



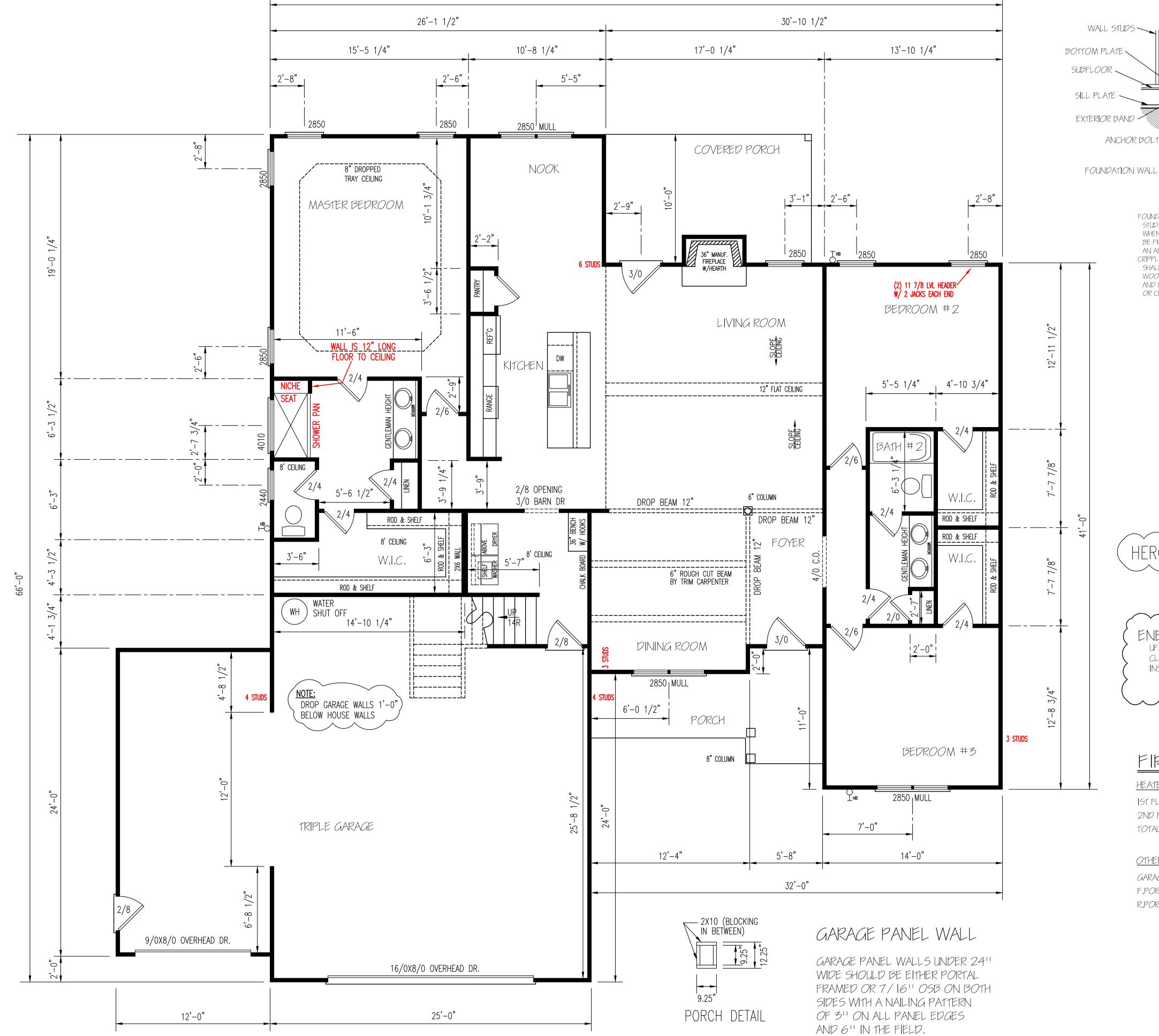
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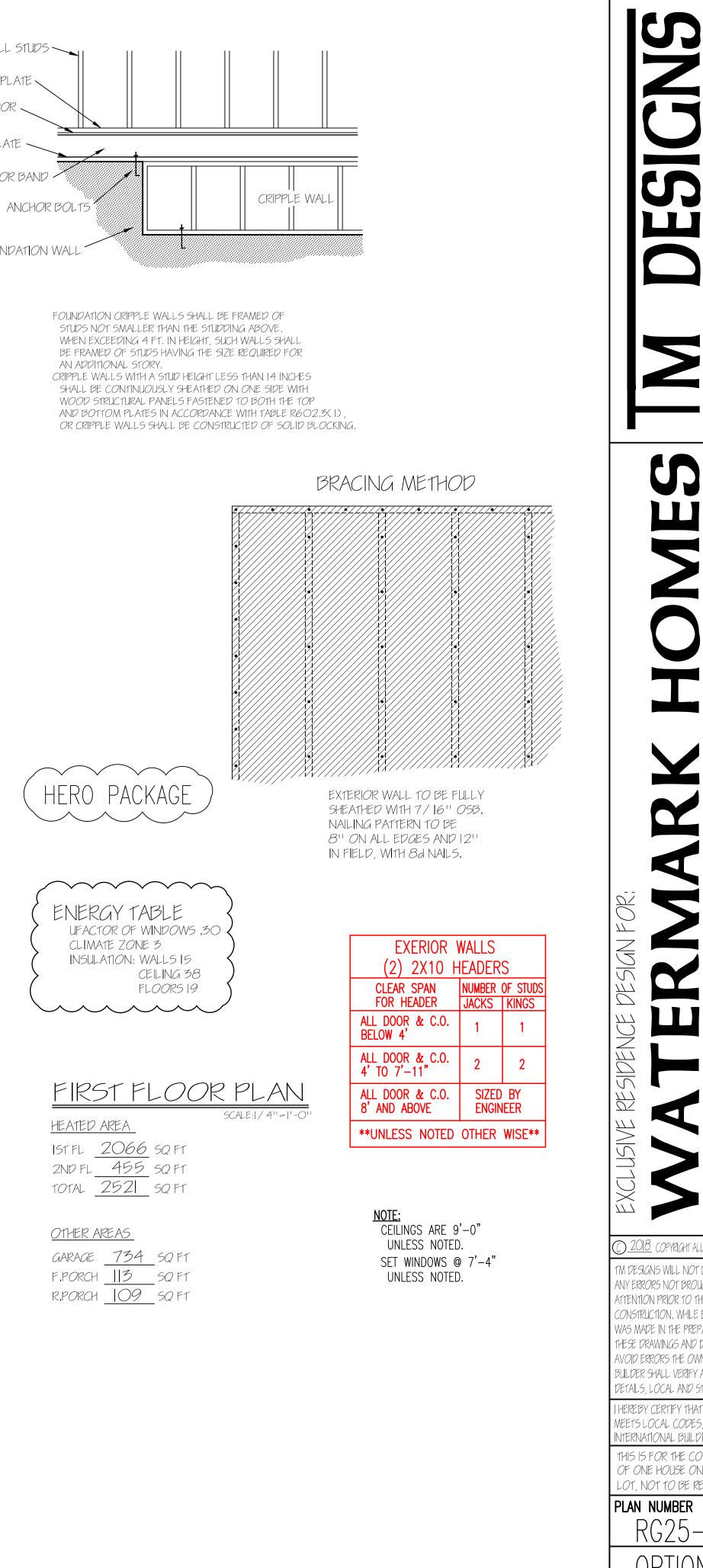
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 $\bigcirc$ d5  $\equiv$ Ш ZAK  $\cup$  $\overline{\mathcal{O}}$ NAME  $\bigcirc 2018$  copyright All Rights reserved TM DESIGNS WILL NOT BE LIABLE FOR ANY ERRORS NOT BROUGHT TO THEIR ATTENTION PRIOR TO THE START OF CONSTRUCTION, WHILE EVERY EFFORT WAS MADE IN THE PREPARATION OF THESE DRAWINGS AND DIMENSIONS T AVOID ERRORS THE OWNER AND / OR BUILDER SHALL VERIFY ALL DIMENSIONS DETAILS, LOCAL AND STATE CODES, I HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2018 INTERNATIONAL BUILDING CODES 1HIS IS FOR 1HE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED RG25-A07

