ABBREVIA	TIONS	IND	FX			1
ABY ABOVE A/C AIR CONDITIONING A.D. AREA DRAIN	L LENGTH LA LAUNDRY	MODEL '	HAYDEN'			
ADJ ADJISTABLE ALT ALTERNATE ALIM ALIMINIM	LAV LAVATORY LVR LOWER	0	TITLE SHEET / COVER SHEET	IK	FRONT ELEVATION 'K'	
ARCH. ARCHITECTURAL	MAX HAXIMUM MECH MECHANICAL	0.1	QUICK VIEW	IJК	ROOF PLAN 'K'	
BA BATHROOM BD BOARD	HFR. MANUFACTURER	0.2	QUICK VIEW	2K	SIDE AND REAR ELEVATIONS 'K'	1
BF BI-FOLD (DOOR) BLDG BUILDING	MIN MINIHUM MSC MISCELLANEOUS N NORTH N.T.S. NOT TO SCALE	IA	FRONT ELEVATION 'A'	2.I K	SIDE AND REAR ELEVATIONS 'K'-	
BLK BLOCK (CHUb) BLM BELON BH BEAH BP BL+PASS (DOOR)	O.G.D. OVERHEAD GARAGE DOOR	I.I.A	ROOF PLAN 'A'		W CRAWL SPACE	
	OH OVERHEAD OPT OPTIONAL PAR PARALLEL	2 A	SIDE AND REAR ELEVATIONS 'A'	2.2 K	SIDE AND REAR ELEVATIONS 'K'-	
BOT BOTTOM BTWN BETWEEN CAR CARDET	P.B. PUSH BUTTON PDR PONDER	2.I A	SIDE AND REAR ELEVATIONS 'A'-		W/ BASEMENT	
CAB CABINET CER CERAMIC C.L. CONTROL JOINT OR CONSTRUCTION JOINT	PED PEDESTAL PL PLATE		W CRAWL SPACE	3 M5 K	MONOLITHIC SLAB PLAN 'K'	
CL CLOSET OR CENTER LINE	P.T. PRESERE TREATED WOOD	2.2 A	SIDE AND REAR ELEVATIONS 'A'-	3 SW K	STEM WALL PLAN 'K'	
CLS CEILING CLR CLEAR CHU CONCRETE MASONRY UNT COL COLLINN	PVC POLYVINYL CHLORIDE PIPE PVMT PAVEMENT PJN PRE-MIRE	1000-00 1	W/ BASEMENT	3 C5 K	CRAWL SPACE PLAN 'K'	1
COL COLLINN CONC CONCRETE	PHD PLIMOOD	3 MS A	MONOLITHIC SLAB PLAN 'A'	3 B5 K	BASEMENT PLAN 'K'	1
CONC CONCRETE C CARPET CR CORROSION RESISTANT CART CASEMENT	r riser Rag return air grill Ref reference	3 SW A	STEM WALL PLAN 'A'	4 K	IST FLOOR PLAN 'K'	1
G.T. CERAMIC TILE	REFR REFRIGERATOR REG REGURED	3 CS A	CRAWL SPACE PLAN 'A'	5 K	2ND FLOOR PLAN 'K'	1
DEL DOUBLE DH DOUBLE HUNS	5 SOUTH SD SHICKE DETECTOR	3 BS A	BASEMENT PLAN 'A'			1
dim dimension disp disposal	50 SHOKE DETECTOR 5F. SQUARE FEET 56D. SLIDING GLASS DOOR SHI SINGLE HUNG OR SHELF	4 A	IST FLOOR PLAN 'A'	IP	FRONT ELEVATION 'P'	1
DN DOWN DR DOOR		5 A	2ND FLOOR PLAN 'A'	I.I P	ROOF PLAN 'P'	1
ds donnerout dhi dish washer dhg draning	SLOPE / SLIDING SAP SHELF AND POLE SPEC SPECIFICATIONS STD STANDARD	100.000		2P	SIDE AND REAR ELEVATIONS 'P'	1
E EAST EA EACH	STR STRUCTURAL	ΙB	FRONT ELEVATION 'B'	2.I P	SIDE AND REAR ELEVATIONS 'P'-	1
ELEV ELEVATION ELEC ELECTRICAL	511 STABOL 545 SHOOTH FOUR SIDES	I.I B	ROOF PLAN 'B'		W CRAWL SPACE	
EQ EQUAL EXT EXTERIOR	T TREAD (AT STAIRS) OR TILE T.B. TOWEL BAR	2 B	SIDE AND REAR ELEVATIONS 'B'	2.2 P	SIDE AND REAR ELEVATIONS 'P'-	WOODGRO\
FAU FORCED AIR UNIT F.C. FLOOR CHANGE	TEMP. TEMPERED (GLASS) TAG TONGUE & GROOVE	2.I B	SIDE AND REAR ELEVATIONS 'B'		W BASEMENT	100Dunon
F.D. FLOOR DRAIN FFL FINISH FLOOR LINE	T.D.C. TOP OF CIRB TV TELEVISION TYP TYPICAL		W CRAWL SPACE	3 MS P	MONOLITHIC SLAB PLAN 'P'	RED CEDAR WA
F.G. FINSHED GRADE FLR. FLOORING)	UN.O. UNLESS NOTED OTHERWISE	2.2 B	SIDE AND REAR ELEVATIONS 'B'-	3 SW P	STEM WALL PLAN 'P'	
FL FLOURESCENT (LIGHT) FND FOUNDATION	VEL VAPOR BARRIER VERT VERTICAL		W/ BASEMENT	3 CS P	CRAWL SPACE PLAN 'P'	FUQUAY VA
F.D.S. FACE OF STUD FTG FOOTING FX FIXED 6LASS	V.T.R. VENT THRU ROOF H WASHING MACHINE HD HOOD HDH HINDOH	3 MS B	MONOLITHIC SLAB PLAN 'B'	3 BS P	BASEMENT PLAN 'P'	FUQUATVA
GALY GALVANIZED GAR GARAGE	NH MATER HEATER	3 SW B	STEM WALL PLAN 'B'	4 P	IST FLOOR PLAN 'P'	
6.B., GYPSUM BOARD 6D GRADE OR GRADING	HI WROUGHT IRON HIG WALK-IN CLOSET W/WO WITH OR HITHOUT	3 CS B	CRAWL SPACE PLAN 'B'	5 P	2ND FLOOR PLAN 'P'	
6DD. GARAGE DOOR OPENER 6FI GROUND FALLT INTERRUPTER	WP WATERPROOF(ING)	3 B5 B 4 B	BASEMENT PLAN 'B'	10		
6L 6LASS OR GLAZINS 61P BD 61PSUM BOARD	HWM WELDED WIRE MESH IL PROPERTY LINE	4 D 5 B	IST FLOOR PLAN 'B' 2ND FLOOR PLAN 'B'	IR	FRONT ELEVATION 'R'	
HB HOSE BEB HD HEAD OR HARD HDR HEADER	Ø ROUND / DIAMETER	50	ZIN I LOUR FLAN D	1.1 R	ROOF PLAN 'R'	
HOT HEIGHT HVAC HEATING/ADMILLATING/AIR COND.	4. CENTERLINE POUND / NUMBER	IF	FRONT ELEVATION 'F'	2R 2.I R	SIDE AND REAR ELEVATIONS 'R' SIDE AND REAR ELEVATIONS 'R'-	
HND HARDWOOD		LIF	ROOF PLAN 'F'	2.I K	W CRAWL SPACE	
		2 F	SIDE AND REAR ELEVATIONS 'F'	2.2 R	SIDE AND REAR ELEVATIONS 'R'-	B.44
KIT KITCHEN		2.1 F	SIDE AND REAR ELEVATIONS 'F'-	LIL N	W BASEMENT	M
BUILDING CODE CO	OMPLIANCE /		W CRAWL SPACE	3 M5 R	MONOLITHIC SLAB PLAN 'R'	
PROJECT INFORMA		2.2 F	SIDE AND REAR ELEVATIONS 'B'-	3 5W R	STEM WALL PLAN 'R'	PLA
I NUJLUT INFURMA			W BASEMENT	3 C5 R	CRAWL SPACE PLAN 'R'	
ALL CONSTRUCTION TO COMPLY WITH LOCA	L CODES AND ORDINANCES	3 MS F	MONOLITHIC SLAB PLAN 'F'	3 B5 R	BASEMENT PLAN 'R'	DATE:
CURRENTLY IN USE WITH THE LOCAL JURISDI	iction.	3 SW F	STEM WALL PLAN 'F'	4 R	IST FLOOR PLAN 'R'	02.22.2
APPLICABLE CODES:		3 CS F	CRAWL SPACE PLAN 'F'	5 R	2ND FLOOR PLAN 'R'	03.10.21 04.14.21
FOLLOW ALL APPLICABLE STATE AND LOCA 2018 NORTH CAROLINA STATE SUPPLEMENTS	AL CODES. 5 AND AMENDMENTS	3 BS F	BASEMENT PLAN 'F'			04,14,21
		4 F	IST FLOOR PLAN 'F'	IAS	BUILDING SECTIONS	
CONTRACTOR AND BUILDER SHALL REVIEW I		5 F	2ND FLOOR PLAN 'F'	1.1 A 5	BUILDING SECTIONS	
CONFORMANCE WITH ALL CURRENT APPLICA CONSTRUCTION, BY USING THESE DRAWINGS I	BLE CODES IN EFFECT AT TIME OF FOR CONSTRUCTION IT IS			1.1.2 A S	BUILDING SECTIONS	1 1
UNDERSTOOD THAT CONFORMANCE WITH ALL RESPONSIBILITY OF THE BUILDER AND CONT	LAPPLICABLE CODES IS THE			1.1.3 A S	BUILDING SECTIONS	1 1
Contraction of the Dollars and Contra						
						CC.
PRODUCT: SINGLE FAMILY RESIDENCE				6	BASEMENT UTILITY PLAN	
SINGLE FAMILI RESIDENCE				7 8	IST FLOOR UTILITY PLAN 2ND FLOOR UTILITY PLAN	
OCCUPANCY CLASSIFICATION				100	ZND FLOOK UTILITT PLAN	1
RESIDENTIAL R-3				76	ARCHITECTURAL SHEETS	
CONSTRUCTION TYPE:						4
TYPE VB		ALL CONSULT	ANT DRAWINGS ACCOMPANYING THESE ARCI	HITECTURAL DRAM	NINGS HAVE NOT BEEN	1
			Y OR UNDER THE DIRECTION OF GMD DESIGN			
						J

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141				VI	

			XP Moe	RES 40'S DEL 'HA	S HC ERIE YDEN'	5	
	WOODO RED CEDA FUQUA	R WAY	PIN 0653	3-65-9954.000			NO:         DATE:         REVISION:
			DEL HO	ME			PROJECT TITLE:
		DATE:	DESCRIPTION:				40' Series
		03.10.21 04.14.21 04.15.21	CLIENT REVISIONS CLIENT REVISIONS CLIENT REVISIONS				
		CON	ISULTAN"	TS.			CTION
							FOR CONSTRUCTIO
		BUIL	DER SE	T:	AREA CAL	CULATIONS:	Express
	S RECEIVED FROM THE STUDY OF THE PROPOSED SITE, ERAL CONTRACTOR. IN THE THE SOILS CONTINON SHALL RE STATED BY THE SEC OF STRUCTURAL DESIGN. SNDITIONS MEET OR EXCEED STOR SHALL COMPLY AND 1, ORDINANCES AND 1, ORDINANCES AND HAVING JURISDICTION. THE ARE OF THESE REQUIREMENTS SCOND FLOOR ONLY MIN ALL BEDROOMS TO HAVE A CLEAR LEAR OFENING HEIGHT SHALL BE 22' AND 20' GLAZING HEIGHT SHALL BE 22' AND	OF CONSTRUCTION THIS SET OF PLA AND METHODS O NECESSARLLY DE DIMENSIONS, TYP DIMENSIONS, TYP DIMENSIONS, TYP DEPCIFIC MATER CLIENT / CONTRA AND METHODS O CONSTRUCTION R WERE GUALITY TYPES OF WORK. MAUFACTURERS GUALITY OR PER GUALITY OR PER GUALITY OR PER DE CONSTRUCTION R WERE TWO OR N WITH THE MOST S EGUAL, NO WHE	No is sufficient to obtain f construction necessary scribed, the plans device infinited to specify particl is of materials, and obtain the plans and antipart construction specific to equirements and quality is device the plans and sub- provide the plans infinited to the provide construction specific to construction specific to the specific to the specific to the specific to the specific to the specific to the specific to the specific to the specific to the specific to th	NOTES HEREINAFTER REFERRED TO AS 'FLANE'. A BUILDING PERITIF, HON-PERI, ALL MATERIALS TO COMPLETE THE FROLECT ARE NOT ATE AND DESCRIEP ONLY LOCATIONS, NEL METHODS OF ASSEMBLING OR FASTENING. JAR PRODUCTS OR OTHER METHODS OF ANY THE IMPLHEMTATION OF THE FLANE REGULTES A SCRAULE INIT THE AMPLICABLE BUILDING CODES D THIS PRODUCT TYPE AND TYPE OF CONSTRUCTION PROVIDE WORK OF THE SPECIFIC GUALITY ANDE WORK OF THE SPECIFIC GUALITY ANDE NORK OF THE SPECIFIC GUALITY ANDE NORK ANDER SEGURE WORK OF HIGHER COMPLYING WITH THOSE REGULTENTS AND GUALIT F THOSE REGULTENTS AND CHILDREN THOSE REGULTENTS ARE DIFFERENT BUT APPARENTL'.	AREA Ist FLOOR 2nd FLOOR TOTAL LIVING GARAGE PORCH OPT. COVERED PORCH OPT. BARENEW	SQUARE FOOTAGES LEV , K' 1066 SF 1445 SF 2511 SF 422 SF 104 SF 104 SF	PROJECT NO: GMD17049 SHEET TITLE TITLE SHEET
SEC	20°, slažing total, area of not <u>less</u> And Not Less than 5.1 sq ft in the Thon Regiolij) Hat a 4° <del>sphere</del> cannot pass	OLARIFICATION F	Rom the GMD design group	™ BEFORE PROCEEDING.			January 22, 2021 SHEET NO: 0

# GENERAL NOTES DESIGNER NORTH CAROLINA:

CONTRACTOR SHALL VERIFY ALL CADITIONS 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 BRRORS OR CHISSIONS FOUND IN THESE DRAWINGS SHALL BE BROUGHT TO DEVELOPERS AND DESIGNERS ATTENTION IMMEDIATELY.

DO NOT SCALE DRANINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS,

ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.

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

ALL OR BOLING SHEATTUTIONS 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.

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. ELASTOMERIC SHEET HANTERROOFING, FRINKEH AND INSTALL ALL MATERPROOFING COMPLETE A 40 MIL, SELF-ADHERING MEMBRANE OF RUBBERIZED ASPHALT INTEGRALLY BONDED TO POLYETHYLENE SHEETING, OR EQUAL. INSTALL FOR MANAFACTURES AND TRADE ASSOCIATIONS 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 reguirements of the Building Authorities having Jurisdiction over this type of construction and occupancy. SHOP DRAMING REVIEW AND DISTRIBUSTION, ALONG WITH PRODUCT SUBMITIALS, REGUESTED IN THE CONSTRUCTION DOCUMENTS, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR, INLESS DIRECTED OTHERWISE UNDER A SEPARATE AGREEMENT.

DEVIATIONS FROM THESE DOCUMENTS IN THE CONSTRUCTION PHASE SHALL BE REVIEWED BY THE DESIGNER AND THE ONDER RIGR 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 INCLIDING THE WORK AND MATERIALS FURNISHED BY SUBCONTRACTORS AND VENDORS.

THE BUILDER SHALL FURNISH ANY AND ALL REPO THE DULLER SINCE TRANSPORT AND ALL REPORT GEOTECHICAL BUSINEER (SOLIS REPORT) ON THE TO THE DESIGNER, STRUCTURAL, BUSINEER, AND GI EVENT THE GEOTECHICAL REPORTS DO NOT EXIS EVENT THE GEOTECHICAL REPORTS DO NOT EXIS E ASSIMED TO BE A MINIMA DESIGN SOLI PRE'S STRUCTURAL ENSINEER OF RECORD FOR THE THE GENERAL CONTRACTOR SHALL ASSURE THE SOL THE CRITERIA.

