

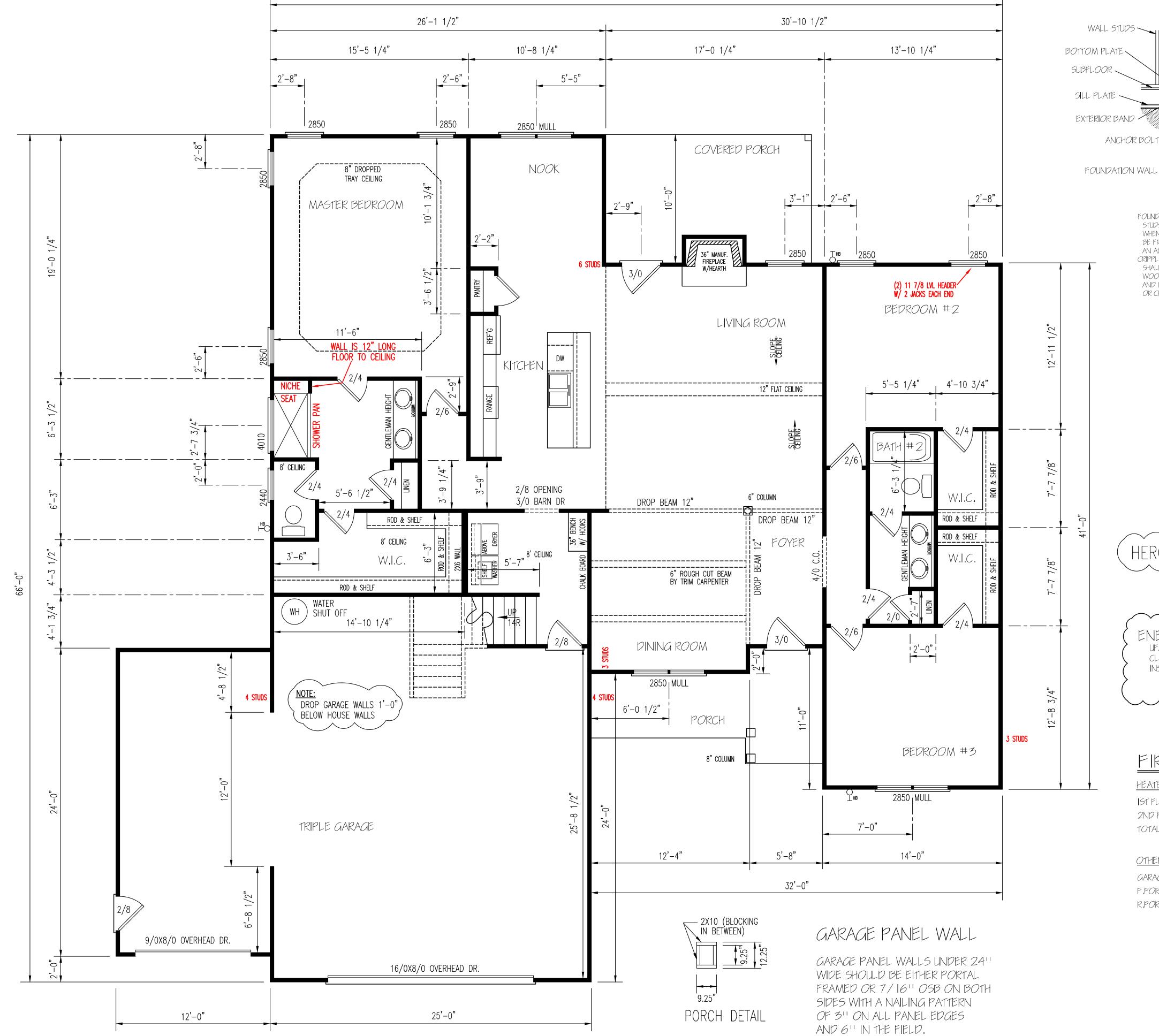


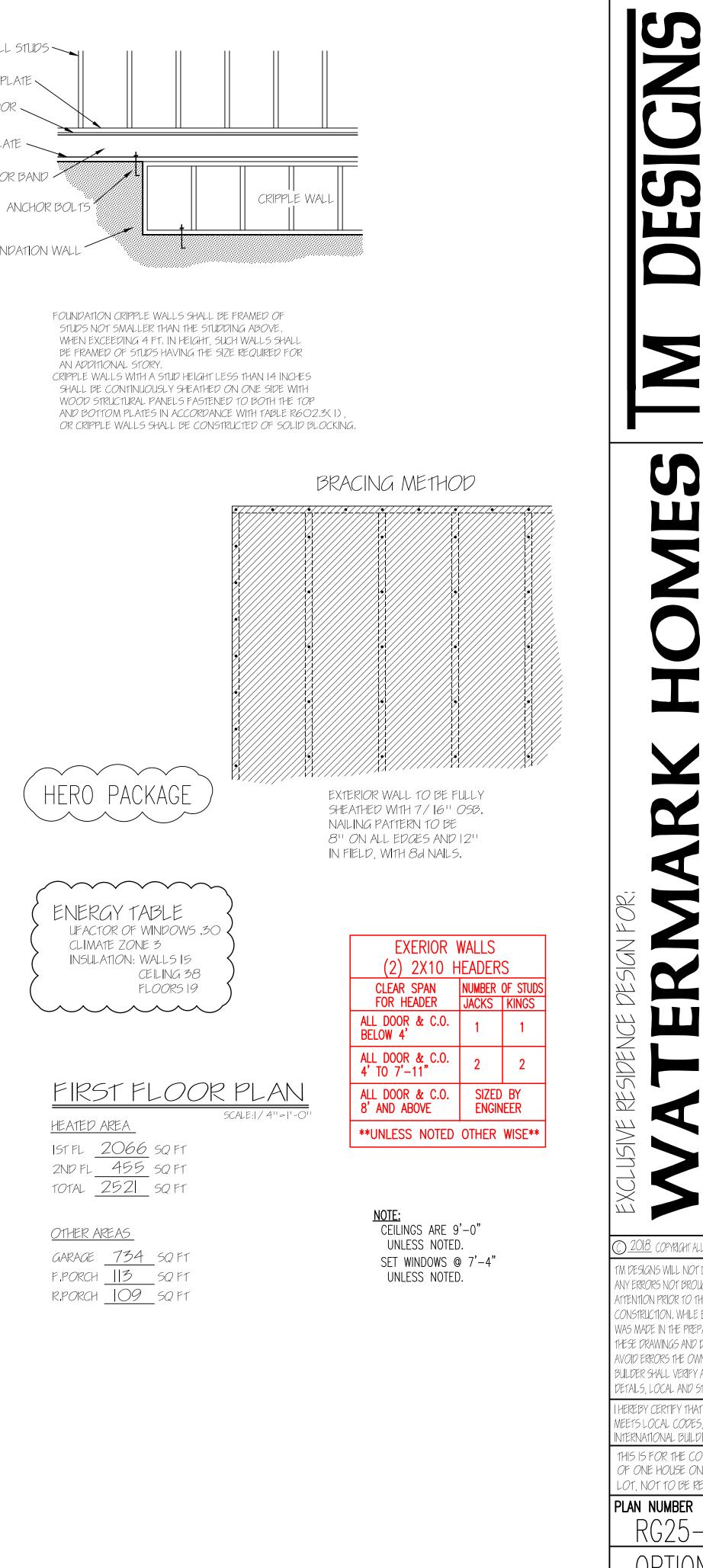
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(910)

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