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SIGN

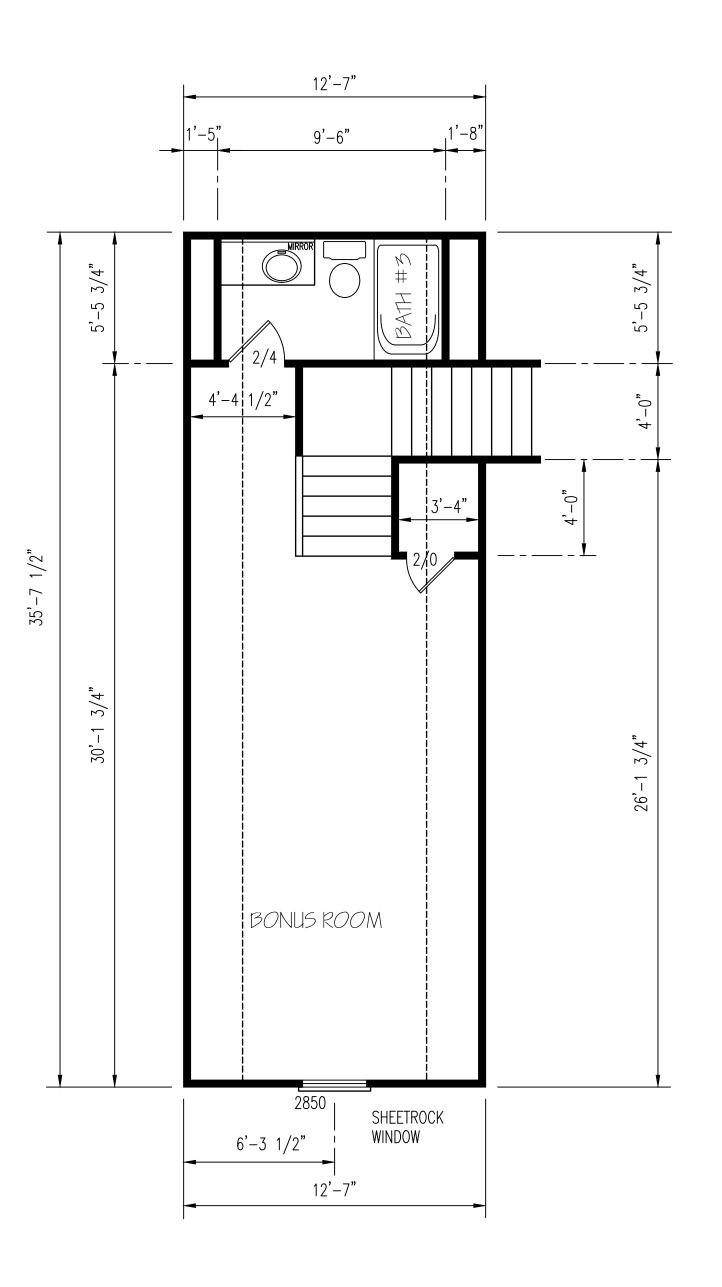
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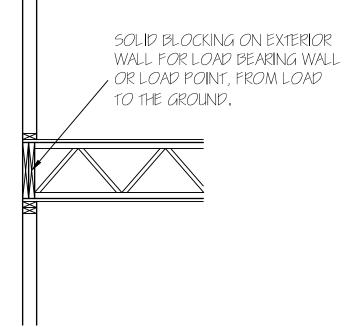
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OPTION GARAGE L F  $\mathbf{O}$ DATE: **A** 11/5/20

