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ELEVATION NOTES:

I. GUTTERS AND DOWNSPOUTS ARE NOT SHOWN FOR CLARITY, DOWNSPOUTS SHALL BE LOCATED TOWARDS THE FRONT AND REAR OF THE HOUSE, LOCATE DOWNSPOUTS IN NON-VISUALLY OFFENSIVE LOCATIONS, FOR EXAMPLE, FRONT WALL OF HOUSE, BESIDE PORCH COLUMNS, ETC. GENERAL CONTRACTOR SHALL VERIFY EXISTING GRADES AND COORDINATE ANY NECESSARY ADJUSTMENTS TO HOUSE WITH OWNER,

2. PLUMBING AND HVAC VENTS SHALL BE GROUPED IN ATTIC TO LIMIT ROOF PENETRATIONS AND TO BE LOCATED AWAY FROM PUBLIC VIEW, I.E. AT THE REAR OF THE HOUSE AND SHALL BE PRIMED AND PAINTED TO MATCH ROOF COLOR.

3. PROVIDE ATTIC VENTILATION PER LOCAL CODE REQUIREMENTS.

4. EXTERIOR FLASHING SHALL BE CORRECTLY INSTALLED AT ALL CONNECTIONS BETWEEN ROOFS, WALLS, CHIMNEYS, PROJECTIONS AND PENETRATIONS AS REQUIRED BY APPROVED CONSTRUCTION PRACTICES.

5. CONTRACTOR SHALL PROVIDE ADEQUATE ATTIC VENTILATIONS / ROOF VENTS PER LOCAL GOVERNING CODE. INSTALL CONTINUOUS RIDGE VENTILATION AND PAINT TO MATCH ROOF. PROVIDE APPROPRIATE SOFFIT VENTILATION AT OVERHANGS.



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RAFTERS TO REST ON 2X4 TOP PL. ON 16-1/2" OPEN WEB FLOOR TRUSS





GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS BEFORE STARTING NORK AND THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREMANCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.
- BE SCALED FROM FLARS, BECILORS, OK DEFAILS ON INEBE DRAWINGS. ALL OMISIONS AND CONFLICTS BETHEEN THE VARIOUS ELEMENTS OF THE MORKING DRAWINGS AND OR SPECIFICATIONS SHALL BE BROWNED TO THE ATTENTION OF THE EVAILINEER BEFORE FROCEEDING WITH ANY MORK SO INVOLVED
- 3. NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC., UNLESS NOTED
- 4. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING UTILITY SERVICES IN THE AREA TO BE EXCAVATED PRIOR TO BEGINNING OF EXCAVATION.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE 5 ALL RURKTARDHIF ARD PATERIALS SHALL CONVENTION THE REQUERENTIS OF THE 2018 EDITION OF THE TWO STATE RESIDENTIAL BUILDING CODE". ALL REFERENCES TO "RXXXXX" INDICATE THE APPLICABLE SECTION OF CODE.
 THESE DRAWINGS REFRESENT THE FINISHED STRUCTURE AND DO NOT
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE FETTOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, AND SUPPORT NECESSARY TO ACHIEVE THE FINISHED STRUCTURE.

FOUNDATION NOTES:

1.	MAXIMUM DESIGN SOIL PRESSURE	CODE MINIMUM: 2,000	POF
	CONTINUOUS FOOTINGS	2,000	POF
	PAD FOOTINGS	2,000	PSF

2.	SEE SOILS REPORT BY	N/A	
	PROJECT NO.	N/A	
	DATED	N/A	

3. ALL FOOTINGS TO BE A MINIMUM OF . 12" BELOW NATURAL GRADE

12" BELOW FINISHED GRADE

- SOLLS COMPACTION AND SITE PREPARATION TO BE IN ACCORDANCE HITH SOLLS REPORT (AS APPLICABLE). IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERY SOLL BEARING CAPACITY.
 FINISH EXCAUATION FOR FOUNDATION SHALL BE NEAT AND TRUE TO LINE HITH LOOSE HATERIAL, REMOVED FROM EXCAUATION.
 THE FOOTING EXCAUATIONS SHALL BE REPT FREE FROM LOOSE MATERIAL AND STANDING HATER AND, BEFORE ANY FOOTING CONCRETE IS PLACED, SHALL BE CHECKED AND APPROVED BY CONTRACTOR FOR COMPLIANCE HITH THE REQUIREMENTS. SIDE OF FOUNDATION MAY BE POURED AGAINST STABLE EARTH (U.O.N.)
- SIDE OF FORMOATION THAY BE POURED AGAINST STABLE EARTH (U.O.N. CONTRACTOR BHALL PROTECT ALL UTLIT LINES, ETC. ENCONTREPED DURING EXCAVATION AND BACKFILLING. CONTRACTOR TO BRACE OR PROTECT ALL RETAINING HALLS FROM LATERAL LOADS UNTLI SHPORTUNG FLOORS, MALLS AND/OR SLABS ARE COMPLETELT IN PLACE AND HAVE BEEN SHEATHED PER PLAN OR COMPLETELT IN PLACE AND HAVE 9
- COMPLETELT IN PLACE AND HAVE BEEN SHEATHED MEN OR ATTAINED RULL STRENGTH FOOTNIG BACKPILL AND UTILITY TRENGH BACKPILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPLETED IN LAYERS TO THE AMPROVAL OF THE GEOTECHICAL ENGINEER AS APPLICABLE. FLOODING MULL NOT BE PERMITTED. 10
- FLOODING WILL NOT BE PERMITTED. ALL BILL PATES BHALL BE TREATED BYP W '5'* A/B × 12' * 6' O.C. (JON, CN PLANS) W 3/6'*2'*2' PLATE WASHERS. ALL CONCRETE AND HAGNORY FONDATION HALLS ARE TO BE CONSTRUCTED IN ACCORDANCE W INC RESIDENTIAL BUILDING CODE Read, ACI 38, ACI 332, INCAT REGAL OR ACE 392/ASCED/HTM 402, FONDATION HALLS TAY DE STEPPED AND FRAMED W 2% * 16' O.C. WEE WALLS HEREE GRADE PERMITS. 12.