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

20

SIGN

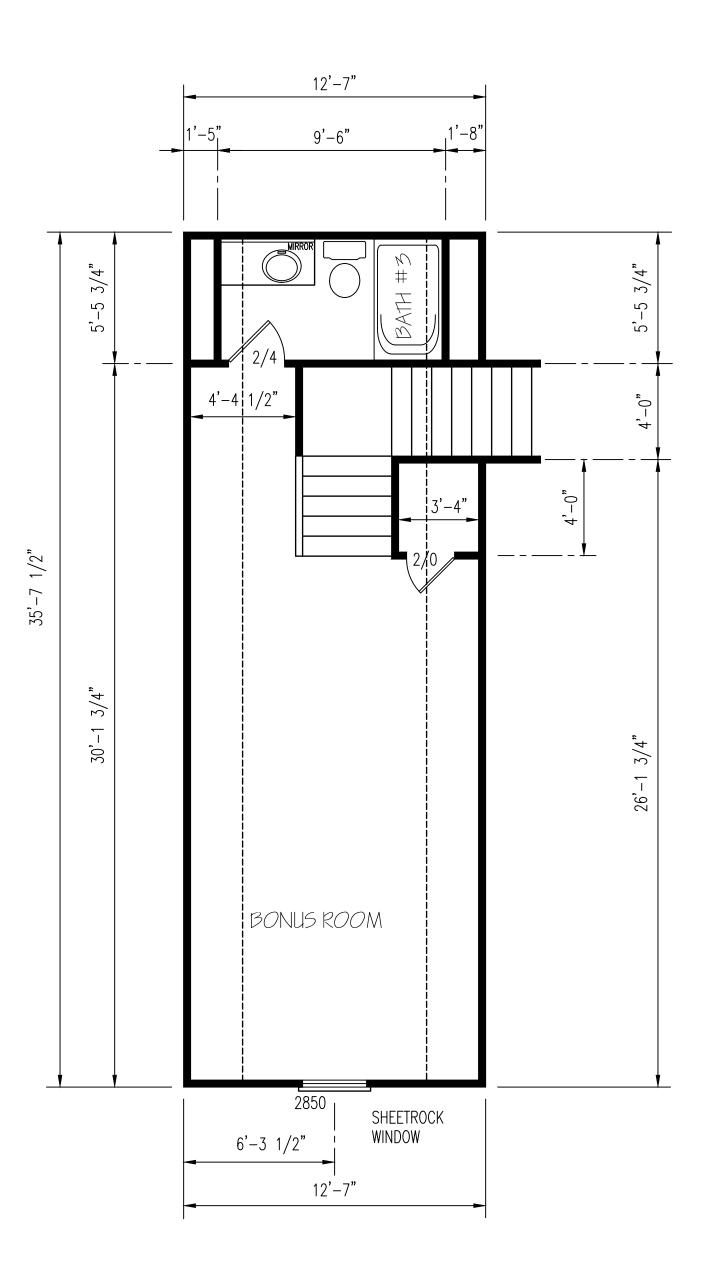
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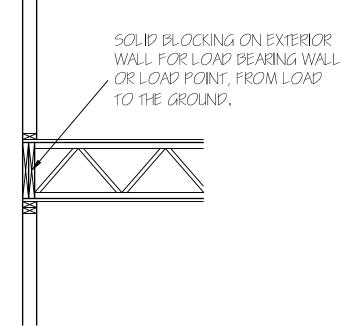
ANSI

RESIC (910)