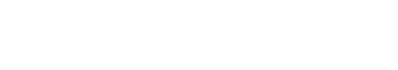




EXERIOR WALLS								
(2) 2X10 HEADERS								
CLEAR SPAN		OF STUDS						
FOR HEADER	JACKS	KINGS						
ALL DOOR & C.O. BELOW 4'	1	1						
ALL DOOR & C.O. 4'TO 7'-11"	2	2						
ALL DOOR & C.O. 8' AND ABOVE								
**UNLESS NOTED	OTHER	WISE**						

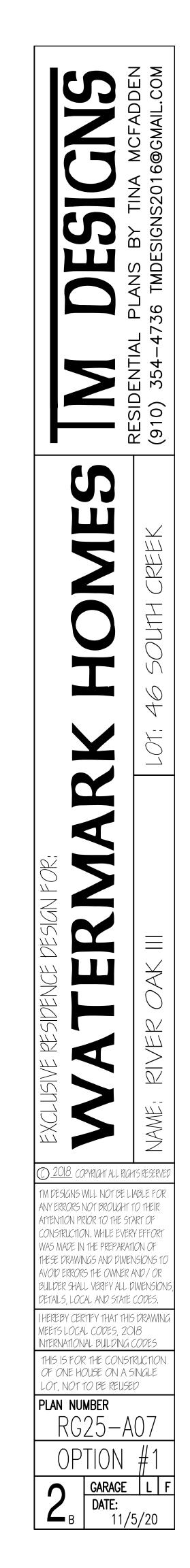








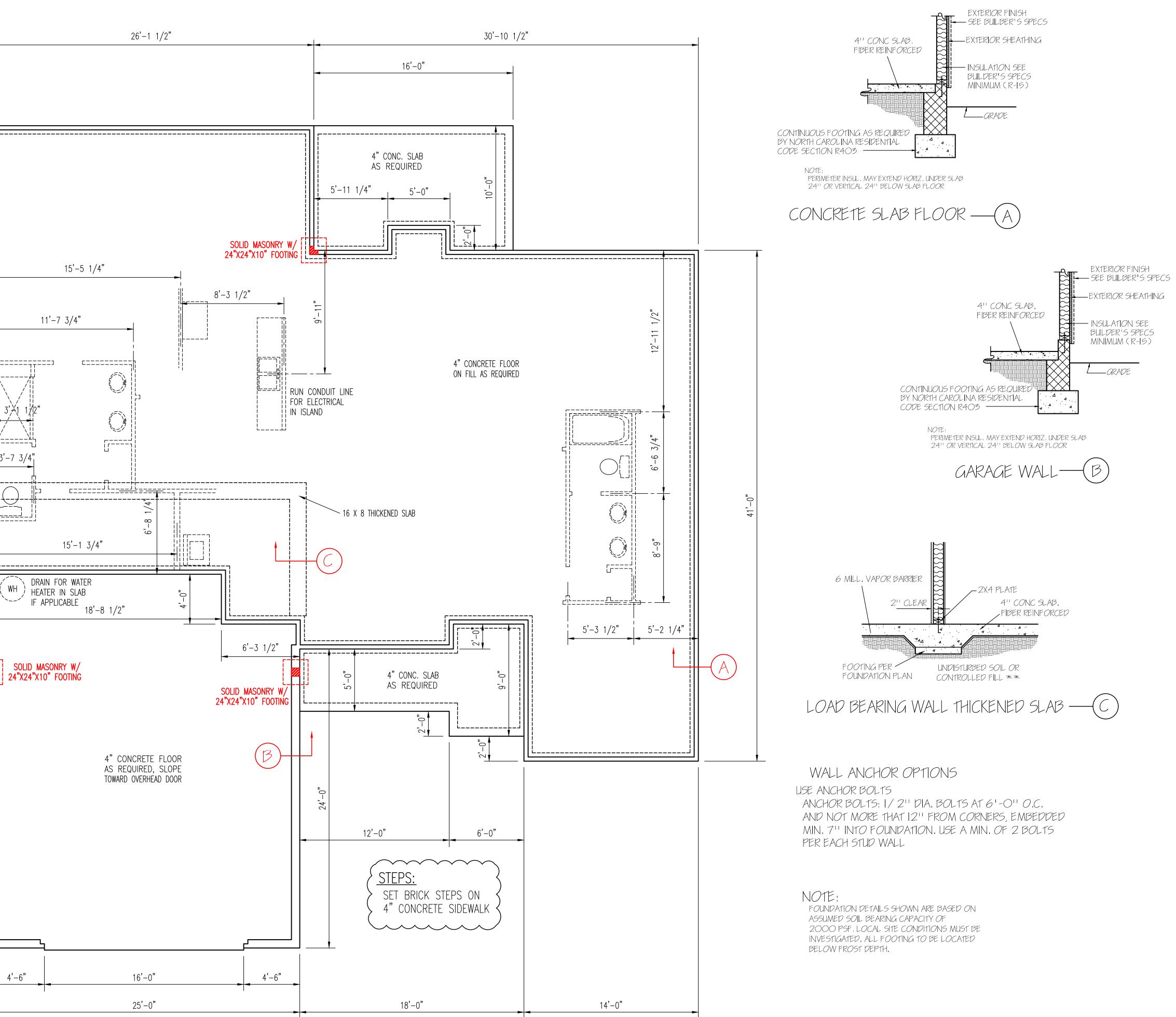
SCALE: 1/4''= 1'-0''



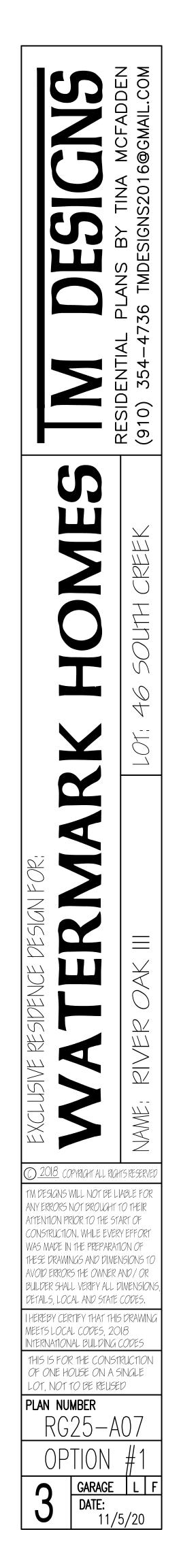
SOLID BLOCKING FOR INTERIOR WALL OR LOAD POINT FROM LOAD TO GROUND.

