ABBREVIATIONS L LENGTH LA LANDRY LAY LAVATORY LYR LOUVER MAX MAXIMIM MECH MECHANICAL MER. MANUFACTURER MINIMUM MISC MISCELLANEOUS A/C AIR CONDITIONING AD. AREA DRAIN AD.J STABLE ALT ALTERNATE ALIMINM ARCH. ARCHITECTURAL BA BATHROOM BD BOARD BF BI-FOLD (DOOR) BIDG BILD DIN DIN MECELLANGUS NORTH NT.5. NOT TO SCALE NOT TO SCALE OF THE NOT EP BILPASS (DOOR) BOT BOTTOM BITNIN BETHERN BETHERN CER CERRANGLOWIT OR CONSTRUCTION JOINT CL. CLOCKET OR CENTER LINE CL. CLOCKET OR CENTER LINE CL. CLOCKET OR CENTER LINE CL. CLOCKET COLORNIC COLORNIC CONC. CONCRETE CR. CARRETE MASONRY UNIT COL. CONCRETE CR. CARRETE OR RESISTANT CH. CREMINGLOWIT RESISTANT CH. CREMINGLOWIT RESISTANT CH. CREMINGLOWIT CREMINGLOWIT CH. CREMINGLOWIT CREMINGLOWIT CH. CREMINGLOWIT 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 REG REGUIRED SOUTH 90 WAKE DETECTOR 55 SQUARE RES 56.04 SERVICE RES 56.05 SQUARE RES 56.05 SQUARE RES 57.05 SQUARE 58.05 SQUARE 58.05 SQUARE 58.05 SQUARE 58.05 SQUARE 58.05 SQUARE 58.05 SQUARE 59.05 SQUARE 50.05 V.B. VAPOR BARRIER VERT VERTICAL V.T.R. VENT THRU ROOF 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 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 BUILDING CODE COMPLIANCE / PROJECT INFORMATION ALL CONSTRUCTION TO COMPLY WITH LOCAL CODES AND ORDINANCES CURRENTLY IN USE WITH THE LOCAL JURISDICTION. FOLLOW ALL APPLICABLE STATE AND LOCAL CODES. 2018 NORTH CAROLINA STATE SUPPLEMENTS AND AMENDMENTS CONTRACTOR AND BUILDER SHALL REVIEW ENTIRE PLAN TO VERIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EPIFECT 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. SINGLE FAMILY RESIDENCE OCCUPANCY CLASSIFICATION RESIDENTIAL R-3 CONSTRUCTION TYPE

IND	EX					
MODEL 'BELHAVEN'						
0 0.l	TITLE SHEET / COVER SHEET QUICK VIEW	l E I.I E 2 E	FRONT ELEVATION 'E' ROOF PLAN 'E' SIDE AND REAR ELEVATIONS 'E'			
I A I.I A 2 A	FRONT ELEVATION 'A' ROOF PLAN 'A' SIDE AND REAR ELEVATIONS 'A'	2.1 E 3 MS E	SIDE AND REAR ELEVATIONS 'E'- W BASEMENT MONOLITHIC SLAB PLAN 'E'			
2.I A 3 MS A	SIDE AND REAR ELEVATIONS 'A'- W BASEMENT MONOLITHIC SLAB PLAN 'A'	3 SW E 3 BS E 4 E	STEM WALL PLAN 'E' BASEMENT PLAN 'E' IST FLOOR PLAN 'E'			
3 SM A 3 BS A 4 A	STEM WALL PLAN 'A' BASEMENT PLAN 'A' IST FLOOR PLAN 'A'	5 E I F	2ND FLOOR PLAN 'E' FRONT ELEVATION 'F'			
5 A I B I.I B	2ND FLOOR PLAN 'A' FRONT ELEVATION 'B' ROOF PLAN 'B'	I.I F 2 F 2.I F	ROOF PLAN 'F' SIDE AND REAR ELEVATIONS 'F' SIDE AND REAR ELEVATIONS 'F'- W/ BASEMENT			
2 B 2.I B	SIDE AND REAR ELEVATIONS 'B' SIDE AND REAR ELEVATIONS 'B'- W/ BASEMENT	3 MS F 3 SW F 3 BS F	MONOLITHIC SLAB PLAN 'F' STEM WALL PLAN 'F' BASEMENT PLAN 'F'			
3 MS B 3 SW B 3 BS B	MONOLITHIC SLAB PLAN 'B' STEM WALL PLAN 'B' BASEMENT PLAN 'B'	4 F 5 F	IST FLOOR PLAN 'F' 2ND FLOOR PLAN 'F'			
4 B 5 B	IST FLOOR PLAN 'B' 2ND FLOOR PLAN 'B'	I A S I.I A S I.I.I A S	BUILDING SECTIONS BUILDING SECTIONS BUILDING SECTIONS			
1 C 1.1 C 2 C 2.1 C	FRONT ELEVATION 'C' ROOF PLAN 'C' SIDE AND REAR ELEVATIONS 'C' SIDE AND REAR ELEVATIONS 'C'- W/ BASEMENT	6 7 8	BASEMENT UTILITY PLAN IST FLOOR UTILITY PLAN 2ND FLOOR UTILITY PLAN			
3 MS C 3 SW C 3 BS C 4 C 5 C	MONOLITHIC SLAB PLAN 'C' STEM WALL PLAN 'C' BASEMENT PLAN 'C' IST FLOOR PLAN 'C' 2ND FLOOR PLAN 'C'	62	ARCHITECTURAL SHEETS			
I D I.I D 2 D 2.I D	FRONT ELEVATION 'D' ROOF PLAN 'D' SIDE AND REAR ELEVATIONS 'D' SIDE AND REAR ELEVATIONS 'D'-					
3 M5 D 3 SW D 3 B5 D 4 D 5 D	W BASEMENT MONOLITHIC SLAB PLAN 'D' STEM WALL PLAN 'D' BASEMENT PLAN 'D' IST FLOOR PLAN 'D' 2ND FLOOR PLAN 'D'					
PREPARED B	ANT DRAWINGS ACCOMPANYING THESE ARCH Y OR UNDER THE DIRECTION OF GMD DESIGN ASSUMES NO LIABILITY FOR THE COMPLETENE	GROUP, INC. GMD D	ESIGN GROUP INC.			

EXPRESS HOM 40' SERIES MODEL 'BELHAVEN' - RH

Woodgrove Lot 80 78 Pecan Grove Lane Fuguay Varina, NC 27526

NO: DATE:

PROJECT TITLE: PLAN CHANGES: 40' Series DESCRIPTION

CONSULTANTS:

LOCAL JURISDICTION:

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

ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED.

PROVIDE FIREBLOCKING, (PER 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 GEOTECHNICAL ENGINEER (GOILS REPORT), ON THE STUDY OF THE PROPOSED SITE, TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL COMTRACTOR. 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 REGULATIONS, ALONG WITH ALL OTHER AUTHORITIES HAVING JURISDICTION. THE GENERAL CONTRICATOR IS RESPONSIBLE TO BE AWARE 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 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 REPENAFIER REFERRED TO AS "PLANG" THIS SET OF PLANG 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 PESCRIBED. 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 CLIBITY 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 MURRY, WEEKE THE FLAND AND SPECIFICATIONS, CODES, LAND, REQUITATIONS, MANUFACTURER'S RECOMMENDATIONS OR INDUSTRY: STANDARDS REQUIRE WORK OF HIGHER QUALITY OR PERFORMANCE, PROVIDE MORK COMPLITING MITH THOSE REQUIREMENTS AND QUALITY WERET 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 HAICH REQUIREMENT IS MOST STRINGENT, OBTAIN CLARIFICATION FROM THE GMD DESIGN GROUP BEFORE PROCEEDING. AREA CALCULATIONS:



PROJECT NO: GMD17049

TITLE SHEET

2nd FLOOR 1164 SF TOTAL LIVING IGGI SE GARAGE 408 SF 57 SF PORCH

MODEL 'BELHAVEN' SQUARE FOOTAGES

Ist FLOOR

March 06, 2023 **BASEMENT AREA IS TAKEN TO INSIDE OF CONCRETE WALL**

TRUCTURAL ENGINEER

ELEV 'D', 'E', 'E'

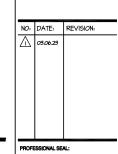
827 SF











PROJECT TITLE:

40' Series

Eront Elevation 'C' scale: 1/4"=1"-0" at 22"x34" layout 1/8"=1"-0" at 11"x11" layout







Front Elevation 'F'

CLIENTS NAME:



FOR CONSTRUCTION

PROJECT NO: GMD17049

QUICK VIEW

March 06, 2023

Front Elevation 'E'

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

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.
 INDIDON HEAD HEIGHTS.
 IST FLOOR = 6-6° UNIO, ON ELEVATIONS.
 2NO FLOOR = 7-6° UNIO, ON ELEVATIONS.
 ROCOFING, PITCHED SHINGLES PER DEVELOPER.
 WINDOWS, MANUFACTURER PER DEVELOPER. DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS.
- ENTRY DOOR: AS SELECTED BY DEVELOPER. GARAGE DOORS: AS SELECTED BY DEVELOPER, RAISED PANEL AS SHOWN.
- 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.)

- INEL HEADEN DOWN INCLUDING POST, KAILS, PICKETS, SHE'S .
 INBLATION FOR TABLE NIOZZI.
 EXTERIOR MALLS . R.15 BATTS MINIMM. VERIFY
 FLOOR OVER GARAGE.
 ATTIC KREENALLS . R.14 BATTS MINIMM. VERIFY
 CRANL SPACE FLOORING. R.14 BATTS MINIMM. VERIFY
 R.14 BATTS MINIMM. VERIFY
 R.14 BATTS MINIMM. VERIFY
 R.14 BATTS MINIMM. VERIFY

KEY NOTES:

- 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 WAYY 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 PAVET SUINCE PER VEYLLOPER WIT VA CORNER TRIN BOARD.)

 [3] WINTL BOAD AND BATT SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER.

 (AT SPECIFIED LOCATIONS.

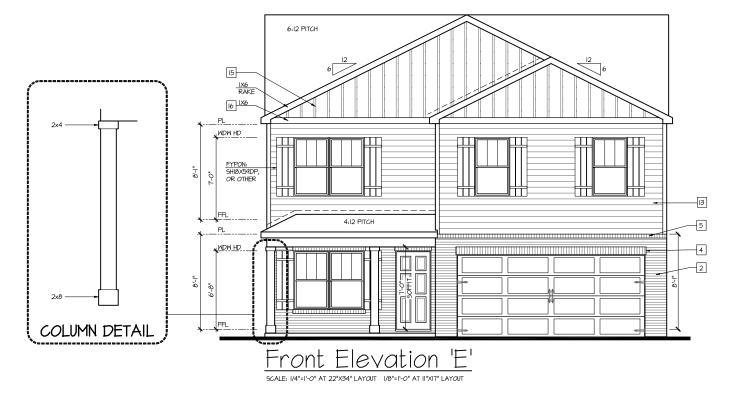
 [4] WINTL TRIM SIZE AS NOTED

 (AT SPECIFIC LOCATIONS.