CONCRETE NOTES:

- CONCRETE IN ALL WORK SHALL HAVE 3000 PSI ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS. CEPTENT SHALL CONFORT TO ASTM C-15, TYPE I OR TYPE II. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM

- AGAREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. AGAREGATES FOR NORMAL WEIGHT CONCRETE SHALL NOT EXCEED %.
 READY THX CONCRETE SHALL BE TIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-34-86.
 ADMIXTURE THAY BE USED WITH THE PRIOR APPROVAL OF THE ENGINEER ADMIXTURE THAY BE USED WITH THE PRIOR APPROVAL OF THE ENGINEER ADMIXTURE (COMPLYENG WITH ASTM AVAILUSE) TO NEEDUCE THE SPECEPED MINITURE CEMENT (CALUM CHLORDE SHALL NOT BE CONSULT ON THE CAMPRE CEMENT (CALUM CHLORDE SHALL NOT BE CONSULT ALKALIS FOR ORGANIC MATERIALS.
 TEMPERATURES ABOVE 66T, MAXIMUM OF A SULTY IS PREMISSIBLE PROVIDED THE MIX DEGAN IS REVIDED ACCORDINALT BY THE TESTING LABORATORY, AS APPLICABLE. THEASURE SLUTP IN ACCORDANCE HITH THETHOD THE MIX DEGAN IS REVIDED ACCORDINALT BY THE TESTING LABORATORY, AS APPLICABLE. THEASURE SLUTP IN ACCORDANCE HITH THETHOD OF TEST FOR SLUTP! OF ORTICAL OPERATION CANCEL ASTM CHAPTER AST OF SLUTP! OF CONTROL JOINTS ARE TO BE SANCET TO SUBDIVIDE ALL FLOOR SLABS ON GRADE INTO APPROXIMATELY SOLARE
- " ATTRICATE: A DEET CONTROL SOUTH ARE TO BE SARADI TO SUBDIVIDE ALL FLOOR SLABS ON GRADE NTO ATTROXIMATELY SQUARE AREAS OF 400 50 FT OR LESS. CONTRACTOR IS RESONSIBLE FOR ADJISTING OR ADDING CONTROL JOINTS AS RECESSART.

MASONRY NOTES:

- CONCRETE MASONRY HALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE 1500 POIL CONCRETE MASONRY UNITS SHALL BE MINIMUM LIGHTINEIGHT UNITS CONCRETING TO ACI 530/ASCE 5/THS 402, WITH MAX LINEAR SHRINKAGE 2
- CONFORTING TO ACT SERVICE SYNTE 402, WITH MAX LINEAR SHRINA ASE OF 0.06% (3000 PSI MINIMUM). MORTAR SHALL BE TYPE TY OR '5', CONFORMING TO IRC SECTION R607. AND TO ASTM C270. ALL GROUT BHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3,000

REVISIONS BY

STONEWALL

14

Contra CAROL

NEAL

05-18-2073

Plan

Charles Moore Residential Foundation Pl 74 S. Lena Drive Spring Lake, NC 28390

AT 5-18-23

SCALE AS SHOW DRAWN J.H. .08 23-15-99

SP1

06

#120

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- ALL GROUT HALL ATTAIN A TIMINAT COMPRESSIVE STREAM OF JOBEN PEIA 73 28 DATS, GROUT SHALL BE PROPORTIONED FER INC TABLE REDT1 AND WITH SUFFICIENT WATER FOR POURING WITHOUT SEGREGATION OF GROUT CONSTITUENTS, ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND
- ALL CELLS LOMIANING REPORTING SIELE OB ENDEDDED IN TENS AND ALL CELLS IN RETAINING AULLS AND HALLS BELON GRADE SHALL BE SOLID GROUTED UNLESS OTHERNISE NOTED ON PLANS. ALL HORIZONTAL REINFORCEMENT SHALLS BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
- HEIN GROUTING IS STOPPED FOR ONE HOUR OR LONGEN, HORIZONTA CONSTRUCTION JOINTS SHALL BE FORTED BY STOPPING THE GROUT FOUR 14, BELOW TOP OF THE UPPERFORD UNIT. ALL BOND BEAT BLOCK SHALL BE "DEPER CUT" UNITS. PROVIDE INSPECTION AND CLEANOUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4-0° OF HEIGHT.
- 100
- CELLS MAYING GROUT LIFTS IN EXCESS OF 4-87 OF HEIGHT. ALL GROUT MALL BE CONSOLIDATED WITH A FECHANICAL VIBRATOR. ANCHOR BOLTS MUST BE SET WITH TEMPLATES AND HELD IN PLACE PRIOR TO GROUTING, PROVIDE AT LEAST ONE INCH OF GROUT BETWEEN ANCHOR BOLT AND MASONRY. 12
- SPECIAL INSPECTION IS REQUIRED FOR Fm + 1500 PSI