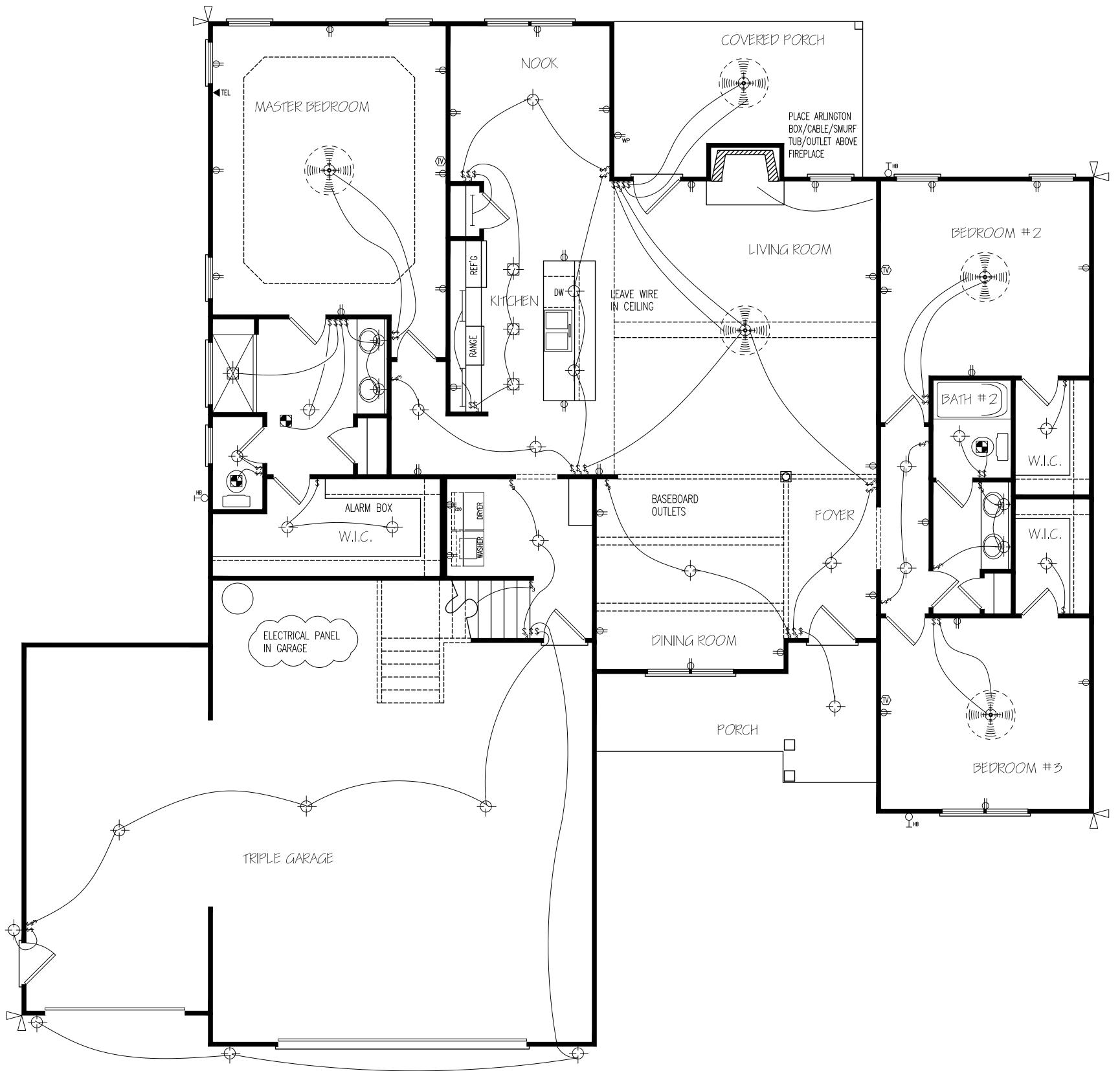
0 15'-5 1/4" 11'-7 3/4" C\_\_\_\_\_ [\_\_\_\_\_ \_\_\_\_\_ '**|3'**-7 3/4', c=====<u>i</u>i=<u>==</u>==<u>+</u>==<sub>1</sub>== 151 15'-1 3/4" (WH) DRAIN FOR WATER HEATER IN SLAB 12'-0" IF APPLICABLE 18'-8 1/2" SOLID MASONRY W/ 24"X24"X10" FOOTING 4" CONCRETE FLOOR AS REQUIRED, SLOPE TOWARD OVERHEAD DOOR  $\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark$ 4'-6" 16'-0" 25**'**-0" 4" | 4" DETAIL FOR GARAGE DOOR OPENING  $\overline{\ }$ 

26'-1 1/2"



FOUNDATION PLAN SCALE:1/4"=1'-0"



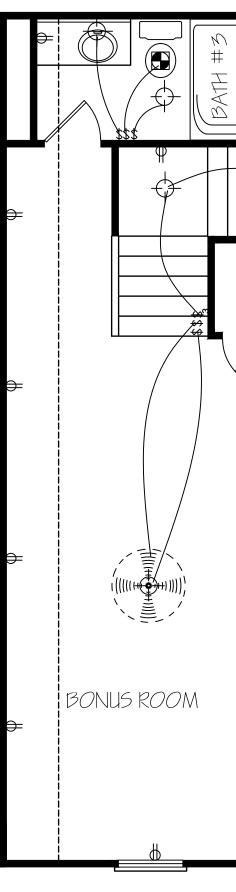


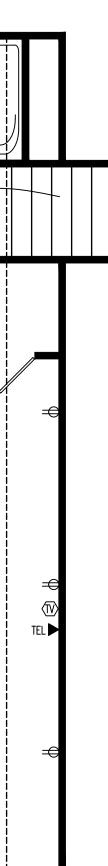
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HERO PACKAGE