11 1

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.<br>BELOW 4'     | 1     | 1        |  |  |  |  |  |  |
| ALL DOOR & C.O.<br>4'TO 7'-11"  | 2     | 2        |  |  |  |  |  |  |
| ALL DOOR & C.O.<br>8' AND ABOVE |       |          |  |  |  |  |  |  |
| **UNLESS NOTED                  | OTHER | WISE**   |  |  |  |  |  |  |

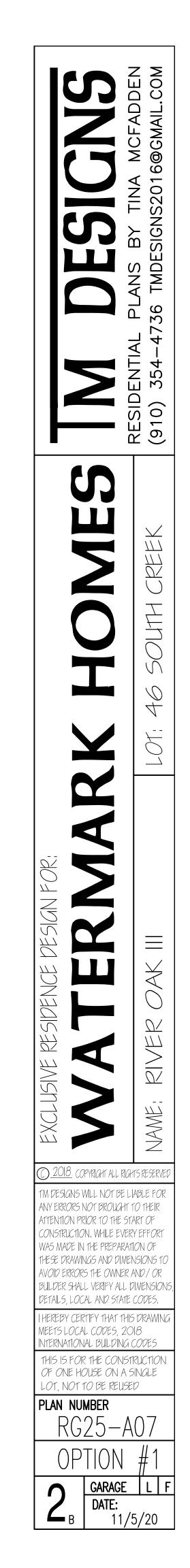








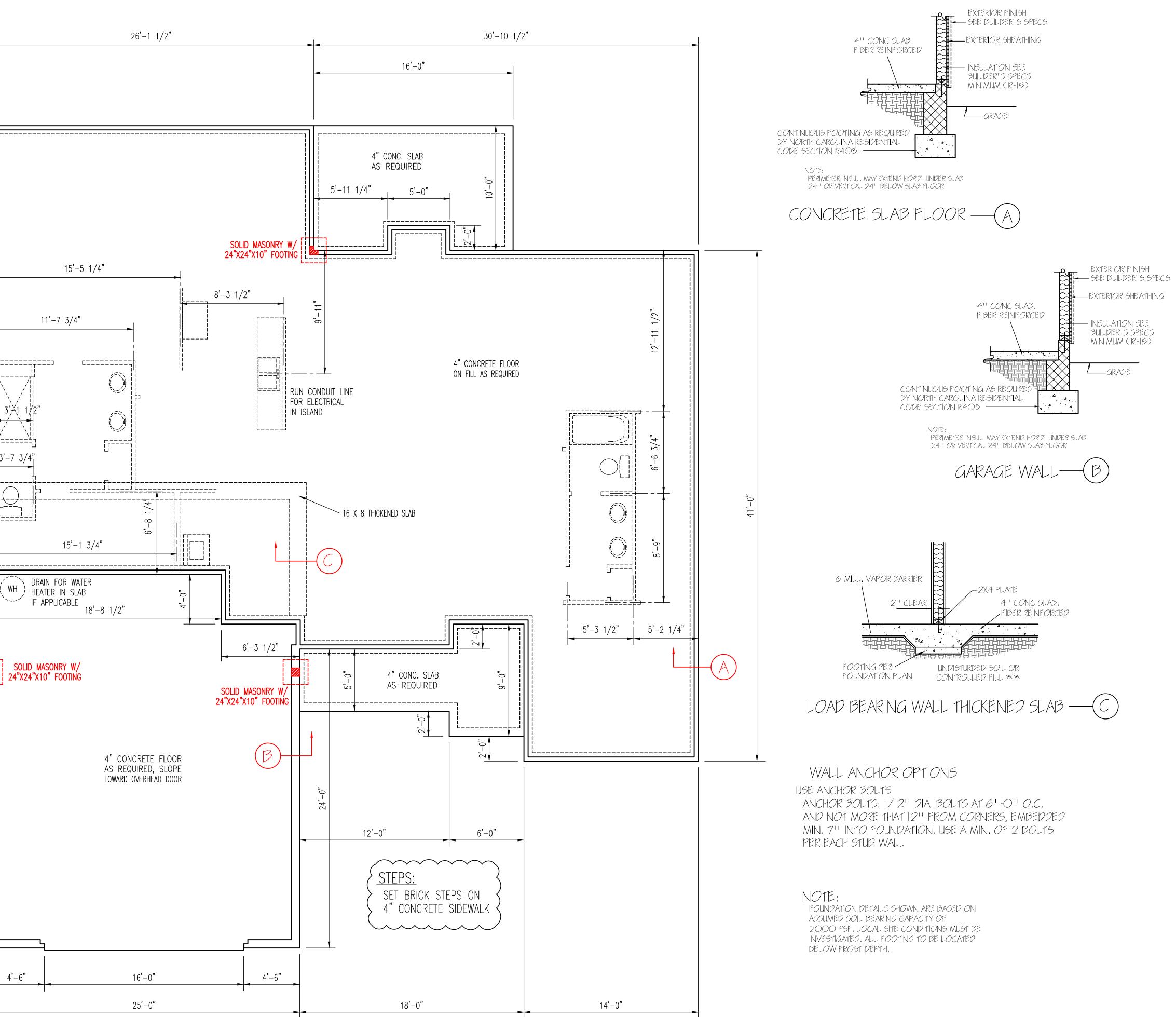
SCALE: 1/4''= 1'-0''



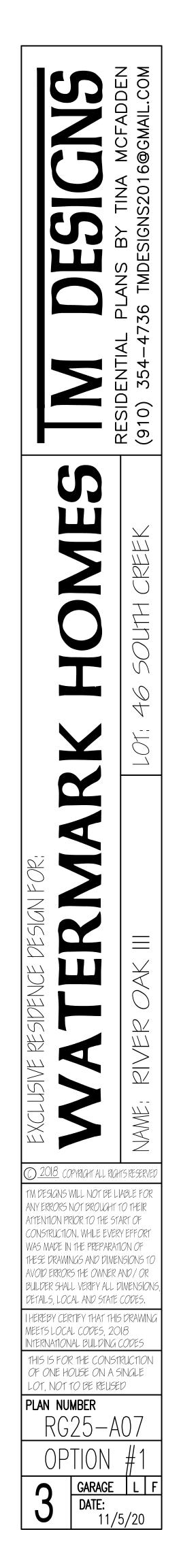
SOLID BLOCKING FOR INTERIOR WALL OR LOAD POINT FROM LOAD TO GROUND.