DESIGN PARAMETERS:

WIND LOADS: EXPOSURE B

REINFORCING STEEL NOTES:

- 1. STEEL REINFORCEMENT SHALL BE: GR 40 . 4 4 SMALLER ASTM A65 GR. 60 . 5 . LARGER ASTM A65 . WELDED WIRE FABRIC
- REINFORCING DETAILING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCENG STEEL INSTITUTE THANLAL OF STANDARD PRACTICE'L ATEST EDITION ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE HELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNT AN CONCRETE CONCRE.

- REIMPORCING STEEL SHALL BE FOOTBALL BALL BE FOOTBALL SHALL BE CONC, SUFFACE (FORTED) EXPOSED TO EARTH OR MEATHER '6 HOROLGH '10 BARS) '5 HOROLER. CON, ON EXPOSED TO EARTH OR MEATHER. 1 1/2"

 - SLAB, WALLS + JOIST: 14 4 18 BARS: 11 BAR 4 SMALLER: 110
 - BEAMS COLUMNS PRIMARY REINFORCEMENT TIES STIRRUPS SPIRALS. 11/2

SCOPE OF WORK

4

FOUNDATION PLAN FOR ARCHITECTURAL DRAWINGS OF A HOUSE WITH TENSORIE JOB NAME DATED 1-25-18, RECEIVED FROM NO. CHARLES MOORE ON MARCH 28, 2003. OTHER MEMBERS OF THE HOUSE (STRUCTURAL AND/OR NON-STRUCTURAL MEMBERS) ARE OUT OF SOCHE OF THIS MORK.

FOUNDATION NOTES:

- A55UMED SOIL BEARING CAPACITY IS 2000 PSF. CONTRACTOR MUST CONTACT A SOILS ENGINEER IF UNSUITABLE SOILS ARE ENCONTREPO.
- ADEQUATE DRAINAGE SHALL BE PROVIDED FOR THE SURFACE AREA ADJACENT TO THE STRUCTURE SUCH THAT WATER DRAINS AWAY FROM STRUCTURE.
- THESE DRAWINGS APPELY ONLY TO THE FOUNDATION SYSTEM. ALL FRAMING, LATERAL BRACING, ETC., BY OTHERS.
- 4. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO WORK.
- 5. CONTRACTOR TO FIELD LOCATE THE STRUCTURE ON THE LOT.
- 6. FOR TYPICAL FOUNDATION DETAILS SEE SHEET SDI. 1. FOR ADDITIONAL NOTES, SEE "SP" SHEETS.

LEGEND:

INDICATES & CHU FOUNDATION WALL CENTERED









- JOISTS AND RAFTERS.
- 4. COORDINATE LOCATION OF UTILITY METERS WITH SITE PLAN AND LOCATE AWAY FORM PUBLIC VIEW. VISUAL IMMPACT SHALL BE MINIMIZED, I.E. MOUNT AS LOW AS POSSIBLE. 5. PREFABRICATED FIREPLACE CONSTRUCTION SHALL MEET OR EXCEED ALL APPLICABLE CODES REGARDING USE OF FIRE SEPARATIONS, CLEARANCES, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ITEMS AND CONSTRUCTION MEET OR EXCEED CODE. OVERALL FLUE HEIGHT SHALL BE COORDINATED TO MATCH HEIGHT SHOWN ON PLANS AND SHALL NOT EXCEED THE TOP OF CHIMNEY CHASE AS
- CONSTRUCTED. 6. CONTRACTOR SHALL COORDINATE ALL CLOSET SHELVING REQUIREMENTS. 7. DO NOT SCALE DRAWINGS, FOLLOW DIMENSIONS ONLY.
- 8. CONTRACTOR SHALL FIELD VERIFY ALL CABINET DIMENSIONS BEFOR FABRICATION. 9. BEDROOM WINDOWS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQ.FT., A MINIMUM NET CLEAR OPENABLE WIDTH OF 20", A MINIMUM NET CLEAR OPENABLE HEIGHT OF 24" AND HAVE A MAXIMUM FINISH SILL HEIGHT OF 43" FORM FINISH FLOOR. 10. ALL GLASS LOCATED WITHIN 18" OF FLOOR, 12" OF A DOOR OR LOCATED WITHIN 60" OF FLOOR AT
- BATHTUBS, WHIRLPOOLS, SHOWERS, SAUNAS, STEAM ROOMS OR HOT TUBS SHALL BE TEMPERED. II. ALL EXPOSED INSULATION SHALL HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DENSITY RATING OF LESS THAN 450. 12. PROVIDE COMBUSTION AIR VENTS, WITH SCREEN AND
- BACK DAMPER, FOR FIREPLACES, WOOD STOVES AND ANY APPLIANCE WITH AN OPEN FLAME. 13. BATHROOMS AND UTILITY ROOMS SHALL BE VENTED TO THE OUTSIDE WITH A MINIMUM OF A 90 CFM FAN. RANGE HOODS SHALL ALSO BE VENTED TO OUTSIDE. 14. ATTIC HVAC UNITS SHALL BE LOCATED WITHIN 20' OF ITS SERVICE OPENING. RETURN AIR GRILLES SHALL
- NOT BE LOCATED WITHIN 10 FEET OF A GAS FIRED APPLIANCE. 15. WALLS COMMON TO GARAGE AND HOUSE SHALL HAVE A LAYER OF TYPE "X" GYPSUM BOARD AT
- GARAGE SIDE. 16. ALL FIREPLACE CHASE WALLS SHALL BE INSULATED INSIDE AND OUTSIDE. PROVIDE HORIZONTAL "DRAFT STOPS" AT EACH FLOOR LEVEL BY PACKING 6" (R-19) INSULATION BETWEEN 2X4 JOISTS.
- 17. ALL INTERIOR WALLS SHALL BE COVERED WITH 1/2" GYPSUM BOARD, WITH METAL CORNER REINFORCING. TAPE FLOAT AND SAND. (3 COATS) USE 5/8" GYPSUM BOARD ON CEILINGS WHEN SUPPORTING MEMBERS ARE 24" O.C. OR GREATER. USE 1/2" GYPSUM BOARD ON CEILING MEMBERS LESS THAN 24" O.C.
- I8. ALL BATH AND TOILET AREA WALLS AND CEILINGS SHALL HAVE WATER RESISTANT GYPSUM BOARD.



- 2. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE. 3. WINDOW SIZES INDICATED ON PLANS ARE NOTED BY
- APPROXIMATE ROUGH OPENING SIZE, REFER TO PLANS AND EXTERIOR ELEVATIONS FOR WINDOW TYPES.

NOTE: I.- HVAC TO BE IN ATTIC. VERIFY W/ BUILDER.

2.- UPPER FLOOR CEILING HEIGHTS TO BE 8'-0" UNLESS NOTED. - UPPER FLOOR JOIST TO BE 16-1/2" OPEN WEB FLOOR

- TRUSSES @ 16" O.C. W/ 3/4" T&G ADVANTECH FLOOR GLUED & SCREWED. SEE TRUSS MANUF. FOR FLOOR TRUSS LAYOUTS
- ALL OPEN WEB FLOOR TRUSSES TO BE DESIGNED & ENGINEERED BY TRUSS MANUF. TRUSS MANUF. WILL PROVIDE TRUSS LAYOUT BASED ON ENGINEERING. TRUSS MANUF. TO SUPPLY TRUSSES W/ CHAMFERED END ON SELECTED UNITS TO ALLOW FOR EXT. WALL SUPPORT & RAFTER CLEARENCE.
- 4.- HVAC 8 W.H. TO BE IN ATTIC UNLESS OTHERWISE NOTED.



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LOCATION IST FLOOR 2ND FLOOR (SL ATTIC (NON STO ATTIC (STORAGE ROOF (WITH FIN ROOF (NO FINISH DECKS

VERIFY WITH LOCAL CODES. FINISH MATERIAL OVER.



NOTE:

CONSTRUCTION AND FRAMING NOTES:

ARE AS FULLOWS F	ER SU FI		
	LIVE	DEAD	DEFLECT LIMIT
EEPING AREAS) RAGE))) IISHED CEILING) HED CEILING)	40 LB 30 LB 10 LB 20 LB 30 LB SNOW 30 LB 60 LB	10 LB 10 LB 5 LB 10 LB 15 LB 7 LB 10 LB	L/360 L/360 L/240 L/240 L/240 L/180 L/180 L/360

SNOW LOADS HAVE BEEN ADJUSTED TO REFLECT THE SLIDEOFF FACTOR, AS A FUNCTION OF ROOF PITCH, RAFTER SIZES MAY HAVE TO BE INCREASED TO ACCOMADATE HIGHER SNOW LOADS.

2. LUMBER SHALL BE DOUGLAS-FIR-LARCH, HEM-FIR OR SOUTHERN-YELLOW-PINE WITH FB=1450 AND E=1.6 MINIMUM.

3. ALL HEADERS SHALL BE FREE FROM ALL SPLITS, CHECKS OR SHAKES. 4. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE HEADER JOISTS AND TRIMMERS AT ALL FLOOR OPENINGS, DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS, DOUBLE 2X12 HEADERS WITH 1/2" PLYWOOD, GLUED

BETWEEN AND NAILED, FOR ALL OPENINGS IN 2X6 WALLS, DOUBLE 2X12 HEADERS NAILED TOGETHER FOR ALL OPENINGS IN 2X4 WALLS. 5. FLOOR CONSTRUCTION: 3/4" TONGUE AND GROOVE SUBFLOOR WITH

6. STAIR CONSTRUCTION SHALL CONSIST OF (3)2XI2 STRINGERS,5/4" OR 2X THICK TREADS AND 3/4" THICK RISERS OR MATERIALS FABRICATED BY A COMPONENT MANUFACTURER.

