WILMINGTON -A, B, C

PLAN ID: 2800 - LEFT HAND - NORTH CAROLINA

DATE:	REVISION:
09/18/2017	INITIAL RELEASE OF PLANS
10/20/2017	CLIENT REVISIONS
11/01/2017	REMOVED PORCH RAILING FROM ELEVATION 'C' FLATTENED BAR TOP AT KITCHEN REVISED SIZE OF WINDOW AT BASE OF STAIRS REVISED MASTER BEDROOM TO OWNER'S BEDROOM
02/07/2018	ELECTRICAL REVISIONS
06/11/2018	CLIENT REVISIONS
11/14/2018	CLIENT REVISIONS
01/09/2019	REVISED CODE REFERENCES
07/23/2019	CLIENT REVISIONS
12/13/2019	CLIENT REVISIONS
02/28/2020	CLIENT REVISIONS



- **ARCHITECTURALS COVERSHEET** ARCHITECTURALS - OUICK VIEW
- ARCHITECTURALS ELEVATIONS A
- ARCHITECTURALS ELEVATIONS B
- ARCHITECTURALS ELEVATIONS C ARCHITECTURALS - FLOOR PLANS A
- ARCHITECTURALS FLOOR PLANS B
- ARCHITECTURALS FLOOR PLANS C
- ELECTRICAL FLOOR PLANS

MODEL 'WILMINGTON' SQUARE FOOTAGES				
AREA	ELEV 'A'	ELEV 'B'	ELEV 'C'	
lst FLOOR	1225 SF	1225 SF	1225 SF	
2nd FLOOR	1595 SF	1595 SF	1595 SF	
TOTAL LIVING	2824 SF	2824 SF	2824 5	
GARAGE	411 SF	411 SF	411 SF	
PORCH	72 SF	72 SF	72 SF	

Mason Ridge Lot 44 149 Calebs Corner Place Spring Lake, NC 28390



REVIEWERS STAMP LOCATION

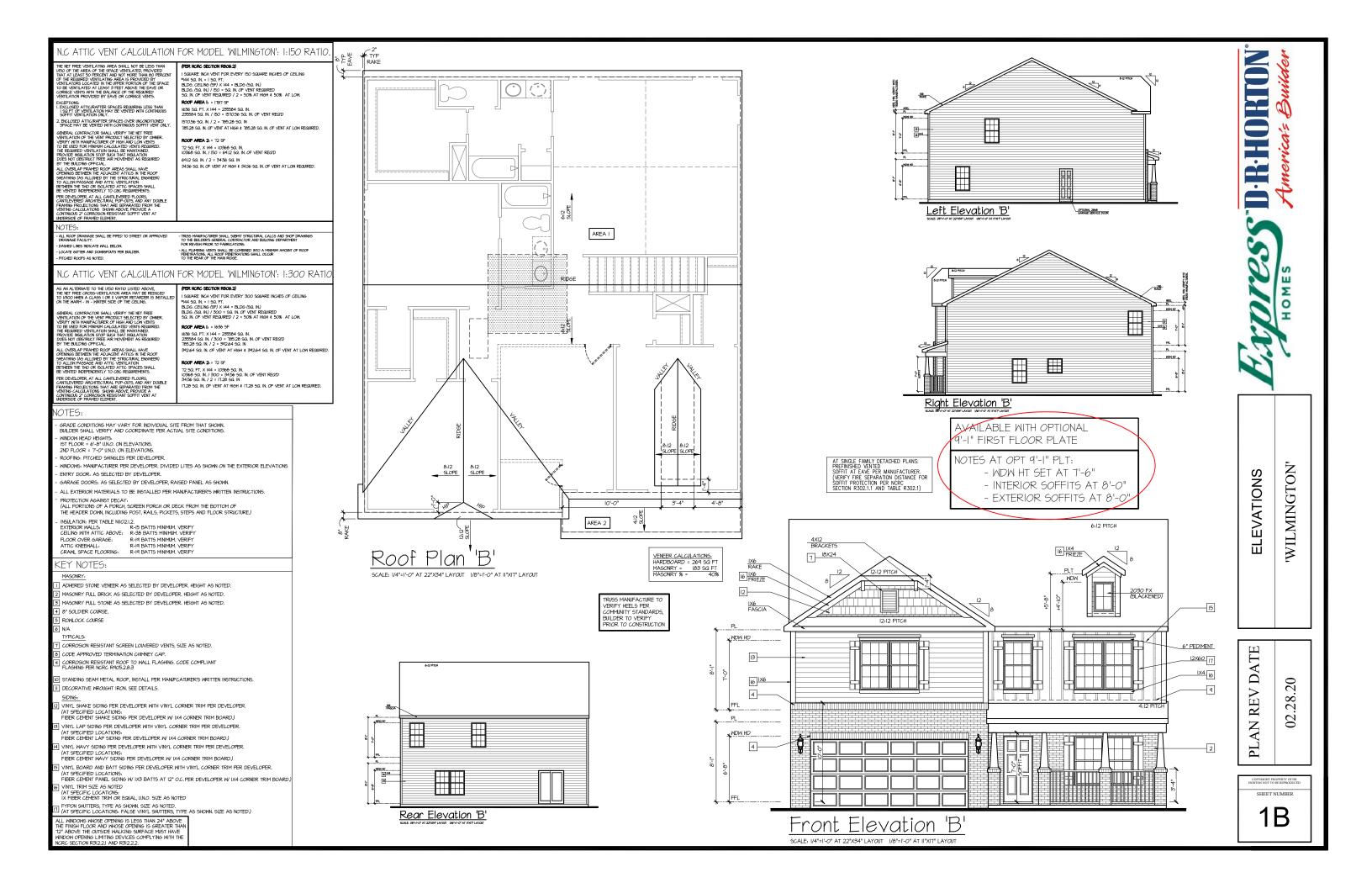


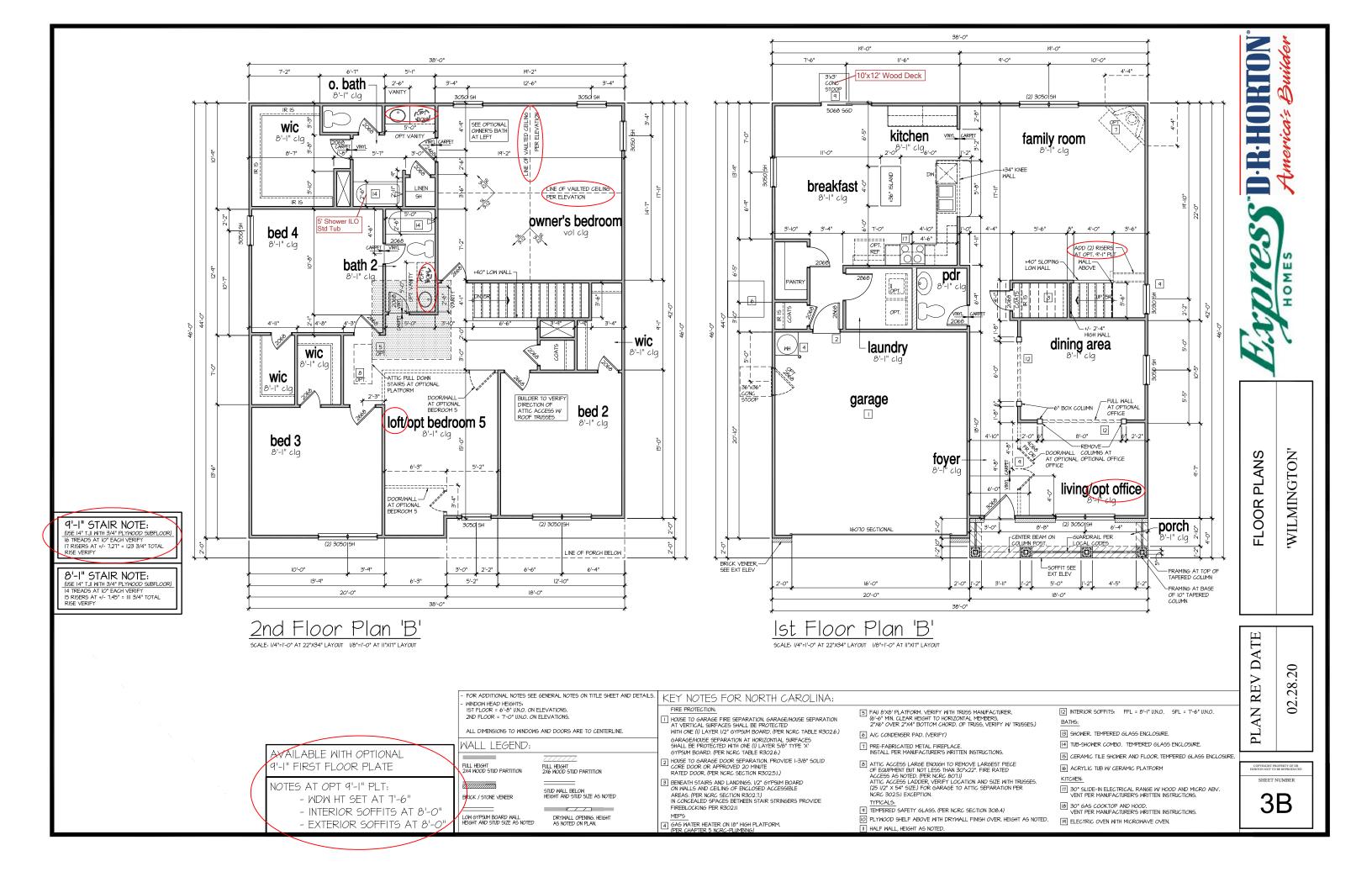
Express D-R-HORTON	HOMES America's Builder	
COVERSHEET	'WILMINGTON'	
PLAN REV DATE	02.28.20	
SHEET 1	NUMBER	











IOTES:

PROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES. - PROVIDE AND INSTALL ARC FAULT CIRCUIT-INTERRIPTERS (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.

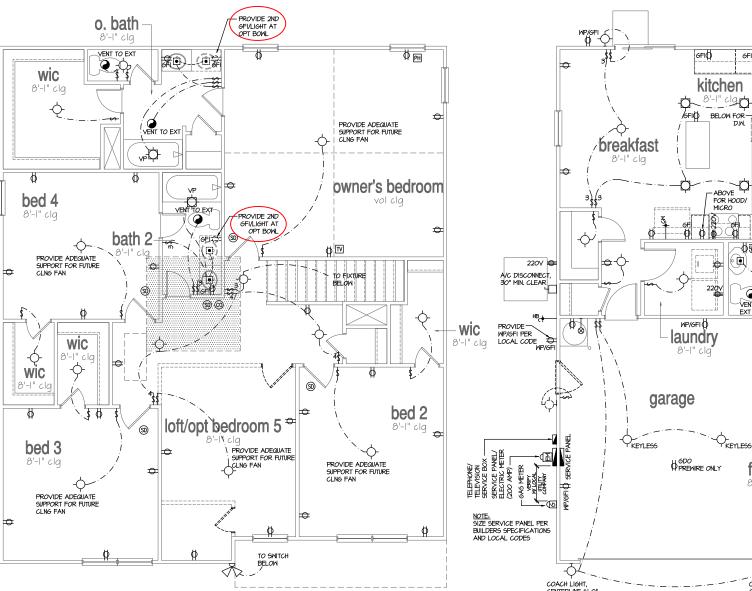
ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.

HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.

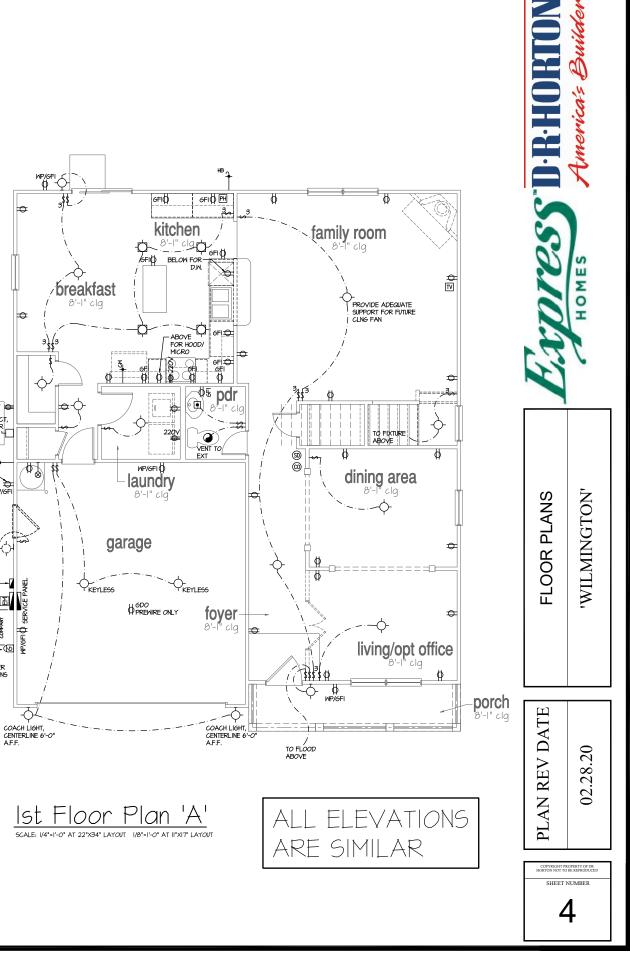
 ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS. PROVIDE POWER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

LEGEND.