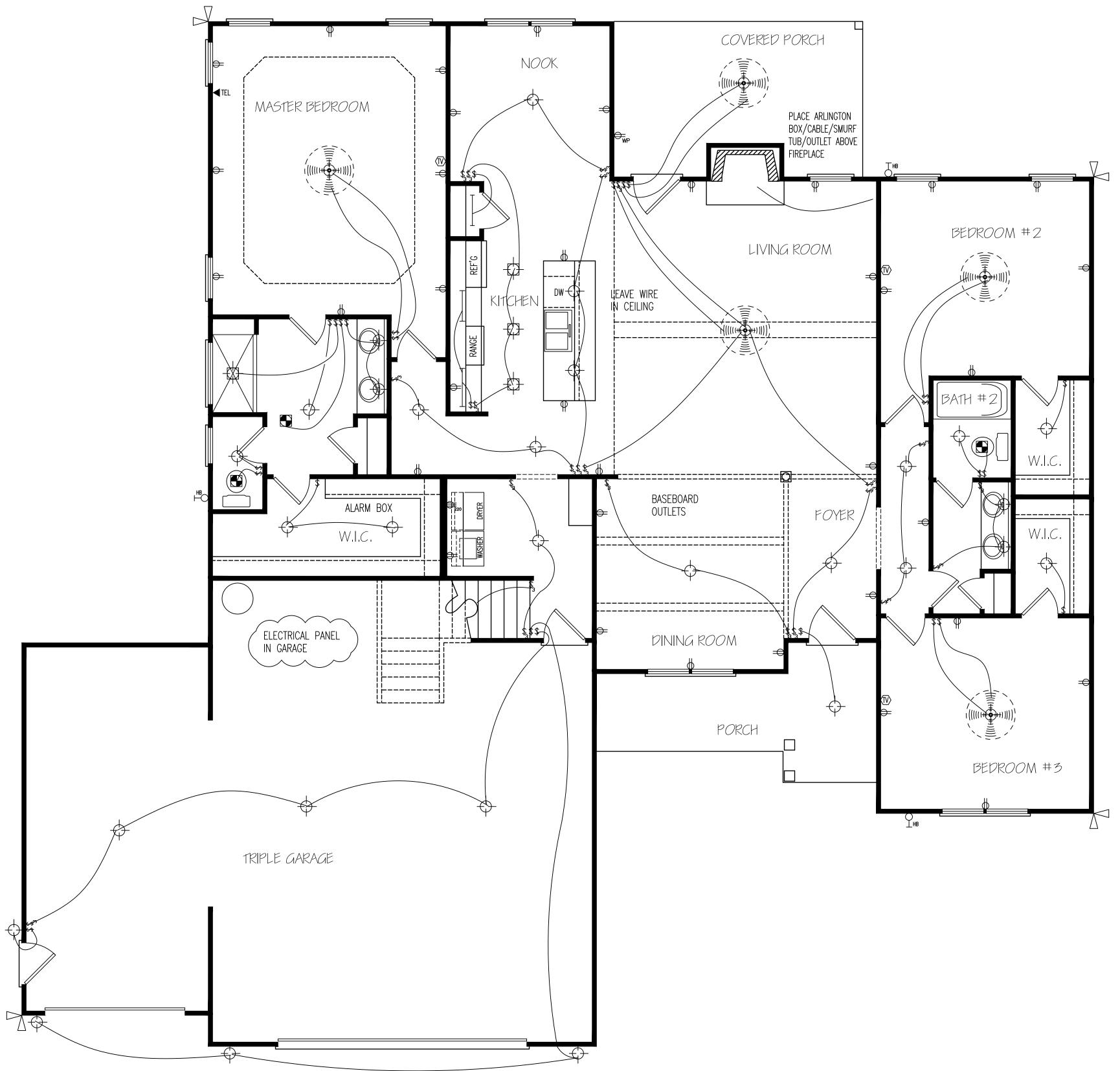
0 15'-5 1/4" 11'-7 3/4" C\_\_\_\_\_ [\_\_\_\_\_ \_\_\_\_\_ '**|3'**-7 3/4', c=====<u>i</u>i=<u>==</u>==<u>+</u>==<sub>1</sub>== 151 15'-1 3/4" (WH) DRAIN FOR WATER HEATER IN SLAB 12'-0" IF APPLICABLE 18'-8 1/2" SOLID MASONRY W/ 24"X24"X10" FOOTING 4" CONCRETE FLOOR AS REQUIRED, SLOPE TOWARD OVERHEAD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