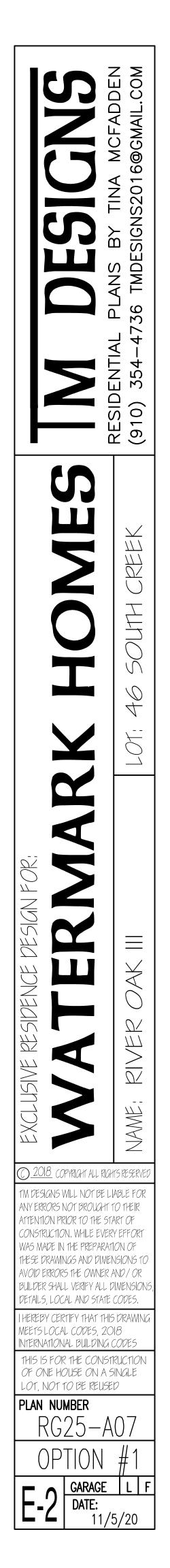
DEN COM @GN Ö ANS BY TINA TMDESIGNS2016 36 4 З С М RESIDE (910) 3 S Ш  $\bigcirc$ HTH 5 T 40 Y  $\_$ ER  $\smile$  $\overline{\mathcal{O}}$ RIVE NAME  $\bigcirc \underline{2018}$  copyriaht all rights reserved TM DESIGNS WILL NOT BE LIABLE FOR ANY ERRORS NOT BROUGHT TO THEIR ATTENTION PRIOR TO THE START OF CONSTRUCTION, WHILE EVERY EFFORT WAS MADE IN THE PREPARATION OF THESE DRAWINGS AND DIMENSIONS TO AVOID ERRORS THE OWNER AND / OR BUILDER SHALL VERIFY ALL DIMENSIONS DETAILS, LOCAL AND STATE CODES, HEREBY CERTIFY THAT THIS DRAWING MEETS LOCAL CODES, 2018 INTERNATIONAL BUILDING CODES 1HIS IS FOR THE CONSTRUCTION OF ONE HOUSE ON A SINGLE LOT, NOT TO BE REUSED PLAN NUMBER RG25-A07 OPTION **E-1** GARAGE L F DATE: 11/5/20 11/5/20

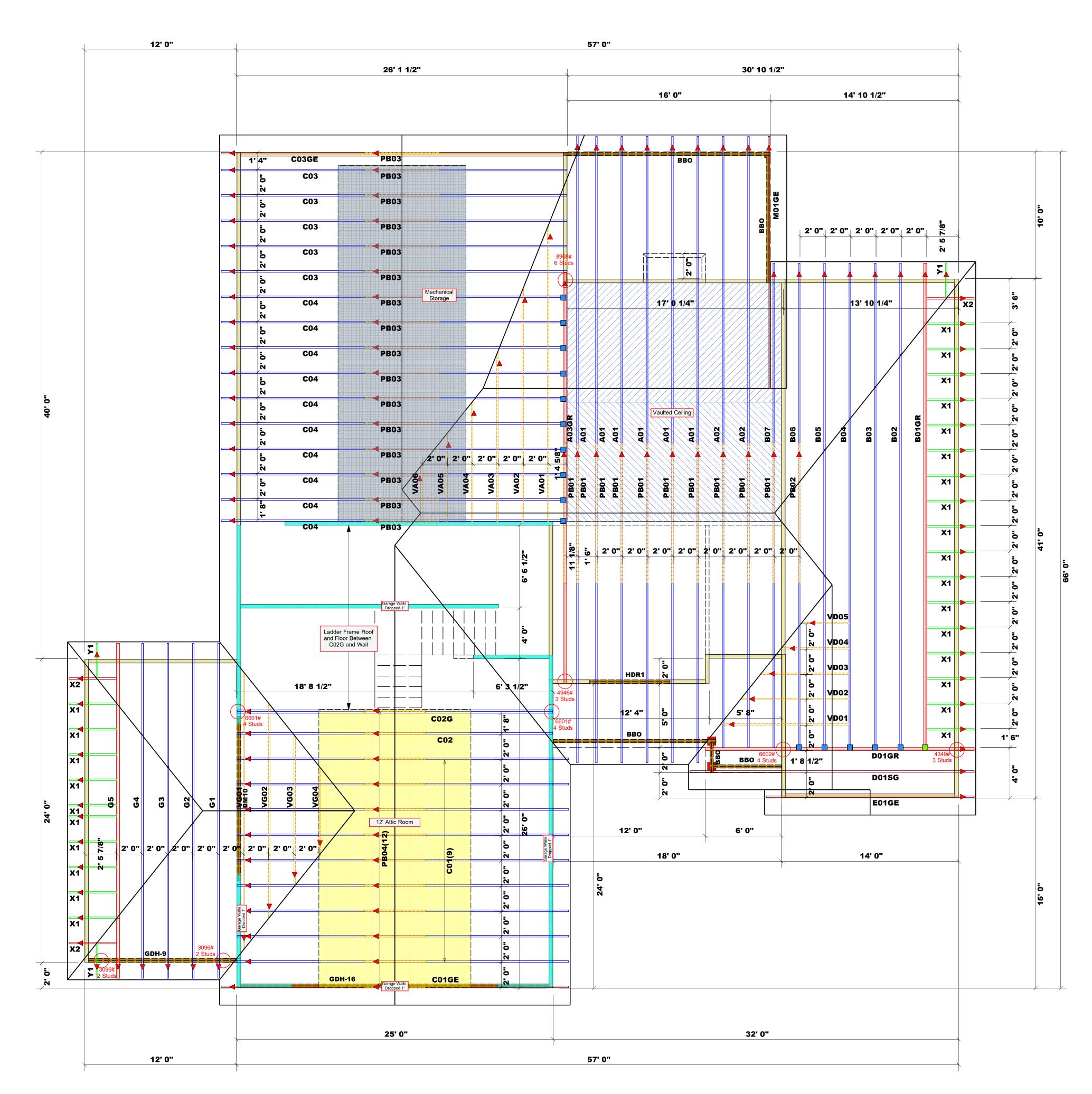




(HERO PACKAGE)