LEGI	END:		
ф	DUPLEX OUTLET	¢	Ceiling Mounted Incandescent Light Fixture
фир/ 6Fi	WEATHERPROOF GFI DUPLEX OUTLET	ю	WALL MOUNTED INCANDESCENT
ф ағı	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET		LIGHT FIXTURE RECESSED INCANDESCENT LIGHT FIXTURE
ø	HALF-SWITCHED DUPLEX OUTLET	¢	(VP) = VAPOR PROOF
₽ 22 <i>0</i> ∨	220 VOLT OUTLET	•	CEILING MOUNTED LED LIGHT FIXTURE (VP) = VAPOR PROOF
0	REINFORCED JUNCTION BOX	0	EXHAUST FAN (VENT TO EXTERIOR)
\$	WALL SWITCH	-\$	EXHAUST FANLIGHT COMBINATION (VENT TO EXTERIOR)
\$3	THREE-WAY SWITCH	\square	FLIORESCENT LIGHT FIXTURE
\$4	FOUR-WAY SWITCH		EROPERATING FOR ERATE
CH	CHIMES		TECH HUB SYSTEM
P	PUSHBUTTON SWITCH		CEILING FAN (PROVIDE ADEQUATE SUPPORT)
90	IIOV SMOKE ALARM W BATTERY BACKUP		CEILING FAN WITH INCANDESCENT
	IIOV SMOKE ALARM CO2 DETECTOR COMBO	Ж	LIGHT FIXTURE (PROVIDE ADEQUATE SUPPORT)
T	THERMOSTAT	⊢⊗	GAS SUPPLY WITH VALVE
PH	TELEPHONE		
T۷	TELEVISION	-+h	HOSE BIBB
	ELECTRIC METER	-+ _{GM}	1/4" WATER STUB OUT
_	ELECTRIC PANEL	Л	
	DISCONNECT SWITCH	K I	WALL SCONCE







	DESIGN SPECIFICATION S: Construction Type: Commercical D Residential Ø		11		SHEET LIS	l No.		Description
	Applicable Building Codes: • 20/8 North Carolina Residential Building Code with All Local • A9CE 1-10: Minimum Design Loads for Buildings and Other Str Design Loads: 1. Root Live Loads 12. Trues 20 PSF 12. Trues 20 PSF 21. Attic Trues 60 PSF 21. Conventional 2x 10 PSF 22. Trues 20 PSF 23. Conventional 2x 10 PSF 24. Trues 20 PSF 25. Trues 20 PSF 26. Trues 20 PSF 27. Trues 10 PSF 28. Trues 20 PSF 29. Trues 10 PSF 29. Snow 10 PSF		SUN engineering labo	ratory testing	C: 31/2 31/2 31/2 31/2 31/2 31/2 32 33. 34. 35	2m 0s 0c 0b 0 0 0 0 0		Cover Sheet, Specifications, Revisions Monolithic Slab Foundation Stem Wall Foundation Crawl Space Foundation Basement Foundation Basement Plan First Floor Plan Second Floor Plan Roof Freming Plan
	3. 5now ib PSr 3. Importance Factor 10 4. Floor Live Loads 4.1 Typ. Duelling 40 PSr 4.2. Siegeing Areas 30 PSF		structural plan WILMING7	is prepa r ed for: TON - LH				
	43. Decks 40 PSF 4.4. Passenger Garage 50 PSF 5. Floor Dead Loads		PROJECT ADDRES6: TBD	OUNER: DR Horton, inc.		N LIST:		
	HI. ZONE I 16.7,-18.0 IT.5,-18.3 18.2,-19.6 18: ZONE 2 16.7,-21.0 IT.5,-22.1 18.2,-22.9 18: ZONE 3 16.7,-21.0 IT.5,-22.1 18.2,-22.9 18: ZONE 4 18.2,-19.0 19.2,-20.0 19.9,-20.7 20	>	electrical, and civil drawings. This coon structural engineering of record (GER), apparent, the contractor shall notify Sut PC, before construction begins. PLAN ABBREVIATIONS: AB ANCHOR BOLT AFF ABOVE FINISHED FLOOR C.J. CELLING JOIST CLR CLEAR DJ DOUBLE JOIST DSP DOUBLE STUD POCKET EE EACH END EW EACH END EW EACH END EW EACH END EW EACH END EW EACH END EW EACH END FSF POUNDS FER SQUARE FOOT PSI POUNDS FER SQUARE INCH Roof truss and floor joist layouts, and were not provided to SUMMIT Engineeri prior to the initial design. Presfore, tru based on the information provided by j revisions based on cord truss and floor revision list, indicating the class and floor revision list, indicating the class and floor revisions based on cord truss and floor revisions the floor spin terms for the set the lay	Should any discrepancies become MIT Engineering, Laboratory 4 Testing, PT PRESSURE TREATED RS ROOF SUPPORT SC STUD COLUMN SJ SINGLE JOIST SFF SPRUCE PINE FIR SYF SOUTHERN YELLOW PINE TJ TRIPLE STUD POCKET TYP TYPICAL LNO UNLESS NOTED OTHERUSE WE WELDED WIRE FABRIC	Revision No. 1 2 3 4 5 6 1 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	n Date 5.16.17 6.14.17 4.23.18 7.162.18 8.30.18 10.5.18 11.30.18 3.1.21	12611R2 11862 11862R 11862R2 11862R3 11862R3	Description Revised garage slab note. Revised roof overframing. Verified roof truss layouts provided by 84 Lumber on 32.15 Added stem wall foundation plan Added atem wall foundation plan Revised per new architectural files dated 612.18 Added dimensions at tapered purch columns Included stick framing option at extended purch Revised NC version only for 2018 NCRC Added OX-16 Structural Insulated Sheating Option
 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 appears of these construction documents without written permission of SUMMIT Engineering. Laboratory 4 Testing, PC. (SUMMIT) or the SER. For the purposes of these construction documents be scenarized to the same entity. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of the structure is shall be reviewed for overall completed on the construction of the structural design of this project. Verification of a licensed professional engineer. These shop drawings shall be construction of a licensed professional engineer. These shop drawings shall be construction of the structural design of this project. Verification of the structural design of the project. Verification of the structural design of the project. Verification of accuracy and report any discrepancies to SUMMIT. Verification of assuments, except for the elements or non-structural design of the project. Verification of accuracy and report any discrepancies to SUMMIT. Verification of submits, provide the interval design of the sponsibility of the sements specifically or non-structural design of the project. Verification of accuracy and report any discrepancies to SUMMIT. Verification of submits provide the specifically of the SER the contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT. Verification of submits provide all construction specifically not contruction begins. T	 The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. Housever, the bottom of all footings shall be a minimum of "29-below grade. 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 39% maximum dry density. Excavations of footings shall be lined temporarily with a 6 mill polyathylare membrane if placement of concrete does not occur within 24 hours of excavation. No concrete shall be placed against any subgrade containing water, i.e., 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 be a minimum yield stress (Fy) of 36 ksi unless otherwise noted. Wildong shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted. Wildong shall conform to the latest edition of the American Wilding shall conform to the latest Editor of the American Wilding shall conform to the latest Editor of the American Wilding shall conform to the latest Editor of the American Wilding shall be performed by a certified welder per the above standards. CONCRETE: Concrete shall have a normal weight aggregate and a minimum compressive strength (Fr) at 26 day of 3200 psi, unless otherwise noted on the plan. Concrete shall have a normal weight aggregate and a minimum compressive strength (Fr) at 26 days of 3200 psi, unless otherwise noted on the plan. Concrete shall be proportioned Concrete for Building?. Air entrained concrete must be used for all structural alements expoored to Resider concrete must be used	 with ACI 302,IR-1 Construction". The concrete site subgrade moduli psf. The SER is cracking or othe cracking or othe cracking or othe calabs-on-grade slabs-on-grade Control or sau o process within 4 Reinforcing stee Reinforcing stee Control or sau c process within 4 Reinforcing stee Control or sau c process within 4 Reinforcing stee Control or sau c process within 4 Reinforcing stee All welded wire be placed at mi supported durin CONCRETE REINFORM Fiborus concrete concrete slabs- due to shrinkage water migration, abrasion resista Fiborumesh relinforcing ASTM A615, grad Detailing, fabric be in accordanc Standard Practit Horizontal footi and shall have 9 elize/spacing as tension splice. Lap reinforceme 	e reinforcement, or fibermesh specified in on-grade may be used for control of cracking e and thermal expansion/contraction, lourered an increase in impact capacity, increased noting to be 100% virgin polypropylene fibers processed olefin materials and specifically rue as concrete secondary reinforcement. fibermesh per cubic yard of concrete shall equal is by volume (15 pounds per cubic yard) comply uith APIT CIII6, any local building code d shall meet or exceed the current industry g bars shall be new billet steel conforming to	 Where reinforcing douels are required, in size and spacing to the vertical reinforcing stead (48 bear diameters vertical) with the footing. Where reinforcing steel is required vert provided unless otherwise noted. Wood FRAMING: Solid sawn upood framing members shall a specifications listed in the latest edition of specifications listed in the latest edition of the southern-1allow-Pine (STP) 12 or Southern-1allow-Pine (STP) 12 or Southern-1allow-Pine (STP) 12 or Southern-1810au-Pine (STP) 12 or Southern-1810au-Pine (STP) 12 or Southern-1810au-Pine (STP) 12 or Southern 12. Lvi, or PSL engineered wood shall have design values:	forcement. The dou y and 20 bar diame tically, dowels shall conform to the on of the "National conform to the on of the "National conform to the ers are designed m-Spruce Pine (% ers are designed transfer (% ers are designed ers are designed er	wel eters i be iss to be FF) *2, nimum dance 281, 35 mobers *2 * 16" m the inimum dar. some 102d ucous ar, nails *) rows	designed supp fabri- revie comp resp resp resp resp the u 2. The u 3 sp revie spec spec spec spec spec spec spec spe	<u>USSES</u> : usod truss manufacturer/fabricator is responsible for go of the usod trusses. Submit scaled shop drawing orting calculations to the SER for review prior to cation. The SER shall have a minimum of five (5) days au. The review by the SER shall review for overall bilance with the design documents. The SER shall asso onsibility for the correctness for the structural design continuess. Locat russes shall be designed for all required load pecified in the local building code, the ASCE stands the trusses. Locat russes is the backing requirements shown on these pecified in the local building and Other Structures E 1-10), and the locating requirements shown on these pecified in the local manufacture shown on these shown on these drawings including but not limited to C equipment, piping, and architectural fixtures attach russes. Trusses shall be designed, fabricated, and erected in rokance with the latest edition of the "National Design Lification for Wood Construction" (NDS) and "Design lification for Wood Construction", (NDS) and "Design lification for Hadl Plate conscited Wood Trusses." trusses ansufacturer shall provide adequate bracing back of truss webs shown on these drawings hall the shop drawings the shop drawings shall show the required attachmer russes. EWOOD REAMED DECKS: is are to be framed in accordance with local building as and a reference only. The final design of the trusses references or construction details. RUCTURAL PANELS: (cation and placement of structural wood sheatting allocating with the APA Design/Construction Guide Londance with the APA Design/Construction Guide

Leadery Leadery PLACE SUTE 171 RALEICH, NC 27003 OFFICE: 919.380.9961 K3UMMT-COMPANIES.COM SUMMI Engineering.aborato & TestingInc No.F-145 E OF AUT DR Horton, Inc. 8001 Arroundige Bivd. Chanotte, NC 2073 Coversheet SEAL 046048 PHILBRICH 5 15 Bandol 15 Bandol Bit Inf-f-ar 2015 5 Bit Inf-an 2015 5 Bit Inf-Exect Bit Inf-NORMATION BCT * DATE SUBJ2011 HER TO COMER SHEET FOR A CITILITE LIST OF REVISIONS CSI

CRAWL SPACE FOUNDATION PLAN SCALE: 1/4"=1'-@" ON 22"x34" OR 1/8"=1'-@" ON 11"x17"

STRUCTURAL MEMBERS ONLY ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C.

FAILURE TO DO SO WILL VOID SUMMIT LIABILITY

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE. COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES,

HEDE FLAND AND BUILDEN BUILDEN BUILDEN DE HORTON ARCHITECTURAL PLANG REVIDED BY <u>DR. HORTON</u> COMPLETED/REVISED ON <u>02/08/2010</u> IT 15 THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY 4 TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS. THESE PLANS ARE DESIGNED IN ACCORDANCE WITH

BEAM POCKETS MAY BE SUBSTITUTED FOR MASONRY PILASTERS AT GIRDER ENDS. BEAM POCKETS SHALL HAVE A MINIMUM 4" SOLID MASONRY BEARING.

REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP | PER TABLE R4051 REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.3 OF THE 2015 IRC.

TO FRAMING AND NOT BRICK VENEER UNO NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE

AND ANY REQUIRED HOLDOWNS, ADDITIONAL INFORMATION PER SECTION R602.10.8 AND FIGURES R602.1065, R602.0.1, R602.108(1) AND R602.108(2) OF THE 2015 IRC

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS

REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOLL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

 A FONDATION EXCAVATION OBSERVATION SHOLLD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER 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, P.C. MUST BE PROVIDED THE OPPORTUNITY TO

F EACH PLATE CHOR BOLTS SC = STUD COLUMN

-	n auni			6 1		- 10/21		
	EVIATIO							
			N THE CE					
SECTI	ON. MINII	MUM (2)	ANCHOR	BOLTS	PER PL	ATE S	ECTION	ί ΔΝ
ORCO	NCRET	E. ANCHO	R BOLTS	5 SHAL	L BE 12'	FROM	THE B	ND -
SPAC	ED AT 6	'-Ø" ON	CENTER	WITH 4	1" MIN	IMUM EI	MBEDM	1EN

SPACED AT 6'-O" ON CENTE	ER WITH A 7" MINIMUM EMBEDME
OR CONCRETE. ANCHOR BO	LTS SHALL BE 12" FROM THE EN
SECTION, MINIMUM (2) ANCHO	R BOLTS PER PLATE SECTION.
SHALL BE LOCATED IN THE ABBREVIATIONS:	CENTER THIRD OF THE PLATE.
D J = DOUBLE JOIST	SJ = SINGLE JOIST

PACED AT 6'-0" ON CENTE	ER WITH A T" MINIMUM EMBEDME
R CONCRETE. ANCHOR BO	LTS SHALL BE 12" FROM THE EN
ECTION, MINIMUM (2) ANCHO	R BOLTS PER PLATE SECTION.
HALL BE LOCATED IN THE	CENTER THIRD OF THE PLATE.
BBREVIATIONS:	
D J = DOUBLE JOIST	SJ = SINGLE JOIST
GT = GIRDER TRUSS	FT = FLOOR TRUSS

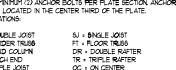
HOLD AT 0 -0 ON OLNIER	
CONCRETE. ANCHOR BOLT	S SHALL BE 12" FROM THE ENI
CTION, MINIMUM (2) ANCHOR	BOLTS PER PLATE SECTION.
ALL BE LOCATED IN THE CE	NTER THIRD OF THE PLATE.
BREVIATIONS:	
J = DOUBLE JOIST	SJ = SINGLE JOIST
	ET - EL COR TRUGG

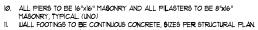
CAROLINA RESIDENTIAL BUILDING CODE. 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK

ED AT 6'-O" ON CENTER WITH ONCRETE, ANCHOR BOLTS SHA	TION R40316. MINIMUM 1/2" DIA BOLTS A T" MINIMUM ENEDMENT INTO MASONRY ALL DE 12" FROM THE BIO OF EACH PLATE 5 FER PLATE SECTION. ANCHOR BOLTS THIRD OF THE PLATE.
= DOUBLE JOIST 5.	J = SINGLE JOIST

CRAIL SPACE TO BE GRADED LEVEL AND CLEARED OF ALL DEBRIS

FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH









AMEDDMENTS. STRUCTURAL CONCRETE TO BE F. = 30000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL. FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF

2000 PSE. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.

ELEMENTS, PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF

PROVIDE FOUNDATION WATERPROPING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2010 NORTH

6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE. PILAGTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.

5. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE

FOUNDATION NOTES:

3.

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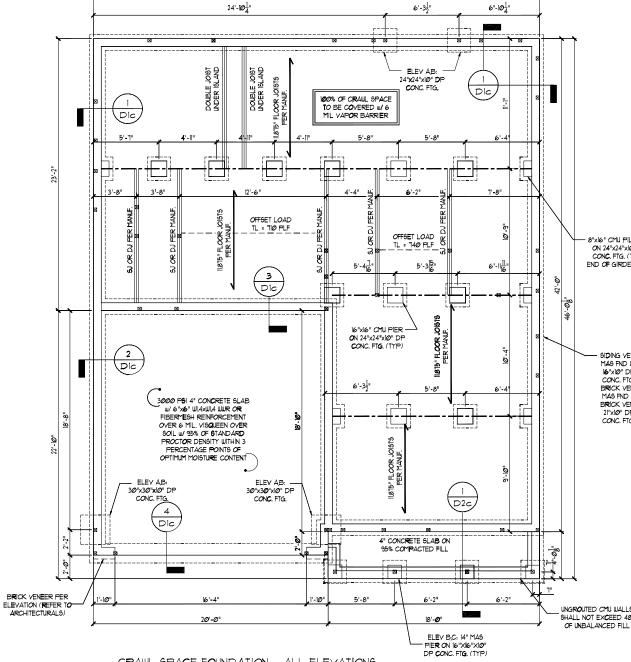
11

13.

AMENDMENTS

MAGONRY

VENEERS.

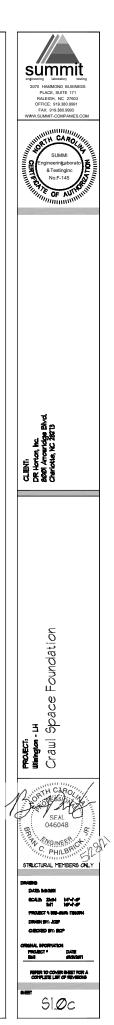


38'-Ø"

CRAWL SPACE FOUNDATION - ALL ELEVATIONS

18"x24" MIN. CRAWL SPACE ACCESS DOOR TO BE LOCATED IN FIELD PER BUILDER PROVIDE MIN. (2) 2x10 HEADER OVER DOOR W/ MIN. 4" BEARING EACH END. AVOID SHOWN POINT LOADS.

DECK FLOOR JOIGTS SHALL BE SPACED AT MAX. 12" ON CENTER WHEN DECKING INSTALLED DIAGONALLY



8"x16" CMU PILASTER ON 24"x24"x10" DP CONC. FTG. (TYP = END OF GIRDER LINE)

> DING VENEER: 8 MAS FND WALL ON 16"x10" DP CONT CONC. FTG. (TYP. BRICK VENEER: 8" MAS FND WALL W/ BRICK VENEER ON 21"x10" DP CONT. CONC. FTG. (TYP.)

ſ	REQUIRED BRACED WALL PANEL CONNECTIONS				
				REQUIRED CONNECTION	
	METHOD	MATERIAL	MIN. THICKNESS	PANEL EDGES	@ INTERMEDIATE SUPPORTS
	с 9 -Ш5Р	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS * 6" 0.C.	6d COMMON NAIL S # 12" O.C.
	GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 1" O.C.	5d COOL E R NAILS** # 7" O.C.
	WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" 0 .C.	6d COMMON NAIL S @ 12" O.C.
	PŦ	NOOD STRUCTURAL PANEL	1/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.106.4
			HOR FOUND IN	T DED TARIE DTAN 25	

	FIRST FLOOR BRACING (FT)				
	REQUIRED PROVIDED				
	BWL I-I	4.8	26.5		
	BWL 1-2	4.8	13.5		
	BWL 1-3	43	13.1		
	BWL 1-A	11.5	41 <i>.</i> Ø		
	BWL 1-B	11.5	36 <i>0</i>		

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING
- CODE WITH ALL LOCAL ANENDMENTS. CONTRACTOR SHALL VERITY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH THE CONTRACTOR SHALL VERITY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS FLAM.
- CONTRACTOR IS RESPONDED FOR THE THAT OF THAT CONTRACTOR IS RESOLUTED FOR THE THAT OF THE CONTRACTOR IS RESOLUTERED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION. PROPERTIES USED IN THE DESIGN ARE AS FOLLOUS:

- PROPERTIES USED IN THE DESIGN ARE AS POLLOUS: MICROLLAWI (L/L), $F_0 = 2600$ PS), $F_v = 285$ PS), $E = 19x00^6$ PSI PARALLAMI (PSL); $F_0 = 2900$ PS), $F_v = 290$ PSI, $E = 125x10^6$ PSI ALL WOOD MEMBERS SHALL BE 12 STP/12 SFF UNLESS NOTED ON PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE 12 STP/12 SFF UND. ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 12 SFP/12 SFF STUD COLUMN AT
- ALL BEN SIGNED SUPPORTED WITH A COVER 2 STIP 2 STIP
- AND SHALL HAVE A TIMINUT OVER OF 3: FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2016 NORTH CAROLINA RESIDENTIAL CODE SECTION RADIAL6 MINIMUM 2° DIA BOLTS SPACED AT 6'-0' ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE, ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE
- SECTION MINIMUM (2) ANCHOR BOLTS FER PLATE SECTION ANCHOR BOLTS SHALL SECTION MINIMUM (2) ANCHOR BOLTS FER PLATE SECTION ANCHOR BOLTS SHALL SELECATED IN THE CENTER THIRD OF THE PLATE. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOIGTS SPAN FERTENDICILAR TO RAFTERS.
- ID. FLICTOR BEANS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH 12" DIA THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D31, MIN EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM
- ALL NOV-DOLIS SHALL BE DOCATED HINNING FROM EACH END OF THE BEAN. ALL NOV-DOAD BEARING HEADERS SHALL BE (1): LAT 2X4 STP (2):SPF (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/SPF #2, DROPPED. (UNLESS NOTED OTHERWISE)
- 12. ABBREVIATIONS

DJ = DOUBLE JOIST	SJ = SINGLE JOIST
GT = GIRDER TRUSS	FT = FLOOR TRUGG
SC = STUD COLUMN	DR = DOUBLE RAFTER
EE = EACH END	TR = TRIPLE RAFTER
TJ = TRIPLE JOIST	OC = ON CENTER
CL = CENTER LINE	PL = POINT LOAD

CL = CENTER LINE		TER LINE	PL = POINT LOAD		
	NOTE:	DEGICILATEG			

WALL ABOVE. PROVIDE BLOCKING UNDER JOIST SUPPORTED LOAD BEARING WALL

JOIST & BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY

INCREASE DEPTH FOR EASE OF CONSTRUCTION.

INSTALL ANY REQUIRED HOLDOWNS PER SECTION R602.10.8 AND FIGURES R602.10.6.5, R602.10.1, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH HELDE FLATING AIRL DEVOIDED BY DEVIDED BY DEVIDED BY THE CARDING AND A CONTRACT A TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL

PLANG PRIOR TO CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY 4 TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANG WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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

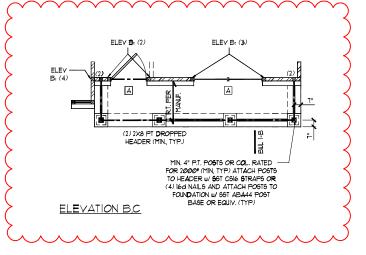
NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS. GRANITE COUNTERTOPS AND/OR ISLANDS.

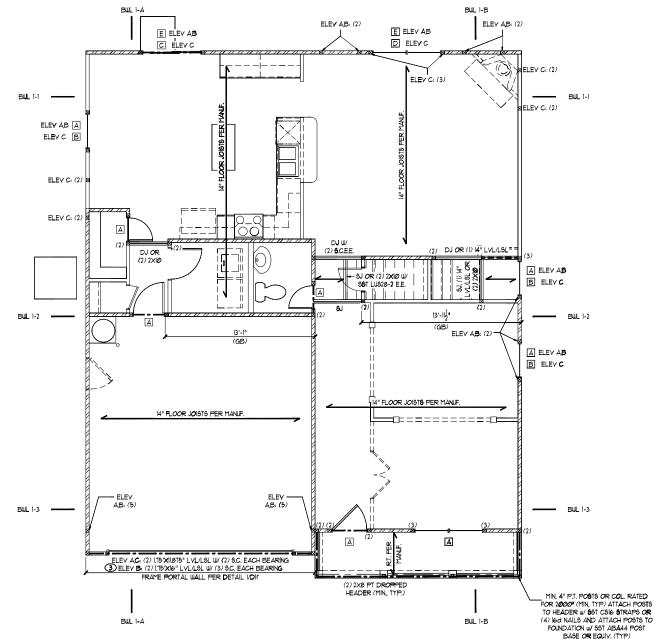
STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN SCALE: 1/4"+1'-0" ON 22"x34" OR 1/8"+1'-0" ON 11"x11





FIRST FLOOR FRAMING PLAN - ELEVATION A

HEADER SCHEDULE				
TAG	SIZE	JACKS (EACH END)		
A	(2) 2x6	(1)		
в	(2) 2x8	(2)		
c	(2) 2x1Ø	(2)		
D	(2) 2x12	(2)		
E	(2) 9-1/4" LSL/LVL	(3)		
F	(3) 2x6	(1)		
G	(3) 2x8	(2)		
Ĥ	(3) 2x1Ø	(2)		
1	(3) 2x12	(2)		

HEADER SIZES SHOUN ON PLANS ARE MINIMUMS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION. ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE SC NOTED ON PLAN OVERRIDE SC LISTED ABOVE.

LINTEL SCHEDULE				
PPENING SIZE				
5 5 than 6'-Ø"				
'-Ø" †0 10'-Ø"				
REATER THAN 10'-0"				
ALL ARCHED OPENINGS				
SECURE LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED # 16" O.C. (TYP FOR (3))				
SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG				

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

WALL STUD SCHEDULE

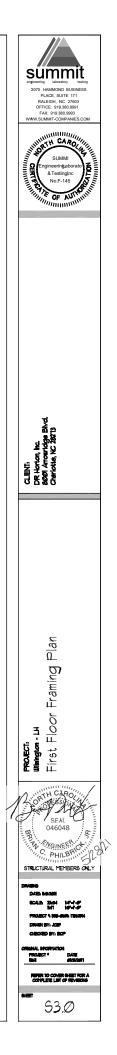
16T & 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS = 16" O.C. OR 2x6 STUDS = 24" O.C. IST FLOOR LOAD BEARING STUDS W/ WALK-UP ATTIC: 2x4 STUDS = 12" O.C. OR 2x6 STUDS = 16" O.C. BASEMENT LOAD BEARING STUDS: 2x4 STUDS # 12" OC OR 2x6 STUDS # 16" OC NON-LOAD BEARING STUDS (ALL FLOORS): 2x4 STUDS = 24" O.C. TWO STORY WALLS: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6 -0" O.C. VERTICALLY

KING STUD REQUIREMENTS		
OPENING WIDTH	KINGS (EACH END)	
LESS THAN 3'-@"	(1)	
3'-Ø TO 4'-Ø"	(2)	
4'-Ø" TO 8'-Ø"	(3)	
8'-0" TO 12'-0"	(5)	
12'-Ø" TO 16'-Ø"	(6)	
KING STUD REQUIREMENTS ABOVE DO NO APPLY TO PORTAL FRAMED OPENINGS		

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.00 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING 2
- SITES 3.
- 4
- 91253. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IFC TABLE R6/02/04. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED IV FEET FOR ISOLATED PANEL METHOD AND I2 FEET FOR CONTINUOUS GHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS. MINIMUM PANEL LENGTH SHALL BE PER TABLE R6/02/05. THE INTERO FOR CONTINUES OF CONTINU
- THE INTERIOR 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 FOR CONTINUES IN ALL SHEATHING TEINAD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SUFFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- THINGS, AND WORADLE EIN WALLS. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 FEET OF 8
- 9. EACH END OF A BRACED WALL LINE.
- 10. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 FEET. 11. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR
- LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FURER REQUIDS OF THE 2015 IRC. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REQUIDS
- 12.
- 13. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R6021032 AND FIGURES R602.10.8(1)4(2)4(3). CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE 14
- DEGRED IN ACCORDANCE WITH SECTION RE@21001 PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE RE@2106.4 (UNO) 15
- 16 ON SCHEMATIC SHADED WALLS INDICATE BRACED WALL PANELS ABBREVIATIONS:

GB = GYPSUM BOARD USP = WOOD STRUCTURAL PANEL CS-XXX = CONT. SHEATHED PF = PORTAL FRAME ENG = ENGINEERED SOLUTION PF-ENG = ENG. PORTAL FRAME



	REQUIRED	BRACED W,	ALL PANEL CONNE	CTI O NS
			REQUIRED CONNECTION	
METHOD	MATERIAL	MIN. THICKNESS	PANEL EDGES	* INTERMEDIATE SUPPORTS
C 5- U6P	WOOD STRUCTURAL PANEL	3/8"	6d C ommon Nails @ 6" 0 .C.	6d COMMON NAILS @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5 d COOLER NAILS** * 7" O. C.	5d COOLER NAIL S ** * 1" O.C.
	WOOD STRUCTURAL PANEL	3/8"	6d C ommon NAILS @ 6" 0 .C.	6d COMMON NAILS @ 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.106.4

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING
- CODE WITH ALL LOCAL AMENDMENTS. CODIE WITH ALL COLORAL AFTENDIENTS. CONTRACTOR SHALL VERTY 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 REPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED
- 3

- Contractor is response to the provided the
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2×4 2 SYP/2 SPF STUD COLUMN AT
- FACH END UNI ESS NOTED OTHERWISE
- ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3°.
 FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2016 NORTH
- CARQUINA RESIDENTIAL CODE SECTION RADSILG. MINIMUM USI DIA BOLTS SPACED AT 6-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE FLATE. 9. CONTRACTOR TO PROVIDED LOCKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- I FIITCH DULLAR TO KAP LESS. ID. FLITCH BATHS, 4-RY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH I/2" DIA. TIRU BOLTS SPACED AT 24" OC. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL I/D31; MIN EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP \$2/SPE \$2 ARCHIELD FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-C' IN MUDTH AND/OR WITH MORE THAN 2'-C' OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP 12/SPF 12, DROPPED, (UNLESS NOTED OTHERWISE)
- 12. ABBREVIATIONS:

DJ = DOUBLE JOIST	SJ = SINGLE JOIST
GT = GIRDER TRUSS	FT = FLOOR TRUSS
SC = STUD COLUMN	DR = DOUBLE RAFTER
EE = EACH END	TR = TRIPLE RAFTER
TI - TRIPIE MIST	OC - ON CENTER

CL = CENTER LINE PL = POINT LOAD

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

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

INSTALL ANY REQUIRED HOLDOWNS PER SECTION R602.10.8 AND FIGURES R602.10.6.5, R602.10.1, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u> COMPLETED/REVISED ON <u>02/18/2020</u> IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIEY SUMMIT ENGINEERING LABORATORY 4 PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

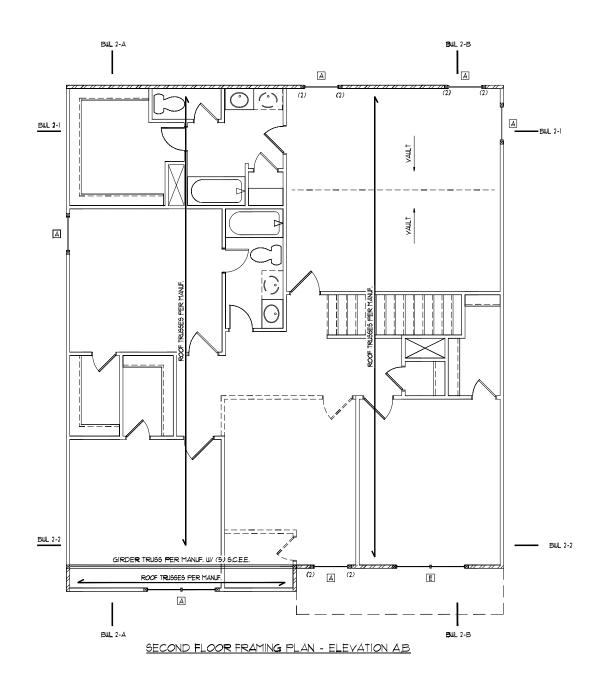
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

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



SECOND FLOOR BRACING (FT)				
CONTIN	NUCUS SHEATHING M	eth o d		
REQUIRED PROVIDED				
BWL 2-1	6.8	3Ø.1		
BWL 2-2	6.8	21.1		
BWL 2-A	5.9	41.Ø		
BUL 2-B	5.9	37.1		

HEADER SCHEDULE				
TAG	SIZE	JACKS (EACH END)		
А	(2) 2x6	(1)		
в	(2) 2x8	(2)		
С	(2) 2x1Ø	(2)		
D	(2) 2x12	(2)		
E	(2) 9-1/4" L6L/LVL	(3)		
F	(3) 2x6	(1)		
G	(3) 2x8	(2)		
н	(3) 2x1Ø	(2)		
1	(3) 2xl2	(2)		
HEADERE SIZES SHOUN ON FILANS ARE MINIMUMS, GREATER HEADERE SIZES MAY BE USED FOR EASE OF CONSTRUCTION.				

ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE. SC NOTED ON PLAN OVERRIDE SC LISTED ABOVE.

LINTEL SCHEDULE				
TAG	SIZE	OPENING SIZE		
Θ	L3x3x1/4"	LESS THAN 6'-0"		
\bigcirc	L5x3x1/4"	6'-0" TO 1 0 '-0"		
3	L5x3-1/2"x5/1 6 "	GREATER THAN 10'-0"		
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS		
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: (UNO)				

WALL STUD SCHEDULE

15T & 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS & 16" O.C. OR 2x6 STUDS & 24" O.C. IST FLOOR LOAD BEARING STUDS W/ WALK-UP ATTIC: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BASEMENT LOAD BEARING STUDS: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. NON-LOAD BEARING STUDS (ALL FLOORS): 2x4 STUDS # 24" O.C. TUO STORY WALLS: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING & 6'-0" O.C. VERTICALLY

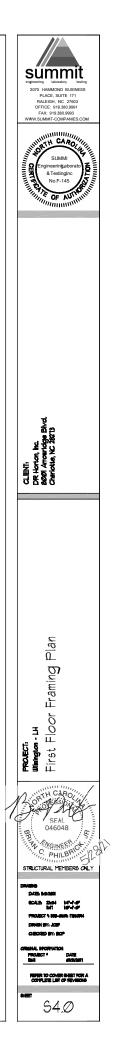
KING STUD REQUIREMENTS			
OPENING WIDTH	KINGS (EACH END)		
LESS THAN 3'-O"	(1)		
3'-Ø TO 4'-Ø"	(2)		
4'-0" TO 8'-0"	(3)		
8'-0" TO 12'-0"	(5)		
12'-@" TO 16'-@"	(6)		
KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS			

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.00 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED D
- PER SECTION REQUIR OF THE 2018 NO REDIDENTIAL CODE AN ALLOUED PER SECTION REQUIR OF THE 2018 NO REDIDENTIAL CODE 1. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO ISO MIPH. 2. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING

- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
 BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.004.
 ALL BRACED WALL PANELS SHALL BE RILL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATTING METHOD WITHOUT ADDITIONAL DEGINEERS CALL OUTDONS ENGINEERING CALCULATIONS.
- ENGINEERING CALCULATIONS. MINIMUM PANEL LENGTH SHALL BE PER TABLE R&021.05. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- IN STITUTION OF THE ATTING 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
- THE FOUNDATION OF BE CANTLEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH END OF A BRACED WALL LINE.
 INE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS
- SHALL NOT EXCEED 20 FEET.
- MASONEY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602109 OF THE 2015 IRC. 11
- 12. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE DRACED WALL PAREL CONTECTIONS OF FLOWCED WITH SECTION READING SHALL
 CONSTRUCTED IN ACCORDANCE WITH SECTION READINGS
 BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION READINGS AND INSTRUCTED IN ACCORDANCE AND INSTRUCTED IN ACCORDANCE AND INSTRUCTURES AND INSTRUCTED INSTRUCTURES AND INSTRU
- FIGURES R602 108(1)4(2)4(3)
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.00.11 15. PORTAL WALLS SHALL BE DEGIGNED IN ACCORDANCE WITH FIGURE
- R602.10.6.4 (UNO) ICONTRACTOR AND A CONTRACT AND A CONTR

GB = GYPSUM BOARD USP = WOOD STRUCTURAL PANEL C6-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION FF = PORTAL FRAME PF-ENG = ENG, PORTAL PRAME



 ROOF FRAMING
 PLAN

 SCALE: 1/4"=1"-0" ON 12"x34" OR 10"=1"-0" ON 11"x1"

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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STRUCTURAL MEMBERS ONLY

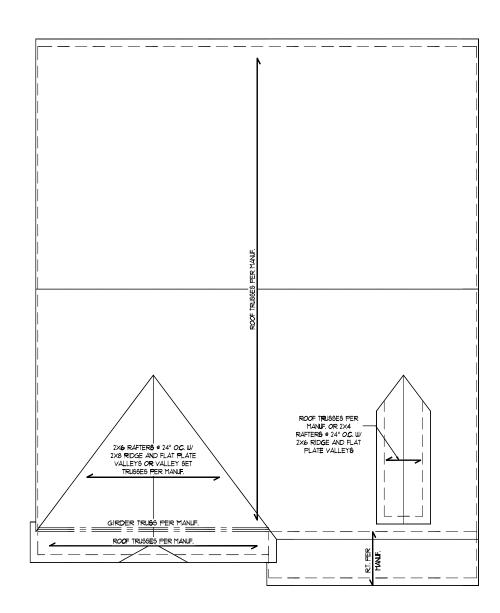
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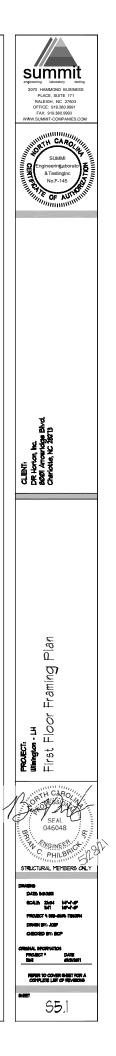
NOTE: ROOF TRUSSES SHALL BE SPACE TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

NOTE: 15T PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR. HORION COMPLETED REVISED ON 20:2020/2016 IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMIT ENGINEERING, LABORATORY 4 TESTING, PC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY 1 TESTING, PC. CANNOT GUARANTEE THE ADEOLACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

ROOF FRAMING PLAN - ELEVATION B





DESIGN SPECIFICATIONS:

81. Site Class 82. Design Category ... 83. Importance Factor .

Seisnic Use Group . 8.5. Spectral Response Acceleration 85. Seismic Base Shear 861 VX = 8**6**2.Vy =

8.1. Basic Structural System (check one) ⊠ Bearing Wall □ Building Frame □ Moment Frame

8.8. Arch/Mech Components Anchored ... 8.9. Lateral Design Control: Seismic
9. Assumed Soil Bearing Capacity

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

> Wind 🖂 200005

8 Seismic

Construction Tupe: Commerical 🔲 Residential 🛛

Applicable Building Codes:	
 2018 North Carolina Residential 	

°• 2Ø	le Building Codes: 18 North Carolina Residential Building Code with CE 7-10: Minimum Design Loads for Buildings an	
Design L	oads:	
	Roof Live Loads	
	I.I. Conventional 2x	
	1.2. Truse	20 PSF
	12.1. Attic Truss	_ 60 PSF
2.	Roof Dead Loads	
	2.1. Conventional 2x	
	2.2. Truse	
3.	5now	15 PSF
	3.1. Importance Factor	1.0
4.	Floor Live Loads	
	4.1. Typ. Dwelling	40 PSF
	4.2. Sleeping Areas	
	4.3. Decks	
	4.4. Passenger Garage	
5.	Floor Dead Loads	
	5.1. Conventional 2x	
	52. I-Joist	15 PSF
	5.3. Floor Truss	15 PSF
6.	Ultimate Wind Speed (3 sec. gust)	, PER PL A N
	6.1. Exposure	
	6.2. Importance Factor	
	6.3. Wind Base Shear	
	63.1. Vx =	
	632.Vy =	
٦.	Component and Cladding (in PSF)	

J					
				PSF	
				K I"LAN	
		in (PSF)			
	~				
	UP TO 30'	301"-35'	351"-40	4011-45	
ZONE 1	16.1, - 18.Ø	17.5,-18.9	18.2,-19.6	18.7,-20.2	
ZONE 2	16.7,-21.Ø	17.5,-22.1	18.2,-22.9	18.1,-23.5	
ZONE 3	16.7,-21Ø	17.5,-22.1	18.2, -22.9	18.1,-23.5	
ZONE 4	18.2, - 19.Ø	19.2,-20.0	19.9,-2 0 .1	20.4,-21.3	
ZONE 5	182,-24Ø	192,-252	19.9,-26.1	20.426.9	
	Floor Live LC 41. Typ. Du 42. Sleeping 43. Decks 44. Passen Floor Dead L 51. Conver 53. Floor T Uttimate Und 63. Und 64. Und 64. Und 65. Und 6	Floor Live Loads 41. Typ. Duelling	Floor Live Loads 41. Typ. Duelling	41. Typ. Duelling 40 42. Sleeping Areas 30 43. Decks 40 44. Passenger Garage 50 Floor Dead Loads 50 51. Conventional 2x 10 F 52. I-Jolat 15 F 53. Floor Truss 15 F 61. Exposure 10 F 63. Wind Base Shear 63. Wind Base Shear 63. Wind Base Shear 63. Vy = 63. Wind Ease Shear 63. Vy = Component and Cladding (in PSF) MEAN ROOF MEAN ROOF 115.78.8 182.78.6 ZONE I 16.1.79.00 11522.1 182.72.9 ZONE 3 16.1.200 11522.1 182.72.9	Floor Live Loads 40 PSF 41. Typ. Duelling 40 PSF 42. Sleeping Areas 30 PSF 43. Decks 40 PSF 44. Passenger Garage 50 PSF Floor Dead Loads 10 PSF 51. Conventional 2x 15 PSF 15 PSF 52. I-Joits 15 PSF 15 PSF 53. Irlog Speed (3 sec. gust) PER PLAN 61 Exposure 10 63. Ump Tables & Preat 631. Vx = 632. Vy = 632. Vy = 200 115-721 182-723 181,7-202 ZONE 1 I6.1,-180 115-721 182-724 181,7-202 ZONE 1 161,7-210 ZONE 2 16.1,-210 115-721 182,-223 181,-235 ZONE 3 161,7-210 115-721 182,-223 181,-235

SUMMIT

SHEET LIST: Description Sheet No. CGI Cover Sheet Specifications Revision Dim Monolithic Slab Foundation Details Dla Stem Wall Foundation Details Dic Craul Space Foundation Details DЬ Basement Foundation Details DIF Framing Details

STANDARD DETAILS OUNER: DR Horton Carolinas Division

8001 Arrowridge Blvd Charlotte, NC 28213

STRUCTURAL PLANS PREPARED FOR

ARCHITECT/DESIGNER GMD Design Group 1845 Satellite Blvd Duluth GA 3009

PROJECT ADDRESS:

TBD

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory 4 Testing, P.C. before construction begins.

PLAN ABBREVIATIONS:

AВ	ANCHOR BOLT	PŤ	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CJ	CEILING JOIST	SC	STUD COLUMN
CLR	CLEAR	5J	SINGLE JOIST
ÐJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
D5P	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
Ē	EACH END	S YP	SOUTHERN YELLOW PINE
EΨ	EACH WAY	ŤJ	TRIPLE JOIST
NT9	NOT TO SCALE	TSP	TRIPLE STUD POCKET
8	ON CENTER	TYP	TYPICAL
P#F	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

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

REVISION LIST: **Re**vision Project No. Date Description No. E IIIT Added box bay detail (2/D2f). Added deck options with basement. Revised deck options with stem wall and crawl space foundations 2 7,12,17 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 Revised stem wall deck attachment and i sheathing on wall sections. 8 3.6.19 Corrected dimensions at perimeter footings 9 3220 Added tall turndown detail 10 3.18.20 Added balloon framing detai Added alternate two-pour detail for slab and 102020 added note for crawl girder above grade 3121 12 Added OX-19 Standard Details 13 5.18.21 Updated OX-15 Standard Details 14 @2.14.23 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 t purposes of these construction documents the SER and SUMMIT
- shall be considered the same entity. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction 2 to stabilize the structure.
- The SER is not responsible for construction sequences, methods, or techniques in comection with the construction of this structure. The SER will not be held responsible for the solutions in our on the contract documents, should any non-conformities occur. Any structural elements or details not fully developed on the
- construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions,
- is stop crawings to comprise or or summarized controller, is not the responsibility of the SER or SUMMIT. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins. The SER is not responsible for any secondary structural elements
- or non-structural elements, except for the elements 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:

The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.