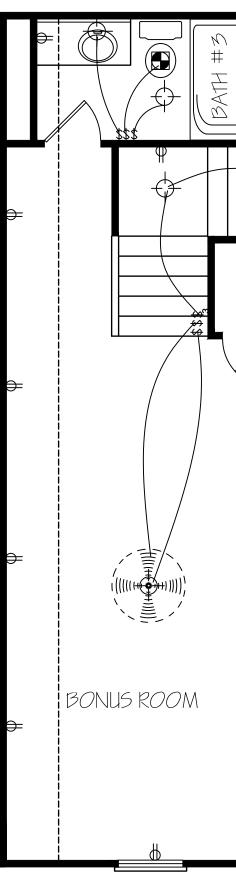


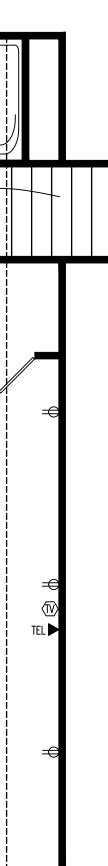
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HERO PACKAGE

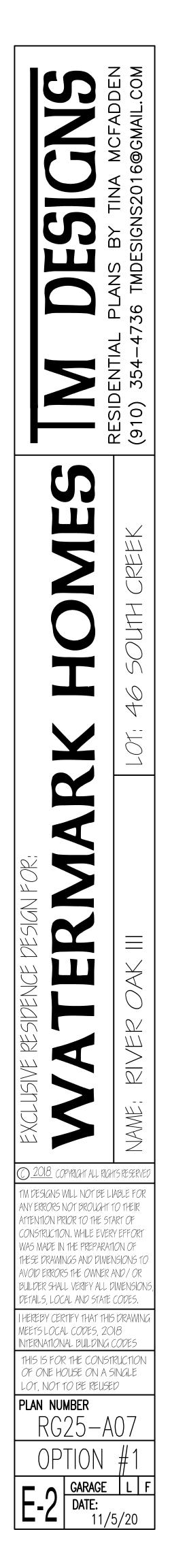
DEN COM @GN Ö ANS BY TINA TMDESIGNS2016 36 4 З С М RESIDE (910) 3 S Ш  $\bigcirc$ HTH 5 T 40 Y  $\_$ ER  $\smile$  $\overline{\mathcal{O}}$ RIVE NAME  $\bigcirc \underline{2018}$  copyriaht all rights reserved TM DESIGNS WILL NOT BE LIABLE FOR ANY ERRORS NOT BROUGHT TO THEIR ATTENTION PRIOR TO THE START 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

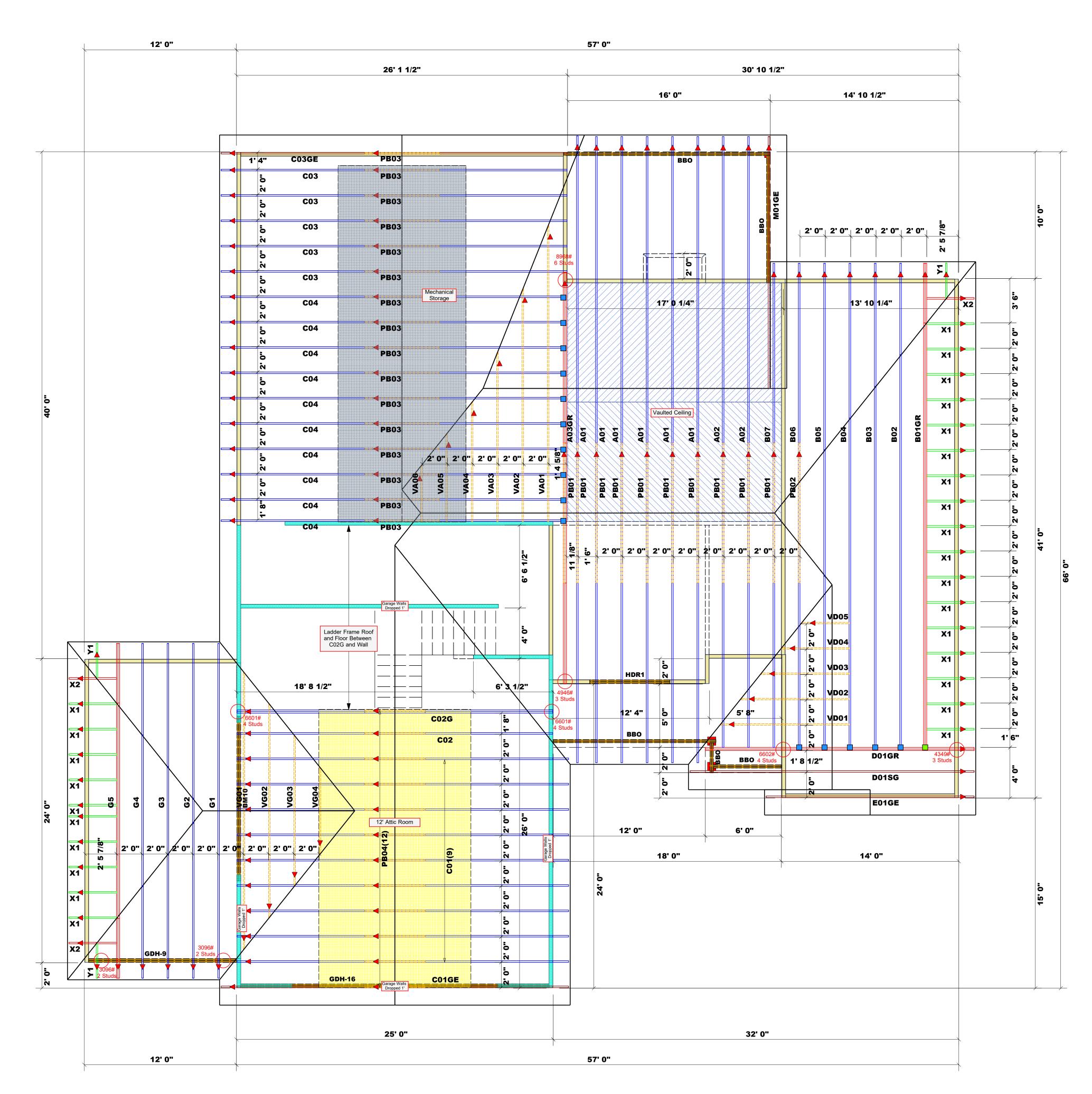




(HERO PACKAGE)