THE CRITERIA. ALL HORK FERTORIED BY THE GENERAL CONTR. CONFORM WITH LOCAL AND STATE BUILDING COD REGULATIONS, ALONG WITH ALL OTHER AUTHORITI GENERAL CONTRCATOR IS RESPONSIBLE TO BE A AND GOVERNING REGULATIONS.

PROVIDE AN APPROVED WASHER DRAIN PAN AT THAT DRAINS TO EXTERIOR.

That drains to exterior. Mindow supplier to veripy at least one wind openable area of 40 5g ft. The minimum net the minimum net clear opening width shall be than 50 5g ft in the case of a ground mind case of an upper story window. (Per NCRC 9

ALL HADRAL BALLISTES TO BE STACED SICH BETHERN BALLISTES, (PER LOCAL CODES) PROVIDE STAIR HANDRALS AND GUARDRALS PE LOCAL CODES.

## AVAILABLE WITH OPTIONAL 9'-I" FIRST FLOOR PLATE NOTES AT OPT 9'-I" PLT: - WDW HT SET AT 7'-6" - INTERIOR SOFFITS AT 8'-0" - EXTERIOR SOFFITS AT 8'-0"

### NOTES:

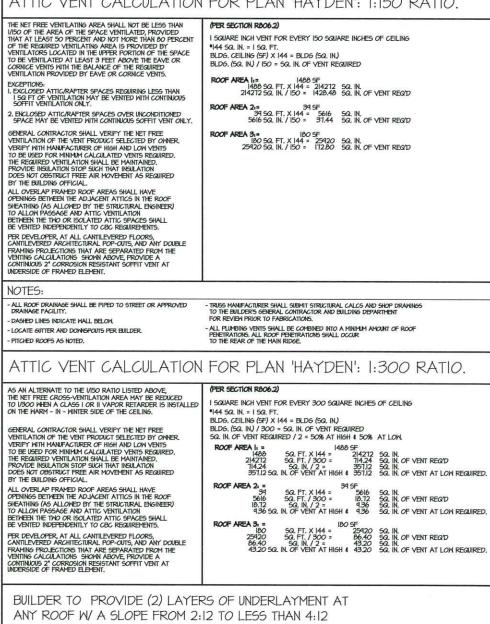
 GRADE CONDITIONS HAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWL BUILDER SHALL YERFY AND CORDINATE FER ACTUAL SITE CONDITIONS.
 NIDION HEAD HEIGHTS.
 STAD FLOR N. 1-0<sup>4</sup> UNAL ON BLEVATIONS.
 ZND FLOR N. 1-0<sup>4</sup> UNAL ON BLEVATIONS. - ROAFING, PITCHED SHINGLES FER DEVELOPER. - KINDONG, MANUFACTURER 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.) I III: TOUCH LUMIN FOI, MUL, FILLE, SIES EXTENCE NULLS, BETT AUEL NICOL EXTENCE NULLS, R-B BATTS HINHAN VERIFY FLOOR OVER GARAGE. ATTIC KEEMALL, R-H BATTS HINHAN VERIFY ATTIC KEEMALL, R-H BATTS HINHAN VERIFY KEY NOTES: MASONRY: ADHERED STONE VENEER AS SELECTED BY DEVELOPER, HEIGHT AS NOTED. 2 HASONRY FULL BRICK AS SELECTED BY DEVELOPER, HEIGHT AS NOTED. 3 MASONRY FULL STONE AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. 4 8" SOLDIER COURSE. 5 ROWLOCK COURSE 6 NA TYPICALS T CORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED. 5 CODE APPROVED TERMINATION CHIMNEY CAP. CORROSION RESISTANT ROOF TO WALL FLASHING, CODE COMPLIANT FLASHING PER NORC RIO5203 STANDING SEAM METAL ROOF, INSTALL PER MANUFCATURER'S MRITTEN INSTRUCTIONS III DECORATIVE WROUGHT IRON, SEE DETAILS. SIDING. (2) VINTL SHAKE SIDING PER DEVELOPER WITH VINTL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS FIERE COMPATI SHAKE SIDING PER DEVELOPER W/ IX4 CORNER TRIM BOARD.) B VINTL LAP SIDING PER DEVELOPER WITH VINTL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS, FIBER CEMENT LAP SIDING PER DEVELOPER IV IX4 CORNER TRIM BOARD.) IN VINTL WAVY SIDING PER DEVELOPER WITH VINTL CORNER TRIM PER DEVELOPER (AT SPECIFIED LOCATIONS, FIBER CEMENT WAVY SIDING PER DEVELOPER W/ IX4 CORNER TRIM BOARD.) VINL BOARD AND BATT SIDING PER DEVELOPER WITH VINTL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS. FIDER COEMIT PANEL SIDING WI WIS BATTS AT 12° OL. PER DEVELOPER WI MA CORNER TRIM BOARD FIDER COEMIT PANEL SIDING WI WIS BATTS AT 12° OL. PER DEVELOPER WI MA CORNER TRIM BOARD I VINIL TRIM SIZE AS NOTED (AT SPECIFIC LOCATIONS) IX FIBER CEMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED TYPON SHUTTERS, TYPE AS SHOWL SIZE AS NOTED. ALL HINDONS WHOSE OFFINIS IS LESS THAN 24 ABOVE THE FINISH FLOOR AND WHOSE OFFINIS IS GREATER THAN T2' ABOVE THE OUTSIDE HALKING SURFACE MUST HAVE HINDON OFFINISHING LIMITING DEVICES COMPLYING WITH THE NCRC SECTION R312.21 AND R312.22.

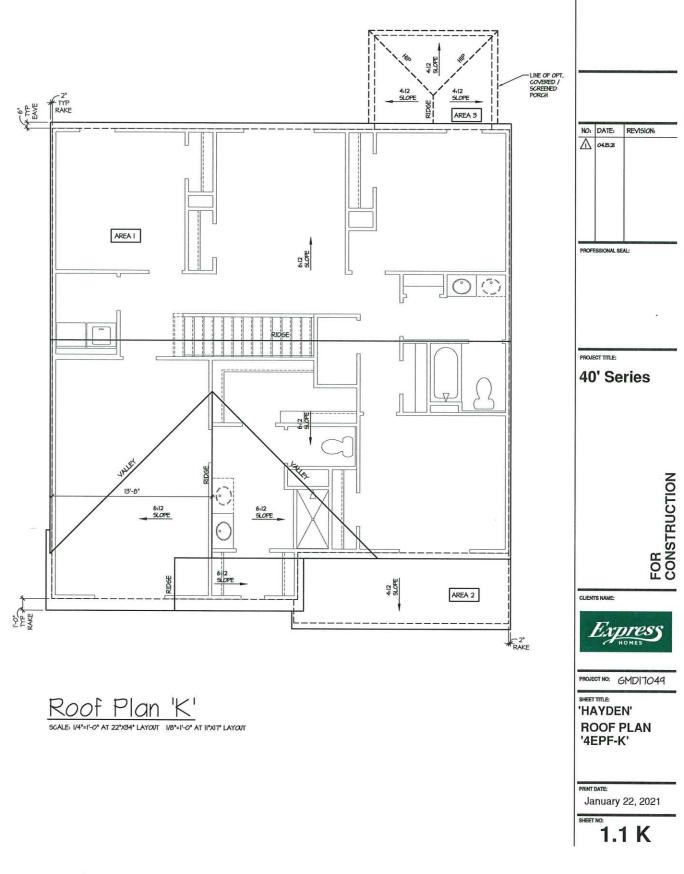


SCALE: 1/4"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT

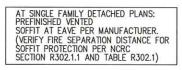


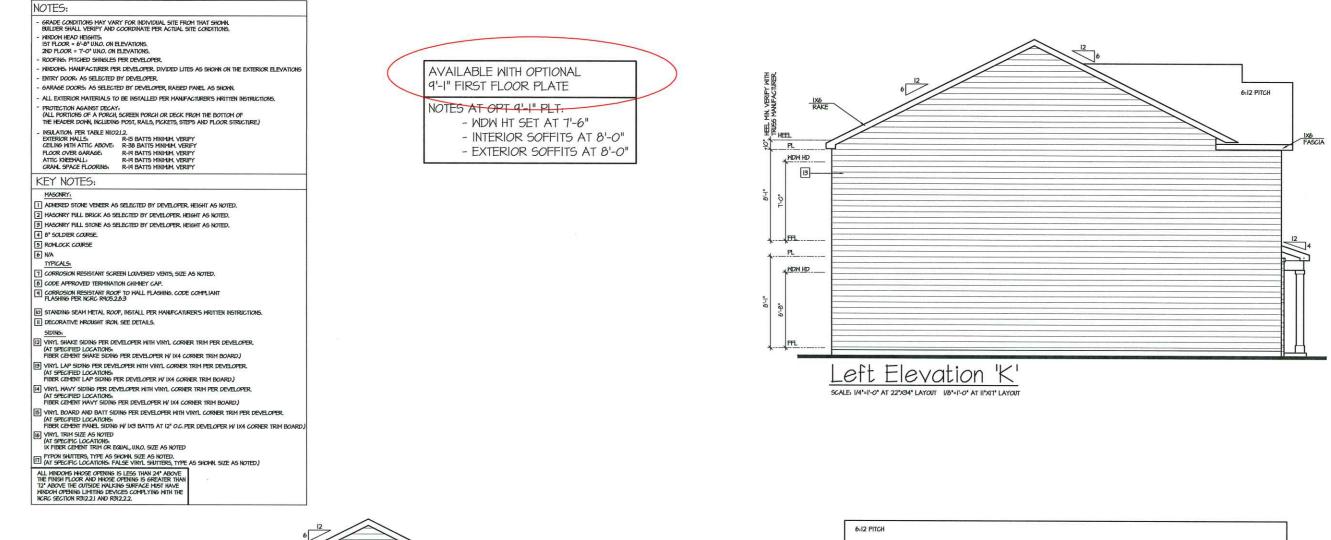
### ATTIC VENT CALCULATION FOR PLAN 'HAYDEN': 1:150 RATIO.

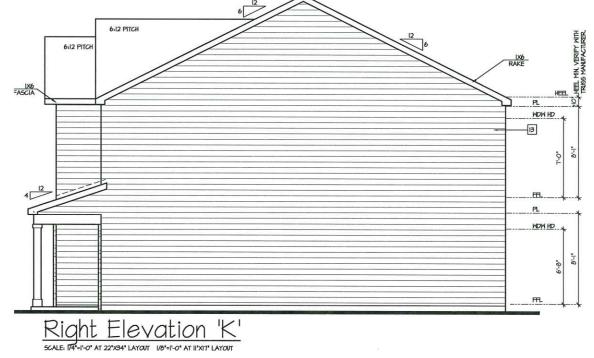






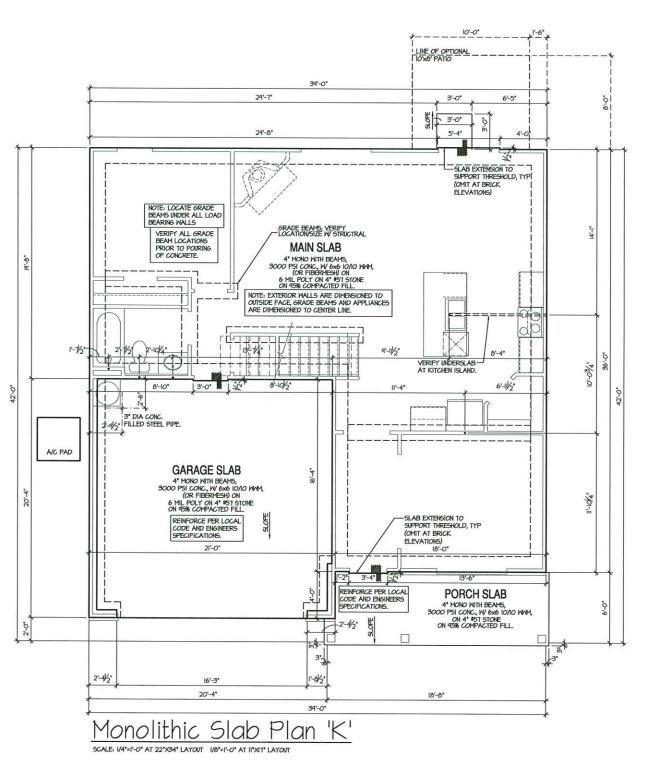








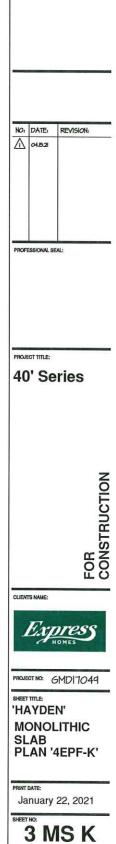
NO1 DATE REVISION
PROFESSIONAL SEAL:
PROJECT TITLE: 40' Series
N
FOR CONSTRUCTION
CLENTS NAME: Express Homes
PROJECT NO: GMD17049 SHEET WILE 'HAYDEN' EXTERIOR ELEVATIONS '4EPF-K'
PRINT DATE: January 22, 2021 SHEET NO: <b>2 K</b>