- The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade. 6.
- Any fill shall be placed under the direction or recommendation
- of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95%
- maximum div density. Excavations of footings shall be lined temporarily with a 6 mil polysthylene memorane if placement of concrete does not occur within 24 hours of excavation.
- No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

- <u>STRUCTURAL STEEL:</u>
 1. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Fractice 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_{μ}) of 36 ksi unless
- otherwise noted. Welding shall conform to the latest edition of the American
- Weiding shall conform to the latest edition of the American Weiding Society's Structural Weiding Code AWS D.I., Electrodes for shop and field weiding shall be class ETØXX. All weiding shall be performed by a certified weider per the above

CONCRETE:

- NUMBER: Concrete shall have a normal weight aggregate and a minimum compressive strength (Fp) 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/thau cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of
- target values as follows: 3.1. Footings: 5% 3.2. Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SER.

- Concrete slabs-on-grade shall be constructed in accordance 5 uith ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction"
- The concrete slab-on-arade 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. Control or saw cut joints shall be spaced in interior slabs-on-orade 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
- process winin + to 1/ nous after the slap has been initiated.
 Reinforcing steel may not extend through a control joint.
 Reinforcing steel may extend through a saw cut joint.
 I/I welded wire fabric (UWE) for concrete slabs-on-grade shall be placed at mid-depth of slab. The UWE, shall be securely supported during the concrete pour.

- <u>CONCRETE REINFORCEMENT:</u> I. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- Thermosh 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 20% by volume (15 pounds per cubic yard) Fibermesh shall comply with ASTM CIII6, any local building code requirements, and shall meet or exceed the current industry 4
- standard. Stæel reinforcing bars shall be new billet steel conforming to
- 6
- ASTM A65, grade 60. ASTM A65, grade 60. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Nanual of Standard Practice for Detailing Concrete Structures" Horizontal footing and wall reinforcement shall be continuous and shall have 30° bends, or comer bars with the same are for acless as the borgent at the class B size/spacing as the horizontal reinforcement with a class B
- tension splice. 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 doule 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.
- Solid saun 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. LVL or PSL engineered wood shall have the following minimum

- 2.4.Fc = 100 psi
- Wood in contact with concrete, masony, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance
- Nails shall be common wire nails unless otherwise noted.
- specifications. All beams shall have full bearing on supporting framing members
- unless otherwise noted. Exterior and load bearing stud walls are to be 2x4 SYP #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.
- King studs shall be continuous. Individual studs forming a column shall be attached with one lod nall # 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all filor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3) 10d nails @ 24" O.C.
- 10. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be Inter beams, + py beams and ppg side back to be the bolted together with (2) rous of 12^n diameter through bolts staggered = 16" OC. 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:

- <u>QOD TRUSES</u>. 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 overail 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 a specification to the designed for all required loadings
- 2 Ine wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 1-05), 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
- Hrve expension, provide a statement of the trusses. The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction" (NDS) and "Design Specification for Metal Plate Connected Wood Trusses." 3.
- 4. The truss manufacturer shall provide adequate bracing Instruiss manufacturer sharp provide adequate cracing 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 fo
- the trusses.
 Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacture

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.

2

- UCOD STRUCTURAL PANELS: I. Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA
- All structurally required wood sheathing shall bear the mark of the APA

WOOD FRAMING:

- ign values: 2.1. E = 1,900,000 psi
 - - 2.2. F_b = 2600 psi 2.3. F_v = 285 psi
 - with AWPA standard C-2
 - Lag screws shall conform to ANSI/ASME standard B182.1-1381. Lead holes for lag screws shall be in accordance with NDS

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Development

	DR HORTON PROJECT	<u>1 Sign-077:</u>
I	Manager	Signature
	Operations	
	Operations System	
I	Operations Product	

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culent: Dr. Hercin Carolina Division 2009 Arramidge Bivd. Charoutis, NC 20213
FROJECT: Standard Details (OX-15) Coversheet
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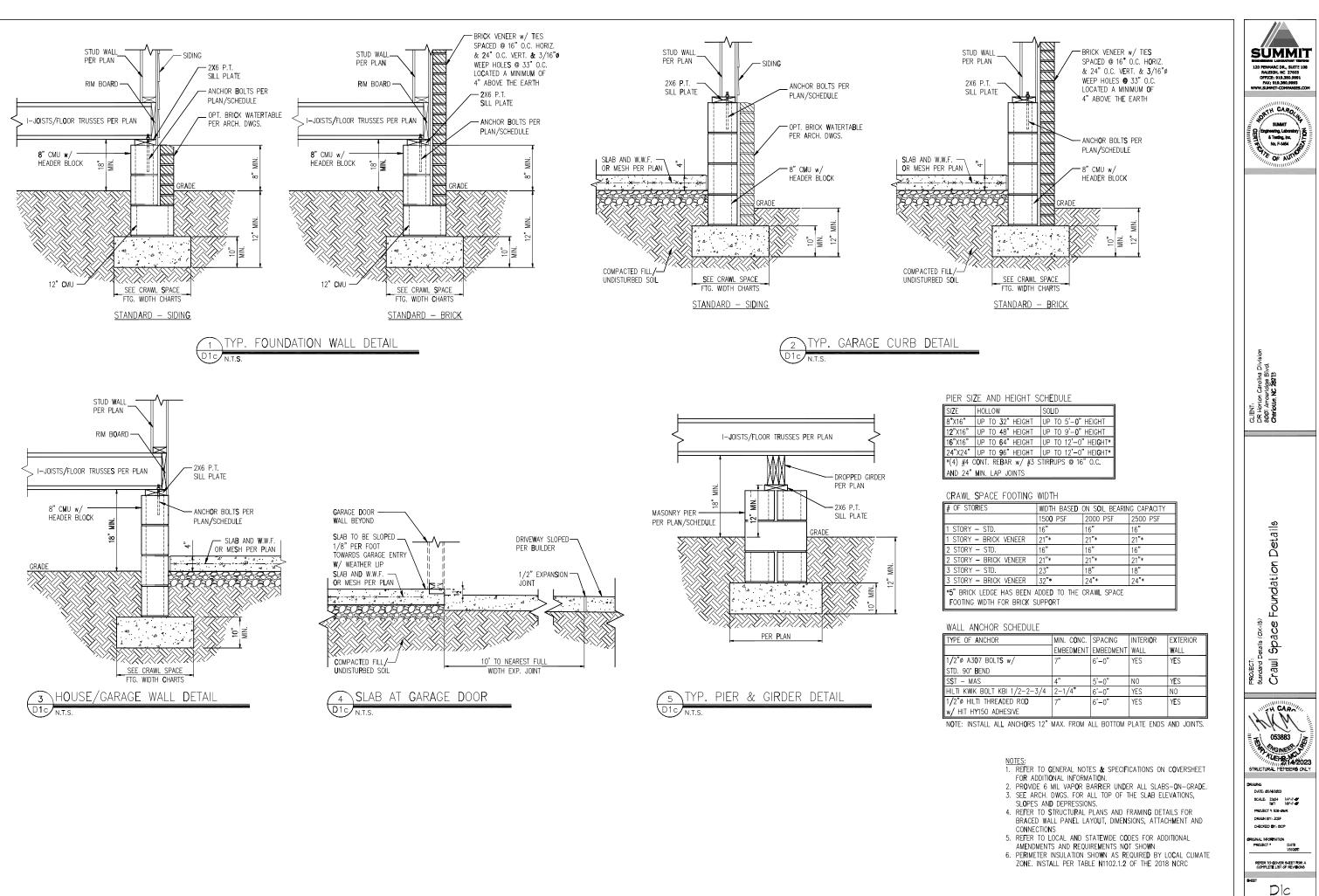
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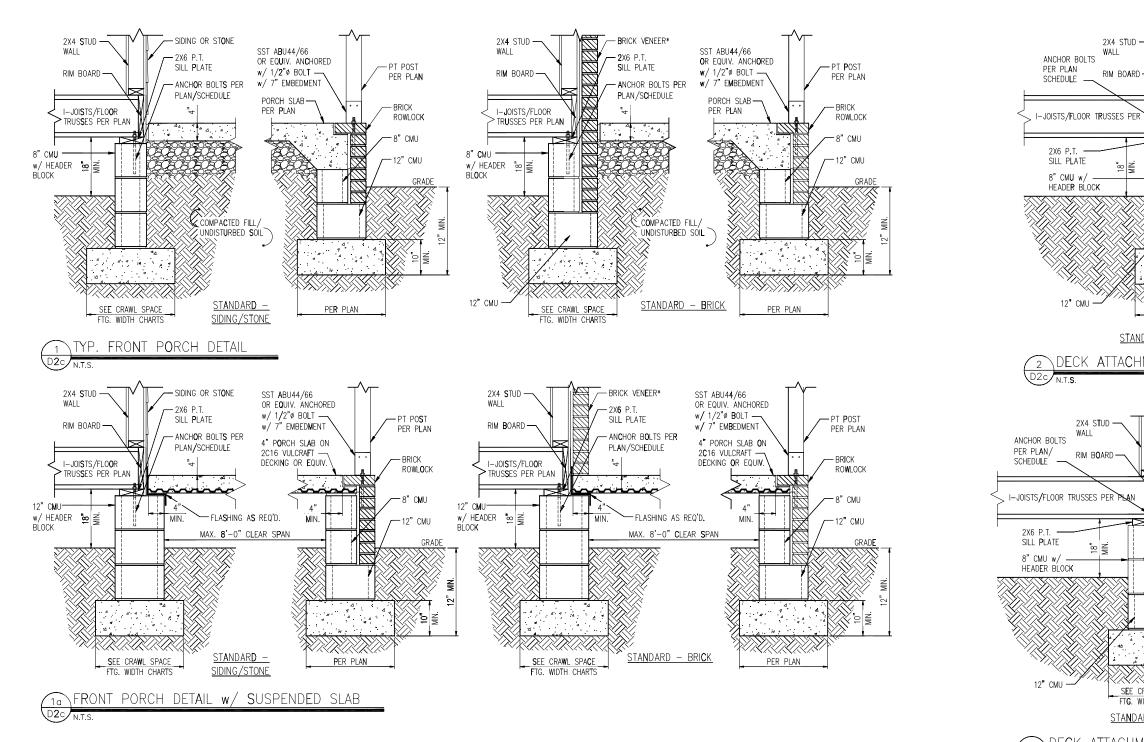
- Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information, theathing shall be applied with the long direction perpendicular to framing, unless noted otherwise. Roof sheathing shall be APA rated sheathing exposure 1 or 2.
- Roof sheathing shall be continuous over two subports 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
- support by use of T4C plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the
- She building Code. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

<u>STRUCTURAL FIBERBOARD PANELS:</u> I. 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 information.
- Sheathing shall have a 1/8" gap at panel ends and edges are

have a span rating consistent with the framing spacing, Use suitable edge support by use of plyucod clips or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code. Wood floor sheathing to its supporting framing with (1)-8d CC ringshank nail at 6°/oC at panel edges and at 2°/oC in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied perpendicular to framing sheathing shall be applied perpendicular to framing sheathing shall be applied perpendicular to framing. Sheathing and the edge support buse of TKG plucod or lumbor blocking unless





	DECK ATTACHMENT	SCHEDULE (A	ALL STRUCTURES	FXCEPT BRICK)	
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MAX. 8'-0" JOIST	MAX. 16'-0" JOIST
SPAN	SPAN
(1) @ 3'-6" 0.C.	(1) @ 1'-8" O.C.
AND	AND
(2) @ 8" 0. C .	(3) @ 6" O.C.
	SPAN (1) @ 3'-6" O.C. AND

a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.

b. MINIMUM EDGE DISTANCE FOR BOLTS IS 21".

c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF $1\frac{1}{2}$ "

DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

FASTENERS	MAX. 8'-0" JOIST	MAX. 16'-0" JOIST
	SPAN	SPAN
5/8" GALV. BOLTS w/ NUT & WASHER ^D	(1) @ 2'-4" 0.C.	(1) @ 1'-4" O.C.

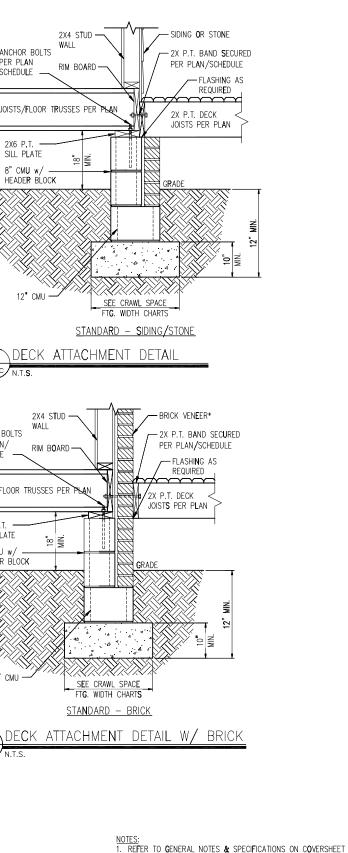
a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.

b. MINIMUM EDGE DISTANCE FOR BOLTS IS 21".