<u>SECOND FLOOR</u> ELECTRICAL LAYOUT





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

|                | THE<br>These Trees<br>The construction<br>of the but russ designer<br>the roof is designer<br>the roof is designer<br>walls, an For gene<br>BCSI-B3 sbcindus<br>Bearing<br>deemeet<br>requirer<br>size and<br>requirer<br>size and<br>requirer<br>size and<br>requirer<br>size and<br>requirer<br>size and<br>reaction<br>Tables.<br>retaineet<br>that exc<br>NUM | ROC<br>RUS<br>eilly R<br>Fayett<br>Phone<br>Fax:<br>5 ISA TRU<br>usses are coordinated<br>inding designing<br>in identific is respons<br>and floor sy<br>f the truss is<br>f the | DF 8<br>SES<br>oad In<br>teville,<br>e: (910<br>(910)<br>JSS PLACE<br>designed as<br>not the buil<br>pur. See ir<br>ded on the puil<br>puble for tem<br>system and for<br>support stru-<br>is the respon-<br>te regarding<br>with the trus<br>e contract. | A FL(<br>& B<br>adustri<br>, N.C. 2<br>)) 864-<br>864-4<br>Ment Div<br>individual<br>adigitation of the over<br>a second of the over<br>prescription<br>or the over<br>prescription<br>or shall re<br>room the pre-<br>prescription<br>or shall re<br>room the pre-<br>prescription<br>or shall re<br>room the pre-<br>prescription<br>or shall re<br>room the pre-<br>specified<br>or system<br>of the over<br>system<br>of the ov | AGRAM ON<br>building core<br>a the spe<br>sign sheets<br>rawing. The<br>permanent<br>all structure<br>ding header<br>the building<br>consult BCS<br>backage or<br>to 3000# a<br>ve Code<br>fer to the<br>rescriptive<br>rescriptive<br>mum found<br>red to sup<br>greater th<br>nonal shall<br>n for any<br>for all re | ALY.<br>mponents<br>cification<br>s for each<br>building<br>bracing of<br>. The<br>s, beams,<br>g designer.<br>I-B1 and<br>online @<br>ACCODE<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>be<br>ached<br>ached<br>be<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached<br>ached |
|----------------|---|--|---|---|--|--|
| et Qty<br>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<br>2. All interior wall dimensions are to face of<br>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

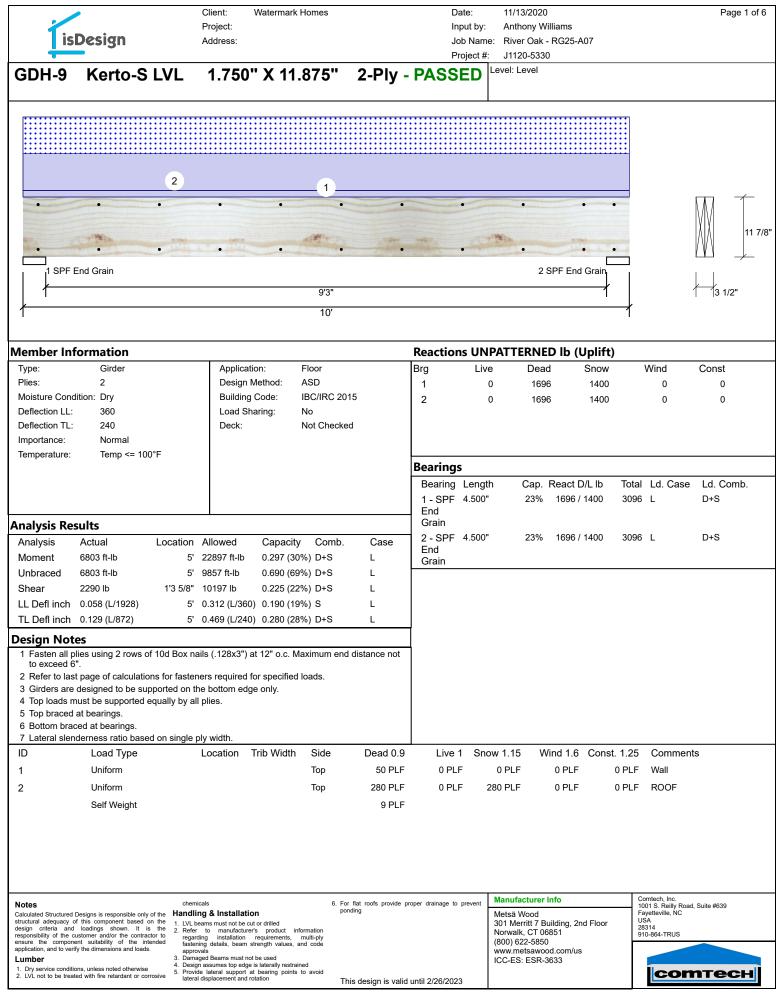
All Walls Shown Are Considered Load Bearing

WALL SCHEDULE

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

| Sym | Manuf   | Qty | Supported<br>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. |        |                             |       |         |  |  |  |