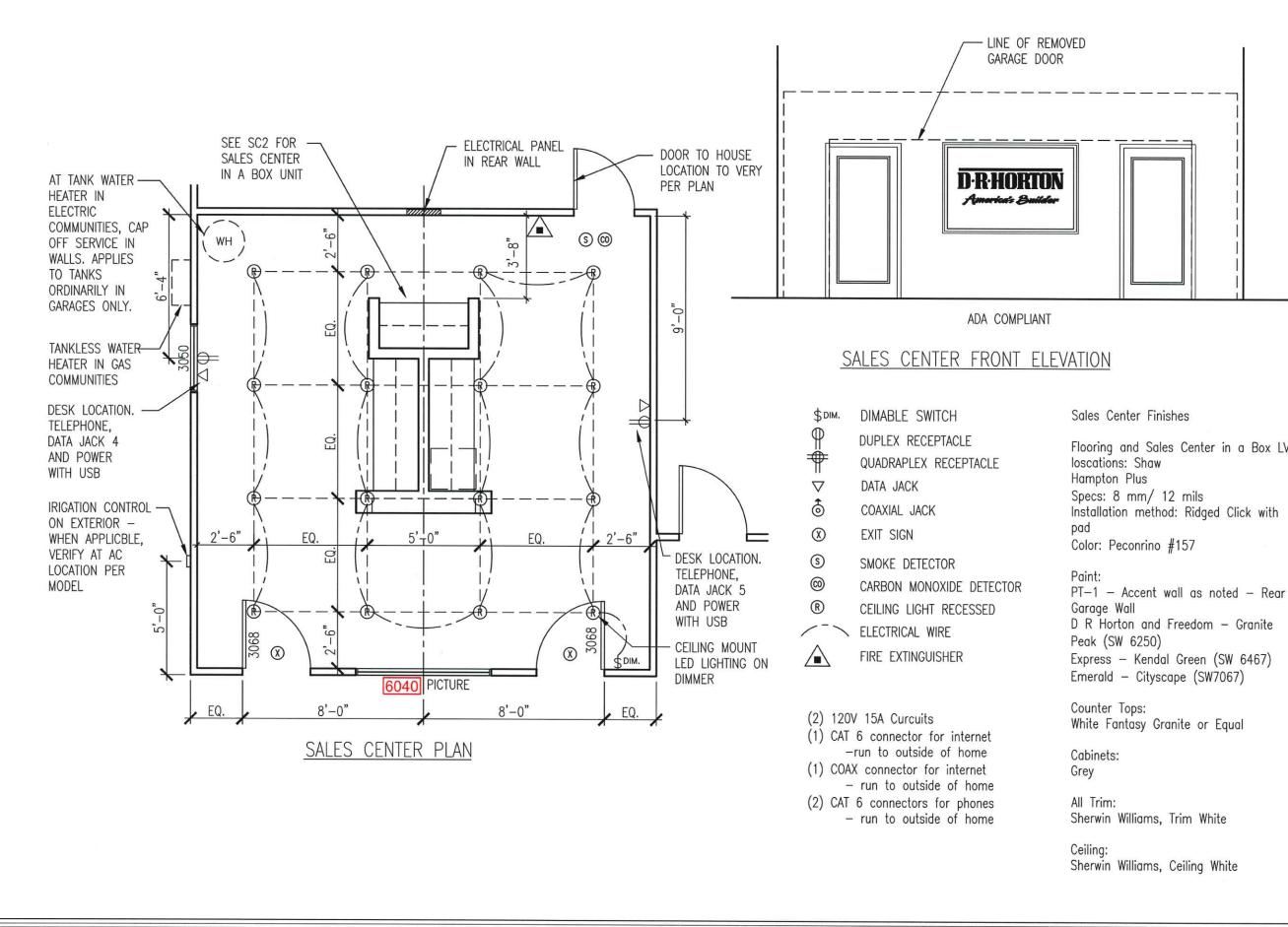


### NOTES FOR NORTH CAROLINA:

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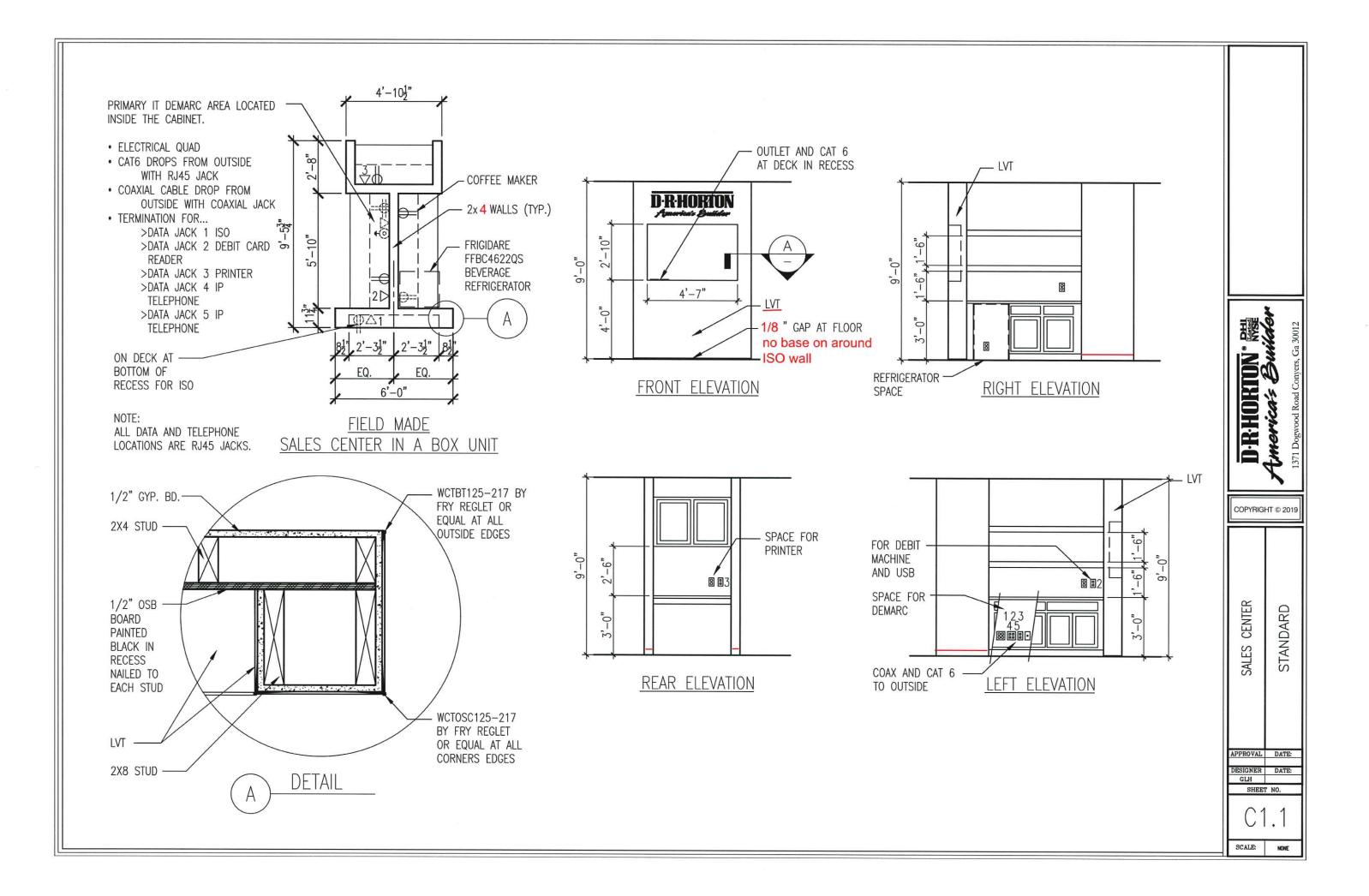
- IRRIGATION SYSTEM SHALL BE DESIGNED TO PREVENT THE SATURATION OF SOIL ADJACENT TO BUILDING. THIS PERIMETER DIMENSION PLAN IS FOR DIMENSIONAL INFORMATION ONLY.
- SLOPE ALL STOOPS AND HARDSCAPE MATERIAL AWAY FROM BUILDING TYPICAL.
- SLOPE GARAGE FLOOR 1/8" PER FOOT TO GARAGE DOOR OPENING.
- VERIFY CURB CUT BLOCKOUT WITH GARAGE DOOR MANUFACTURER.
- REFER TO CIVIL DRAWINGS FOR FINISH SURFACE ELEVATIONS.
- FINISH GRADE SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING. REFER TO SOILS REPORT FOR ANY SPECIFIC REQUIREMENTS
- REFER TO STRUCTURAL DRAWINGS FOR HOLDDOWNS, FOOTING DETAILS, CURB THICKNESS, AND INFORMATION NOT SHOWN ON THIS PLAN.
- PLIMBING 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. 8 1/4" MAX AT INSWING DOORS, (FER NCRC SECTION R311.3.1.)
- TYP STOOP AT INSMING/SLIDER DOORS; 36" DEEP BY THE MIDTH OF THE DOOR SERVED, MINIMUM. (PER NGRC SECTION R311.3.) PROVIDE A SLIP-RESISTANT FINISH.
- FOR THE USE OF EXPOSED GAS WATER HEATERS IN THE GARAGE, PROTECT THE WATER HEATER WITH 3\* DIA CONCRETE FILLED STEEL PIPE EMBEDDED INTO CONCRETE FOOTING.
- S DIA CONCRETE FILLED STEEL FILE EMBELDED INTO CONCRETE PROTING.
   SOLLS TREATHENT.
   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 A SARCULTURE)
   NOOD CONTACTING CONCRETE OR MASONEY OR LESS THAN CODE REGUIRED SEPARATION TO GRADE SHALL BE RESOMER TREATED OR FORMATION GRADE REDWOOD, SET ALL EXTERIOR WALL SILLS IN MASTIC.

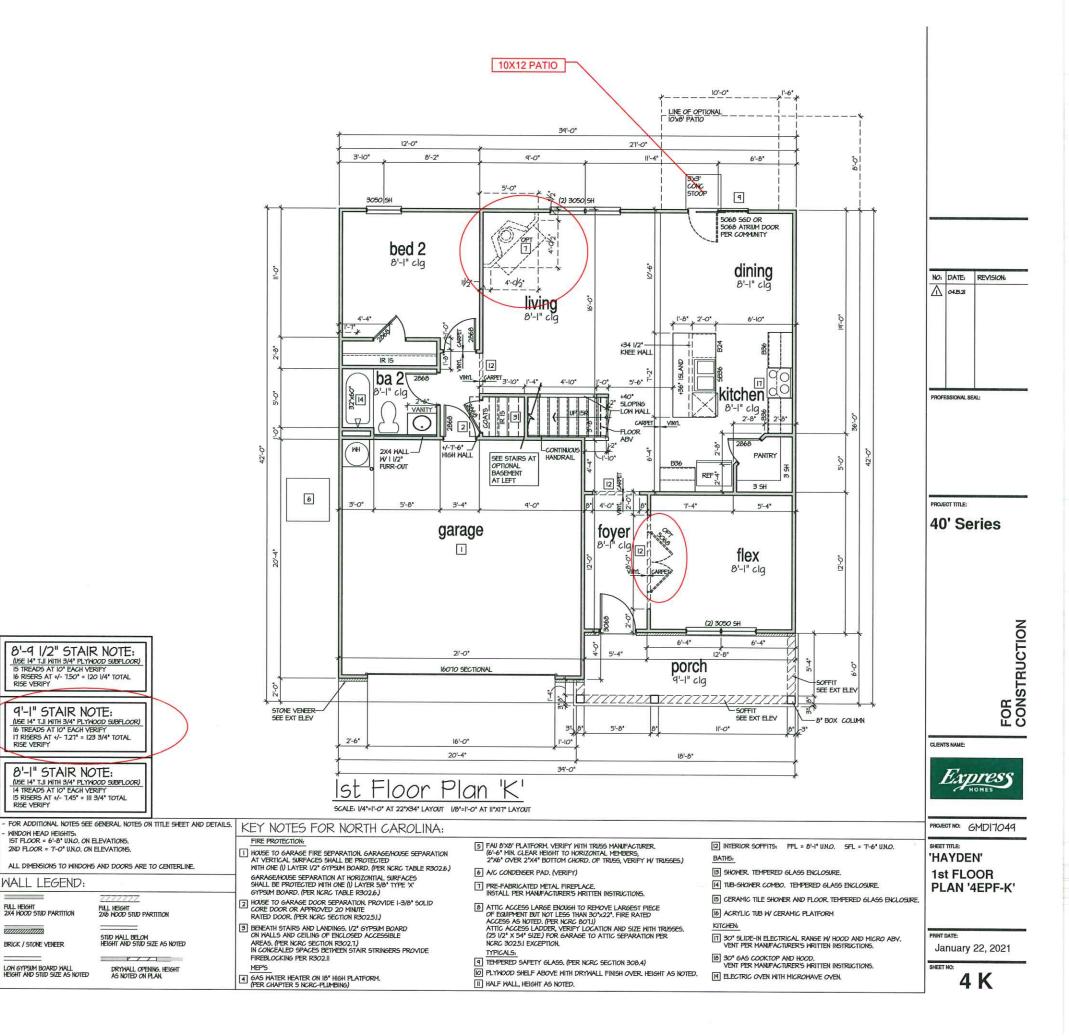




Flooring and Sales Center in a Box LVT

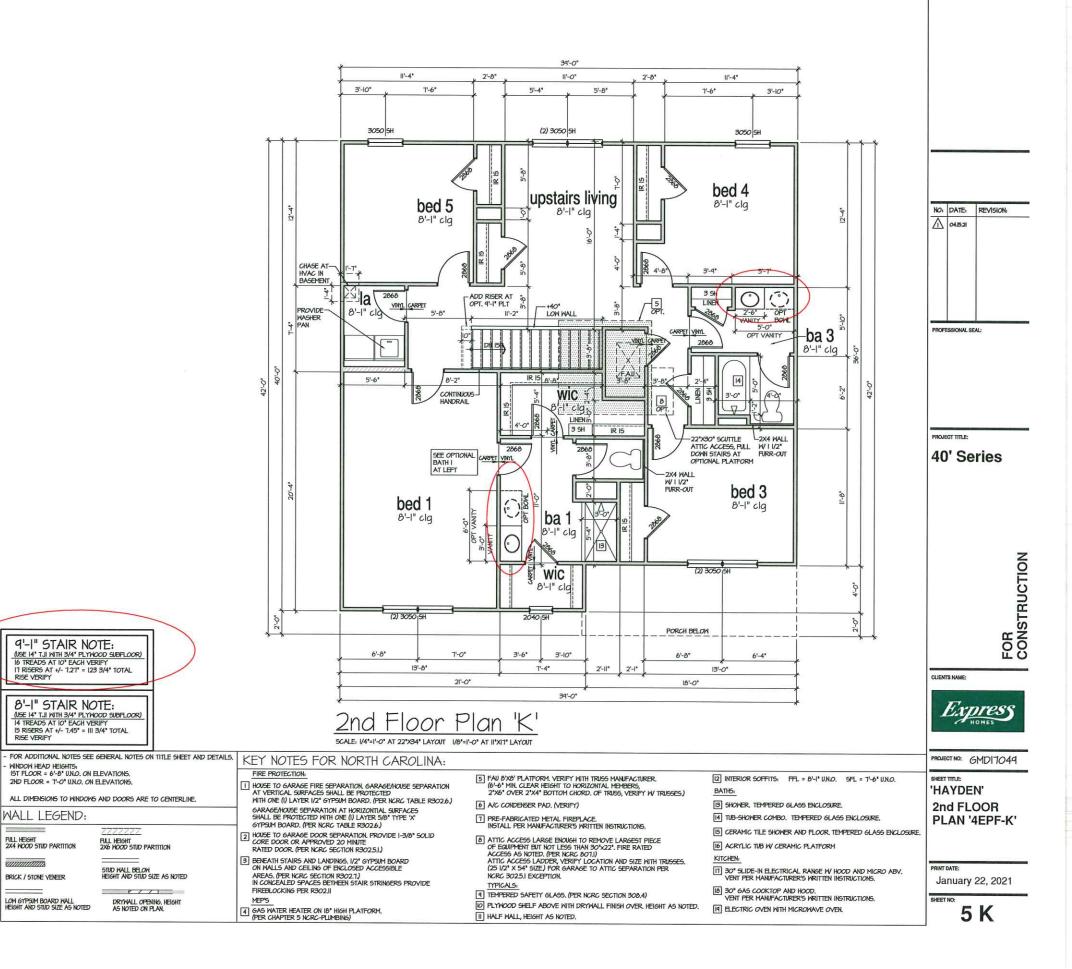


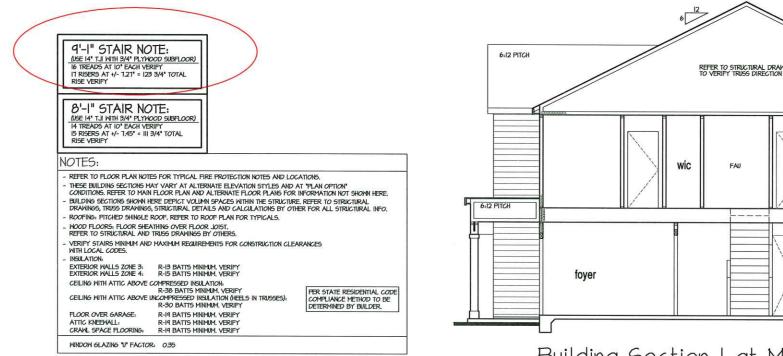




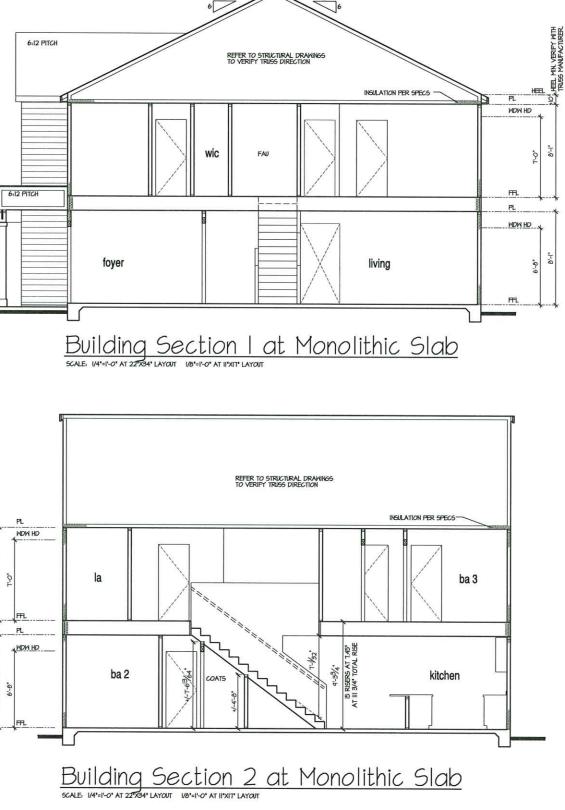
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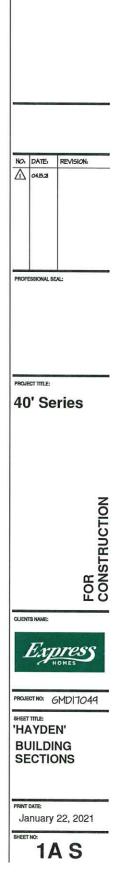
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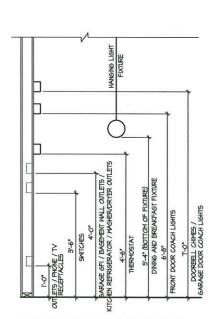