<u>SECOND FLOOR</u> ELECTRICAL LAYOUT





ROOF TRUSS PLACEMENT PLAN 24" O.C. SPACING (TYP. U.N.O.) SCALE: 1/4" = 1'-0"

	THE These Trees The construction of the but russ designer the roof is designer the roof is designer walls, an For gene BCSI-B3 sbcindus Bearing deemeet requirer size and requirer size and requirer size and requirer size and requirer size and reaction Tables. retaineet that exc NUM	ROC RUS eilly R Fayett Phone Fax: 5 ISA TRU usses are coordinated inding designing in identific is respons and floor sy f the truss is f the	DF 8 SES oad In teville, e: (910 (910) JSS PLACE designed as not the buil pur. See ir ded on the puil puble for tem system and for support stru- is the respon- te regarding with the trus e contract.	A FL( & B adustri , N.C. 2 )) 864- 864-4 Ment Div individual adigitation of the over a second of the over prescription or the over prescription or shall re room the pre- prescription or shall re room the pre- prescription or shall re room the pre- prescription or shall re room the pre- specified or system of the over system of the ov	AGRAM ON building core a the spe sign sheets rawing. The permanent all structure ding header the building consult BCS backage or to 3000# a ve Code fer to the rescriptive rescriptive mum found red to sup greater th nonal shall n for any for all re	ALY. mponents cification s for each building bracing of . The s, beams, g designer. I-B1 and online @ ACCODE ached be ached ached be ached
et Qty N.O.	COUNTY Harnett County	ADDRESS Lot 46 South Creek	MODEL Roof	DATE REV. 11/13/20	DRAWN BY Anthony Williams	SALESMAN Anthony Williams
	BUILDER Watermark Homes, Inc.	JOB NAME Lot 46 South Creek	PLAN River Oak w/ 3rd Car	SEAL DATE Plan Date: 11/5/20	QUOTE # NA	JOB # J1120-5330

Dimension Notes           Dimension Notes           1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise           2. All interior wall dimensions are to face of frame wall unless noted otherwise           3. All exterior wall to truss dimensions are to
face of sheathing unless noted otherwise 2. All interior wall dimensions are to face of frame wall unless noted otherwise
face of frame wall unless noted otherwise

Roof Area	= 4663.54 sq.ft.
Ridge Line	= 122.39 ft.
Hip Line	= 81.64 ft.
Horiz. OH	= 228.83 ft.
Raked OH	= 157.79 ft.
Decking	= 160 sheets

Indicates Left End of Truss (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

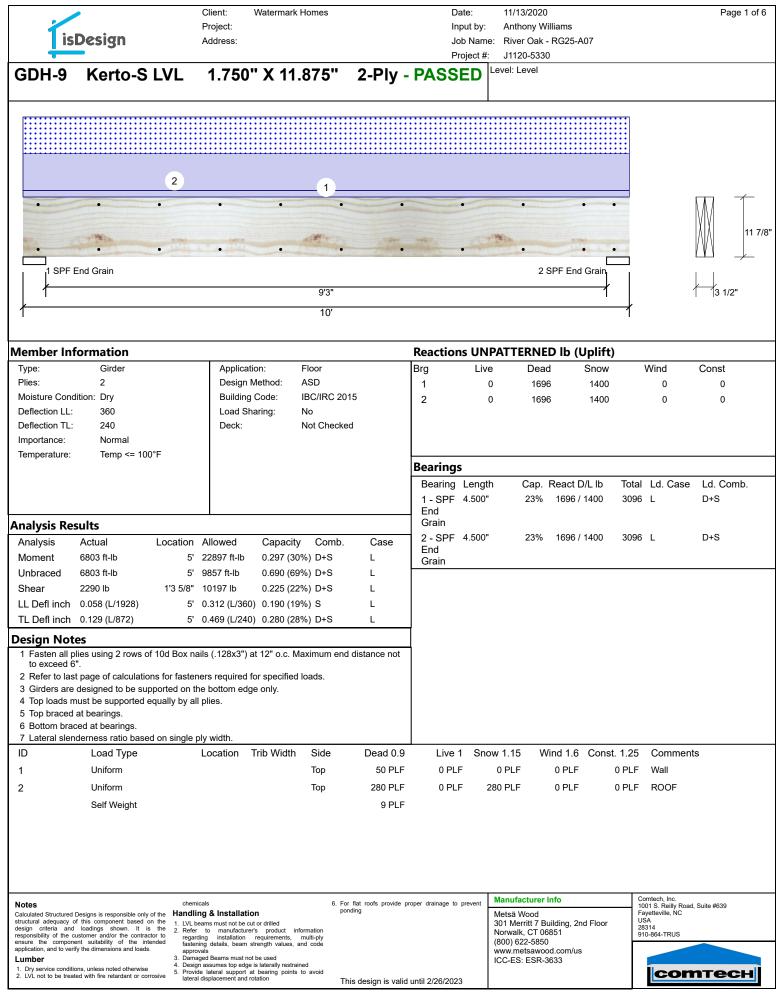
All Walls Shown Are Considered Load Bearing

WALL SCHEDULE

1st Floor Brg. Wall Gar. Walls Dropped  $\Box \equiv \equiv \equiv \equiv \Box$  Non-Bearing Walls

Sym	Manuf	Qty	Supported Member	Header	Truss	
	THD26-2	USP	1	Varies	16d/3-1/2"	10d/3"
	HUS26	USP	15	Varies	16d/3-1/2"	16d/3-1/2"

Beam Schedule							
PlotID	Length	Product	Plies	Net Qty			
HDR1	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2			
GDH-16	25' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2			
GDH-9	12' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2			
For all Beams Labeled BBO Assume (2)2x10 SP#2 or Better U.N.O.							