Version 20.20.044 Powered by iStruct™

|   | 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                                    |  |   |
|   |   |   |   |  |   |
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|   | _   | _   |   |  | "CT<br>T<br>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<br>9 lb.  |   |   |  |   |
| Yield Mode IV   | 0.15.   |   |   |  |   |
| Edge Distance 1 1,  | /2"   |   |   |  |   |
| Min. End Distance 3"  |   |   |   |  |   |
| Load Combination  | 0   |   |   |  |   |
| Duration Factor 1.0   | 0   |   |   |  |   |
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| Notes   | chemicals   | e<br>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<br>design criteria and loadings shown. It is the   | 1. LVL beams must not be cu<br>2. Refer to manufacture  | r's product information                           |   | 301 Merritt 7 Building, 2nd Floor<br>Norwalk, CT 06851 | USA<br>28314<br>910-864-TRUS  |
| responsibility of the customer and/or the contractor to<br>ensure the component suitability of the intended<br>application, and to verify the dimensions and loads. | regarding installation<br>fastening details, beam   | requirements, multi-ply strength values, and code |   | (800) 622-5850   | 510-004-11/03   |
| Lumber  | approvals<br>3. Damaged Beams must no   | t be used   |   | www.metsawood.com/us<br>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<br/>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<br>Project:<br>Address:  | ark Homes   |                               | ln<br>Jo                                      |                     | 11/13/2020<br>Anthony Wi<br>River Oak -<br>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:<br>Plies:<br>Moisture Com<br>Deflection LL:<br>Deflection TL:<br>mportance:  | 360<br>240<br>Normal  | Application:<br>Design Method:<br>Building Code:<br>Load Sharing:<br>Deck:   | Floor<br>ASD<br>IBC/IRC 2015<br>No<br>Not Checked           |                               | 'g<br>1<br>2                                  | Live<br>0<br>0      | Deac<br>1294<br>1294  | 1272                        | Winc<br>(   | 0 0                              |        |
| emperature:  | ·   |  |   |                               | earings<br>Bearing<br>1 - SPF<br>End<br>Grain | Length              | Cap.<br>28%   | React D/L lb<br>1294 / 1272 | Total Ld.<br>2566 L   | Case Ld. Comb<br>D+S             | b.     |
| TL Defl inch<br>esign Not<br>1 Fasten all p<br>to exceed 6<br>2 Refer to las<br>3 Girders are<br>4 Top loads r<br>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<br>(31%) D+S<br>(22%) D+S<br>(14%) S<br>(19%) D+S | Case<br>L<br>L<br>L<br>L<br>L | 2 - SPF<br>End<br>Grain                       | 3.000"              | 28%   | 1294 / 1272                 | 2566 L  | D+S                              |        |
| 7 Lateral sler<br>D  | nderness ratio based on s<br>Load Type<br>Uniform   | ingle ply width.<br>Location Trib Wic  | th Side I<br>Top  | Dead 0.9<br>424 PLF           | Live 2  |                     | 1.15 W  | ind 1.6 Const<br>0 PLF      | . 1.25 Co<br>0 PLF A01  | mments                           |        |
| tructural adequacy<br>esign criteria and<br>esponsibility of the<br>nsure the compor   | Self Weight   | chemicals<br>Handling & Installation<br>1. LVL beams must not be cut or drilled<br>2. Refer to manufacturer's product<br>regarding installation requiremen<br>fastening details, beam strength valu<br>approvals   | ponding<br>information<br>s. multi-ply                      | 7 PLF                         | drainage to                                   | M<br>30<br>No<br>(8 | anufacturer I<br>etsä Wood<br>11 Merritt 7 BL<br>orwalk, CT 06<br>00) 622-5850<br>ww.metsawoo | uilding, 2nd Floor<br>851   | Comtech,<br>1001 S. F<br>Fayettevil<br>USA<br>28314<br>910-864- | eilly Road, Suite #639<br>le, NC |        |

| Address:<br>Job Name: River Oak - RG25-A07<br>Project #: J1120-5330<br>Level: Level<br>Level: Level   | 9 1/- |
|---|-------|
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|   | 9 1,  |
|   | 9 1/  |
|   |       |
| •         • |       |
| $\begin{bmatrix} 1 & & 56 & & 1 \\ \hline & & 6' & & 1 \end{bmatrix}$   | 3 1/2 |
| Multi-Ply Analysis<br>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 %<br>Load 0.0 PLF<br>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   |       |
|   |       |
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|   |       |
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|   |       |
| Notes         chemicals         6. For flat roofs provide proper drainage to prevent<br>ponding         Manufacturer Info         Contech, Inc.           Calculated Structured Designs is responsible only of the<br>design criteria and loadings shown. It is the<br>responsibility of the customer and/or the contractor.         Handling & Installation         6. For flat roofs provide proper drainage to prevent<br>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<br>manufacturer's product information<br>regarding installation requirements, multi-ply         Norwalk, CT 06851         910-864-TRUS   | ÷#639 |
| ensure the component suitability of the intended<br>application, and to verify the dimensions and loads.<br>Lumber<br>1. Dry service conditions, unless noted otherwise<br>2. LVL not to be treated with fire retardant or corrosive  | есн   |