 IN PIBER CEPTENT TRIM OR EQUAL, UNIO. SIZE AS NOTED
- FYPON SHUTTERS, TYPE AS SHOWN, SIZE AS NOTED.

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

ALL INIDONG MOSE CIPIENING IS LESS THAN 24" ABOVE THE FINISH FLOOR AND MIOSE OPENING IS GREATER THAN 12" ABOVE THE OUTSIDE MALKING SURFACE MIST HAVE NINDOW OPENING LIMING DEVICES COMPLYING WITH THE NORC SECTION R312.21 AND R312.22.



NO: DATE: REVISION: 03.06.23

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



PROJECT NO: 6MD17049

'BELHAVEN'

EXTERIOR ELEVATIONS '4EPF-E'

PRINT DATE: March 06, 2023

1E

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

THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN THE NET PREE VENILLATING AREA SHALL NOT BE LESS THAN 1150 OF THE AREA OF THE SPACE VENTILLATED, PROVIDED THAT AT LEAST 50 PERCENT AND NOT MORE THAN 80 PERCENT OF THE REQUIRED VENTILLATING AREA IS PROVIDED BY VENTILLATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILLATED AT LEAST 3 FEET ABOVE THE EAVIE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILLATION PROVIDED BY EAVIE OR CORNICE VENTS.

EXCEPTIONS:

1. EXCLOSED ATTIC/RAFTER SPACES REQUIRING LESS THAN
1.59 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 MANIFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMUM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE RIFIE DIMACRETICATION. BY THE BUILDING OFFICIAL.

BY THE BUILDING OFFICIAL.

ALL OVERLAD FRAMED 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 INDEPENDENTLY TO CAC REQUIREMENTS.

PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE CANTILLEVERED AND 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.) / I50 = SQ. IN. OF VENT REQUIRED

ROOF AREA I:= 1235 SF 1235 SQ. FT. X 144 = 177840 SQ. IN. 177840 SQ. IN. / 150 = 1185.60 SQ. IN. OF VENT REQ'D

NOTES:

- TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWINGS TO THE BUILDER'S GENERAL CONTRACTOR AND BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATIONS. - 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.

- 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 'BELHAVEN': 1:300 RATIO.

AS AN ALTERNATE TO THE I/I50 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 MINIMAM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE BUILDING OFFICIAL.

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

PER DEVELOPER, AT ALL CANTILEVERED FLOORS,
CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE CAMILLEYERED ARCHITECTURE PCO-COUTS, AND AMIL OFFI 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 90X, IN. = 1 90X, F1.

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

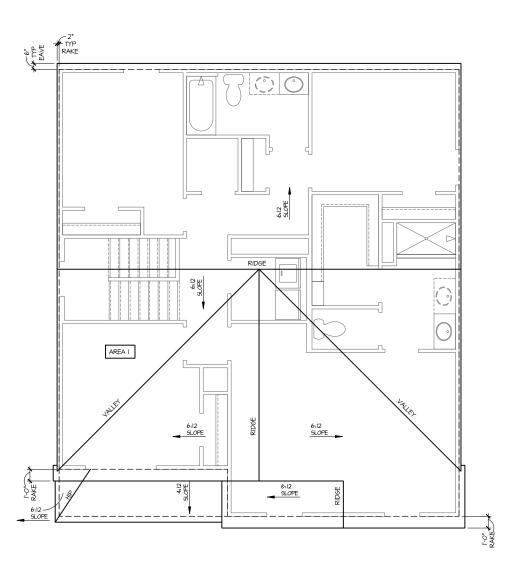
BLDG, (SQ, IN.) / 300 = 5Q; IN. OF VENT REQUIRED

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

ROOF AREA I: = 1235 SF. 171040 Sq. IN. OF VENT REQ'D Sq. IN. OF VENT REQ'D Sq. IN. OF VENT AT LOW REQUIRED.

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: 03.06.23 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION



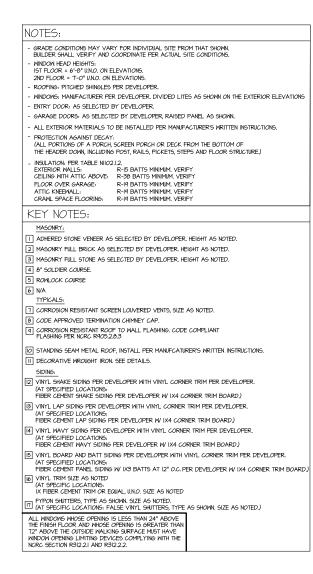
PROJECT NO: GMD17049

'BELHAVEN' **ROOF PLAN**

'4EPF-E'

March 06, 2023

1.1 E



WDW HD

MDW HD

13

6:12 PITCH

Right Elevation 'E'

SCALE: 1/4"=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"







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

Rear Elevation

NO: DATE: REVISION: 03.06.23 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



PROJECT NO: GMD17049

'BELHAVEN' **EXTERIOR ELEVATIONS** '4EPF-E'

PRINT DATE:

March 06, 2023

2E

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 DEVAINES 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 I/4" MAX AT INSMING 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.

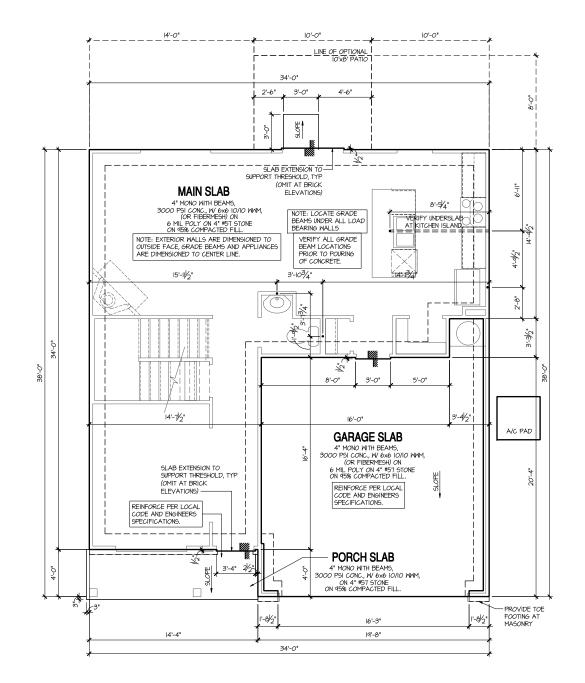
- S DIA CONCRETE FILLED STEEL FIFE EMBEDDED INTO CONCRETE FOOTING.

 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.



Monolithic Slab Plan 'E'

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

NO: DATE: REVISION: 03.06.23

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



PROJECT NO: GMD17049

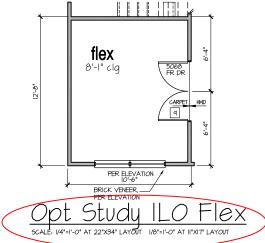
'BELHAVEN'

MONOLITHIC SLAB PLAN '4EPF-E'

PRINT DATE:

March 06, 2023

3 MS E





8'-9 1/2" STAIR NOTE: (USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR)
15 TREADS AT IO" EACH VERIFY 16 RISERS AT +/- 7.5" = 120 1/4" TOTAL RISE VERIFY

8'-I" STAIR NOTE: (USE 14" T.J.I WITH 3/4" PLYMOOD SUBFLOOR, 14 TREADS AT 10" EACH VERIFY 15 RISERS AT +/- 7.45" = III 3/4" TOTAL RISE VERIFY

9'-1" STAIR NOTE: (USE 14" T.JI WITH 3/4" PLYWOOD SUBFLOOR, 15 TREADS AT 10" EACH VERIFY 16 RISERS AT +/- T.73" = 123 3/4" TOTAL RISE VERIFY

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

LOW GYPSUM BOARD WALL HEIGHT AND STUD SIZE AS NOTED

STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED DRYWALL OPENING. HEIGHT AS NOTED ON PLAN.

KEY NOTES FOR NORTH CAROLINA:

8" BOX — COLUMN SOFFIT — SEE EXT ELEV

FIRE PROTECTION:

HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (I) LAYER I/2" GYPSUM BOARD, (PER NCRC TABLE R302.6.) 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.)

3 BENEATH STAIRS AND LANDINGS, 1/2" GYPSIM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS, (PER NCRC SECTION 87802.1) IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.II MEP'S

FAU 8'X8' PLATFORM, VERIFY WITH TRUSS MANUFACTURER.
(6'-6" MIN. CLEAR HEIGHT TO HORIZONTAL MEMBERS,
2"X6" OVER 2"X4" BOTTOM CHORD. OF TRUSS, VERIFY W TRUSSES.)

10'x12' Concrete Patio

3'x3' CONC STOOP

5068 SGD PER COMMUNITY

+36" ISLAND

∟pdr 8°-1" clg

-foyer

porch

garage

16070 SECTIONAL

19'-8"

7'-4"

(2) 3050 9

great rm

FLOOR ABV-\

SEE STAIRS AT OPT BASEMENT AT LEFT

SEE OPTIONAL STUDY ILO FLEX AT LEFT

flex

8'-1" clg

(2) 3050 SH 51-3

Ist Floor Plan 'E'

CARPET HWD

10'-0"

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.

12 INTERIOR SOFFITS: FFL = θ '-I" U.N.O. SFL = 7'- θ " U.N.O. BATHS:

— BRICK VENEER SEE EXT ELEV

3 SHOWER, TEMPERED GLASS ENCLOSURE.

14 TUB-SHOWER COMBO. TEMPERED GLASS ENCLOSURE.

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.

 30" GAS COOKTOP AND HOOD.

VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 19 ELECTRIC OVEN WITH MICROWAVE OVEN.

March 06, 2023

4 E



SEE DECK AT OPT BASEMENT AT LEFT

kitchen

6

6'-4"

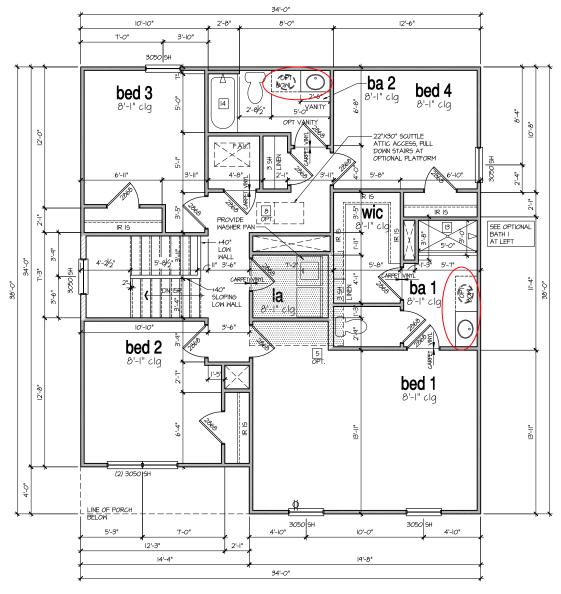
FOR CONSTRUCTION



PROJECT NO: GMD17049

'BELHAVEN' 1st FLOOR PLAN '4EPF-E'

PRINT DATE:



2nd Floor Plan 'E'



FOR CONSTRUCTION

NO: DATE: REVISION: 03.06.23

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

PROJECT NO: GMD17049

'BELHAVEN'

2nd FLOOR 3 SHOWER, TEMPERED GLASS ENCLOSURE. 14 TUB-SHOWER COMBO. TEMPERED GLASS ENCLOSURE. PLAN '4EPF-E' 15 CERAMIC TILE SHOWER AND FLOOR, TEMPERED GLASS ENCLOSURE.