REFER TO STRUCTURAL DRAWING INCLATION PROFESSION INCLATION PROFE



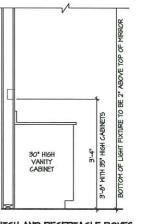




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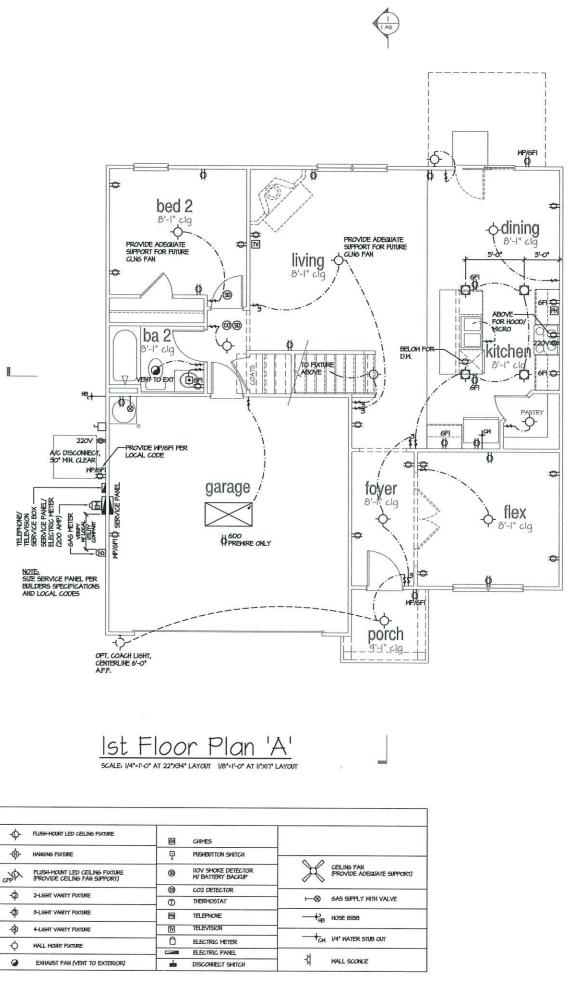


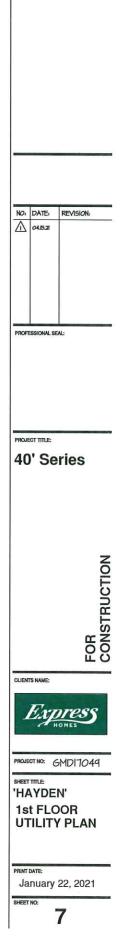
WALL

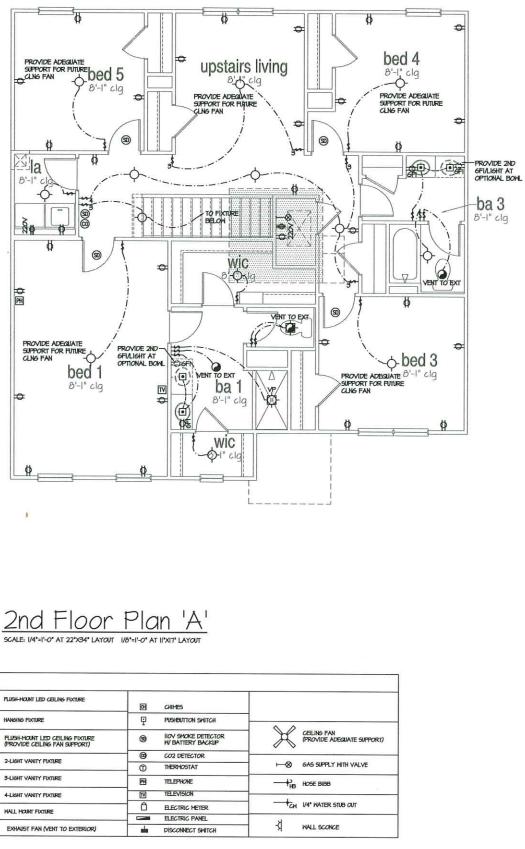


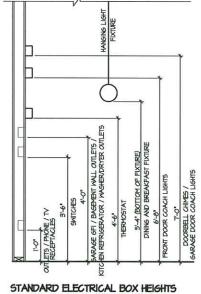


+	NOTES:	LEGEND:			
<u> </u>	<ul> <li>PROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES.</li> <li>PROVIDE AND INSTALL ARC FAULT CIRCUIT-INTERRIPTERS (AFCI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIRED/MIST OF ALL GOVERNING CODES.</li> </ul>	Ø DUPLEX CUTLET	FLUSH-MOUNT LED CEILING FIXTURE	on chimes	
	- ALL EXHAUST FANS SHALL HAVE BACKDRAFT DAMPERS.	WP/GFI WEATHERPROOF GFI DUPLEX OUTLET		PUSHBUTTON SWITCH	
BASE _ m	<ul> <li>FANLIGHTS IN WET/DAMP LOCATIONS SHALL BE LABLED "SUITABLE FOR WET OR DAMP LOCATIONS."</li> <li>ELECTRICAL SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS, THE</li> </ul>	GRI GROUND-FAILT CIRCUIT-INTERRIPTER	FLISH-MOUNT LED CEILING FIXTURE	IIOV SHOKE DETECTOR     W BATTERY BACKUP	K #
CABINET	CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT. - PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY	HALF-SWITCHED DUPLEX OUTLET		CO2 DETECTOR	
	NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.	220V 220 VOLT OUTLET	-Q 2-LIGHT VANITY FIXTURE	THERMOSTAT	⊗ 6A
	<ul> <li>PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRIPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.</li> </ul>	O REINFORCED JNCTION BOX	- 3-LIGHT VANITY FIXTURE	TELEPHONE	но:
	<ul> <li>ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS,</li> <li>HVAC CONTRACTOR TO VERIEV THERMOSTAT LOCATIONS.</li> </ul>	WALL SMITCH	- 4 4-LIGHT VANITY FIXTURE	TELEVISION	148 183
····· · · · · · · · · · · · · · · · ·	- ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS.				-+ch 1/4"
H AND RECEPTACLE BOX	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 MANUFACTURERS		-Q MALL PLURI FIXING	ELECTRIC PANEL	U.
KITCHEN CABINETS	WRITTEN INSTRUCTIONS.	\$4 FOUR-WAY SWITCH	EXHAUST FAN (VENT TO EXTERIOR)	DISCONNECT SWITCH	1 - A ww



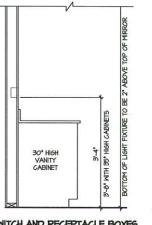




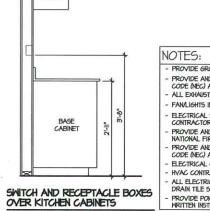


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SWITCH AND RECEPTACLE BOXES OVER BATH CABINETS



WALL CABINET

ROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES.		
ROVIDE AND INSTALL ARC FAULT CIRCUIT-INTERRUPTERS (AFCI) AS REQUIRED BY NATIONAL ELE ODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES,	CTRICAL	DUPL
LL EXHAUST FANS SHALL HAVE BACKDRAFT DAMPERS.	Ø HP/GF	NEAT
AWLIGHTS IN WET/DAMP LOCATIONS SHALL BE LABLED "SUITABLE FOR WET OR DAMP LOCATION	6.' Ø 6FI	GROU
ECTRICAL SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY	OTHERS, THE	DUPL
ONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT.	() ()	HALF
ROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUI ATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVE		
ROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL E		220
ODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.	0	REIN
ECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.		10-2011/2-
VAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.	\$	WALL
LL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANIT RAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITION:	ARY SUMP PITS, \$3	THRE
ROVIDE POWER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFAC RITTEN INSTRUCTIONS.	TURER'S \$4	FOUR

2nd	Floor	Plan	'A'

	LEG	END:					
	ø	DUPLEX OUTLET	-φ-	FLUSH-HOUNT LED CEILING FIXTURE	Ø	CHIMES	
ĺ	₿ MP/GFI	WEATHERPROOF GFI DUPLEX OUTLET	-ф-	HANGING FIXTURE	9	PUSHBUTTON SHITCH	L
	₿ өп	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET	CAPP -	FLUSH-MOUNT LED CEILING FIXTURE (PROVIDE CEILING FAN SUPPORT)	9	IIOV SHOKE DETECTOR	
ſ	Ø	HALF-SWITCHED DUPLEX OUTLET	1	(FROVIDE CEILING FAR SUFFOR)	@	CO2 DETECTOR	- ×
t	₿220V	220 VOLT OUTLET	-\$	2-LIGHT VANITY FIXTURE	0	THERMOSTAT	e
Ì	0	REINFORCED JINCTION BOX	-\$	3-LIGHT VANITY FIXTURE	Ħ	TELEPHONE	
ł	\$	WALL SMITCH	-@	4-LIGHT VANITY FIXTURE	ĪV	TELEVISION	
5,	\$3	THREE-WAY SMITCH	Ó	HALL MOUNT FIXTURE	0	ELECTRIC METER	1 -
ł	1.		- Y			ELECTRIC PANEL	к
	\$4	FOUR-WAY SWITCH	0	EXHAUST FAN (VENT TO EXTERIOR)	-	DISCONNECT SWITCH	1 - Я