7. ALL WOOD PLATES IN CONTACT WITH CONCRETE SHALL BE "PRESSURE TREATED" & SILICONE SEALED.

8. "MICRO-LAM" BEAMS SHALL HAVE BENDING STRESS: FB=2,800 PSI. VERIFY WITH LOCAL CODES.

9. SPECIAL UPLIFT CONNECTORS AS INDICATED AT CANTILEVERED JOISTS SHALL BE "SIMPSON STRONG TIE" ANCHORS OR EQUAL. 10, MINIMUM HEADER SIZE SHALL BE (2)2"X6" UNLESS NOTED OTHERWISE EXTERIOR WALLS SHALL BE (2) 2XI2 WITH 1/2" PLYWOOD.

II. ALL STRUCTURAL STEEL SHALL CONFORM WITH ASTM SPECIFICATION A-36, 12. UNLESS OTHERWISE NOTED, PROVIDE A 2X PLATE BOLTED TO THE TOP

FLANGE OF ALL STEEL BEAMS WITH 3/8" DIAMETER BOLTS STAGGERED AT 24" ON CENTER, RIGIDLY FASTEN ALL CONNECTING RAFTERS AND JOISTS AS APPROVED BY GOVERNING CODES, UNLESS OTHERWISE NOTED. 13. FLOOR FRAMING LAYOUT SHALL BE COORDINATED WITH THE GENERAL AND HVAC CONTRACTORS TO PROVIDE ACCESS CHASES AND UNOBSTRUCTED RUNS FOR HVAC DUCT WORK. FLOOR TRUSS LAYOUT TO BE ENGINEERED BY TRUSS MANUFACTURE.

I4. PROVIDE BRIDGING OR BLOCKING AT MIDSPAN OF JOISTS/RAFTERS/TRUSSES, MAXIMUM SPACING BETWEEN BEARING WALL AND BLOCKING IS 8'-0".

15. THESE FRAMING PLANS WERE DESIGNED USING STANDARD CONSTRUCTION PRACTICES. THEY CONFORM TO STANDARD BUILDING CODES. DUE TO VARIATIONS IN LOCAL CODES AND GEOLOGICAL CONDITIONS REVISIONS MAY BE REQUIRED TO THESE PLANS.

16. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, AND FHA/VA MPS, THE BUILDER SHALL VERIFY ALL CONDITIONS BEFORE BEGINNING CONSTRUCTION. CONSULT WITH LOCAL STRUCTURAL ENGINEERS AND CODE OFFICIALS PRIOR TO USING THE FRAMING MATERIALS PROVIDED TO INSURE COMPLIANCE WITH CODES AND STRUCTURAL INTEGRITY.

PURLINS ARE PERMITTED TO BE INSTALLED TO REDUCE THE SPAN OF RAFTERS. PURLINS SHALL BE SUPPORTED BY 2-INCH BY 4-INCH BRACES INSTALLED TO BEARING WALLS AT A SLOPE OF NOT LESS THAN 45 DE-GREES. THE BRACES SHALL NOT BE SPACED MORE THAN 48" APART ON CENTER AND THE UNBRACED LENGTH OF BRACES SHALL NOT EXCEED 8 FT. PULINS SHALL BE CONTINUOUS. (REFER IRC R802.5.1)



FRAMING NOTES:

I.- RAFTERS TO BE SUPPORTED BY CONT. BRACING FOR HORIZONTAL SPANS OF 15'-0" OR GREATER. 2.- SUPPORT ALL HIP, VALLEY, AND RIDGES . 8'-0" O.C. MAX. 3.- ALL RAFTERS TO BEAR ON SECOND FLOOR WALLS WHERE APPLICABLE.

4 - RAFTERS MAY BE SPLICED ONLY . CONT. BRACING OR SECOND FLOOR WALLS.

5.- RAFTERS TO BE PLACED IN COMPLIANCE WITH ALL LOCAL CODES.

<u>EXAMPLES:</u> A.- 2X6 RAFTERS • 16" O.C. MAX. WITH 1/2" P.W. DECKING. B.- 2X6 RAFTERS • 24" O.C. MAX. WITH 5/8" P.W. DECKING.

C.- 2X8 RAFTERS ● 24" O.C. MAX. WITH 5/8" P.W. DECKING.

D.- 2X8 RAFTERS • 16" O.C. MAX. WITH 1/2" P.W. DECKING. 6.- FASCIA OVERHANG TO BE 12" (TYP.) UNLESS NOTED ON ELEVATIONS. 7.- ALL HIP / VALLEY RAFTERS TO BE 2XI0 UNLESS NOTED.