6 ACRYLIC TUB W CERAMIC PLATFORM KITCHEN:

12 INTERIOR SOFFITS: FFL = θ '-I" U.N.O. SFL = 7'- θ " U.N.O.

BATHS:

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

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VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 19 ELECTRIC OVEN WITH MICROWAVE OVEN.

PRINT DATE:

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5 E

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15 RISERS AT +/- 7.45" = III 3/4" TOTAL

RISE VERIFY

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ALL DIMENSIONS TO WINDOWS AND DOORS ARE TO CENTERLINE.

WALL LEGEND:

FULL HEIGHT 2X4 WOOD STUD PARTITION

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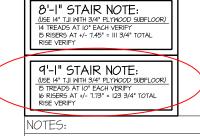
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TEMPERED SAFETY GLASS. (PER NORC SECTION 308.4)

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

II HALF WALL, HEIGHT AS NOTED.



- REFER TO FLOOR PLAN NOTES FOR TYPICAL FIRE PROTECTION NOTES AND LOCATIONS.
- THESE BUILDING SECTIONS MAY YAR" 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 VOLUMA SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS, TRUSS DRAWINGS, STRUCTURAL DETAILS AND CALCULATIONS BY OTHER FOR ALL STRUCTURAL INFO.

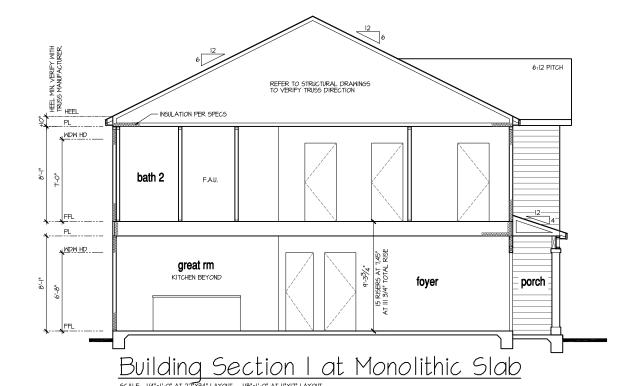
 - ROOFING: PITCHED SHINGLE ROOF, REFER TO ROOF PLAN FOR TYPICALS.

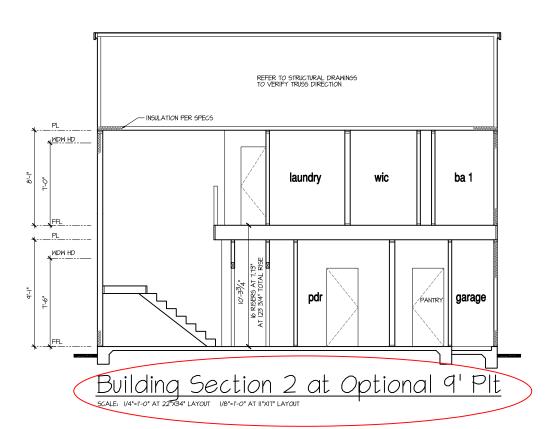
PER STATE RESIDENTIAL CODE COMPLIANCE METHOD TO BE DETERMINED BY BUILDER.

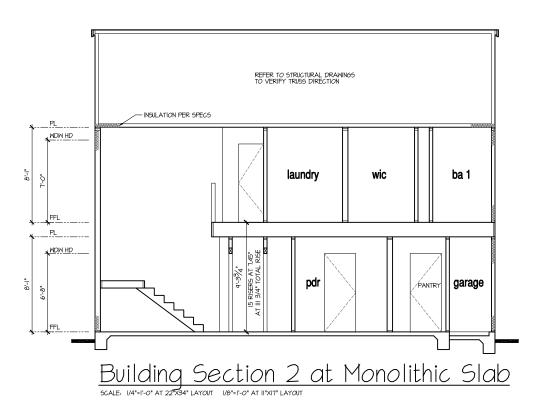
- MOOD FLOORS: FLOOR SHEATHING OVER FLOOR JOIST, REFER TO STRUCTURAL AND TRUSS DRAWINGS BY OTHERS.
- VERIFY STAIRS MINIMUM AND MAXIMUM REQUIREMENTS FOR CONSTRUCTION CLEARANCES WITH LOCAL CODES.
- INSULATION:

- INSULATION.
 EXTERIOR MALLS ZONE 3. R-13 BATTS MINIMUM. VERIFY EXTERIOR WALLS ZONE 4. R-15 BATTS MINIMUM. VERIFY CEILING WITH ATTIC ABOVE COMPRESSED INSULATION.
 R-36 BATTS MINIMUM. VERIFY CEILING WITH ATTIC ABOVE UNCOMPRESSED INSULATION (HEELS IN TRUSSES).
 R-30 BATTS MINIMUM. VERIFY
- FLOOR OVER GARAGE: R-I9 BATTS MINIMUM, VERIFY
- ATTIC KNEEWALL: R-I9 BATTS MINIMUM, VERIFY
 CRAWL SPACE FLOORING: R-I9 BATTS MINIMUM, VERIFY

WINDOW GLAZING "U" FACTOR: 0.35







NO: DATE: REVISION:

03.06.23 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:

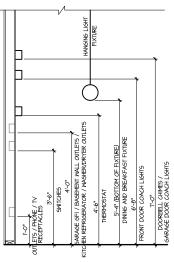


PROJECT NO: GMD17049

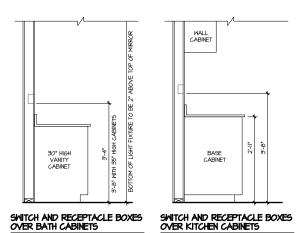
'BELHAVEN' **BUILDING SECTIONS**

March 06, 2023

1A S



STANDARD ELECTRICAL BOX HEIGHTS

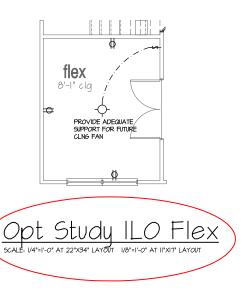


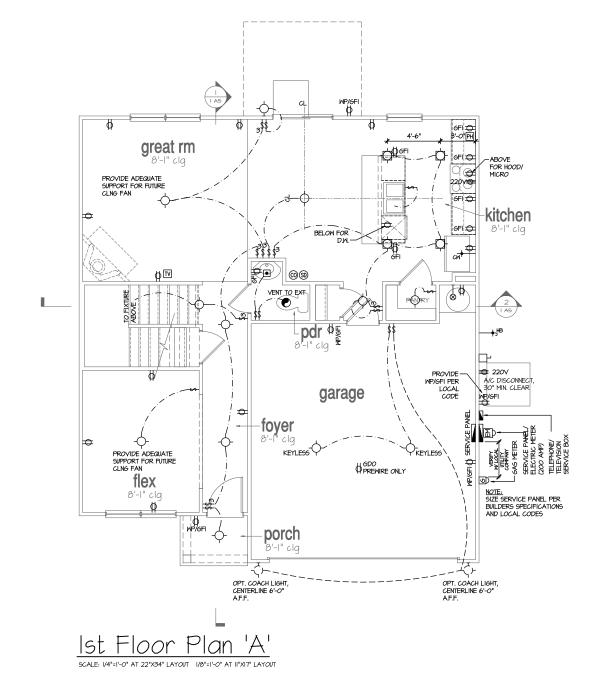
NOTES:

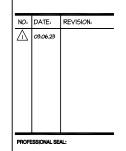
- PROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES.
- PROVICE ORGANIZATION ELECTRICAL NAP FLIX LOOPE.

 PROVICE AND INSTALL ASC FAULT CIRCUIT-INTERRUPTERS (AFCI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- ALL EXHAUST FANS SHALL HAVE BACKDRAFT DAMPERS.
- FAN/LIGHTS IN WET/DAMP LOCATIONS SHALL BE LABLED "SUITABLE FOR WET OR DAMP LOCATIONS."
- ELECTRICAL SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT.
- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRIPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
- HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
- 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.

LEGEND:					
ф	DUPLEX OUTLET	-ф-	FLUSH-MOUNT LED CEILING FIXTURE		
ØwP/GFI	WEATHERPROOF GFI DUPLEX OUTLET	Ψ	TEST TOWN EED OFFICE TOWN		
∯ 6FI	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX CUTLET	-ф-	HANGING FIXTURE		
φ	HALF-SWITCHED DUPLEX OUTLET	\$	FLUSH-MOUNT LED CEILING FIXTURE		
Ф 220∨	220 VOLT OUTLET	CFP"	(PROVIDE CEILING FAN SUPPORT)		
0	REINFORCED JUNCTION BOX	-ф	2-LIGHT VANITY FIXTURE		
\$	WALL SMITCH	-3	3-LIGHT VANITY FIXTURE		
\$ 3	THREE-WAY SWITCH				
\$4	FOUR-WAY SMITCH		4-LIGHT VANITY FIXTURE		
CH	CHIMES	\(\rightarrow \)	WALL MOUNT FIXTURE		
Ŧ	PUSHBUTTON SWITCH	•	EXHAUST FAN (VENT TO EXTERIOR)		
99	IIOV SMOKE DETECTOR W BATTERY BACKUP	\$	CEILING FAN		
0	CO2 DETECTOR		(PROVIDE ADEQUATE SUPPORT)		
(T)	THERMOSTAT		GAS SUPPLY HITH VALVE		
PH	TELEPHONE	- TO SOUTH AND AND A			
ΤV	TELEVISION	→ _{HB}	HOSE BIBB		
	ELECTRIC METER	-+-w	1/4" MATER STUB OUT		
-	ELECTRIC PANEL	u · cn	at retiant prop out		
4	DISCONNECT SWITCH	1 ⊀	WALL SCONCE		







PROJECT TITLE:

40' Series

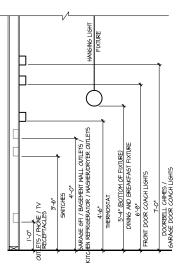
FOR CONSTRUCTION



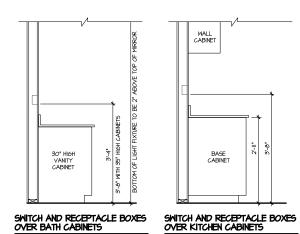
PROJECT NO: GMD17049

'BELHAVEN' 1st FLOOR **UTILITY PLAN**

PRINT DATE: March 06, 2023



STANDARD ELECTRICAL BOX HEIGHTS

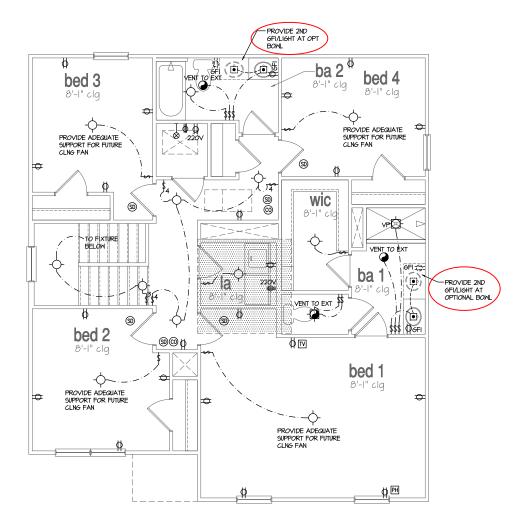


NOTES:

- 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.
- ALL EXHAUST FANS SHALL HAVE BACKDRAFT DAMPERS.
- FANLIGHTS IN WET/DAMP LOCATIONS SHALL BE LABLED "SUITABLE FOR WET OR DAMP LOCATIONS."
 ELECTRICAL SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT.
 PROVIDE AND INSTALL LOCALLY CERTIFIED SYCKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (MPPA) AND MEDING THE REQUIREMENTS OF ALL GOVERNING CODES.
- PROVIDE AND INSTALL LOCALLY CERTIFIED SHOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NPPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODE
 PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRIPTERS (GPI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
- HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
- 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.
- PROVIDE POWER, LIGHT AND SMITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

1.3	F.	6	FI	M	
\perp	\Box	U	\Box	N	V

LEGEND:				
ф	DUPLEX OUTLET	-φ-	FLUSH-MOUNT LED CEILING FIXTURE	
Фир/6FI	WEATHERPROOF GFI DUPLEX OUTLET	Ψ_	TEDST-FOOM EED CELEING FIXTURE	
∯ 6FI	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET	-ф-	HANGING FIXTURE	
ф	HALF-SWITCHED DUPLEX OUTLET	Δ,	FLUSH-MOUNT LED CEILING FIXTURE	
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0	REINFORGED JUNCTION BOX	-\$	2-LIGHT VANITY FIXTURE	
\$	WALL SMITCH	-3	3-LIGHT VANITY FIXTURE	
\$ 3	THREE-WAY SWITCH			
\$4	FOUR-WAY SWITCH	-\$	4-LIGHT VANITY FIXTURE	
CH	CHIMES	\(\rightarrow \)	WALL MOUNT FIXTURE	
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99	IIOV SMOKE DETECTOR W BATTERY BACKUP	A	CEILING FAN	
00	CO2 DETECTOR		(PROVIDE ADEQUATE SUPPORT)	
(T)	THERMOSTAT	⊢ ⊗	GAS SUPPLY WITH VALVE	
PH	TELEPHONE	<u> </u>		
TV	TELEVISION	— ₩	HOSE BIBB	
	ELECTRIC METER	-+ _{CW}	I/4" WATER STUB OUT	
	ELECTRIC PANEL	N N	91 78 (EX 5105 001	
-	DISCONNECT SWITCH	- X	WALL SCONCE	



2nd Floor Plan 'A'



PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME



PROJECT NO: GMD17049

SHEET TITLE:

'BELHAVEN' 2nd FLOOR UTILITY PLAN

PRINT DATE: March 06

March 06, 2023

3

DESIGN SPECIFICATIONS:

Construction Type: Commerical \square Residential \boxtimes

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

ASCE 1-IØ: Minimum Design Loads for Buildings and Other Structures

Design Loads: Roof Live Loads Conventional 2x Truss _ .. 20 PSF 12.I. Attic Truss 2. Roof Dead Loads 10 PSF 2.1. Conventional 2x

3.1. Importance Factor . Typ. Dwelling
 Sleeping Areas . 30 PS 4.3. Decks

4.4. Passenger Garage _ 5Ø PSF 5 Floor Dead Loads Conventional 2x 5.2. I-Joist 15 PSF 53 Floor Truss 6. Ultimate Design Wind Speed (3 sec. gust)

6.1. Exposure 62. Importance Factor_ 63. Wind Base Shear 6.3.l. Vx =

6.32.Vy =

Component and Chadding (III) G					
MEAN ROOF HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'	
ZONE 1	16.7,-18.0	17.6,-18.9	18.3,-19.7	18.8,-20.2	
ZONE 2	16.7,-21.0	17.6,-22.1	18.3,-22.9	18.8,-23.6	
ZONE 3	16.7,-21.0	17,6,-22,1	18.3,-22.9	18.8,-23.6	
ZONE 4	18.2,-19.0	19.2,-20.0	19.9,-20.8	20.4,-21.3	
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.2	20.4,-26.9	

8.1. Site Class . 85. Spectral Response Acceleration

8.5.1. Sms = %g 8.5.2. Sml = %g 8.6. Selsmic Base Shear

8.62.Vy = 8.7. Basic Structural Sustem (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 Wind ⊠

8.9. Lateral Design Control: Seismic

9. Assumed Soil Bearing Capacity

- Any fill shall be placed under the direction or recommendation of a licensed professional engineer.
 The resulting soil shall be compacted to a minimum of 95%
- within 24 hours of excavation. No concrete shall be placed against any subgrade containing
- 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

- rust-inhibitive paint.
- otherwise noted. Welding shall conform to the latest edition of the American

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. 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

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

purposes of these construction documents the SER and SUMMIT

alter, or delete any structural aspects of these construction

documents without written permission of SUMMIT Engineering, Laboratory & Testing, INC. (SUMMIT) or the SER. For the

or techniques in connection with the construction of this

should any non-conformities occur.

structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents.

Any structural elements or details not fully developed on the

any structural elements or details not may experience on me construction drailings shall be completed under the direction of a licensed professional engineer. These shop drailings shall be submitted to SUMMIT for review before any construction begins. The shop drailings will be reviewed for overall compliance as it.

- construction begins.

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

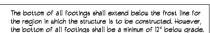
 This structure and all construction shall conform to all
- applicable sections of the international residential code.
 This structure and all construction shall conform to all
- applicable sections of local building codes.

 All structural assemblies are to meet or exceed to requirements of the current local building code.

FOUNDATIONS:

GENERAL STRUCTURAL NOTES:

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.



- maximum dry density.

 Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur
- water, ice, frost, or loose material

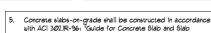
STRUCTURAL STEEL:

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

- All steel shall have a minimum yield stress (F₄) of 36 ksi unless
- 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

- CONCIE:

 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 +2% 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.



Construction". 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 cacking 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'-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 forcing steel may not extend through a control joint.

Reinforcing steel may extend through a saw cut joint.

All welded wire fabric (WWF.) for concrete slabs-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.
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 Clilic, any local building code
requirements, and shall meet or exceed the current industry standard.

Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.

ABIT ABID, 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 uall 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

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.

A Universal Engineering Sciences Company

BELHAVEN

These drawings are to be coordinated with the architectural, mechanical, plumbing Interest drawings are to be contributed with the architectural, intercentical, 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 4 Testing, INC. before construction begins.

OWNER:

DR Horton, Inc.

8001 Arrowridge Blvd. Charlotte, NC 28273

PT PRESSURE TREATED

RS ROOF SUPPORT

SC STUD COLUMN

SJ SINGLE JOIST

TJ TRIPLE JOIST

TYP TYPICAL

PSF POUNDS PER SQUARE FOOT UNO UNLESS NOTED OTHERWISE

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

PSI POUNDS PER SQUARE INCH | WUF WELDED WIRE FABRIC

SPE SPRUCE PINE FIR

SST SIMPSON STRONG-TIE

TSP TRIPLE STUD POCKET

SYP SOUTHERN YELLOW PINE

PROJECT ADDRESS

GMD Design Group

PLAN ABBREVIATIONS: AB ANCHOR BOLT

CJ CEILING JOIST

DJ DOUBLE JOIST

EE EACH END

EW EACH WAY NTS NOT TO SCALE

OC ON CENTER

CLR CLEAR

AFF ABOVE FINISHED FLOOR

DSP DOUBLE STUD POCKET

102 Fountain Brook Circle Cary, NC 27511

DESIGNER:

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 psi

2.3.Fv = 285 psi 2.4.Fc = 700 psi

Wood in contact with concrete, masorry, 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 conform to ANSI/ASME standard Bi82.1-1981. 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.

State for and load bearing stud walls are to be 2x4 SYP $^{\circ}$ 2 $^{\circ}$ 6 b. 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.

Ring stude shall be continuous. Individual stude forming a column shall be attached with one lod 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. Multi-ply beams shall have each ply attached with (3) lod nails = 340.000.

10. Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered • 16" O.C. unless noted otherwise.

Sheet No.	Description	
CSI	Cover Sheet, Specifications, Revisions	
51.Øm	Monolithic Slab Foundation	
51.Øs	Stem Wall Foundation	
51.Øc	Crawl Space Foundation	
51.Øb	Basement Foundation	
52.Ø	Basement Framing Plan	
53.Ø	First Floor Framing Plan	
54.Ø	Second Floor Framing Plan	
55.Ø	Roof Framing Plan	
56.Ø	Basement Bracing Plan	
57.Ø	First Floor Bracing Plan	
58.Ø	Second Floor Bracing Plan	

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58.Ø	Second Floor Bracing Plan	

REVISION LIST:

Revision No.	Date	Project No.	Description
1	8.14.19	22199R	Created Knox County and TN sets
2	11.5.21	Ø528.TØ165	
3	1.11.23	TØ165	Updated Structural Plans per New Architectural Plans
4	Ø3.14.23	10165	Created NC Plans per New Architectural Plans

he 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 shall be designed for all required loadings

(ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all

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

as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures."

other construction documents and provisions provided for

accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design

Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both

Also, the shop drawings shall show the required attachments

Decks are to be framed in accordance with local building

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

temporary and permanent, shall be shown on the shop drawings.

Any chords or truss webs shown on these drawings have been

shown as a reference only. The final design of the trusses shall

codes and as referenced on the structural plans, either through

Fabrication and placement of structural wood sheathing shall be

Specification for Metal Plate Connected Blood Trusse The truss manufacturer shall provide adequate bracing

information in accordance with "Commentary and

WOOD TRUSSES:

the wood trusses.

be per the manufacture

ILLOOD STRUCTURAL PANELS

EXTERIOR WOOD FRAMED DECKS:

DR HORTON PROJECT SIGN-OFF:

Manager	Signature
Operations	
Operations System	
Operations Product Development	

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.

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, We

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 I

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 fleid 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 T4G plywood or lumber blocking unless

otherwise noted. Panel end joints shall occur over framing.

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.

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

Apply building paper over the sheathing as required by state Building Code. Sheathing shall have a 1/8" gap at panel ends and edges as

inded in accordance with the APA.

STRUCTURAL FIBERBOARD PANELS:

Roof sheathing shall be continuous over till supports and attached to its supporting roof framing with (1)-8d CC nail at

SUMMIT



CLIENT: DR Horton, Inc. 8001 Arrounidge Blvc Charlotte, NC 28213



HATION DATE 4/9/08

SCALE: 22:04 W*-1-6* PROJECT 9 6008/1696 DRAIN BY: BO CARCIGID BY, JOSE

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

CS1

FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AND STATE AMENDMENTS
- STAILE AMENDMENTS.