CRAWL SPACE FOOTING WIDTH

# OF STORIES	WIDTH BASED	ON SOI L BEARIN	ig capa c ity
	1500 PSF	2000 PSF	2500 P S F
1 STORY - STD.	16"	16"	16"
1 STORY - BRICK VENEER	21"*	21"*	21"*
2 STORY - STD.	16"	16"	16"
2 STORY - BRICK VENEER	21"*	21"*	21"*
3 STORY - STD.	23"	18"	18"
3 STORY - BRICK VENEER	32"*	24"*	24"*
*5" BRICK LEDGE HAS BEEN / FOOTING WIDTH FOR BRICK S		CRAWL SPACE	

*BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT. AND 3/16"Ø WEEP HOLES @ 33" O.C. LOCATED A MINIMUM OF 4" ABOVE THE EARTH

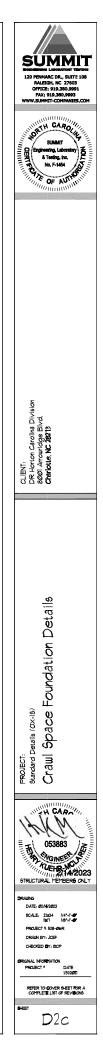


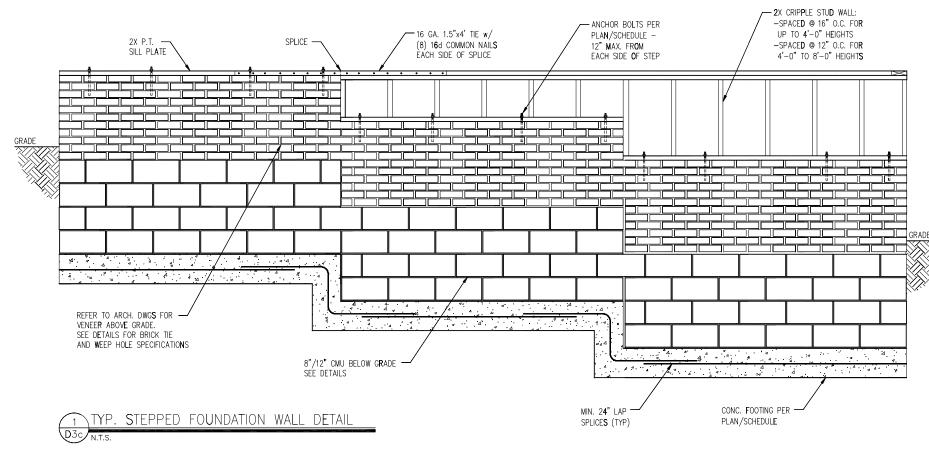
FOR ADDITIONAL INFORMATION.

D2c

NTS

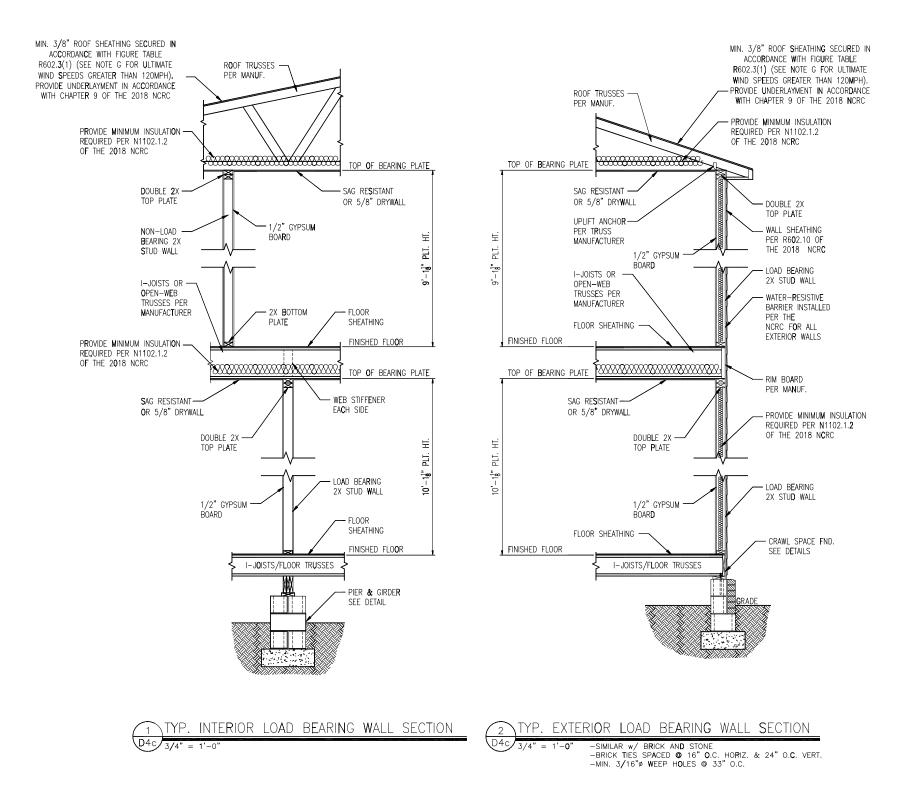
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. . SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL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

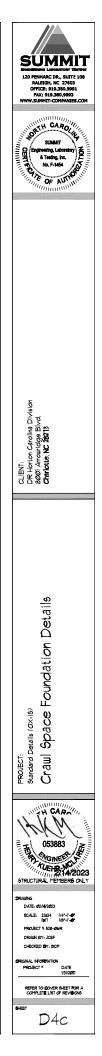




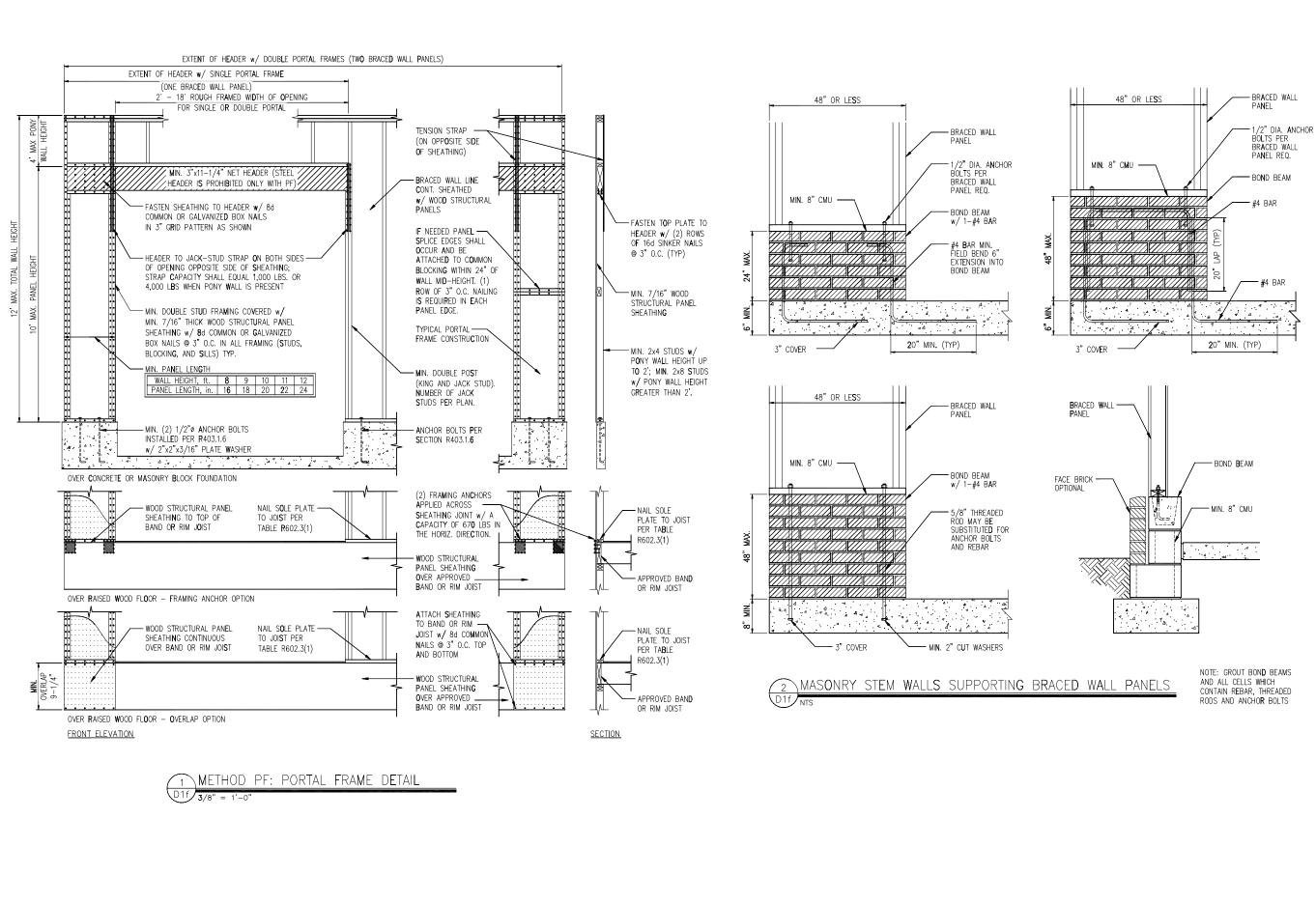


- NOTES: 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
 REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR
- BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND
- CONNECTIONS 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN
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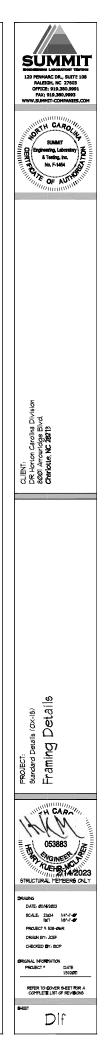


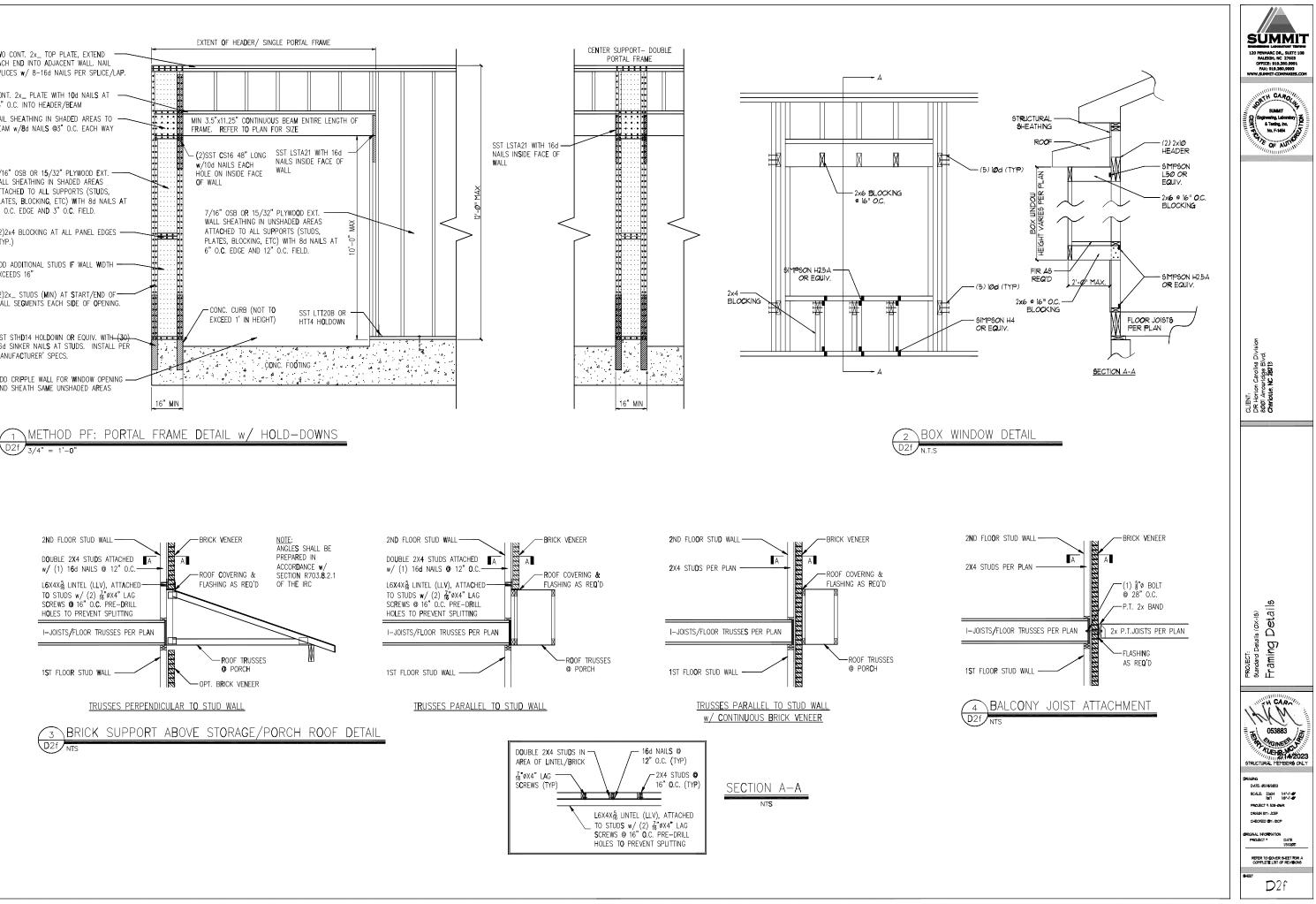


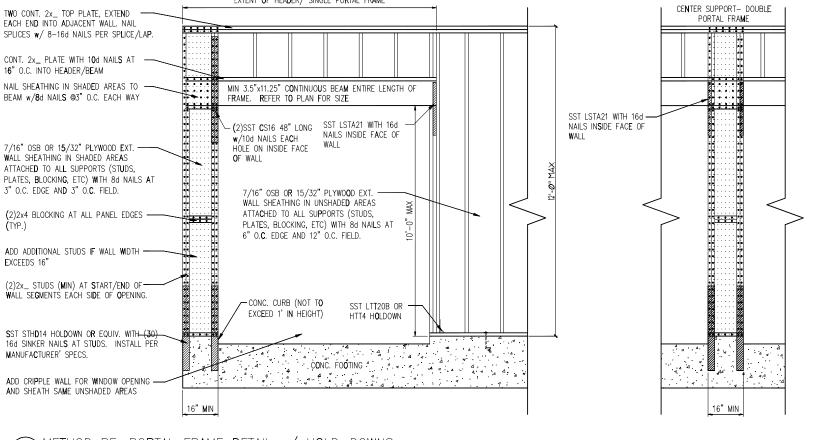
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- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND
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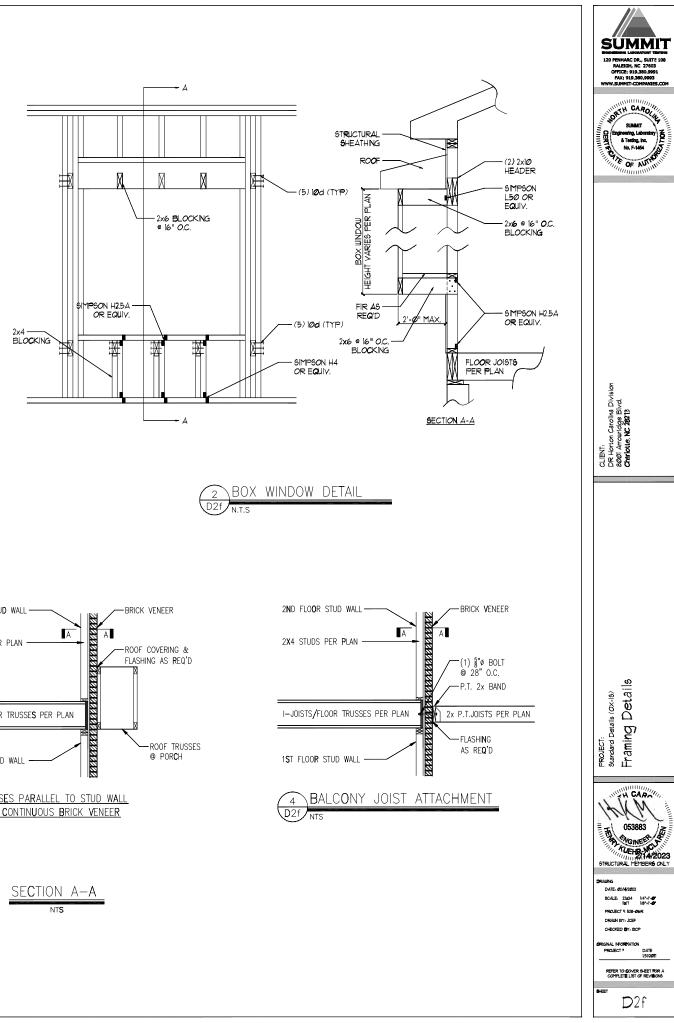