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	Client:	Watermark Homes	Date:	11/13/2020	Page 2 of 6
	Project:		Input by	: Anthony Williams	
isDesign	Address:		Job Na	me: River Oak - RG25-A07	
			Project	#: J1120-5330	
GDH-9 Kerto-S LV	<sup>′</sup> I 1 750 <sup>′</sup>	" X 11 875'	2-Ply - PASSED	Level: Level	
	L 1.700	X 11.070	2-I IY - I AOOLD		
• • •	•	•	• • •	• • •	
	_	_			"CT T V
	•	•		• • • -	
1 SPF End Grain				2 SPF End Grain	
<i> </i>		9'3"			3 1/2"
				I	1 13 172
1		10'		,	l
Multi-Ply Analysis					
Fasten all plies using 2 rows of		128x3") at 12" o	o.c Maximum end distance	not to exceed 6"	
Capacity 0.0					
	PLF				
	3.7 PLF 9 lb.				
Yield Mode IV	0.15.				
Edge Distance 1 1,	/2"				
Min. End Distance 3"					
Load Combination	0				
Duration Factor 1.0	0				
Notes	chemicals	e e	. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc.
	Handling & Installation	on	ponding	Metsä Wood	<ul> <li>1001 S. Řeilly Road, Suite #639</li> <li>Fayetteville, NC</li> </ul>
structural adequacy of this component based on the design criteria and loadings shown. It is the	1. LVL beams must not be cu 2. Refer to manufacture	r's product information		301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314 910-864-TRUS
responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.	regarding installation fastening details, beam	requirements, multi-ply strength values, and code		(800) 622-5850	510-004-11/03
Lumber	approvals 3. Damaged Beams must no	t be used		www.metsawood.com/us ICC-ES: ESR-3633	
<ol> <li>Dry service conditions, unless noted otherwise</li> <li>LVL not to be treated with fire retardant or corrosive</li> </ol>	<ol> <li>Design assumes top edge</li> <li>Provide lateral support a lateral displacement and r</li> </ol>	t bearing points to avoid			соттесн
	lateral displacement and r	Jacuti	This design is valid until 2/26/2023	1	

is	Design	Client: Waterma Project: Address:	ark Homes		ln Jo		11/13/2020 Anthony Wi River Oak - J1120-5330	RG25-A07		Page	3 of 6
HDR1	Kerto-S LVL	- 1.750" X 9.	250" 2-P	ly - PA		oject #:	vel: Level				
		1									
•	C. No.		·			•					9 1
	End Grain	5'6"		2 SP	F End Gra					3 1/2"	
ŕ		6'									
ember In	formation			R	eactior	s UNPA	TTERNE	D lb (Uplift)	)		
Type: Plies: Moisture Com Deflection LL: Deflection TL: mportance:	360 240 Normal	Application: Design Method: Building Code: Load Sharing: Deck:	Floor ASD IBC/IRC 2015 No Not Checked		'g 1 2	Live 0 0	Deac 1294 1294	1272	Winc (	0 0	
emperature:	·				earings Bearing 1 - SPF End Grain	Length	Cap. 28%	React D/L lb 1294 / 1272	Total Ld. 2566 L	Case Ld. Comb D+S	b.
TL Defl inch esign Not 1 Fasten all p to exceed 6 2 Refer to las 3 Girders are 4 Top loads r 5 Top braced	Actual     Loca       3382 ft-lb     3382 ft-lb       3382 ft-lb     1746 lb       1746 lb     11       0.027 (L/2532)     0.054 (L/1256)       tes       bilies using 2 rows of 10d l       5".     st page of calculations for e designed to be supported equally	3'       10944 ft-lb       0.309         1 1/2"       7943 lb       0.220         3'       0.188 (L/360)       0.140         3'       0.281 (L/240)       0.190    Box nails (.128x3") at 12" o.c fasteners required for specif d on the bottom edge only.	(23%) D+S (31%) D+S (22%) D+S (14%) S (19%) D+S	Case L L L L L	2 - SPF End Grain	3.000"	28%	1294 / 1272	2566 L	D+S	
7 Lateral sler D	nderness ratio based on s Load Type Uniform	ingle ply width. Location Trib Wic	th Side I Top	Dead 0.9 424 PLF	Live 2		1.15 W	ind 1.6 Const 0 PLF	. 1.25 Co 0 PLF A01	mments	
tructural adequacy esign criteria and esponsibility of the nsure the compor	Self Weight	chemicals Handling & Installation 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product regarding installation requiremen fastening details, beam strength valu approvals	ponding information s. multi-ply	7 PLF	drainage to	M 30 No (8	anufacturer I etsä Wood 11 Merritt 7 BL orwalk, CT 06 00) 622-5850 ww.metsawoo	uilding, 2nd Floor 851	Comtech, 1001 S. F Fayettevil USA 28314 910-864-	eilly Road, Suite #639 le, NC	

Address: Job Name: River Oak - RG25-A07 Project #: J1120-5330 Level: Level Level: Level	9 1/-
	9 1/
	9 1,
	9 1/
•         •	
$\begin{bmatrix} 1 & & 56 & & 1 \\ \hline & & 6' & & 1 \end{bmatrix}$	3 1/2
Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6"	
Capacity 0.0 % Load 0.0 PLF Yield Limit per Foot 163.7 PLF	
Yield Limit per Fastener81.9 lb.Yield ModeIVEdge Distance1 1/2"Min. End Distance3"	
Load Combination Duration Factor 1.00	
Notes         chemicals         6. For flat roofs provide proper drainage to prevent ponding         Manufacturer Info         Contech, Inc.           Calculated Structured Designs is responsible only of the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor.         Handling & Installation         6. For flat roofs provide proper drainage to prevent ponding         Manufacturer Info         Contech, Inc.           1. UL beams must not be cut or drilled         1. UL beams must not be cut or drilled         301 Merritt 7 Building, 2nd Floor         USA           Norwalk, CT 06851         1. Beams must not be cut or drilled         2. Refer to manufacturer's product information regarding installation requirements, multi-ply         Norwalk, CT 06851         910-864-TRUS	÷#639
ensure the component suitability of 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	есн