 STRUCTURAL CONCRETE TO BE Fo. = 3000 P61, PREPARED AND PLACED IN ACCORDANCE WITH ACT STANDARD 318,

 FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF
- IZ" BOLINGS TO BE PLEASED ON WINDSTRUCED EARTH, BEARING A TINNI IN TOP

 IZ" BOLIO ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE

 CODE ENFORCEMENT OFFICIAL.

 4. FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF
- 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
- FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS, PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF
- 6 MAXIMUM DEPTH OF UNBAI ANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS,
- PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE. 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- VENEERS. CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIG.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16. MINIMIM 1/2" DIA BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE, MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION AND (1) LOCATED NOT MORE THAN 12" FROM THE CORNER ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- ABBREVIATIONS:

SC = STUD COLUMN TJ = TRIPLE JOIST CL = CENTER LINE FT = FLOOR TRUSS EE = EACH END OC = ON CENTER EW = EACH WAY PL = POINT LOAD

- 14. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICAL. (UNO)
 WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.
- 16. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENSINEER OR HIS QUALIFIED
 REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR
 POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING LABORATORY 4 TESTING, INC. MUST BE PROVIDED THE OPPORTUNITY REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- ALL FOOTINGS 4 SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS. ADDITIONAL INFORMATION PER SECTION R602.10.8 AND FIGURE R602 IO.T OF THE 2018 NORC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER, UNO

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON
WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R405.1

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR HORTON
COMPLETED/REVISED ON 03/06/2023, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING Inc. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

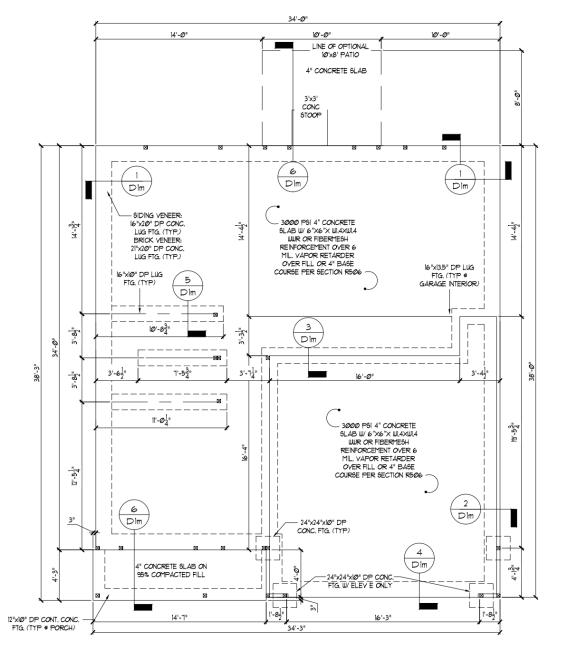
STRUCTURAL MEMBERS ONLY

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, INC. 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"



ELEVATIONS D, E, F





CLIBNT: DR Horton, Inc. 8001 Amountage Blyc Charlotte, NC 28213

Idati Slab O PROJECT: BELHAVEN RH Monolithi



8CALE 22:54 W-1-6" BdT W-1-6" PROJECT 9 6008/1696 DRAME BY: BO CHECKED BY: JOSP ORIGINAL INFORMATION
PROJECT P DATE
22100 4/0/2010

PETER TO COVER SHEET FOR A CONFILETE LIST OF REVISIONS

S1.lm

OR EQUIVALENT PER TABLE R1023.5

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2018
- NORTH CAROLINA REGIDENTIAL CODE WITH ALL LOCAL AND STATE AMENDMENTS. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS UP TO
- REFER TO ARCHITECTURAL PLAN FOR DOORWINDOW OPENING SIZES, BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R602104
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED IN FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINIMUM PANEL LENGTH SHALL BE PER TABLE R602/05.
 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.
- 10. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH END OF A
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 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 R602.10.9 OF THE 2018 NORC.
 BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN
- ACCORDANCE WITH SECTION R602.10.8
- BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.1082
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN
- ACCORDANCE WITH SECTION REØ2/Ø/II
 PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6Ø2/06.4
- ABBREVIATIONS:

GB = GYPSUM BOARD CS-XXX = CONT. SHEATHED PF = PORTAL FRAME

WSP = WOOD STRUCTURAL PANEL ENG = ENGINEERED SOLUTION PF-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 THIS PLAN.
 CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION. PROPERTIES USED IN THE DESIGN ARE AS FOLLOUS:
 MICROLLAM (LVL.): Fig. = 12600 PSI, Fig. = 128 PSI, E = 19x10⁶ PSI
 PARALLAM (PSI.): Fig. = 12900 PSI, Fig. = 290 PSI, E = 125x10⁶ PSI
 ALL WOOD MEMBERS SHALL BE 7. SYP UNLESS NOTED ON PLAN. ALL
 STUD COLUMNS AND JOISTS SHALL BE 7. SYP (UND).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 12 SYP STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO
- ASTM AGIS AND SHALL HAVE A MINIMUM COVER OF 3".
 CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- FELTICH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA, THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3f. MIN. EDGE DISTANCE SHALL BE 2" 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'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" 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 03/06/2023, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING Inc. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

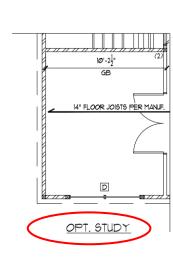
STRUCTURAL MEMBERS ONLY

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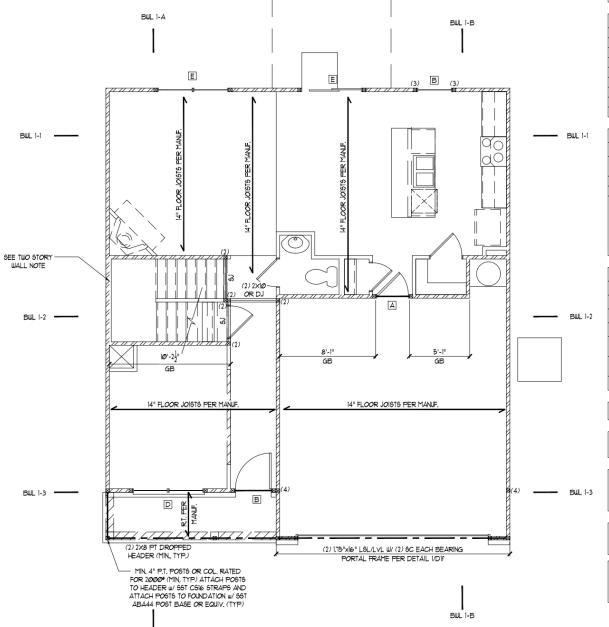
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

9CALE: 1/4"=1"-@" ON 22"x34" OR 1/8"=1"-@" ON 11"x17"



NOTE: BRACING PLAN DOES NOT



BWL 1-A

FIRST FLOOR BRACING (FT)					
CONTINUOUS SHEATHING METHOD - ALL ELEVATIONS					
REQUIRED PROVIDED					
BWL 1-1	7.6	19.8			
BWL 1-2	7.6	11,6			
BWL 1-3	7.6	10.4			
BWL I-A	9.4	34 <i>Ø</i>			
BWL 1-B 9.4 38.0					

HEADER SCHEDULE						
TAG	SIZE	JACKS (EACH END)				
A	(2) 2x6	(1)				
В	(2) 2x8	(2)				
С	(2) 2x1Ø	(2)				
D	(2) 2xl2	(2)				
E	(2) 9-1/4" L5L/LVL	(3)				
F	(3) 2x6	(1)				
G	(3) 2x8	(2)				
H	(3) 2xlØ	(2)				
	(3) 2x12	(2)				

NOTES: I. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION. 2. ALL HEADERS TO BE DROPPED (UN.O.).
3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD

COLUMNS LISTED ABOVE (UNO.).

	KING STUD	SCHEDULE
1	MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.
	4'-Ø"	(1)
	6'-0"	(2)
	8'-0"	(2)
	Iع-Ø"	(3)
	12'-Ø"	(3)
	14'-0"	(3)
	16'-0"	(4)
	8'-Ø"	(4)

	WALL STUD SCHEDULE (10 FT HEIGHT)				
I	STUD SIZE		STUD SPACING (O.C.)		
		ROOF ONLY	ROOF ≰ 1 FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING
I	2×4	24"	16"	12"	24"
I	2x6	24"	24"	16"	24"

BRACED WALLS STUDS SHALL BE A MAX OF 16" OC. 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" 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	L5x3xl/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 LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED ® 16" O.C. (TYP FOR)				

ALL HEADERS WHERE BRICK IS USED, TO BE: (UNO) 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 MOISTURE INTRUSION.

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

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCRC.







 Q_{J} PROJECT BELHAVE First



SCALE 22:54 1/4"-1"-6" 16/1 1/6"-1"-6" PROJECT 9 60087616 DRAME BY: BO

PETER TO COVER SHEET FOR A CONFILETE LIST OF REVISIONS

S3.2

REQUIRED BRACED WALL PANEL CONNECTIONS					
			REQUIRED CONNECTION		
METHOD	MATERIAL	MIN. THICKNESS	# PANEL EDGES	# INTERMEDIATE SUPPORTS	
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 9 6" O.C.	6d COMMON NAILS 9 12" O.C.	
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** © 7" O.C.	5d COOLER NAILS** 9 T" O.C.	
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 9 6" O.C.	6d COMMON NAILS 9 12" O.C.	
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4	
"OR EQUIVALENT PER TABLE RT02.35					

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
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
 BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
- TABLE R602.10.4
- 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 R602/05.
 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.
- 10. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH END OF A
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 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 R602.10.9 OF THE 2018 NCRC.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8
- ACCORDANCE WITH SECTION REGIZIONS
 18. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGIZIONS
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN
- ACCORDANCE WITH SECTION R602.10.11

 16. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.106.4 (UNO)
- IT. ABBREVIATIONS:

GB = GYPSUM BOARD WSP = WOOD STRUCTURAL PANEL C5-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
- 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 THIS PLAN.
 CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING.
- REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION. PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS: PROTERTIES USED IN THE DESIGN AIRE AS POLICULOUS:

 **MICROLLAM (LYL.): F₀ = 2600 PSI, F₇ = 285 PSI, E = 13×10⁶ PSI

 PARALLAM (PSL): F₀ = 2900 PSI, F₇ = 290 PSI, E = 125×10⁶ PSI

 ALL WOOD MEMBERS SHALL BE 12 SYP UNLESS NOTED ON PLAN. ALL
- STUD COLUMNS AND JOISTS SHALL BE \$2 SYP (UNO). ALL BEAMS 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 AGIS AND SHALL HAVE A MINIMUM COVER OF 3".
 CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN
- PERPENDICULAR TO RAFTERS
- FENTENDICLAR ID RAFIERO.