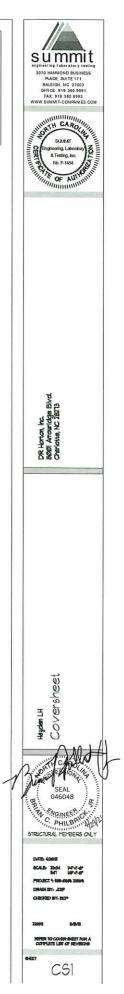


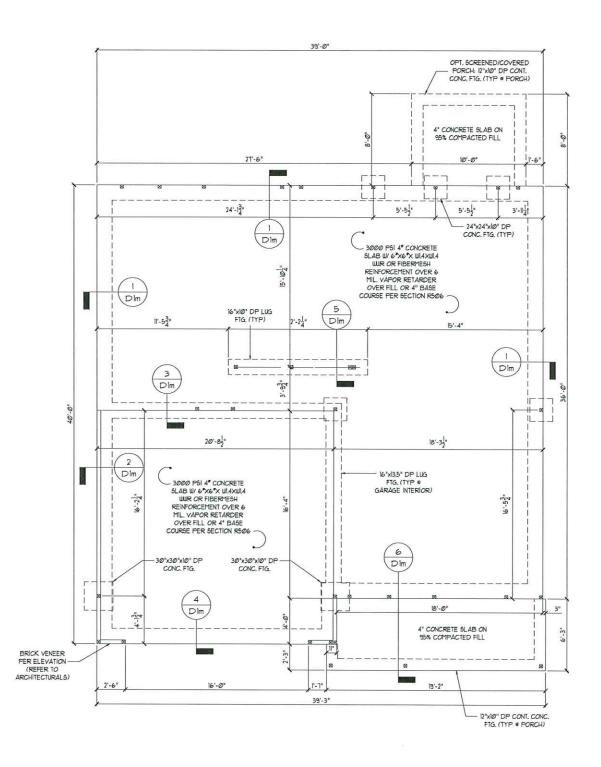
	DESIGN SPECIFICATIONS:           Construction Type:         Commerical         Residential         Ø           Applicable Building Codes:         2018 North Carolina Residential Building Code with All Local         1 ASCE 1-10: Minimu Design Loads for Buildings and Other St	Amenciments tructures			SHEET LIS Sheet CS SLØ SLØ SLØ	No. 11 2m 25	Description Cover Sheet, Specifications, Revisions Monolithic Slab Foundation Stem Wall Foundation
	Design Loads:         1         Roof Live Loads         20 PGF           II.         Conventional 22         20 PGF         20 PGF           I2.         Truss         20 PGF         20 PGF           I2.         Truss         60 PGF         60 PGF		SUN	nmit boratory testing	51Ø 52.0 53.1 541 55.0	0 0 0 0	Craul Space Foundation Basement Foundation Basement Fraining Plan First Floor Fraining Plan Second Floor Fraining Plan Roof Fraining Plan
	2.1. Conventional 2x         10 PGF           2.2. Truss         20 PGF           3. Snow         15 PGF           3.1. Importance Factor         10           4. Floor Live Loads         41. Typ. Duelling         40 PGF           42. Sleeping Areas         30 PGF		НАТ	DEN	148 112 185	0	Basemant Bracing Flan First Floor Bracing Plan Second Floor Bracing Plan
	43. Decks         40 PGF           44. Passenger Garage         50 PGF           5. Floor Dead Loads         50 PGF           5.1. Conventional 2x         10 PGF           52. I-Joist         15 PGF           53. Floor Truss         15 PGF		PROJECT ADDRESS: TBD	OUNER: DR Horton, Inc. 8001 Arrouridge Blvd. Charlotte, NC 28213	REVISION Revision No.	Date	Project Description
	6. Ultimate Design Wind Speed (3 sec. gust) 130 MP- 61. Exposure B 62. Importance Factor 10 63. Wind Base Shear 63. Vx = 63.2 Vy =	4	DESKANER: GMD Design Group 102 Fountain Brock Circle Sulte C Cary, NC 21511		1	4,19,21	TØI11         Updated elevation names           Added Sten Wall, Craulspace, and Basement         Foundations
	ZONE I 16.7,-18.0 17.6,-18.9 18.3,-19.7 16 ZONE 2 16.7,-21.0 17.6,-22.1 18.3,-22.9 18	0°1°-45' 18,702 18,736	electrical, and civil drawings. This con structural engineering of record (SER)	i uith the architectural, nechanical, plumbing, xclination is not the responsibility of the 1 Should any discrepancies become MMIT Engineering, Laboratory 4 Testing,			
	ZONE 4 182,-130 132,-200 133,-208 20	0.4,-213 0.4,-26,3	PLAN ABBREVIATIONS: AB ANCHOR BOLT AFF ABOVE FNISHED FLOOR C. CELLING JOIST CLR CLEAR DJ DOUBLE JOIST DBP DOUBLE STUD POCKET	PT PRESSURE TREATED R5 ROCF SUPPORT Sc STUD COLUMN SJ SINGLE JOIST SFF GPRUCE PINE FIR SGT SIMPSON STRONG-TIE			
	851.5 ms = %g 852.5 ml = %g 8.6. Selanic Base Shear 8.6.1 Vx = 8.6.2 Xy = 8.1. Basic Structural System (check one) ⊠ Bearing Wall ☐ Duilding Frame ☐ Moment Frame		EE EACH END EW EACH WAY NTS NOT TO SCALE OC ON CENTER PSP POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH	SYP SOUTHERN YELLOW PINE TJ TRIPLE JOIST TSP TRIPLE STUD POCKET TYP TYPICAL UNO [ULLESS NOTED OTHERUSE WUF WELDED WIRE FABRIC			
	Dul I / focal loosen trane Dual I / focal loosen Inverted Perdulun 8.8. ArchVtech Components AnchoredN 8.3. Lateral Design Controls SetsmicNd So	lo	prior to the initial design. Therefore, i based on the information provided by revisions based on roof truss and flo revision list, indicating the date the la	ring, Laboratory (Testing, P.C. (601MIT) russ and joist directions were assumed <u>J DR Horton, Inc.</u> Subsequent plan or joist layouts shall be noted in the			
<ol> <li>GENERAL STRUCTURAL NOTES:         <ol> <li>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 parity may revise, alter, or delete any structural aspects of these construction documents without witten permission of SUMTIE Engineering, Laboratory (Testing, FC, (SUMTIT) or the SER. For the purposes of these construction documents the SER and SUMTIT shall be considered the same entity.</li> </ol> </li> <li>The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.</li> <li>The SER is not responsible for construction sequences, methods, or techniques in convection with the construction sequences, methods, or techniques in convection with the construction sequences, methods, or techniques in convection with the construction begins. should any non-conformities occur.</li> <li>Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shoy drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for orwall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimension, or for actual field conditions, is not the responsibility of the SER or SUMMIT.</li> <li>Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions, is not the responsibility of the science SUMMIT.</li> <li>Verification elements, except for the elements specifically noted on the structural design.</li> <li>This structure and all construction shall conform to all applicable sections of the intervalional residential code.</li>     &lt;</ol>	<ol> <li>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 minimu of 12" below grade.</li> <li>Any fill shall be placed under the direction or recommodation of a licensed professional engineer.</li> <li>The resulting soil shall be compacted to a minimu of 95% maximum dry density.</li> <li>Excavations of footings shall be lined temporarily with a 6 mil prolyethylere memorane if placement of concrete does not occur within 24 hours of excavation.</li> <li>No concrete shall be placed against any subgrade containing water, i.e., frost, or loss material.</li> <li>STRICTURAL STEEL:</li> <li>Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Construction "Load of Standard Practice for Steel Construction "Code of Standard Practice for Steel Construction "Load Resistance Factor Design" latest editions.</li> <li>Structural steel shall receive one coat of shop applied rust-inhibitive paint.</li> <li>All steel shall receive one coat of shop applied rust-inhibitive paint.</li> <li>All steel shall receive one coat of shop applied rust-inhibitive paint.</li> <li>All steel shall receive one coat of shop applied rust-inhibitive paint.</li> <li>All steel shall receive one coat of shop applied rust-inhibitive paint.</li> <li>All steel shall receive one coat of shop applied rust-inhibitive paint.</li> <li>All steel shall receive one coat of shop applied rust-inhibitive paint.</li> <li>Concrete shall have a minimum gleid stress (F<sub>2</sub>) of 36 ksi unless otherwise noted.</li> <li>Welding Society's Structural Welding Code AWS DII. Electrodes for shop and field welding shall be class El2XX. All welding shall be performed by a certified welder per the above standards.</li> <li>Concrete shall have a normal welight aggregate and a minimu compressive strength (F</li></ol>	<ul> <li>with ACI 302/R-95</li> <li>Construction".</li> <li>The concrete slab subgrade modulus psf. The SER is n cracking or other conditions not in.</li> <li>Control or salu cu slaba-on-grade a slaba-on-grade a</li> <li>Control or salu cu process within 4 L</li> <li>Reinforcing steel</li> <li>All welded wire fa be placed at nid supported during</li> <li>CONCRETE REINFORCE</li> <li>Flibrous concrete concrete slaba-on due to shrinkage water migration, ar abrabol resistand.</li> <li>Flibermesh reinforc contrate slaba-on distandard.</li> <li>Steel reinforcing Application of its a minimum of 03h b</li> <li>Steel reinforcing ASTI A6b, grade</li> <li>Detailing, fabricat be in accordance</li> <li>Steel reinforcing Attadard Aractication</li> </ul>	reinforcement, or fibermesh, specified in egrade may be used for control of cracking and themal expansion/contraction, lowered increases in impact capacity, increased e, and residual strength. Ing Lo be 100% virgin polypropylene fibers occessed olefin materials and specifically use as concrete secondary reinforcement, emesh per cubic yard of concrete shall equal y volume (1b pounds per cubic yard) mply with ASTM CIII6, any local building code shall meet or exceed the current Industry pars shall be new billet steel conforming to 6.00, and placement, of reinforcing steel shall with the latest edition of ACI 3b; "Manual of for Detailing Concrete Structures"	<ol> <li>Where reinforcing dowels are required, it in size and spacing to the vertical reinfor shall extend 48 bar diameters vertically a into the footing.</li> <li>Where reinforcing steal is required vertic provided unless otherwise noted.</li> <li>WOOD FRAMING:</li> <li>Solid sawn wood framing members shall co apactifications listed in the latest actition Design Specification for Wood Construct otherwise noted, all wood framing members Southerm-Yellow-Pine (SYTP) 7.</li> <li>LVL or PSL engineered wood shall have design values: 7.1 E = 1920/200 psi 23.FV = 285 psi 24.Fc = 120 psi</li> <li>Wood In contact with concrete, masony, o pressure treated in accordance with AWPA standard C-2</li> <li>Nalls shall be control with alls are operitations.</li> <li>All beams shall boaring on support unless otherwise noted.</li> <li>Exterior and load bearing stud walls are OC, unless otherwise noted.</li> <li>Exterior and load bearing stud walls are OC, unless otherwise noted.</li> <li>Exterior and load bearing stud walls are OC, unless otherwise noted.</li> <li>Exterior and load bearing stud walls are OC, unless otherwise noted.</li> <li>Exterior and load bearing stud walls are OC, unless otherwise noted.</li> <li>Exterior and load bearing stud walls are OC, unless otherwise noted.</li> <li>Exterior and load bearing the full bearing on of one king stud shall be continuous.</li> <li>Individual studs forming a column shall be natified at all from lower beam. The colum shall be natified at all from lower beam. The stud colum of blackad at all from lower beam. The stud colum shall be natified at all from lower beam.</li> </ol>	rcenent. The down and 20 bar dianet ally, dowels shall onform to the of the "National ion" (ND5). Unless a are designed to the following minit be carth shall be A standard C-5, eated in accorda tandard D12/1-132 cordance with ND2 orting framing men to be 2x4 STP 12 e continuous from is shall only be r openings. A min end of the head attached with no r attached with on a stable continue.	el ters be o be num All ince BL b the the timum ter. e 10d outs	<ul> <li><u>INCOD TRUSSES</u>.</li> <li>The wood truss nanifacturer/fabricator is responsible for the design of the wood trusses. Subnit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have an intimum of the C/S 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.</li> <li>The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimu Design Loads for Diulings and Other Structures." (ASCE 1-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to the trusses.</li> <li>The trusse shall be designed, fabricated, and erected in accordance with the latest addition of the "National Design Specification for Wood Construction" (NDD) and "Design Specification for Wood Construction" (NDD) and "Design Specification for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses."</li> <li>The truss manufacturer shall provide adequate bracing information in accordance with "Comentany and Reconnendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses."</li> <li>The truss and returner, shall be shown on these provides advange have been shown as a reference only. The fin and the trusses shall be the store of the rouses.</li> <li>The truss and returner, shall be the round the trusses shall be the store of the trusses.</li> <li>The truss manufacture shall provide adequate bracing both temports and premanent, shall be shown on the shop chasings. Also, the shop drawings whill show the required attachments for the trusses.</li> <li>Ang chords or truss webs shown on these drawings have been shown as a reference on the Tim</li></ul>
ECUNDATIONS: I. The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the ouner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.	entrainment anounts (in percent) shall be within -1% to 42% of target values as folious: 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	and shall have 30 size/spacing as th tension splice. 8. Lap reinforcement for tension or com	bends, or corner bars with the same is horizontial reinforcement with a class B as required, a minimum of 40 bar clameters pression unless otherwise noted, Splices in minimum of 48 bar diameters.	<ol> <li>Multi-ply beams shall have each ply attact 24" O.C.</li> <li>Four and five ply beams shall be bolted t of 12" diameter through bolts staggered noted otherwise.</li> </ol>	hed with (3) lød r Logether with (2) i	nails e rows	<ul> <li>Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.</li> <li>All structurally required wood sheathing shall bear the mark of the APA.</li> </ul>

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 inclicated on these drawings. Refer to wall bracing notes in plan set for nore information. Sheathing shall be applied with the long direction perpendicular to training, unless noted otherwise. Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be applied with the long direction perpendicular to training, unless noted otherwise. Roof sheathing shall be applied with the long direction attached to its supporting roof training with (1)-8 dC C rail at 6'o'C at panel edges and at L'o'C in panel field vulces otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to training. Sheathing shall have a span rating consistent with the fraining spacing, Use suitable edge support by use of plywood clips or limber blocking unless otherwise noted. Panel end joints shall occur over training. Apply building paper over the sheathing as required by the state Building Code. Wood filoor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting fraining with (1)-8d CC ringshark nail at 6'o'C at panel edges and at L'o'C in panel relied unless otherwise noted on the plans. Sheathing shall have a span rating consistent with the training. Sheathing shall have a span rating consistent with the training. Sheathing shall have a span rating consistent with the training spacing. Use usuitable edge support by use of TKB playoud or lumber blocking unless otherwise noted. Panel edging and edges as recommended in accordance with the APA.

- STRUCTURAL FIBERBOARD PANELS:
  L 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.
  Tiberboard 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 I/8° gap at panel ends and edges are recommended in accordance with the AFA.





ELEVATION BFK

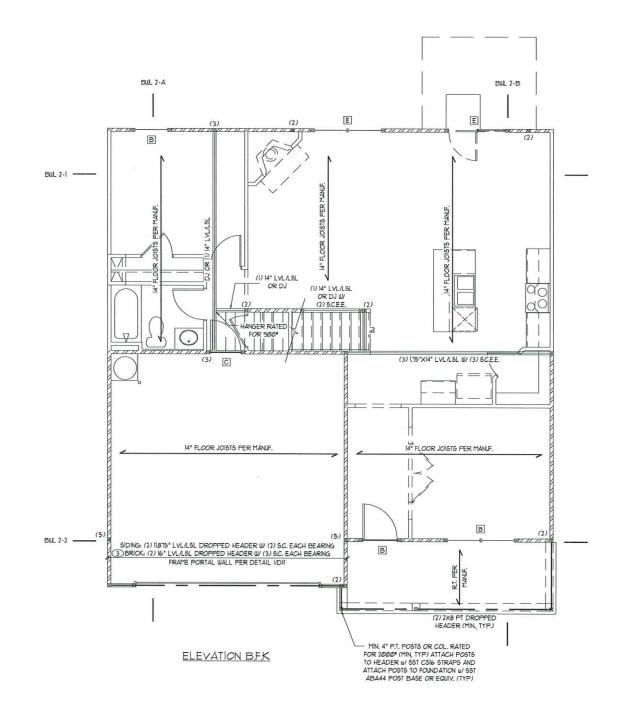
STRUCTURAL MEMBERS ONLY ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION PLAN

5CALE: 1/4"+1-0" ON 22"x34" OR 1/8"+1"-0" ON 11"x17"

11 summit ngineering Laboratory test 3070 HAMMOND BUSINES: PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE 919.380.9991 FAX: 919.380.9993 VWW. SUMMT-COMPANIES ( NUMBTH CARO SUMMIT ingheering, Labora & Testing, Inc. No. F-1454 OF AU DR Horton, Inc. 8001 Arrowrldge Blvd. Charlotte, NC 28273 Slab Foundation Hayden LH Monolithic ( A SEAL 046048 WGINEER CH C PHILBRINA AAA STRUCTURAL MEMBERS ONLY DATE 4000 BCALE 2004 WHITH FRO.BCT & 100-00(% 2000 DRAWN BTG JOEP CIECKED BT. BCP 2004 M8/8 NETER TO COMER SHEET FOR A CONFLETE LIST OF REVISIONS SI.Im



### STRUCTURAL MEMBERS ONLY

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

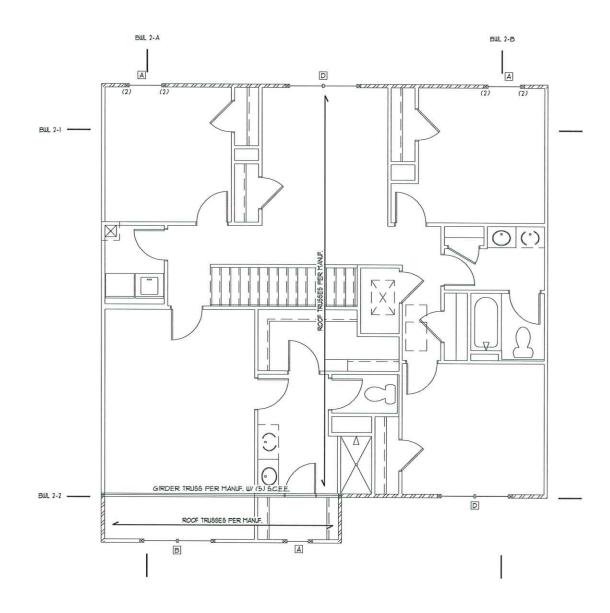
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

5CALE: 1/4"+1-0" ON 22"x34" OR 1/8"+1"-0" ON 11"x17"

	LOOR BRAC NUOUS SHEATHING M	
00111	REQUIRED	PROVIDED
BUL I-I	116	24.8
BUL 1-2	11,6	15.0
BUL 1-A	11.3	400
BWL 1-B	113	36.0

111 summit AND ANY OF A STATE OF H CAR SUMMIT ering La & Testing, Inc. No. F-1454 DR Horton, Inc. 8001 Arrowildge Bivd. Charlotte, NC 28273 Dan Framing Hayden LH First Floor F A SEAL 046048 Th ANGINEE! C. PHILBR HAPP STRUCTURAL HEMBERS ONLY DATE 4000 DATE 40001 CCALE 2004 WP-1-0 MT WP-1-0 PROBET 4 100-60(6 2006 DR44N DT. 2009 CR46N DT. 2009 22094 5/8/8 NOTER TO CONTRACT FOR A CONFLICT LIKE OF REVAILONS **S**3.1



ELEVATION BFK

STRUCTURAL MEMBERS ONLY

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN SCALE: 1/4"17-0" ON 2"134" OR 100"17-0" ON 1741"

	FLOOR BRA	
Cum	REQUIRED	PROVIDED
BUL 2-1	60	210
BUL 2-2	60	25Ø
BUL 2-A	5.8	400
BUL 2-B	5.8	36Ø

1/// summit 3070 HAMMOND BUSINESI PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE 919, 380, 9991 FAX, 919, 380, 9993 WW SUMMIT-COMPANIES C ATH CAR SUMMIT & Testing, Labos & Testing, Inc. No. F-1454 DR Horton, Inc. 8001 Arrowridge Bivd. Charlotte, NC 28713 Dlan Framing Heyden LH Second Floor F SEAL 046048 C PHILBRINHAN STRUCTURAL HEMBERS ONLY DATE 4000 1045 204 WAT-P PROJECT & MO-CORE 20005 DRAWN BY, JOH CABORED BY, BOP 21001 5-5/8 NETTER TO COVER BASET FOR A CONFLETE LIST OF REVENDED S4.1

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u> COMPLETED/REVISED ON <u>10201</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY ( TESTING, PC, IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY ( TESTING, PC, CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

### STRUCTURAL MEMBERS ONLY

SINCETURAL MEIMBERS UNEI 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 BROUCHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

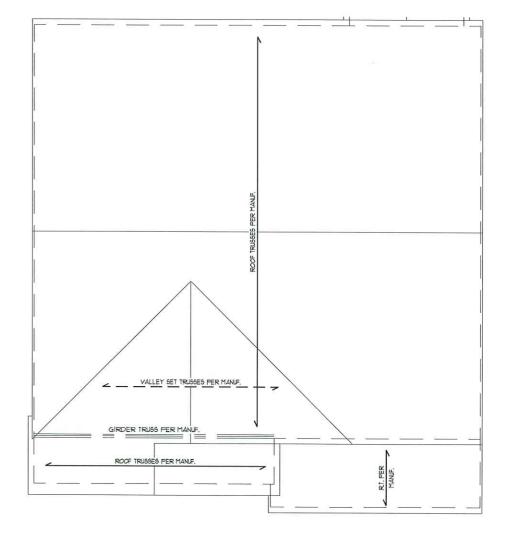
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN

5CALE: 1/4"+1-0" ON 22"x34" OR V8"+1-0" ON 11"x17"

ELEVATION B.F.K.





MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND
600 LBS	H2.5A	PER WALL SHEATHIN	G 4 FASTENERS
1200 LBS	(2) H25A	C516 (END = 11")	D1T2Z
1450 LBS	HTS2Ø	CSI6 (END = 11")	DTT2Z
2000 LBS	(2) MT52Ø	(2) CSIG (END = II*)	DTT2Z
2900 LBS	(2) HT52Ø	(2) CSI6 (END = II")	HTT4
3685 LBS	LGT3-5D525	MSTC52	HTT4
PRODUCTS H 2. UPLIFT VA 3. REFER TO TRUSS TO TR MANUFACTUR 4. CONTACT	IAY BE USED PER LUES LISTED ARE TRUSS LAYOUT F USS CONNECTION ER OVERRIDE TH	E SIMPSON STRONG-TI R MANUFACTURER'S 5F E FOR STP 12 GRADE DER MANUF, FOR UPLIF 5, CONNECTORS SPEC IOSE LISTED ABOVE. UIRED CONNECTORS U	ECIFICATIONS, MEMBERS, T VALUES AND IFIED BY TRUSS

NOTE: IST PLY OF ALL SHOUN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

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

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

NOTE: TRUSS UPLIFI LOADS SHALL BE DETERMINED PER TRUSS MANFACTURER IN ACCORDANCE WITH SECTION R802JUJ. WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFI LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602335 OF THE 2018 NCRC, REFER TO BRACED WALL PLANS FOR SHEATING AND FASTENER REQUIREMENTS.

summit 3070 HAMMOND BUSINES PLACE SUITE 171 RALEIGH, NC 27603 OFRCE 919.380.9991 FAX: 919.380.9993 WWW.SUMMT-COMPANIES ( MUNITH CARO SUMMIT Igheering, Laborat & Testing, Inc. No. F-1454 DR Horton, Inc. 8001 Arrouridge Blvd. Charlotts, NC 28273 Plan Framing Hayden LH ROOF ald SEAL 046048 A MOINEER OT STRUCTURAL MEMBERS ONLY DATE 4000 BCALE 2004 WHITH BAT WHITH -----DRAIN BY JOH GREATED BTL BCP 20890 1.0/8 NETER TO COMER SHEET FOR A CONFLETE LIST OF REVISIONS S5.1

### SHEET LIST: DESIGN SPECIFICATIONS: Construction Type: Commerical 🛛 Residential 🛛 Description Sheet No. CSI Cover Sheet Specifications Revision Applicable Building Codes: • 2018 North Carolina Residential Building Code with All Local Amendments • ASCE 1-10: Minimum Design Loads for Buildings and Other Structures Dim Monolithic Slab Foundation Details Dis Stem Wall Foundation Details Dic Craul Space Foundation Details Db Design Loads: 1. Roof Live Loads Basement Foundation Details Dir Framing Details 11. Conventional 2x \_ 12. Truss \_\_\_\_\_ 20 PSF 20 PSF 121 Attic Truss 60 PH 2. Roof Dead Loads IØ PSF 2.1. Conventional 2x . 22. Truss \_\_\_\_\_ 20 PSF 15 PS 3. Snou STRUCTURAL PLANS PREPARED FOR: 3.1 Importance Factor 4. Floor Live Loads 4. Typ. Duelling \_\_\_\_\_\_ 4.1. Typ. Duelling \_\_\_\_\_\_ 4.2. Sleeping Areas \_\_\_\_\_\_ 4.3. Decks \_\_\_\_\_\_ 4.4. Passenger Garage \_\_\_\_\_\_ 5. Floor Dead Loads \_\_\_\_\_\_ 5. Floor Dead Loads \_\_\_\_\_\_ 40 PSF STANDARD DETAILS 30 PS 40 PSF PROJECT ADDRESS OUNER: REVISION LIST: DR Horton Carolinas Division IN PSF 5.1. Conventional 2x 8001 Arrowridge Blvd Charlotte, NC 28213 Revision Projec No. 52. I-Jolst Date 15 PS No. PER PLAN 5.11 dded box bay detail (2/D2f). Added deck APCUITECT/DESIGNED 61. Exposure \_\_\_\_\_ 62. Inportance Factor\_\_\_ 63. Wind Base Shear options with basement. Revised deck options with stem wall and crawl space foundations B 2 7.12.17 rised stem wall insulation not 63J. VX = 632. Vy = 1. Component and Cladding (in PSF) 2.15.18 3 Revised garage door detail, NC only 4 22818 Added high-wind foundation details These drawings are to be coordinated with the architectural, mechanical, plumbing, evised per 2018 NCRC 12.19.18 5 MEAN ROOF UT UP TO 30' 30'1"-35' 35'1"-40' 40'1"-45' 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 SUPPIT Engineering, Laboratory 4 Testing, 6 2,9,19 Revised per Mecklenburg County Comments HT. ZONE I 16.1,-18.0 115,-18.9 182,-19.6 18.1,-202 evised stem wall deck attachment and roof 3119 P.C. before construction begins. eathing on wall sections. ZONE 2 16.7,-21Ø 175,-221 182,-22.9 18.7,-235 ZONE 3 16.7,-21Ø 175,-221 182,-22.9 18.7,-235 3.6.19 8 Corrected dimensions at perimeter footings ZONE 4 182,-190 192,-200 19.9,-20.1 20.4,-21.3 PLAN ABBREVIATIONS 9 3220 Added tall turndown detail ZONE 5 182,-24.0 192,-252 19.9,-26.1 20.4,-26.9 AB ANCHOR BOLT PT PRESSURE TREATED AFF ABOVE FINISHED FLOOR RS ROOF SUPPORT 8. Seismi CJ CEILING JOIST SC STUD COLUMN Site Class B2. Design Category \_\_\_\_\_ B3. Inportance Factor \_\_\_\_\_ 84. Seismic Use Group \_\_\_\_\_ 85. Spectral Response Acceleration CLR CLEAR SJ SINGLE JOIST

DJ DOUBLE JOIST

EE EACH END

EW EACH WAY

NTS NOT TO SCALE

OC ON CENTER

DSP DOUBLE STUD POCKE

### GENERAL STRUCTURAL NOTES:

- NERL 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 after, or delete any structural aspects of trees construction documents without written perinsion of SVMTIE Engineering. Laboratory 4 Testing, P.C. (SUMTIF) or the SER. For the purposes of these construction documents the SER and SUMTIF shall be considered the same entity. The structure is only stable in its completed form. The contractor built exclusion of the second structure of the second stable of the second 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,
- 3. or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents should any non-conformities occur. Any structural elements or details not fully developed on the
- Any structural elements or details not fully developed on the construction drainings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMIT for reviewed for overall complement as it relates to the structural design of this project. Verification of the shop drawings for directory as structural design.
- Traines to the survey of a survey 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
- accuracy and report and discrepancies to burning period 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 datalands. This structure and all construction shall conform to all
- This succious and in Collaboration senal control to an 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 next or exceed to requirements
- 9 of the current local building code.

EOUNDATIONS: 1. The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the esponsibility 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<sup>st</sup> below grade. Any fill shall be placed under the direction or recommendation of all shall be placed under the direction or recommendation
- of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95%
- The tourner of a set of the set
- 6. No concrete shall be placed against any subgrade containing

85], Sms = %g 852, Sml = %g 86, Seismic Base Shea

9. Assumed Soil Bearing Capacity .

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

Bearing Wall
 Building Frame
 Moment Frame

Dual w intermediate RC or
 D

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

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 Fractice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design latest editions. 2. Structural steel shall receive one coat of shop applied
- rust-inhibitive paint. 3. All steel shall have a minimum yield stress (F2 of 36 ksl unless
- otherwise noted. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS DIL Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above

- CONCRETE:
   Concrets shall have a normal weight aggregate and a minimum compressive strength (1<sup>2</sup>) 41 28 days of 3000 psl, unless otherwise noted on the plan.
   Concrets shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 38. "Building Code Requirements for Reinforced Concrets" and ACI 301: "Specifications for Reinforced to Concrets for Buildings".
   Air entrained concrete must be used for all structural elements encode to ferend the concrete.
- exposed to freeze/hau cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows:
- 3.]. Footings: 5% 32. Exterior Slabs: 5% No admixtures shall be added to any structural concrete without written permission of the SER.

- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab
- The concrete slab-on-grade has been designed using a subgrade modulus of k-250 pci and a design loading of 200 psi. The SER is not responsible for differential settlement, slab conditions not in accordance with the above assurptions. Control or saw cut joints shall be spaced in interior
- slabs-on-grade at a maximum of 15°-0° OC, and in exterior slabs-on-grade at a maximum of 10°-0° unless otherwise noted. Control or saw cut joints whill be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint.
- Reinforcing steel may extend through a sau cut joint. All welded wire fabric (UWE) for concrete elabs-on-grade shall be placed at ind-depth of slab. The UWE, shall be securely supported during the concrete pour.

### CONCRETE REINFORCEMENT.

Wind 🛛

200000

- 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
- water migration, an increase in impact capacity, increased abrasion resistance, and residual strength. Fibernesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement. Application of fibernesh per cubic yard of concrete shall equal a minimum of 02% by volume (15 pounds per cubic yard) Fibernesh shall comply with ASTM CIII6, and Jocal building code requirements, and shall mest or exceed the current industry standard
- standard
- Steel reinforcing bars shall be new billet steel conforming to Steel reinforcing pars shall be new billet steel conforming to ASTM AGB, grade 60. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 3B: "Marual of
- Standard Practice for Detailing Concrete Structures<sup>6</sup> Horizontal footing and wall reinforcement shall be continuous and shall have 30° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masorry shall be a minimum of 48 bar diameters.

- Where reinforcing dowels are required , they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters
- into the footing. 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted
- WOOD FRAMING: Solid saun wood framing members shall conform to the specifications listed in the latest edition of the "National
- specimications instead in the latest existing of the "National Design Specification for Ubod Construction" (NDS). (Mess otherwise noted, all wood framing nembers are designed to be Spruce-Yellow-Pins (SPP) 9.

### design values: 21. E = 1,900,000 psi

22. F<sub>b</sub> = 2600 psi 23. F<sub>v</sub> = 285 psi

SPE SPRUCE PINE FIR

TJ TRIPLE JOIST

TYP TYPICAL

PSF POUNDS PER SQUARE FOOT UND UNLESS NOTED OTHERWISE PSI POUNDS PER SQUARE INCH UWE WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMIT Engineering, Laboratory 1 Testing, P.C. (SUMIT) 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 6UMIT immediately.

9

SST SIMPSON STRONG-TH

TOP TRIPLE STUD POCKE

SYP SOUTHERN YELLOW PINE

### 2.4.Fe = 700 psl

- Used in contact with concrete, masonry, or earth shall be pressure treated in accordance with AUPA standard C-15. All other molisture exposed wood shall be treated in accordance with AWPA standard C-2
- With AurrA standard C-2 Nails shall be common wire nails unless otherwise noted. Lag screws shall conform to ANBI/ASME standard BI821-1981. Lead holes for lag screws shall be in accordance with ND5
- specifications. All beams shall have full bearing on supporting framing members inless otherwise noted
  - Exterior and load bearing stud walls are to be 2x4 SYP  $2 e 16^{\circ}$ O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minium of one king stud shall be placed at each end of the header. King studs shall be continuous individual studs forming a colum shall be attached with one lØd nall # 6° OC. staggered. The stud colum shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer. Multi-ply beams shall have each ply attached with (3) lØd nalls # 24° OC.
- 10. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be Inter beaus, 4-pig beaus and 3-pig site baded beaus stell be bolted together with (2) rous of  $1/2^{\circ}$  diameter through bolts staggered = 16° O.C. unless noted otherwise. Min. edge distance shall be 2° and (2) bolts shall be located a nin. 6° from each end of the beam.

### WOOD TRUSSES:

The wood truss manufacturer/fabricator is responsible f design of the wood trusses. Submit sealed shop drawin supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of filve (5) day review. The review by the SER shall review for overall

Description

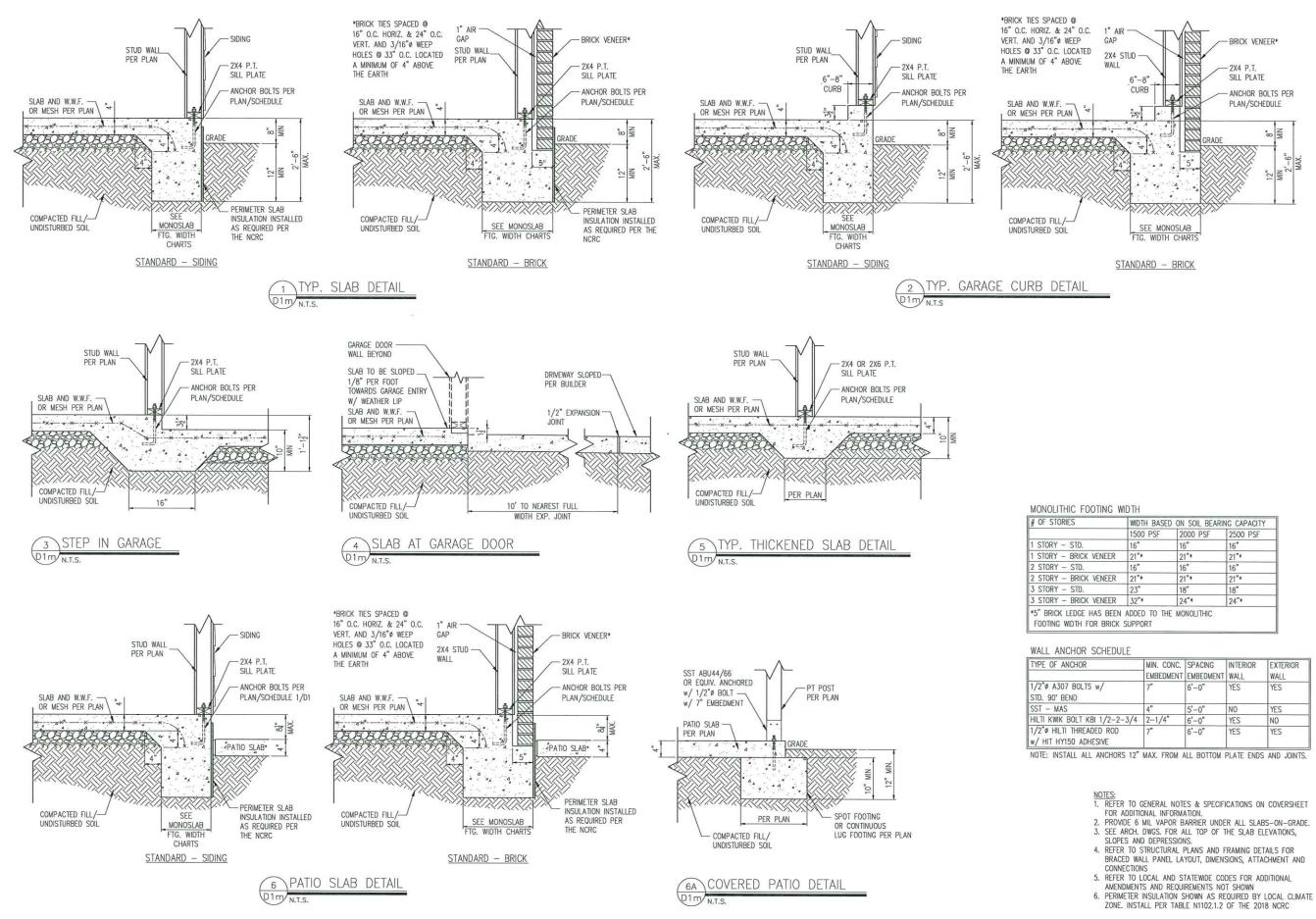
- review. Iner review by the bock areal review for overall compliance with the design documents. The SER shall asso responsibility for the correctness for the structural desig the wood trusses. The wood trusses shall be designed for all required load as specified in the local building code, the ASCE shand. "Minimu Design Loads for Buildings and Other Structures (ASCE 1-03) and the locat building code the shore the Trimmu Design Loads for Duildings and Utler Structure (ASCE 1-03), and the loading requirements shown on the specifications. The truss drawings shall be coordinated to other construction documents and provisions provided loads shown on these drawings including but not linited HVAC equipment, piping, and architectural fixtures attact
- the trusses. 3. The trusses shall be designed, fabricated, and erected accordance with the latest edition of the "National Desi Specification for Wood Construction," (NDS) and "Desig becification for Metal Plate Connected libod Trusse
- Specification for Metal Plate Connected Wood Trusses." The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Me Plate Connected Wood Trusses" (HIB-91). This bracing, but temporary and permanent, shall be shown on the shop dra Also, the shop drawings shall show the required attachme the truster. 4
- the trusses. Any chords or truss webs shown on these drawings have
- shown as a reference only. The final design of the truss be per the manufacturer.
- EXTERIOR WOOD FRAMED DECKS: Decks are to be framed in accordance with local build codes and as referenced on the structural plans, either code references or construction details.

