimum end bearing length

at all floor and roof details.



LEVEL FOR CONSTRUCTION HORTON-RALEIGH



WARNING! Long span trusses, 60' or greater in length, require extreme care and experience for proper and safe handling and installation guidance, see the "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), JOINTLY PRODUCED BY SBCA and TPI. For project specific guidance, consult with a registered design professional. ATLANTIC assumes no responsibility for the handling, installation or bracing of trusses.