 FLITCH BEAMS, 4-PLY LV.6 AND 3-PLY SIDE LOADED LV.6 SHALL BE BOLTED TOGETHER WITH 1/2" DIA, THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3f. MIN. EDGE DISTANCE SHALL BE 2" 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 *2. DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" 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 <u>DR HORTON</u>
COMPLETED/REVISED ON <u>03/06/2023</u>, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, Inc. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

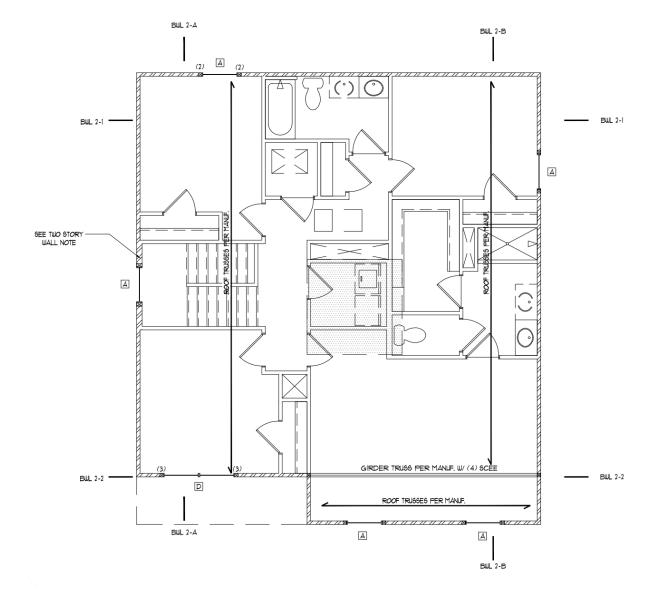
STRUCTURAL MEMBERS ONLY

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, INC. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN

SCALE: 1/4"=1"-@" ON 22"x34" OR 1/8"=1"-@" ON 11"x1T"



ELEVATIONS D, E, F,

SECOND	SECOND FLOOR BRACING (FT)				
CONTI	NUOUS SHEATHING M	ETHOD			
REQUIRED PROVIDED					
BWL 2-1	5.2	31.00			
BWL 2-2	5.2	22.00			
BWL 2-A	4.5	27.Ø			
BWL 2-B	45	35.0			

SECOND FLOOR BRACING (FT)				
CONTINUOUS SHEA	CONTINUOUS SHEATHING METHOD - OPT OWNERS BATH			
	REQUIRED PROVIDED			
BWL 2-1	5.2	31.00		
BWL 2-2	5.2	22.00		
BWL 2-A	4.5	27.Ø		
BWL 2-B	45	35.Ø		

HEADER SCHEDULE				
TAG	SIZE	JACKS (EACH END.		
A	(2) 2x6	(1)		
В	(2) 2x8	(2)		
С	(2) 2x1Ø	(2)		
D	(2) 2x12	(2)		
E	(2) 9-1/4" LSL/LVL	(3)		
F	(3) 2x6	(1)		
G	(3) 2x8	(2)		
Н	(3) 2xlØ	(2)		
1	(3) 2v12	(2)		

COLUMNS LISTED ABOVE (UN.O.)

NOTES: 1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION. 2 ALL HEADERS TO BE DROPPED (LING) 3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD

KING STUD	SCHEDULE
MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.
4'-Ø"	(1)
6'-0"	(2)
8'-Ø"	(2)
10"-0"	(3)
12"-Ø"	(3)
14'-Ø"	(3)
16'-0"	(4)
18"-Ø"	(4)

	WALL	STUD SCI	HEDULE	(1Ø FT ⊢	EIGHT)
STUD SIZE STUD SPACING			CING (O.C.)		
		ROOF ONLY	ROOF & 1 FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING
	2x4	24"	16"	12"	24"
	2x6	24"	24"	16"	24"

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

3. TIMO STORY WALLS SHALL BE FRAMED W/ 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	
①	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	
CECUPE I NITE	1 to UE ADED (/2) (/2)	DIAMETERIAG	

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: (1) (UNO)

SHADED WALLS INDICATED LOAD BEARING WALLS

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

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

NOTE:

DESIGNATES JOIST SUPPORTED LOAD BEARING 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

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.8 \$ FIGURE R602.10.7 OF THE 2018

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





CLIENT: DR Horton, Inc. 8001 Amountage Blyc Charlotte, NC 28213

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SCALE 22:04 W-1-6" PROJECT 9 60087616 DRAIN BY: BO CARCIGID BY, JOSE TATION DATE 4/2/2019

REFER TO COVER SHEET FOR A CONFILETE LIST OF REVISIONS

S4.1

TRUS5	TRUSS UPLIFT CONNECTOR SCHEDULE				
MAX, UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND		
600 LBS	H2.5A	PER WALL SHEATHIN	NG 4 FASTENERS		
1200 LBS	(2) H2.5A	C916 (END = 11")	DTT2Z		
145Ø LBS	HT52Ø	C916 (END = 11")	DTT2Z		
2000 LBS	(2) MT52Ø	(2) CSI6 (END = 11")	DTT2Z		
2900 LBS	(2) HTS2Ø	(2) C516 (END = 11")	HTT4		
3685 LBS	LGT3-5D52.5	MSTC52	HTT4		

I 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 MEMBERS.

3. REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTOR'S SPECIFIED BY TRUSS MANUFACTURER OCCUPIED TUCKET LISTED AREA STRONG 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 6HED ROOF FRAMING REQUIREMENTS, (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLIFI LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R802.III.I. WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFI LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.35 OF THE 2018 NCRC. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR HORTON COMPLETED/REVISED ON 03/06/2023. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT BUSINEERING, LABORATORY 4 TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. CANNOT GLIARANTEE THE ADEQUACY OF THE PROTECTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY. OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

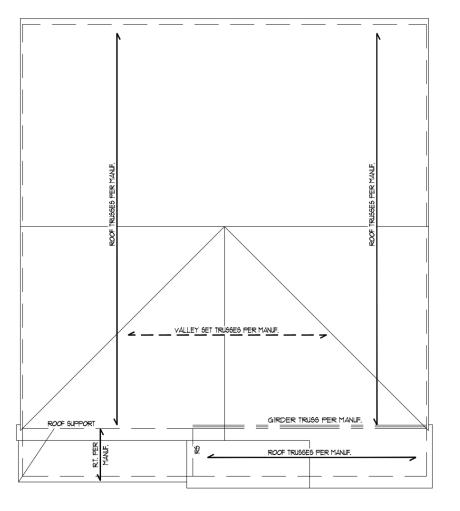
STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN

SCALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x1"



ROOF PLAN ELEVATIONS D, E, F





Plan Ø **₽** Frami



8CALB 22:54 147-17-6* BdT 167-17-6* PROJECT 9 6808.T6968 DRAIN BY: BO CHECKED BY: JOSE CRIGINAL INFORMATION
PROJECT * DATE
2750 4/0/2015

REFER TO COVER SHEET FOR A CONFILETE LIST OF REVISIONS

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 Loa	105:	
1. ₹	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.l. Conventional 2x1	Ø PSF
	2.2. Truss2	20 PSF
3. S	now1	5 PSF
	3.l. Importance Factor1	.Ø
4. F	loor Live Loads	
	4.1. Typ. Dwelling	4Ø PSF

4.2. Sleeping Areas ... 40 PSF 4.3. Decks . 4.4. Passenger Garage .. .50 PSF 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

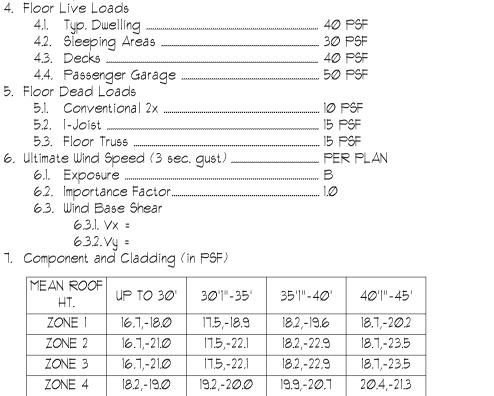
8.6.1. Vx = 8.7. Basic Structural System (check one)

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
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</u>, <u>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:

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.IT		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

- 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 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 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. 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.

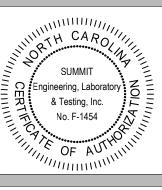
- 3. Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
- 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 I 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.

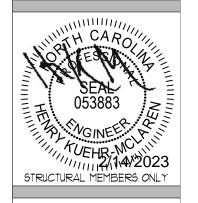
STRUCTURAL FIBERBOARD PANELS:

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 120 PENMARC DR., SUITE 108 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 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

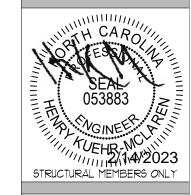
STANDARD - SIDING

6 PATIO SLAB DETAIL

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& Testing, Inc.

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



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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

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PER PLAN CONTINUOUS

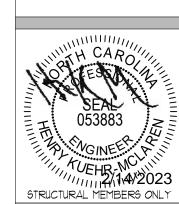
4 TALL SLAB DETAIL W/ SIDING

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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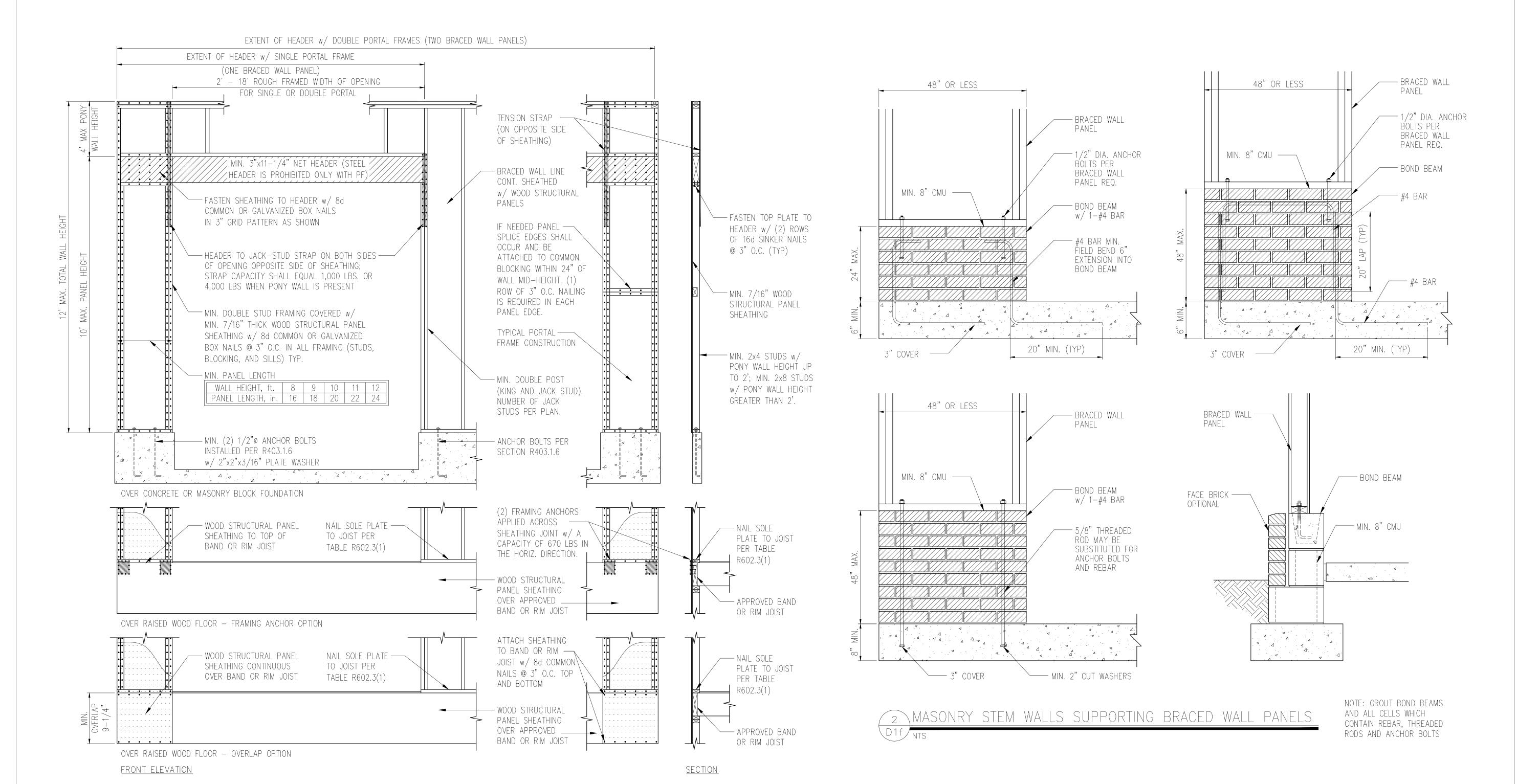