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A TRUSS trusses an nents to t at the sp dividual de ed on the er is resp nent braci overall st t structur lumns is t er. For ge t BCSI-B1 lelivery pa	JOB NAME	Moore Residence	7 8 9 9	AD CH/ (BASEL MABER OF JA Wol sqnts q, by argy H All (2) 1 2 3 4 5 6 7	reactions to compl nents. Thi d Tables (nents) to data i number is greater A register to design that exce A register to design s that exce To design s that exce Jor T	ROO ROO RUS Reilly R Fayet Phon Fax
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GRAM OF ividual bu- ividual bu- io the buil- building du- ach truss g. The bu- ary and floor sys n of the t s, beams of the buil- garding br vided with sbcindus	QUOTE #	B0123-0323	DRAWN BY Jonathan Landry	CK STU 1) & (b)) 0 @ EA END NOLLOWN 23 34(68(102) 1360 1700	It to 30004 office Code refer to the prescription imum foo uired to s it greater sional sha em for an ed in the a ional sha em for all Land Land	CH OOF EAN ial Par 28309 -8787
ILY. iilding ding ssigner. design ilding tem and russ , walls, ding acing, the stry.com	JOB #	J0123-0323	SALES REP. Dwayne Naylor	JD S aggregation aggregation	t are ever Code undation upport than II be y attached II be	NS K



Ţis	Design		Client: Project: Address:	Cash Custom				Date: Input by: Job Name: Project #:	2/6/2023 Jonathan Landry Moore Residence J0223-0539		Page 2 of 13
BM1	Kerto-S	LVL	1.750'	' X 11	.875"	2-Ply	- PAS	SED	evel: Level		
· · ·	•		• •	•	•	• •	•	• •	· · · ·] 1/2	N T
1 SPF Er	• nd Grain	•••	•••	•	•	• •	•	•••	••••••••••••••••••••••••••••••••••••••		11 7/8"
					1; 1;	8'				/ /	3 1/2"
Multi-Ply A	Analysis										
Fasten all p	lies using 2 r	ows of 10d	Box nails (.128x3")	at 12" o.(c Maximum	n end dis	tance not	t to exceed 6".		
Capacity Load		0.0 % 0.0 PLF									
Yield Limit per I	Foot	163.7 Pl	F								
Yield Limit per I Vield Mode	Fastener	81.9 lb.									
Edge Distance		1 1/2"									
Min. End Distar	nce	3"									
Load Combinat	ion	4.00									
Duration Factor	-	1.00									

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech Reilly Road Industrial Park P.O. Box 40408 NO
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to design criteria and show and the contractor to design criteria and the contractor of design criteria and the contractor to design criteria and the contractor of design criteria and design criteria and desig	Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (200) 622 5950	USA 28309 910-864-8787
ensure the component suitability or the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation	This design is valid until 11/3/2024	(800) 622-5850 www.metsawood.com/us	соттесн



CSD DESIGN



ist	Design		Client: Project: Address:	Cash Custom			Date: Input b Job Na	2/6/2023 by: Jonathan ame: Moore Re	Landry esidence	Page 5 of 1
	orto S		1 750"	Y 11 97	75"	2_Dhv		t #: J0223-05 Level: Level	39	
	terto-5		1.750	A 11.07	5	2-P1y	- FASSE			
										——————————————————————————————————————
	• •	•	•	·	•	•	•	•	• •	
•	• •	•	•	•	•	•	•	٠	• • -	
1 SPF End	l Grain								2 SPF End	d Grain
					12'4"					3 1/2"
					12 4					I
Multi-Ply An	alysis									
Fasten all plie Capacity	es using 2 rov	ws of 10d	Box nails (.128x3") at 1	2" o.c	Maximum	end distance	not to exce	ed 6".	
Load Yield Limit per Fo	ot	0.0 PLF 163.7 PLF	:							
Yield Limit per Fa	stener	81.9 lb.								
Edge Distance		1 1/2"								
Min. End Distance	e 1	3"								
Duration Factor	•	1.00								
Notes Calculated Structured D structural adequacy of responsibility of the cuz ensure the componer application, and to verify Lumber 1. Dry service condition 2. LVI not to be treated	esigns is responsible on this component based loadings shown. It to suitability of the i the dimensions and load s, unless noted otherwisi	chemi on the 1. LVL b is the 2. Refer actor to 18. approx 4. Desig e 5. Provic	cals ng & Installatii to manufacture aems must not be ci to manufacture ing installatiom ning details, beat ged Beams must nor n assumes top edge (a lateral support i	On ut or drilled er's product informa requirements, multi stength values, and c ot be used is laterally restrained at bearing points to an	6. For f pondi ion ply ode	lat roofs provide p ng	roper drainage to prever	t Manufacture Metsä Wood 301 Merritt 7 Norwalk, CT (800) 622-58 www.metsaw	r Info Building, 2nd Floor 5851 50 ood.com/us	Comtech Relly Road Industrial Park P.O. Box 40408, USA 28309 910-864-8787
intro be nearer		latera	asplacement and r	rotation	This	design is valid	until 11/3/2024			