|  | •  | Client: Watermark Homes<br>Project:   |                                    | Date:<br>Input                   |             | /13/2020<br>hthony Williams                     |               |  | Page 5 c                 |
|--|--|---|------------------------------------|----------------------------------|-------------|---|---------------|--|--------------------------|
| isl  | Design   | Address:  |                                    |                                  |             | ver Oak - RG25-A07                              |               |  |                          |
|  |  |   |                                    | Proje                            |             | 120-5330<br>: Level                             |               |  |                          |
| GDH-16   | Kerto-S LVL  | 1.750" X 11.875"  | 2-PIy - P                          | ASSED                            |             |   |               |  |                          |
| • •  | 2<br>· · · ·   | 1   |                                    |                                  |             | 2 SPF En  | d Grain       |  | 11 7/8<br>11 7/8         |
| ∤  |  | 17'5  | 3"                                 |                                  |             |   |               | $\rightarrow$                          |                          |
|  |  |   |                                    |                                  |             |   |               |  |                          |
| lember Inf                                       |  |   |                                    |                                  |             | TERNED Ib (Uplift)                              |               |  |                          |
| Type:<br>Plies:                                  | Girder<br>2  | Application: Floor<br>Design Method: ASD  |                                    | Brg<br>1                         | Live<br>345 | Dead Snow<br>1675 173                           |               | Wind<br>0                              | Const<br>0               |
| Moisture Condi                                   |  | Building Code: IBC/IRC 20   | )15                                | 2                                | 345<br>345  | 1675 173<br>1675 173                            |               | 0                                      | 0                        |
| Deflection LL:                                   | 480  | Load Sharing: No  |                                    | _                                |             |   |               |  |                          |
| Deflection TL:                                   | 360<br>Normal  | Deck: Not Checke  | ed                                 |                                  |             |   |               |  |                          |
| mportance:<br>Temperature:                       | Temp <= 100°F  |   |                                    |                                  |             |   |               |  |                          |
|  | ·····  |   |                                    | Bearings                         |             |   |               |  |                          |
|  |  |   |                                    | Bearing Le<br>1 - SPF 6.0<br>End | -           | Cap. React D/L lb<br>11% 1675 / 388             | Total<br>2063 | Ld. Case<br>L                          | Ld. Comb.<br>D+0.75(L+S) |
| nalysis Res                                      |  |   |                                    | Grain                            |             | 444 4075 4000                                   |               |  |                          |
| Analysis   |  | n Allowed Capacity Comb.  | Case                               | 2 - SPF 6.0<br>End               | 000"        | 11% 1675 / 388                                  | 2063          | L                                      | D+0.75(L+S)              |
| Moment<br>Unbraced                               | 7851 ft-lb 8'7 1/2<br>8019 ft-lb 8'7 1/2                             | ( )   | L<br>(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<br>designed to be supported or         | teners required for specified loads.<br>n the bottom edge only.   |                                    |                                  |             |   |               |  |                          |
| •  | ust be supported equally by  | •   |                                    |                                  |             |   |               |  |                          |
|  | e laterally braced at a maxim<br>ed at bearings.                     | um of 12' 3/4" o.c.   |                                    |                                  |             |   |               |  |                          |
|  | derness ratio based on singl   |   |                                    |                                  |             |   |               |  |                          |
| ID<br>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<br>Calculated Structured E                 | Designs is responsible only of the Han                               | dling & Installation  | or flat roofs provide pr<br>onding | uper unainage to prev            | Mets        | ä Wood  | 10            | 01 S. Reilly Road, S<br>yetteville, NC | Suite #639               |
| lesign criteria and<br>esponsibility of the cu   | Istomer and/or the contractor to rei                                 | /L beams must not be cut or drilled<br>efer to manufacturer's product information<br>garding installation requirements, multi-ply |                                    |                                  | Norw        | Merritt 7 Building, 2nd Floor<br>ralk, CT 06851 | 28            | 314<br>0-864-TRUS                      |                          |
| ensure the compone<br>application, and to verify | nt suitability of the intended fat<br>y the dimensions and loads. ap | stening details, beam strength values, and code<br>oprovals   |                                    |                                  | www         | ) 622-5850<br>.metsawood.com/us                 |               |  |                          |
|  | 3. Da  | amaged Beams must not be used   |                                    |                                  |             | ES: ESR-3633                                    |               |  |                          |
| . Dry service conditio                           | ns, unless noted otherwise<br>ed with fire retardant or corrosive    | esign assumes top edge is laterally restrained<br>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<br>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 %<br>Load 0.0 PLF   |  |  |            |   |  |
| Yield Limit per Foot 163.7 P   |  |  |            |   |  |
| Yield Limit per Fastener 81.9 lb.  |  |  |            |   |  |
| Yield ModeIVEdge Distance1 1/2"  |  |  |            |   |  |
| Min. End Distance 3"   |  |  |            |   |  |
| Load Combination   |  |  |            |   |  |
| Duration Factor 1.00   |  |  |            |   |  |
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|  |  |  |            |   |  |
|  | emicals  | <ol> <li>For flat roofs provide proper drainage<br/>ponding</li> </ol> | to prevent | Manufacturer Info                               | Comtech, Inc.<br>1001 S. Reilly Road, Suite #639 |
| Calculated Structured Designs is responsible only of the<br>structural adequacy of this component based on the<br>1. LVI | L beams must not be cut or drilled   | ponung   |            | Metsä Wood<br>301 Merritt 7 Building, 2nd Floor | Fayetteville, NC<br>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<br>910-864-TRUS                            |
| application, and to verify the dimensions and loads. ap  | tening details, beam strength values, and code provals                                 |  |            | (800) 622-5850<br>www.metsawood.com/us          |  |
| Lumber 3. Da<br>4. De  | maged Beams must not be used<br>sign assumes top edge is laterally restrained          |  |            | ICC-ES: ESR-3633                                |  |
| 5. PIC   | ovide lateral support at bearing points to avoid<br>eral displacement and rotation     | This design is valid until 2/26/2                                      | 023        |   | соттесн  |

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