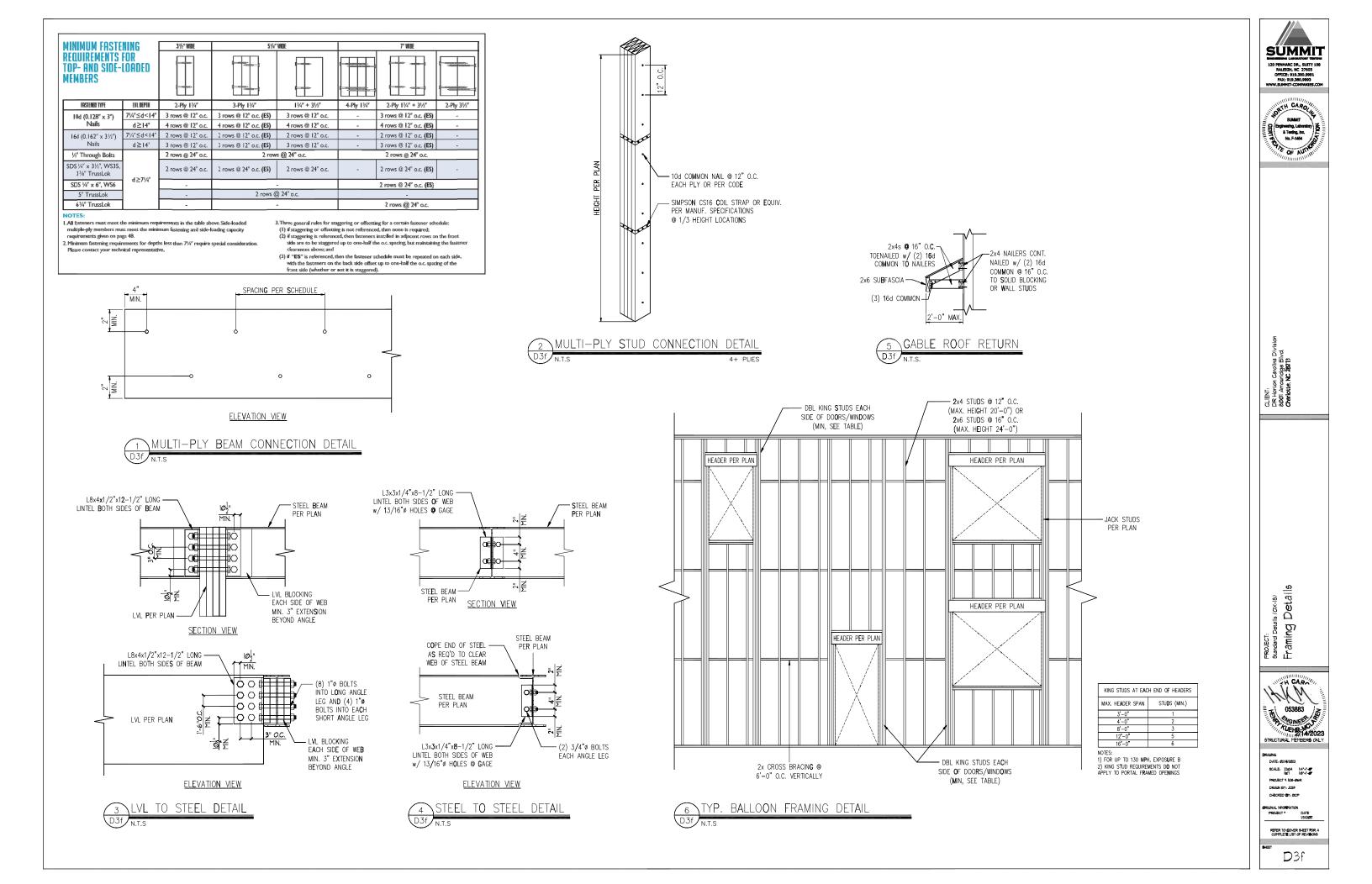


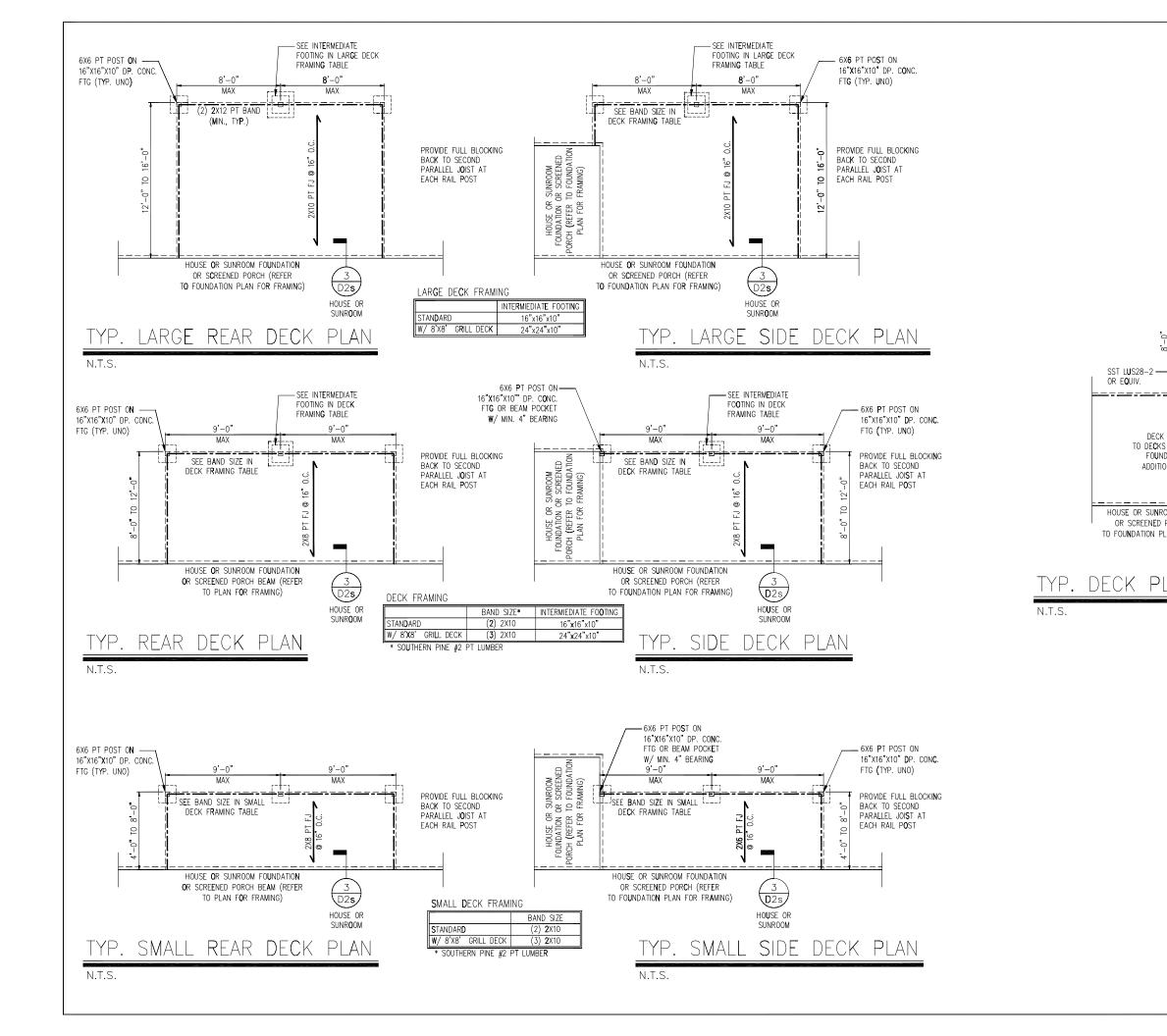


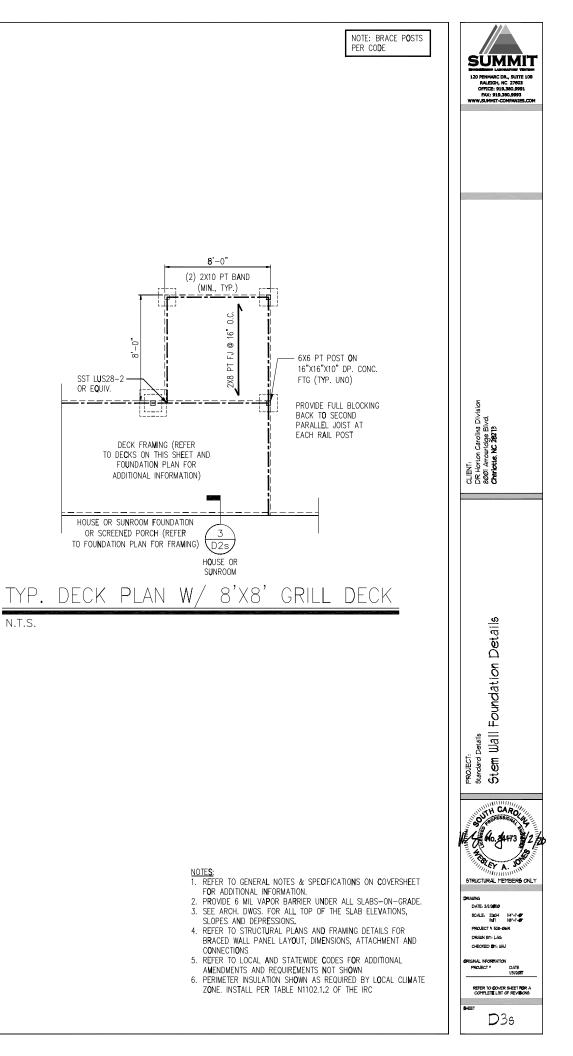




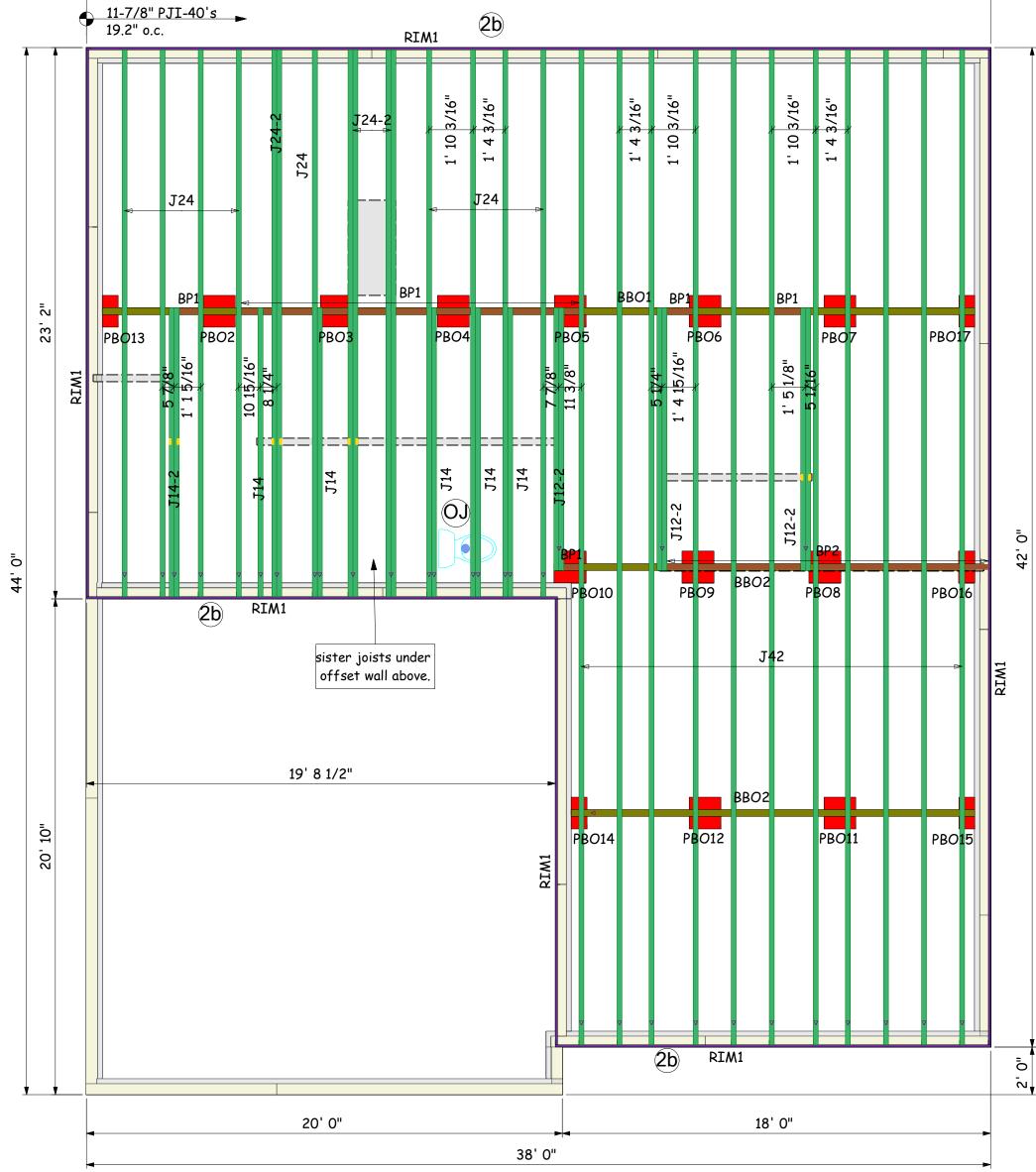


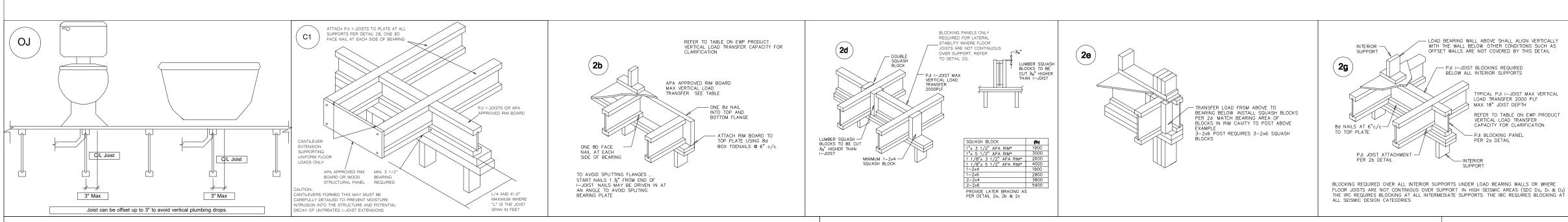












** PLUMBING DROPS NOTED ARE IN APPROXIMATE LOCATIONS PER PLAN. BUILDER MUST VERY LOCATIONS BEFORE SETTING JOISTS.

3/4" 4x8 OSB 1 39 KEMPSVILLE BUILDING MATERIALS IS NOT RESPONSIBLE FOR THE DESIGN OR CALCULATION OF ANY AND ALL I-JOIST AND LVL/PSL BEAM MATERIAL. ALL ENGINEERING AND INFORMATION FOR THIS MATERIAL IS TO BE PROVIDED BY THE ENGINEER OF RECORD MARKED ON APPROVED SET OF PLANS. ALL BEAM PLACEMENTS ARE PER THE ENGINEERING RECEIVED. ALL CONNECTION DETAILS TO BE PROVIDED BY ENGINEER OF RECORD. REFER TO ENGINEER OR RECORD FOR ALL MULTI-PLY LVL/ I-JOIST CONNECTION PATTERNS. BUILDER TO VERIFY ALL MATERIAL LENGTHS, QUANTITIES, AND SIZES PRIOR TO ORDERING.

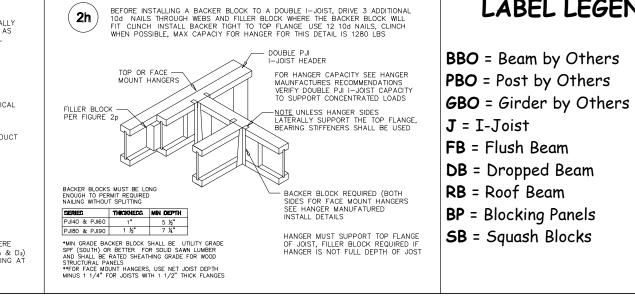
		Products		
PlotID	Length	Product	Plies	Net Qty
J42	42' 0"	11 7/8" PJI-40	1	11
J24	24' 0"	11 7/8" PJI-40	1	9
J24-2	24' 0"	11 7/8" PJI-40	2	6
J14	14' 0"	11 7/8" PJI-40	1	5
J14-2	14' 0"	11 7/8" PJI-40	2	2
J12-2	12' 0"	11 7/8" PJI-40	2	6
RIM1	12' 0"	1 1/8" × 11 7/8" APA Rim Board	1	14
BP1	2' 0"	11 7/8" PJI-40	1	8
BP2	2'0"	11 7/8" PJI-40	1	6
		Accessories		
PlotID	Length	Product Plies Net Qt	.y	

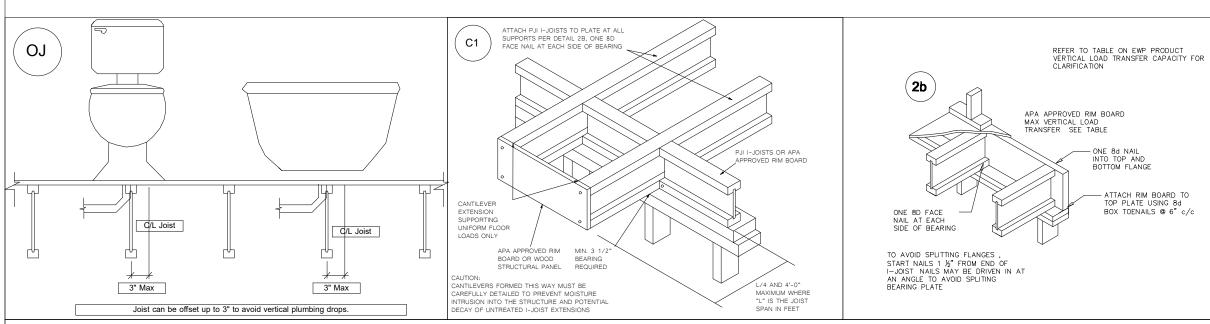
38' 0"

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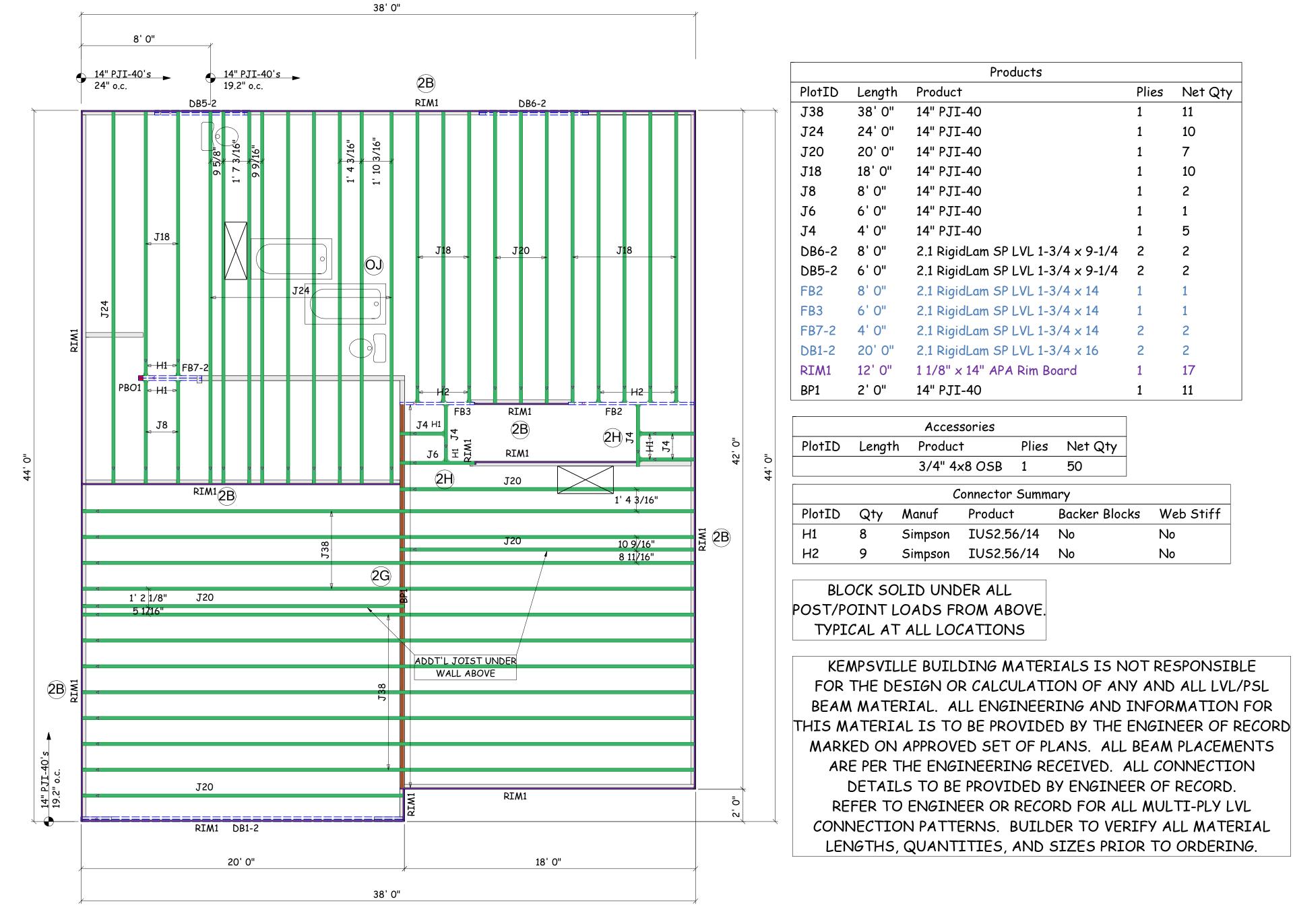
<u>1ST FLOOR LAYOUT</u>

LABEL LEGEND





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



2e)

ELOCKING PANELS ONLY REQUIRED FOR LATERAL STABILITY WHERE FLOOR JOISTS ARE NOT CONTINU OVER SUPPORT, REFER TO DETAIL 2G.

PJI I-JOIST MAX VERTICAL LOAD TRANSFER 2000PLF

__%"

LUMBER SQUASH BLOCKS TO BE CUT 次。"HIGHER THAN I-JOIST

ातन

 SQUASH BLOCK
 (h)

 1"x 3 1/2" APA RIM*
 1900

 1"x 5 1/2" APA RIM*
 2600

 1 1/8"x 5 1/2" APA RIM*
 2600

 1 1/8"x 5 1/2" APA RIM*
 4000

 1 -2×4
 400

PROVIDE LATER BRACING AS PER DETAIL 29, 26 & 20

2d

LUMBER SQUASH —/ BLOCKS TO BE CUT ¼6" HIGHER THAN I—JOIST

DOUBLE SQUASH BLOCK

T UNIT

MINIMUM 1-2×4 ---/ SQUASH BLOCK

BLOCK SOLID UNDER ALL POST/POINT LOADS FROM ABOVE. TYPICAL AT ALL LOCATIONS

• = ·							
DB1-2	20' 0"	2.1 Rigi	dLam SP	LVL 1-3	3/4 × 16	2	2
RIM1	12' 0"	1 1/8" >	< 14" APA	Rim B	oard	1	17
BP1	2' 0"	14" PJI	[-40			1	11
		Acces	sories				
PlotID	Length	Produc	t	Plies	Net Qty		