	•	Client: Watermark Homes Project:		Date: Input		/13/2020 hthony Williams			Page 5 c
isl	Design	Address:				ver Oak - RG25-A07			
				Proje		120-5330 : Level			
GDH-16	Kerto-S LVL	1.750" X 11.875"	2-PIy - P	ASSED					
• •	2 · · · ·	1				2 SPF En	d Grain		11 7/8 11 7/8
∤		17'5	3"					$\rightarrow$	
lember Inf						TERNED Ib (Uplift)			
Type: Plies:	Girder 2	Application: Floor Design Method: ASD		Brg 1	Live 345	Dead Snow 1675 173		Wind 0	Const 0
Moisture Condi		Building Code: IBC/IRC 20	)15	2	345 345	1675 173 1675 173		0	0
Deflection LL:	480	Load Sharing: No		_					
Deflection TL:	360 Normal	Deck: Not Checke	ed						
mportance: Temperature:	Temp <= 100°F								
	·····			Bearings					
				Bearing Le 1 - SPF 6.0 End	-	Cap. React D/L lb 11% 1675 / 388	Total 2063	Ld. Case L	Ld. Comb. D+0.75(L+S)
nalysis Res				Grain		444 4075 4000			
Analysis		n Allowed Capacity Comb.	Case	2 - SPF 6.0 End	000"	11% 1675 / 388	2063	L	D+0.75(L+S)
Moment Unbraced	7851 ft-lb 8'7 1/2 8019 ft-lb 8'7 1/2	( )	L (1+S) I	Grain					
Onbraced		(100%)	(2.0) 2						
Shear		3" 8867 lb 0.190 (19%) D+L	L						
		5" 0.409 (L/480) 0.190 (19%) 0.75(L+							
TL Defl inch		6" 0.546 (L/360) 0.770 (77%) D+0.75	(L+S) L	ļ					
esign Note		nails (.128x3") at 12" o.c. Maximum end	d distance not	l					
to exceed 6'									
	page of calculations for fast designed to be supported or	teners required for specified loads. n the bottom edge only.							
•	ust be supported equally by	•							
	e laterally braced at a maxim ed at bearings.	um of 12' 3/4" o.c.							
	derness ratio based on singl								
ID 1	Load Type	Location Trib Width Side	Dead 0.9		Snow 1.			Comments	;
1	Uniform	Тор	150 PLF	0 PLF	0 PI		0 PLF	Wall	
2	Uniform	Тор	35 PLF	40 PLF	20 PI	LF 0 PLF	0 PLF	r+K	
	Self Weight		9 PLF						
lotoo	_1.	nemicals 6. Fo	or flat roofe provide	oner drainage to press	ent Manu	ufacturer Info	Co	omtech, Inc.	
Notes Calculated Structured E	Designs is responsible only of the Han	dling & Installation	or flat roofs provide pr onding	uper unainage to prev	Mets	ä Wood	10	01 S. Reilly Road, S yetteville, NC	Suite #639
lesign criteria and esponsibility of the cu	Istomer and/or the contractor to rei	/L beams must not be cut or drilled efer to manufacturer's product information garding installation requirements, multi-ply			Norw	Merritt 7 Building, 2nd Floor ralk, CT 06851	28	314 0-864-TRUS	
ensure the compone application, and to verify	nt suitability of the intended fat y the dimensions and loads. ap	stening details, beam strength values, and code oprovals			www	) 622-5850 .metsawood.com/us			
	3. Da	amaged Beams must not be used				ES: ESR-3633			
. Dry service conditio	ns, unless noted otherwise ed with fire retardant or corrosive	esign assumes top edge is laterally restrained rovide lateral support at bearing points to avoid							тесн

	Client: Watermark Homes	3	Date:	11/13/2020	Page 6 of 6
LioDesian	Project:		Input by:	Anthony Williams	
isDesign	Address:		Job Name	: River Oak - RG25-A07 J1120-5330	
	4 7501 V 44 0751		Project #:	_evel: Level	
GDH-16 Kerto-S LVL	1.750" X 11.875'	2-Ply - PASSE	ישב		
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	• • •	• • • •	•	• • • •	
1 SPF End Grain				2 SPF End Gr	ain //
		16'3"			<b>1 1 3</b> 1/2"
×		17'3"			f
					,
Multi Dhy Analysia					
Multi-Ply Analysis					
Fasten all plies using 2 rows of 100	d Box nails (.128x3") at 12"	o.c Maximum end dis	tance no	ot to exceed 6"	
Capacity 0.0 % Load 0.0 PLF					
Yield Limit per Foot 163.7 P					
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Yield ModeIVEdge Distance1 1/2"					
Min. End Distance 3"					
Load Combination					
Duration Factor 1.00					
	emicals	<ol> <li>For flat roofs provide proper drainage ponding</li> </ol>	to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the 1. LVI	L beams must not be cut or drilled	ponung		Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It is the 2. Re responsibility of the customer and/or the contractor to	fer to manufacturer's product information garding installation requirements, multi-ply			Norwalk, CT 06851	28314 910-864-TRUS
application, and to verify the dimensions and loads. ap	tening details, beam strength values, and code provals			(800) 622-5850 www.metsawood.com/us	
Lumber 3. Da 4. De	maged Beams must not be used sign assumes top edge is laterally restrained			ICC-ES: ESR-3633	
5. PIC	ovide lateral support at bearing points to avoid eral displacement and rotation	This design is valid until 2/26/2	023		соттесн

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