### WOOD STRUCTURAL PANELS:

- Patrication and placement of structural wood sheathing In accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable A standards.
- 2. All structurally required wood sheathing shall bear the m the APA

DR HORTON PROJECT Sign-of Manager Operations Operations System Operations Product Development	Signature
	CLIENT: CLIENT: DR Horton Carolina Division DR Horton Carolina Division BR01 Arrowrdga Divid
<ul> <li>building codes for the drawings. Refer to wait information. Sheating perpendicular to fram 4. Roof sheathing shall it attached to its support of the support of the support of the support of the long direction perpendicular to fram 5. Support of the long direction perpendicular to fram 5. Support of the long direction perpendicular to fram 5. Support of the long direction perpendicular to fram 5. Support of the long direction perpendicular to fram 5. Support of the long direction perpendicular to fram 5. Support by the state of field unless otherules applied perpendicular direction perpendicular to fram 6. Sheathing shall have a recommended in accordance.</li> <li>Site Structurally require and heat and place shall be in accordance.</li> <li>All structurally require and subsidiary codes the set the set drawings. Reference information.</li> </ul>	all be applied with the long direction y, unless noted otherwise. APA rated steakting exposure I or 2. continuous over two supports and ing roof fraining with (I)-& 6C C call at nd at 10°o/c in panel Iteld unless plans. Sheathing shall be enclocal to fraining. Sheathing as uilding code. all be APA rated sheathing asponse I o its supporting fraining with (I)-& 6d CC t panel edges and at 12°o/c in panel is supporting fraining with (I)-& 6d CC t panel edges and at 12°o/c in panel is supporting fraining with (I)-& 6d CC t panel edges and at 12°o/c in panel is supporting fraining with (I)-& 6d CC t panel edges and at 12°o/c in panel is supporting fraining with (I)-& 6d CC t panel edges and at 12°o/c in panel is supporting fraining with (I)-& 6d CC t panel edges and at 12°o/c in panel pluso of runber blocking unless and joints shall occur over fraining. wer the sheathing as required by the 8° gap at panel ends and edges as ance with the APA. <u>SANELS:</u> nt of structural fiberboard sheathing with the applicable AFA standards. fiberboard sheathing shall bear the g shall comply with the requirements of the appropriate state as indicated on wall bracking notes in plan set for more B° gap at panel ends and edges are

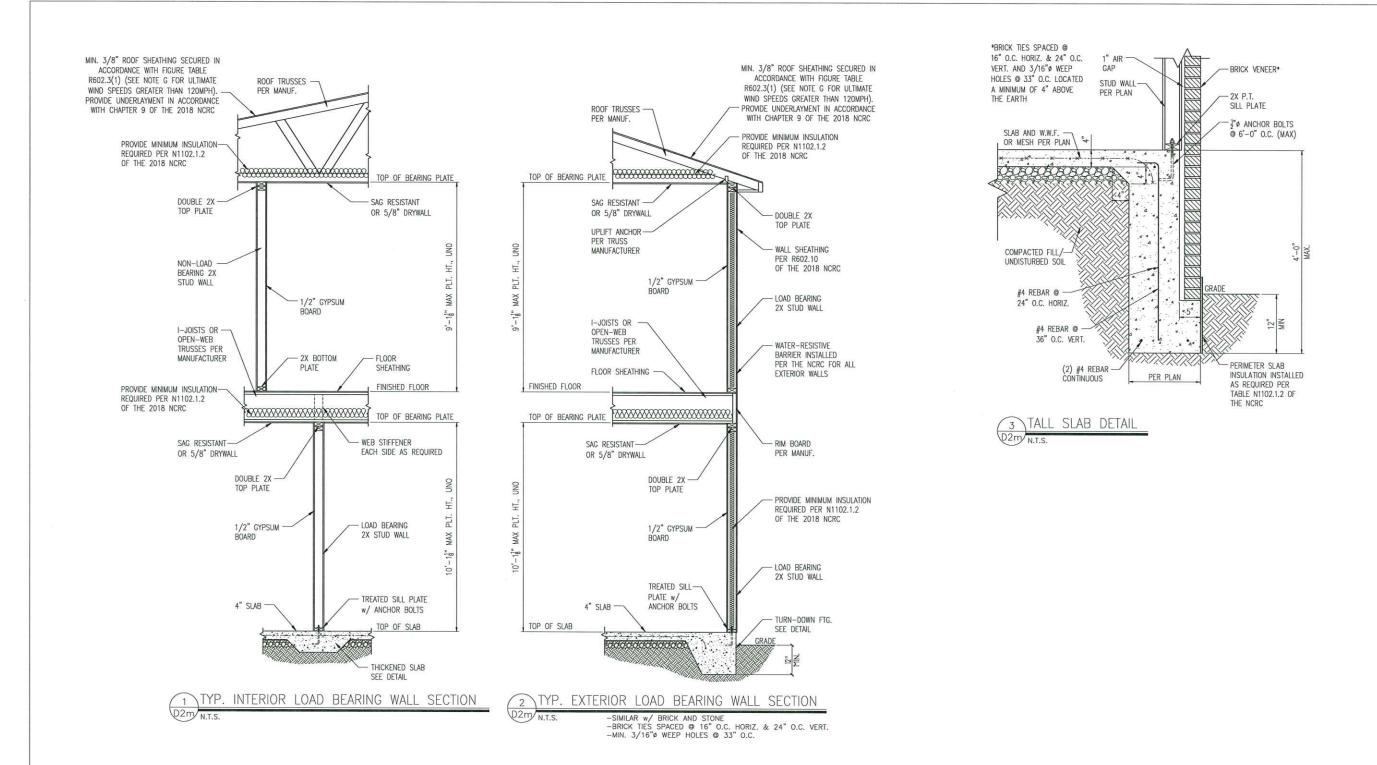




S	WIDTH BASED ON SOIL BEARING CAPACITY			
	1500 PSF	2000 PSF	2500 PSF	
STD.	16"	16"	16"	
BRICK VENEER	21"*	21"*	21"*	
STD.	16"	16"	16"	
BRICK VENEER	21"*	21"*	21"*	
STD.	23"	18"	18"	
BRICK VENEER	32"*	24"*	24"*	
EDGE HAS BEEN		E MONOLITHIC		

CHOR	MIN. CONC. EMBEDMENT	SPACING EMBEDMENT	INTERIOR WALL	EXTERIOR WALL
BOLTS w/ ND	7"	6'-0"	YES	YES
	4 <sup>"</sup>	5'-0"	NO	YES
OLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
THREADED ROD 0 ADHESIVE	7"	6'-0"	YES	YES

силина странатор с собранатор с собранатор Собранатор с собранатор с собрана	
CLIENt: DR Hercen Carolina Division 2001 Arranicidae Bivd. Charlotte, NC 28213	
PROJECT: Burndard Details Monolithic Slab Foundation Details	
CAROUNIC CAR	





CLIENT: DR Horton Carolina Divis 8001 Arrouridge Bivd. Charlotte, NC 28273

SUMMIT

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

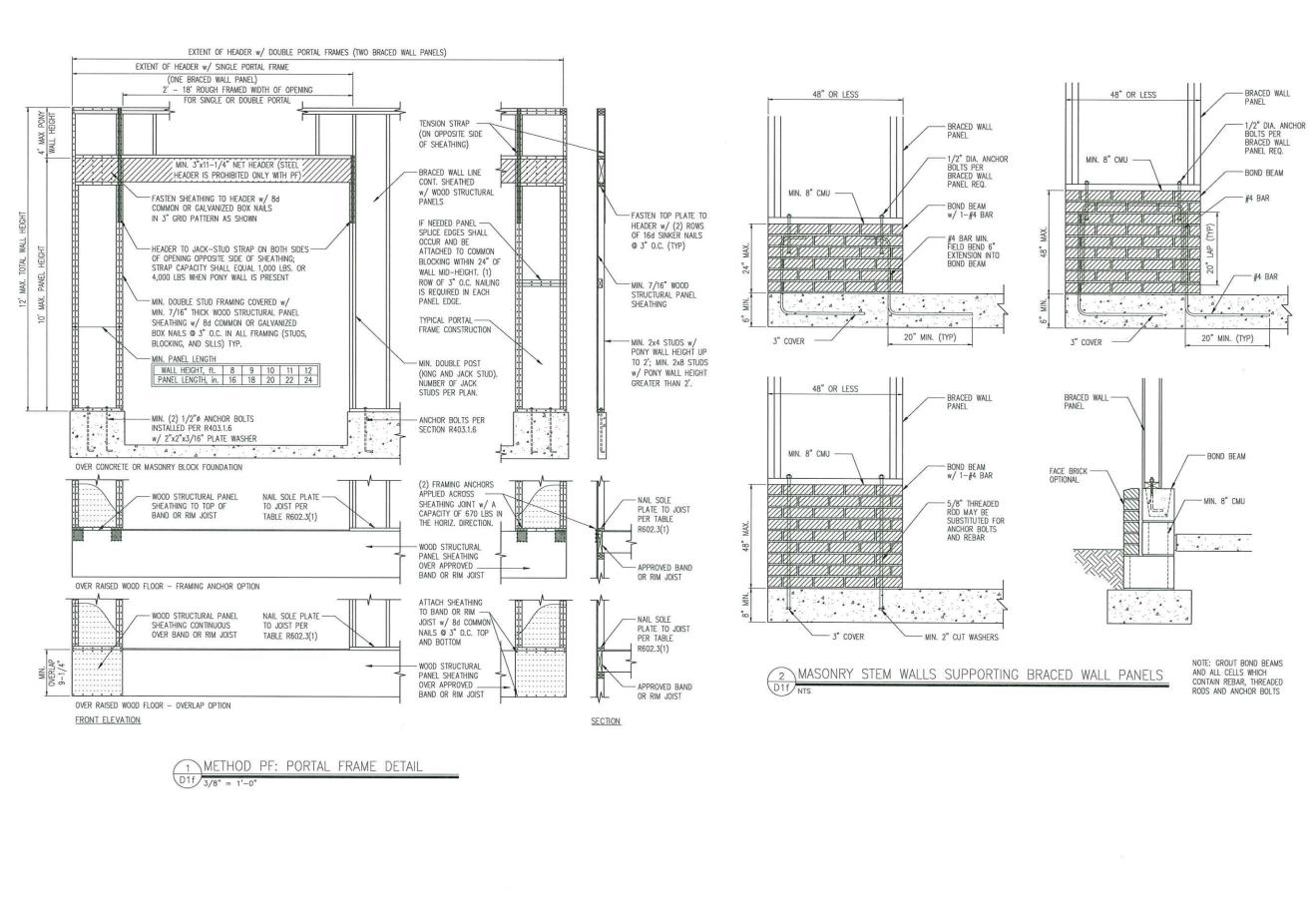
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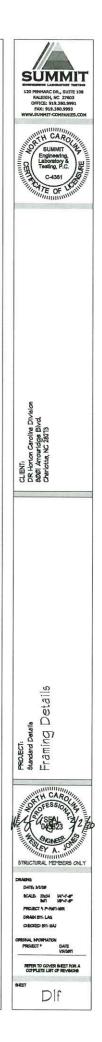
SUMMIT Engineering Laboratory & Testing, P.C

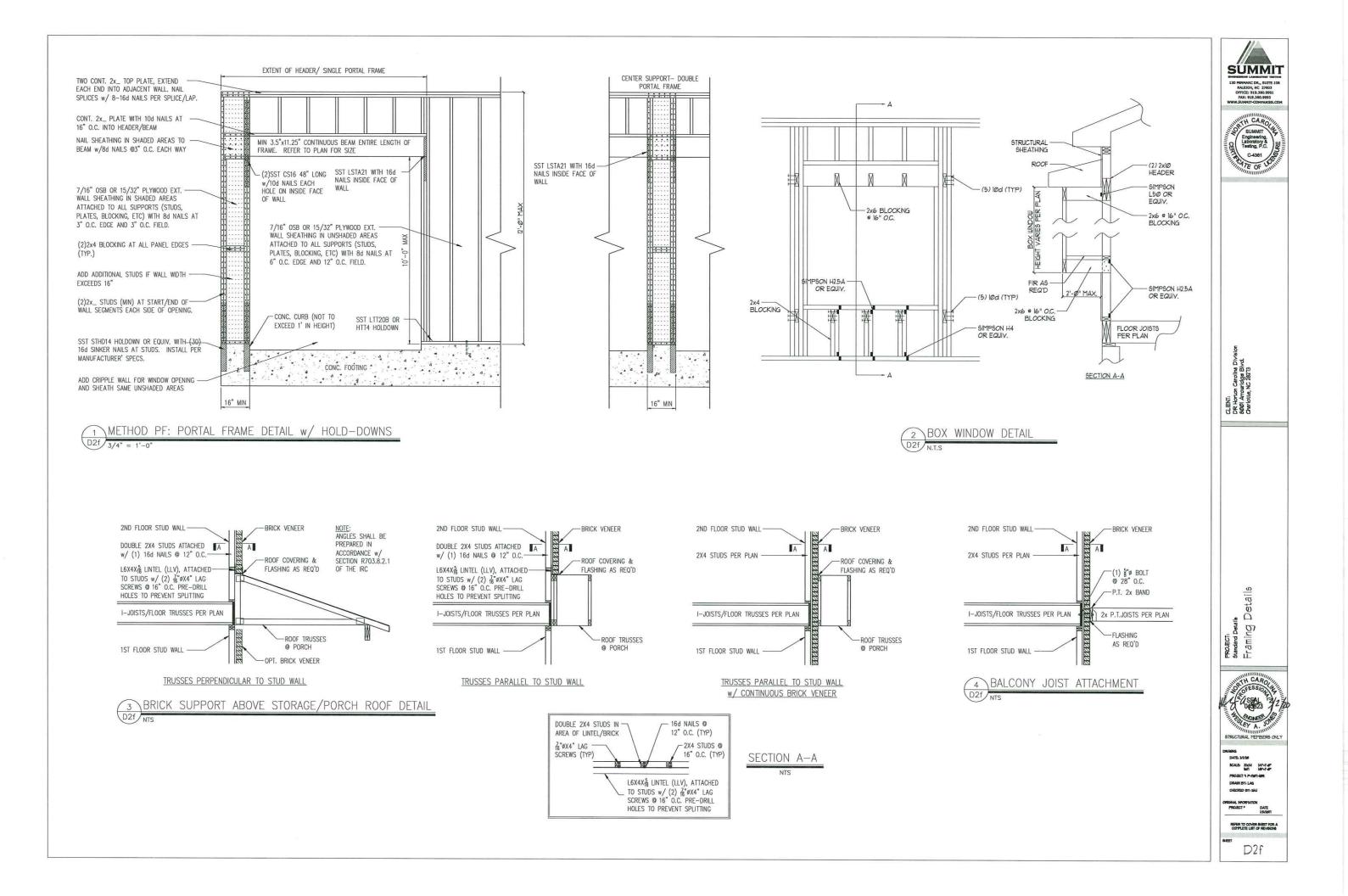
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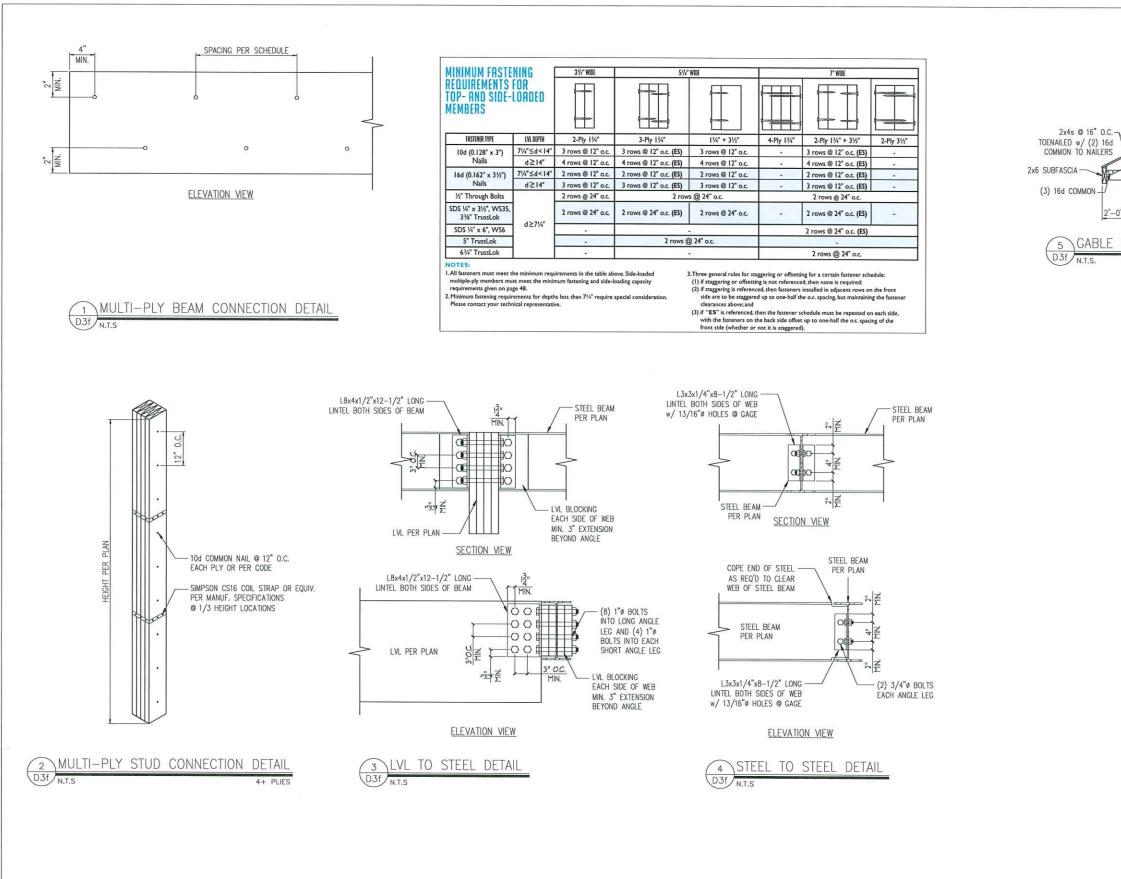
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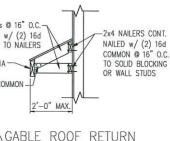
- NOTES: 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS,
- SLOPES AND DEPRESSIONS. 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL 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