DRAWING DATE: Ø2/14/2Ø23 PROJECT *: 528-06R DRAWN BY: JCEF CHECKED BY: BCP

> ORIGINAL INFORMATION PROJECT • DATE 1/31/2017

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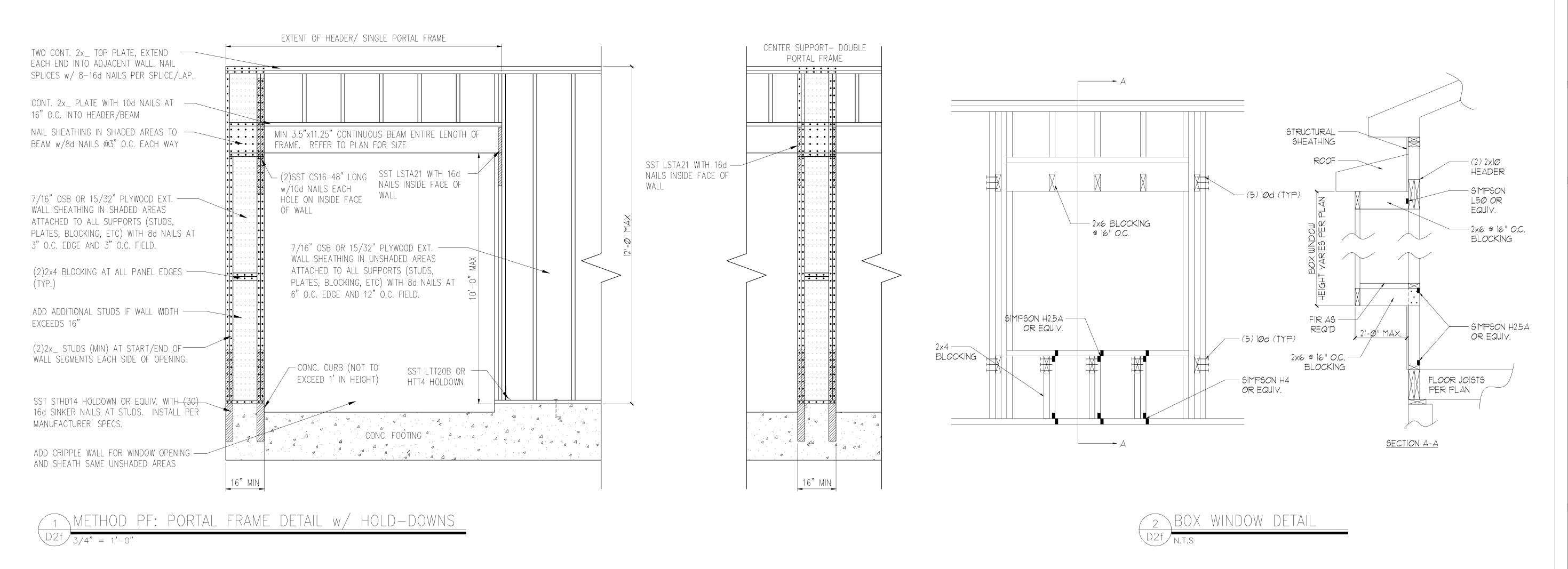


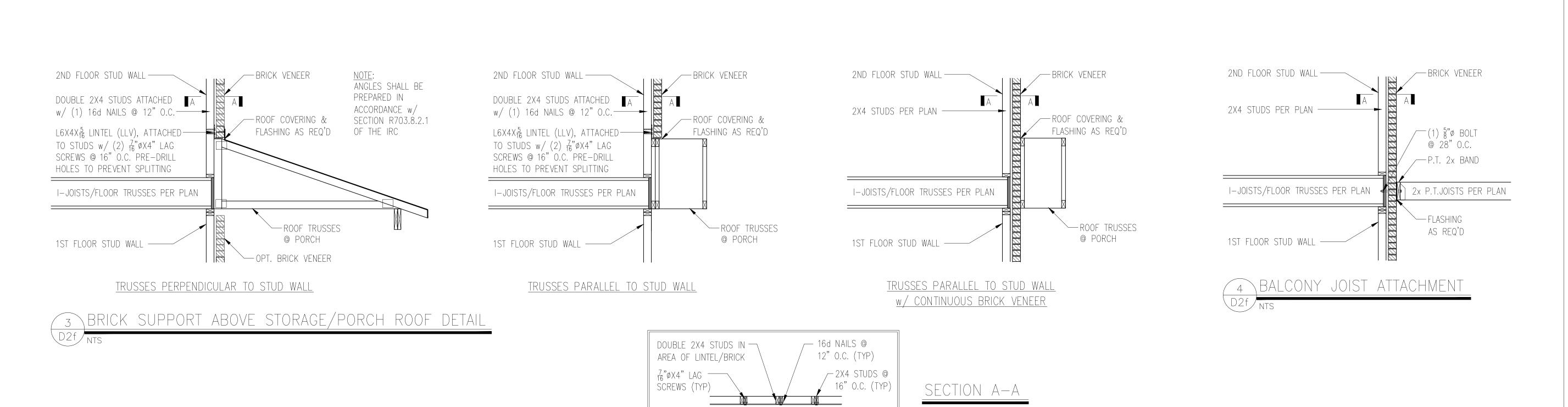
DRAWING DATE: Ø2/14/2Ø23 SCALE: 22x34 1/4"=1'-0" ||x|7 ||/8"=1'-0" PROJECT *: 528-06R DRAWN BY: JCEF CHECKED BY: BCP

ORIGINAL INFORMATION

PROJECT • DATE 1/31/2017

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

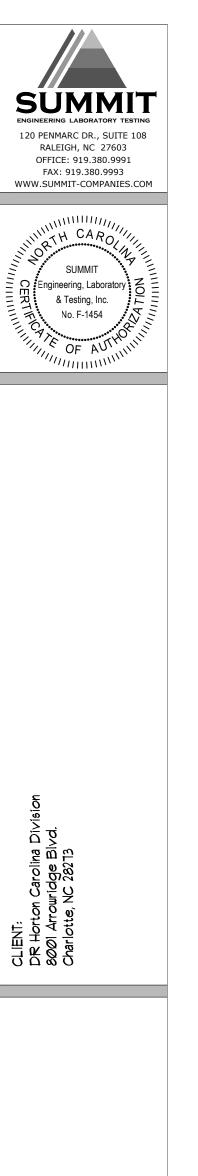




 $L6X4X_{\overline{16}}^{5}$ LINTEL (LLV), ATTACHED

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

HOLES TO PREVENT SPLITTING



ille (0x-15) □@ţâ||5

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STRUCTURAL MEMBERS ONLY

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

PROJECT • DATE 1/31/2017

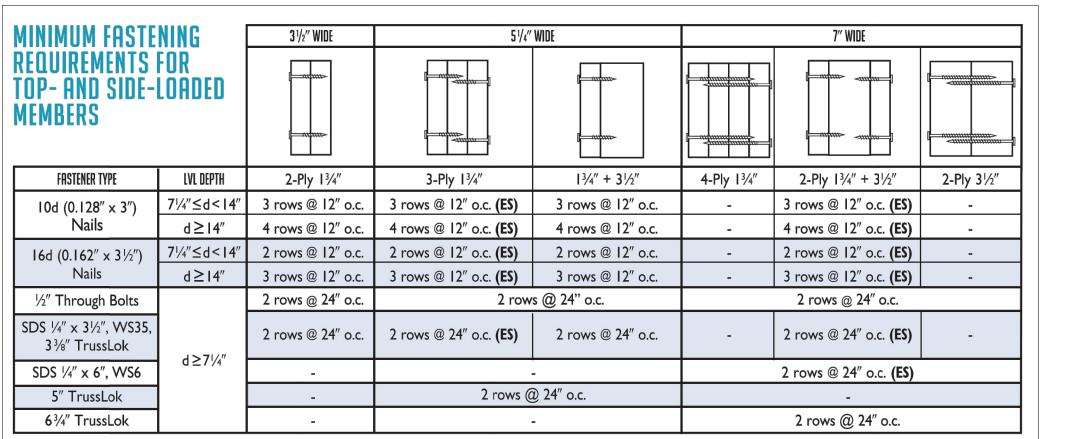
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

DRAWING

DATE: Ø2/14/2Ø23

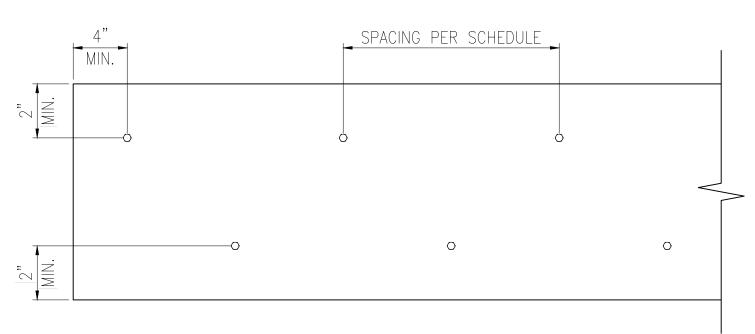
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CHECKED BY: BCP