isDesign	Client: Cash Project: Custom Address:		Date: Input by: Job Name: Project #:	2/6/2023 Jonathan Landry Moore Residence J0223-0539	Page 7 of 13
BM3 Kerto-S LVL	1.750" X 11.875	" 3-Ply - PAS	SED	evel: Level	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	· · · · · · · · · · · · · · · · · · ·	· · · · ·	• •	· · · · · · · · · · · · · · · · · · ·	
1 SPF End Grain	• • •	••••	•	• • 2 SPF En	
ł		12'8" 12'8"			1 15 1/4"
Multi-Ply Analysis					
Fasten all plies using 5 rows of 10 6". Capacity 97.2 0	6d Box nails (.135x3.5") at 12	" o.c Nail from both s	ides. Max	imum end distance no	t to exceed
Load 521.3 Yield Limit per Foot 536.1 Yield Limit per Fastener 107.2	PLF PLF PLF				
Yield Mode IV Edge Distance 1 1/2"	,				
Load CombinationD+SDuration Factor1.15					
Notes Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended	chemicals andling & Installation LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening directly before accent writer and or it.	 For flat roofs provide proper drainage ponding 	to prevent	Anufacturer Info Aetsä Wood 01 Merritt 7 Building, 2nd Floor Jorwalk, CT 06851 800) 622-5850	Comtech Relity Road Industrial Park P.O. Box 40408, N USA 28309 910-864-8787
application, and to verify the dimensions and loads. Lumber 3. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive 5.	Damaged Beams must not be used Damaged Beams must not be used Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation	This design is valid until 11/3/2	024	www.metsawood.com/us	соттесн



		Client: Cash		Date:	2/6/2023	Page 9 of 13
4		Project: Custom		Input by	: Jonathan Landry	
	isDesign	Address:		Job Nar	ne: Moore Residence	
				Project	#: J0223-0539	
BM4	Kerto-S LVL	1.750" X 18.	000" 2-Pl	y - PASSED		
	• • •		•••		• • •	
•	• • •	• • •	• • •	• • •	• • • •	· · - 1'6"
			• •		• • •	
1 SPF	End Grain				2 SPF E	nd Grain
			18'5"			
			185			
1			18'5"			1
Multi-Pl	y Analysis					
Fasten al	ll plies using 3 rows o	f 10d Box nails (.128x3	") at 12" o.c Max	imum end distance i	not to exceed 6".	
Capacity	1	1.2 %				
Load Vield Linsit m	2 ¹	7.5 PLF				
Yield Limit p	per Foot 24	45.6 PLF 1.9 lb.				
Yield Mode	IV	/				
Edge Distar	nce 1	1/2"				
Min. End Di	istance 3'	' .1				
Duration Fa	inalion D	+L 00				
					Manufacturar Info	Comtech
Notes Calculated Strue	ictured Designs is responsible only of the	chemicals Handling & Installation	For flat roof ponding	s provide proper drainage to prevent	Metsä Wood	Reilly Road Industrial Park P.O. Box 40408, N USA
structural adeq design criteria	quacy of this component based on the a and loadings shown. It is the	1. LVL beams must not be cut or drilled	information		301 Merritt 7 Building, 2nd Floor	28309 910-864-8787
responsibility o ensure the c	of the customer and/or the contractor to component suitability of the intended	regarding installation requirement fastening details, beam strength value	ts, multi-ply les, and code		Norwalk, CT 06851 (800) 622-5850	
application, and Lumber	a to verify the dimensions and loads.	approvals 3. Damaged Beams must not be used			www.metsawood.com/us	
1. Dry service 2. LVL not to b	conditions, unless noted otherwise be treated with fire retardant or corrosive	 Design assumes top edge is laterally n Provide lateral support at bearing p 	estrained oints to avoid			соттесн
		เลเอเลเ นเรมเลงอากอาก สกับ เงเลแงก	This desig	jn is valid until 11/3/2024	1	