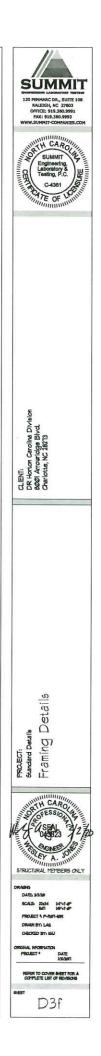


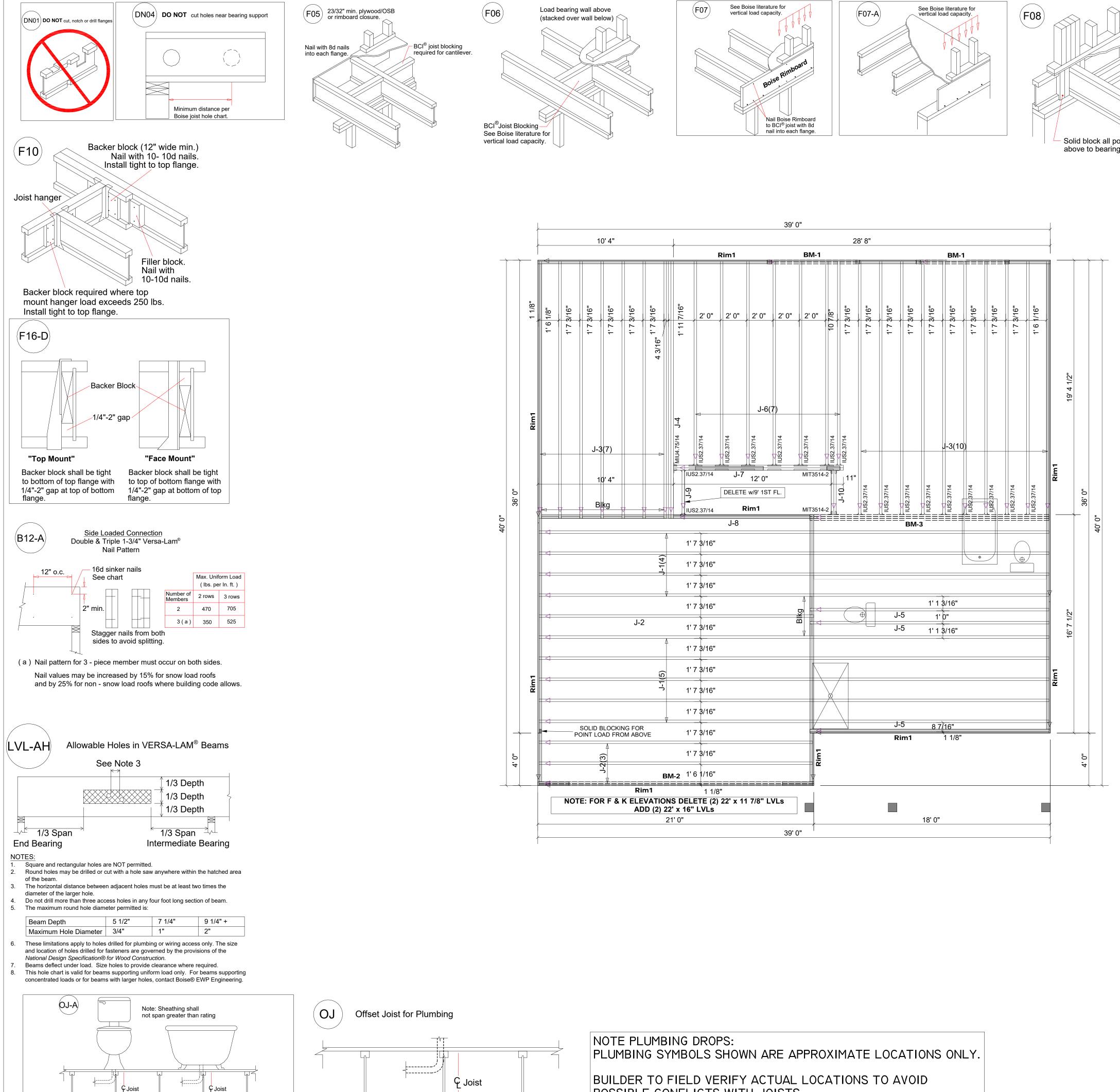


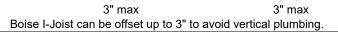


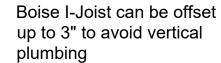


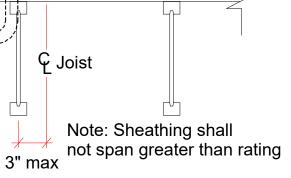


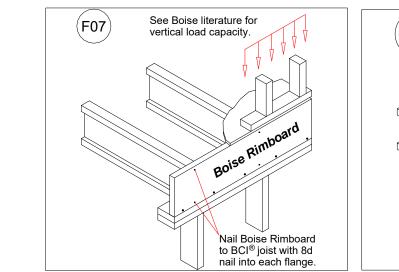


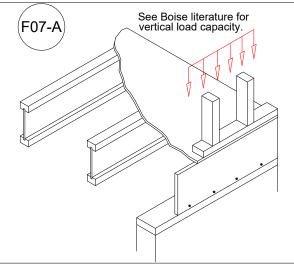


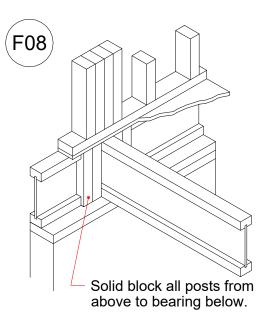


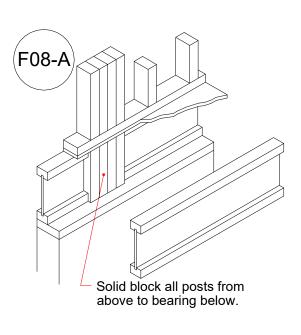












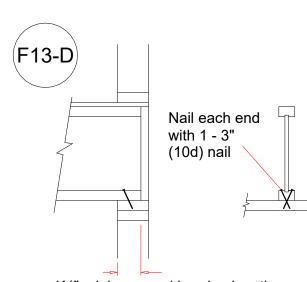
for concentrated/line loads as required.

SEE NOTE IN THE EASTERN SPECIFIER GUIDE (F10) AND (F58) FOR ANY JOIST TO JOIST, DOUBLE JOIST CONNECTIONS. SEE WEB STIFFENER REQUIREMENTS FOR HANGERS THAT DO NOT LATERALLY SUPPORT THE TOP FLANGE.

	Connec	tor Summary				
Qty	Manuf	Product	Flange			
18	Simpson	IUS2.37/14	None			
2	Simpson	MIT3514-2	None			
1	Simpson	MIU4.75/14	None			
				.4.		
	<u> </u>		Produ	cts		DĽ
PlotID	5	Product				Plies
J-1	39' 0"	14" BCI® 60				1
J-2	21' 0"	14" BCI® 60	00s-1.8			1
J-3	20' 0"	14" BCI® 60	00s-1.8			1
J-4	20' 0"	14" BCI® 60	00s-1.8			2
J-5	19' 0"	14" BCI® 60	00s-1.8			1
J-6	16' 0"	14" BCI® 60	00s-1.8			1
J-7	13' 0"	14" BCI® 60	00s-1.8			2
J-8	11' 0"	14" BCI® 60	00s-1.8			1
J-9	4' 0"	14" BCI® 60	00s-1.8			1
J-10	4' 0"	14" BCI® 60	00s-1.8			2
BM-1	8' 0"	1-3/4" x 9-1/2	2" VERSA	LAM® 2.0 310	0 SP	2
BM-2	22' 0"	1-3/4" x 11-7	7/8" VERS/	A-LAM® 2.0 31	00 SP	2
BM-3	20' 0"	1-3/4" x 14" \	VERSA-LA	M® 2.0 3100 S	SP	3
Rim1	12' 0"	1-1/8" x 14"	BC RIM B	DARD OSB		1
Blkg	2' 0"	14" BLOCKII	NG			1

(F58)

CLEAR DISTANCE FOR FLOOR DECKING NOT TO EXCEED RATING.

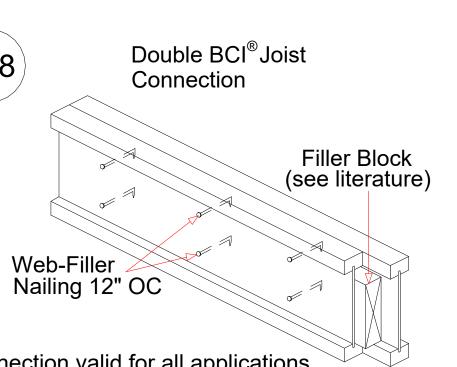


1<sup>1</sup>/<sub>2</sub>" minimum end bearing length at all floor and roof details.

# I-JOISTS



# Refer to I-Joist manufacturer's product guide for additional details, such as squash blocks/blocking



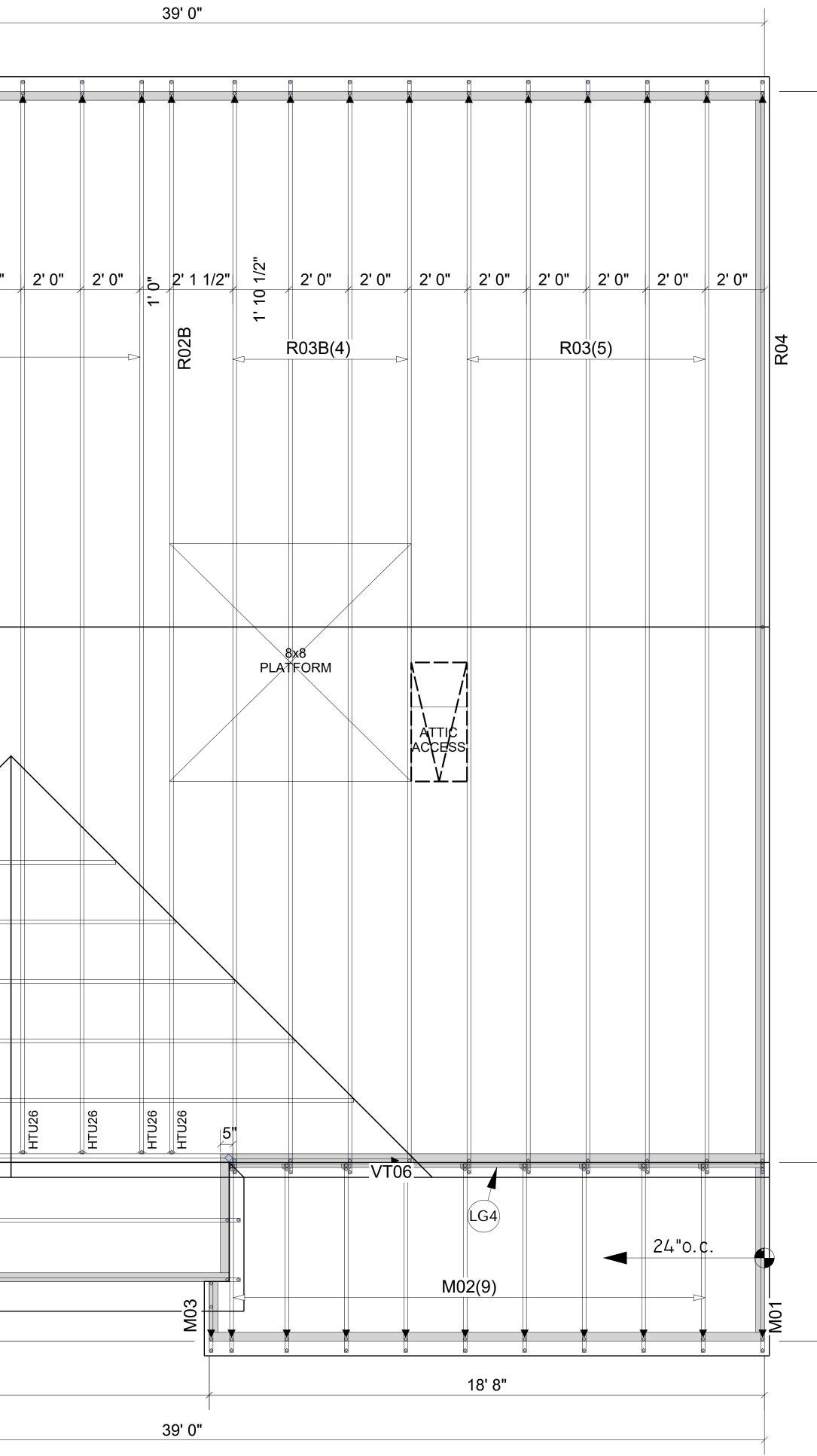
Connection valid for all applications.



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RO R02(9) 36' 0" ò 2 VT05 0 5 VT04 2'0" VT03 2'0" VT02 2'0" **VT01** HTU26 HTU26 2' 0" HTU26 HTU26 HTU26 HTU2 R05 4'0" R06  $\sim$  $\rightarrow$ R07 2'0" 20' 4"

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



# TRUSS TO TRUSS CONNECTIONS ARE 3-10d TOE-NAILS U.N.O.