ORIGINAL INFORMATION



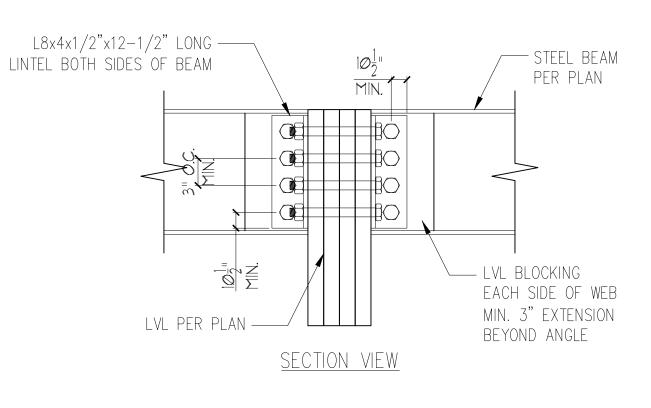
NOTES:

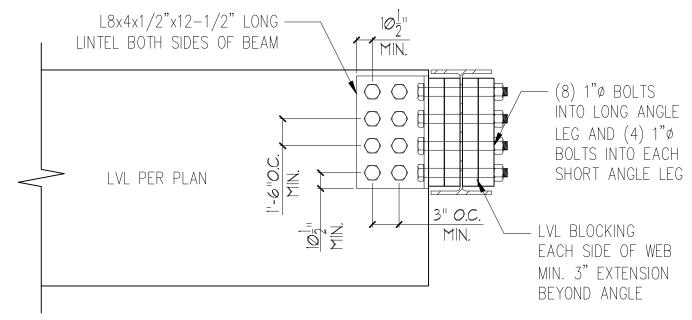
- I.All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.
- 2. Minimum fastening requirements for depths less than $7\frac{1}{4}$ " require special consideration. Please 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

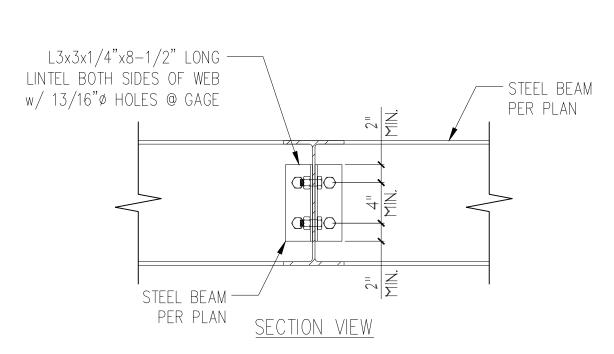
MULTI-PLY BEAM CONNECTION DETAIL

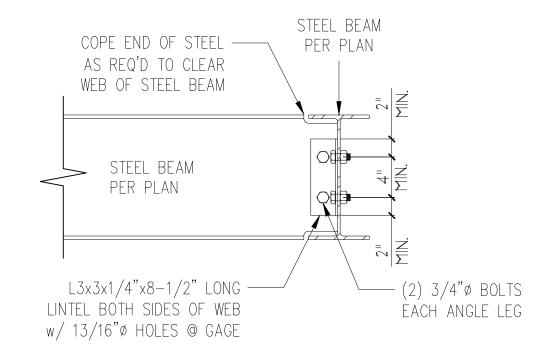




ELEVATION VIEW

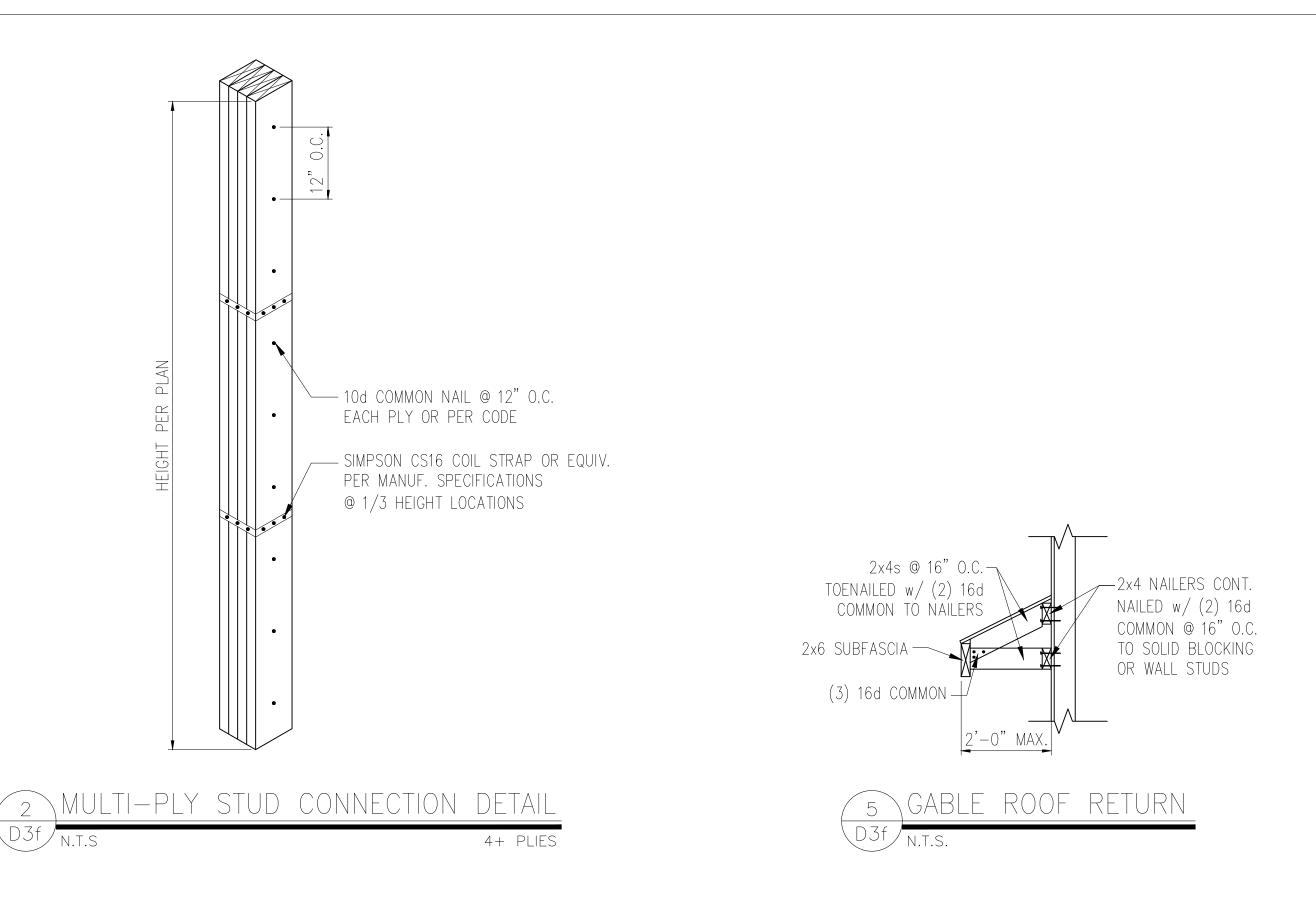


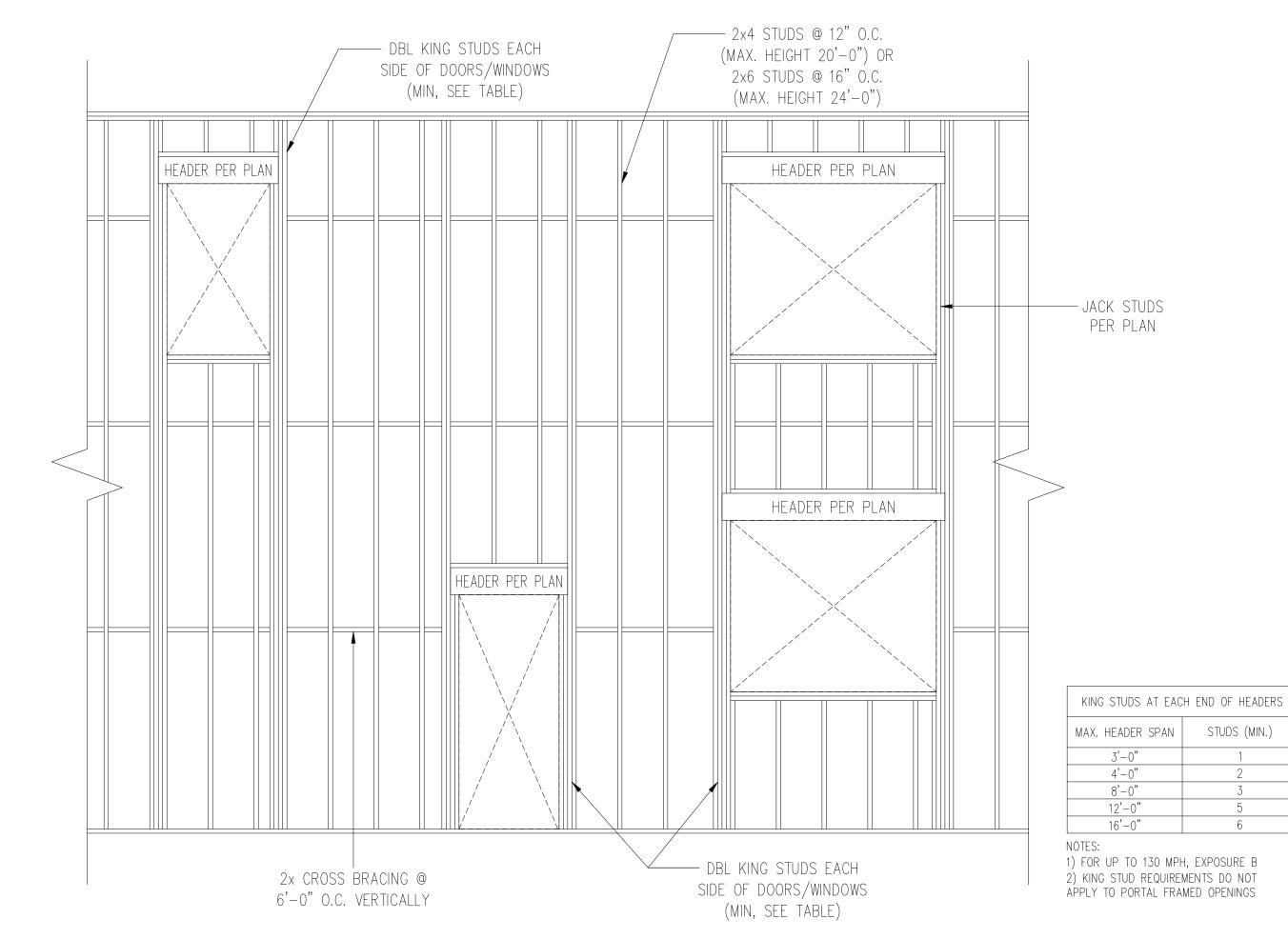




<u>ELEVATION VIEW</u>



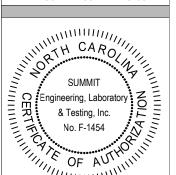




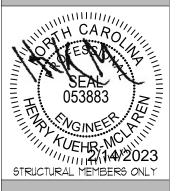
6 TYP. BALLOON FRAMING DETAIL

D3f N.T.S





CLIEN!: DR Horton Carolina Division 8001 Arrowridge Blvd. Charlotte, NC 28273



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