		3/4" 4	x8 OSB	1	50		
		C	Connector	' Summ	ary		
PlotID	Qty	Manuf	Produc	t	Backer Bloc	ks	Web Stiff
H1	8	Simpson	IUS2.5	6/14	No		No
H2	9	Simpson	IUS2.5	6/14	No		No

KEMPSVILLE BUILDING MATERIALS IS NOT RESPONSIBLE

FOR THE DESIGN OR CALCULATION OF ANY AND ALL LVL/PSL

BEAM MATERIAL. ALL ENGINEERING AND INFORMATION FOR

MARKED ON APPROVED SET OF PLANS. ALL BEAM PLACEMENTS

ARE PER THE ENGINEERING RECEIVED. ALL CONNECTION

DETAILS TO BE PROVIDED BY ENGINEER OF RECORD.

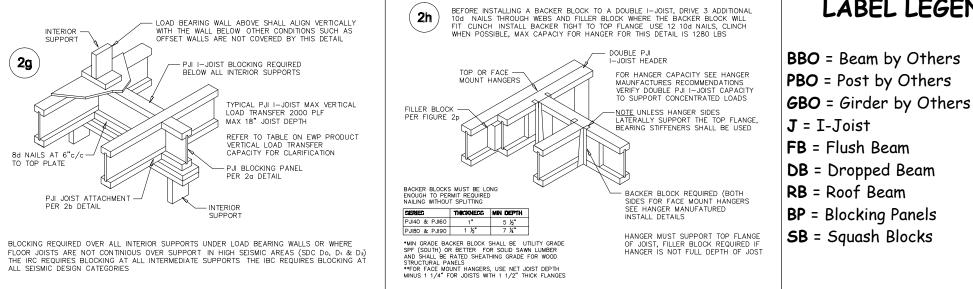
REFER TO ENGINEER OR RECORD FOR ALL MULTI-PLY LVL

CONNECTION PATTERNS. BUILDER TO VERIFY ALL MATERIAL

LENGTHS, QUANTITIES, AND SIZES PRIOR TO ORDERING.

TRANSFER LOAD FROM ABOVE TO BEARING BELOW INSTALL SQUASH BLOCKS PER 2d MATCH BEARING AREA OF BLOCKS IN RIM CAVITY TO POST ABOVE EXAMPLE 3-2x6 POST REQUIRES 3-2x6 SQUASH BLOCKS

		Products		
PlotID	Length	Product	Plies	Net Qty
J38	38' 0"	14" PJI-40	1	11
J24	24' 0"	14" PJI-40	1	10
J20	20' 0"	14" PJI-40	1	7
J18	18' 0"	14" PJI-40	1	10
J8	8' 0"	14" PJI-40	1	2
J6	6' 0"	14" PJI-40	1	1
J4	4' 0"	14" PJI-40	1	5
DB6-2	8' 0"	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2
DB5-2	6' 0"	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2
FB2	8' 0"	2.1 RigidLam SP LVL 1-3/4 x 14	1	1
FB3	6' 0"	2.1 RigidLam SP LVL 1-3/4 x 14	1	1
FB7-2	4' 0"	2.1 RigidLam SP LVL 1-3/4 x 14	2	2
DB1-2	20' 0"	2.1 RigidLam SP LVL 1-3/4 x 16	2	2
RIM1	12' 0"	1 1/8" x 14" APA Rim Board	1	17
BP1	2' 0"	14" PJI-40	1	11



** DAMAGED FLOOR JOISTS SHOULD NOT BE IN	DAMAGED FLOOR JOISTS SHOULD NOT BE INSTALLED UNLESS APPROVED BY COMPONENT PLANT.	** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.	** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.	NTS.
Desig Projec	DR HORTON		ement Plan Only . All designs of RC Code Requirements along with es. This is NOT an engineered	00/00 00/00 00/00 00/00
06/1 ner: [44 Mason Ridge		placement plan. This placement plan is created from plans provided by the customer using Manufactures guidelines. It is the responsibility of the EOR, or builder to review and approve all bearing conditions. connections. spans. loading. product	0/00 0/00
9/24 DW 2406(WILMINGTON B		Do not notch or drill holes in beams or ut prior approval from the manufacturing following hole guidlines in the installation	Na Na Na Na
	Second Floor Framing	Certer Lumber Company	ler takes full responsibility for doing so vill be accepted.	me me me me me