2		Clie	ent: Cas piect: Cus	sh stom				Date: Input by:	2/6/20	23 an Landr	v			Page 10 of 1
] i	sDesign	Ade	dress:					Job Name	: Moore	Residen	ce			
								Project #:	J0223	-0539				
BM5	S-P-F #1	2.000)" X 10	.000"	2-Ply	- PAS	SE	D	Level: Lev	vel				
		•		•	•								M	
	and the second s												IXIX	9 1/4"
•	•		1.114	•	•								/ V	
	F	4101		2 SP	F									2"
		4'2"											I	3
Vember I	nformation		A			Rea	actio	ons UNI	PATTER	NED I	o (Uplift)	0	\ A /iI	Ormat
Type: Plies:	Girder 2		Application: Design Meth	FIOO nod: ASD	Г (Brg	D	ertical	LIV	/e 0	Dead 625	Snow 625	VVind 0	Const
Moisture Co	ndition: Dry		Building Co	de: IBC/	IRC 2015	2	Ve	ertical		0	625	625	0	0
Deflection LI	L: 480		Load Sharin	g: No										
Deflection T	L: 360		Deck:	Not	Checked									
Importance:	Normal - II		Ceiling:	Gyps	sum 1/2"									
remperature	e: 1emp <= 100					Be	arin	ac						
								gs g longth	Dir	Can	Popet D/L lb	Total		Id Comb
							ann SDI	E 3.500"	I DII. Vert	28%	625 / 625	1250	Lu. Case	D+S
						2	- SPI	F 3.500"	Vert	28%	625 / 625	1250	L	D+S
Analysis R	esults						011							
Analysis	Actual	Location Alle	owed C	Capacity C	Comb. C	Case								
Moment	1031 ft-lb	2'1" 394	46 ft-lb 0	.261 (26%) D)+S L									
Unbraced	1031 ft-lb	2'1" 378	30 ft-lb 0	.273 (27%) C	I+S L	-								
Shear	613 lb	1' 3/4" 287	72 lb 0	.213 (21%) D	I+S L	-								
LL Defl inch	h 0.005 (L/9657)	2'1 1/16" 0.0	93 (L/480) 0	.050 (5%) S	· L	-								
TL Defl incl	h 0.009 (L/4828)	2'1 1/16" 0.1	24 (L/360) 0	.075 (7%) E	i+S L	·								
Design No	otes													
1 Provide s may also	upport to prevent late be required at the inte	ral movement a erior bearings by	nd rotation at / the building	the end bear code.	ngs. Lateral s	support								
2 Fasten al	I plies using 2 rows of	10d Box nails (.128x3") at 12	2" o.c. Maxim	um end distar	nce not								
to exceed	l 6". ast page of calculation	ns for fasteners	required for s	necified loads	s.									
4 Girders a	re designed to be sup	ported on the b	ottom edge or	nly.										
5 Top loads	must be supported e	qually by all plie	s.											
6 Top must 7 Lateral sle	be laterally braced at enderness ratio based	end bearings. d on single ply w	vidth.											
ID	Load Type	Loc	cation Trib	Width Si	de De	ead 0.9	Live	e 1 Sno	w 1.15	Wind	1.6 Const. 1	.25 Coi	nments	
1	Uniform			То	a a	300 PLF	0 F	PLF 3	00 PLF	0 F	PLF 0	PLF C3		
•														
									Manufact	urer Info		Comtech		
								F	manarado			Reilly Roa	ad Industrial Parl	k P.O. Box 40408, N
												28309 910-864-8	3787	
					This desi	gn is valid until	1/3/20	024				C	от	есн
						g e Vana undi								

isDesign	Client: Cash Project: Custo Address:	m	Date: Input by: Job Name Project #:	2/6/2023 Jonathan Landry Moore Residence J0223-0539	Page 11 of 13
BM5 S-P-F #	1 2.000" X 10.0	000" 2-Ply	- PASSED	Level: Level	
			I		
• •	•	• =	1		M T
	•	• + +	-		9 1/4"
1 SPF	4101	2 SPF	<u>N</u>		
 	4'2"				3
Multi-Ply Analysis					
Fasten all plies using 2 r Capacity Load	ows of 10d Box nails (.128x	3") at 12" o.c Maxir	num end distance no	ot to exceed 6".	
Yield Limit per Foot Yield Limit per Fastener	157.4 PLF 78.7 lb.				
Yield Mode Edge Distance	IV 1 1/2"				
Min. End Distance	3"				
Load Combination Duration Factor	1.00				
			F	Manufacturer Info	Comtech Reilly Road Industrial Park P.O. Box 40408, N USA 28309 910-864-8787
					соттесн
		This design	is valid until 11/3/2024		



isDesign	Client: Cash Project: Custom Address:	Date: Input Job N Projec	2/6/2023 by: Jonathan Landry ame: Moore Residence tt #: J0223-0539	Page 13 of 1
GDH Kerto-S L	VL 1.750" X 18.000"	3-Ply - PASSED	Level: Level	
· · · ·	· · · · ·	· · · · ·	· · · ·	···
· · ·	· · · · · · ·	· · · ·	· · · ·	· · · · · · · · · · · · · · · · · · ·
1 SPF End Grain			2 SPF En	
		18'10" 18'10"		1 15 1/4"
Multi-Ply Analysis Fasten all plies using 3 roy	ws of 10d Box nails (.128x3") at 12"	o.c., Nail from both sides. M	laximum end distance not to	o exceed
)".				
apacity oad	0.0 % 0.0 PLF			
eld Limit per Foot ield Limit per Fastener	245.6 PLF 81.9 lb			
ield Mode	IV			
dge Distance	1 1/2"			
lin. End Distance oad Combination	3"			
Duration Factor	1.00			
				1
Notes	chemicals	6. For flat roofs provide proper drainage to preve	Manufacturer Info	Comtech Reilly Road Industrial Park P.O. Box 40408,
Calculated Structured Designs is responsible on structural adequacy of this component based	y of the Handling & Installation on the 1. LVL beams must not be cut or drilled	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor	USA 28309
uesign criteria and loadings shown. It responsibility of the customer and/or the contri- ensure the component suitability of the i	IS UNE 2. Refer to manufacturer's product information actor to regarding installation requirements, multi-ply faelening details how details and activity of the planet in the planet faelening details.		Norwalk, CT 06851 (800) 622-5850	910-864-8787
application, and to verify the dimensions and load	asprovals approvals approval approval		www.metsawood.com/us	
1. Dry service conditions, unless noted otherwis 2. LVL not to be treated with fire retardant or o	e 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid			сотесн
	lateral displacement and rotation	This design is valid until 11/3/2024		