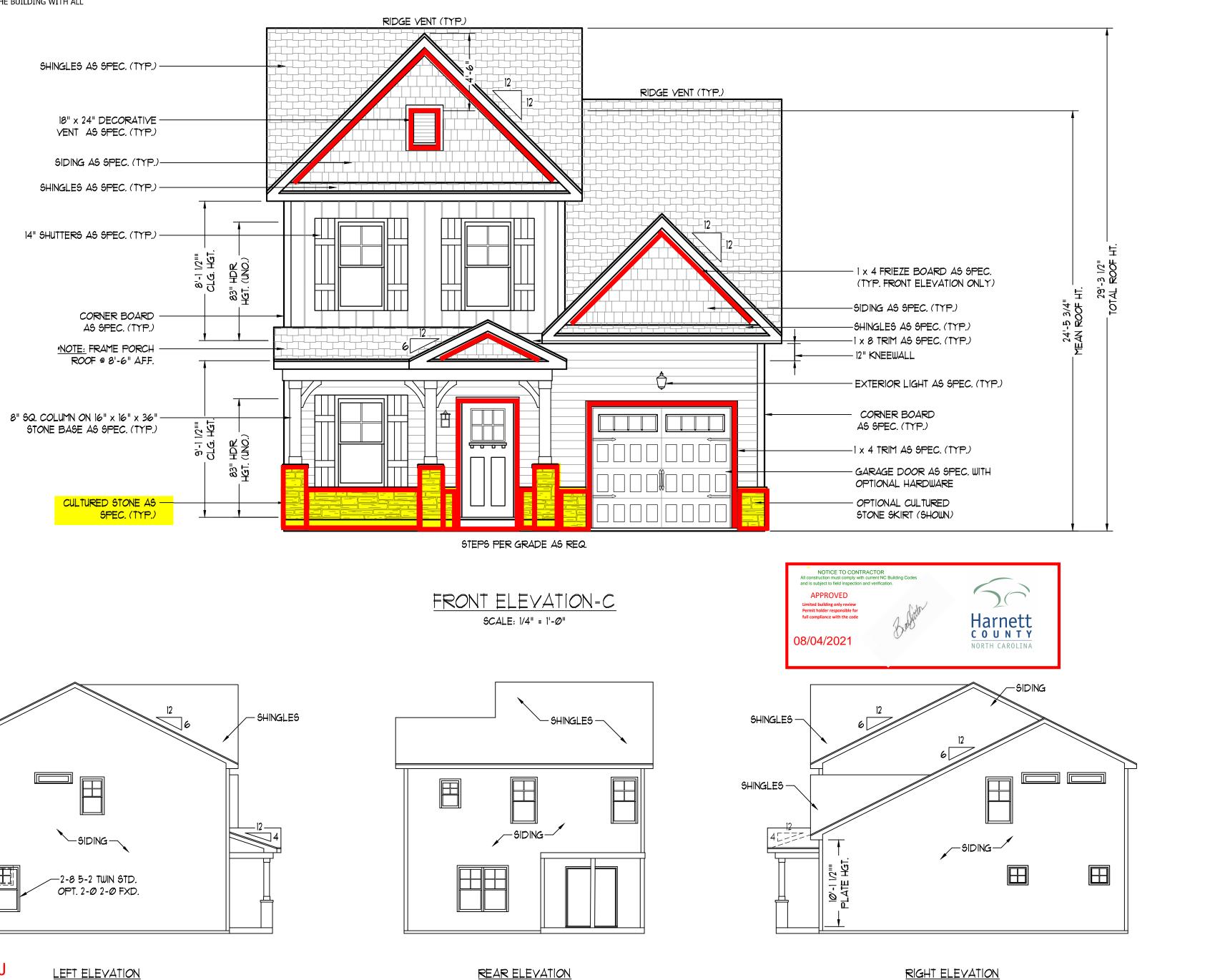
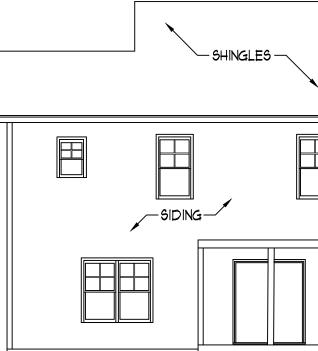
GENERAL NOTES

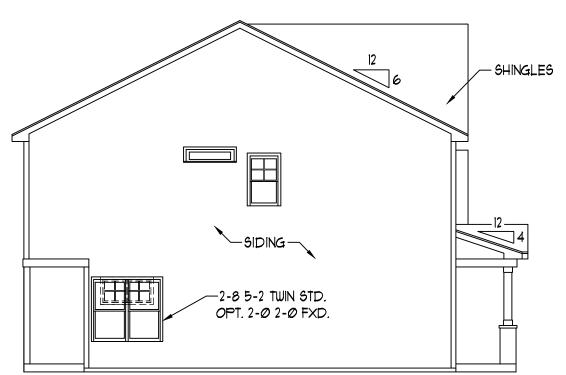
- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS.
- CONTRACTOR SHALL THOROUGHLY REVIEW ALL SHEETS IN PLAN SET AND VERIFY ALL DETAILS AND DIMENSIONS BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO RENAISSANCE RESIDENTIAL DESIGN, INC. FOR JUSTIFICATION AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTORS SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NEVER SCALED. CONTRACTOR SHALL ENSURE COMPATIBILITY OF THE BUILDING WITH ALL SITE REQUIREMENTS.







REAR ELEVATION SCALE: 1/8" = 1'-Ø"



PLUMBING: DOUBLE J **HVAC: MAINSTREAM ELECTRICAL: PIONEER**

SCALE: 1/8" = 1'-0"

LOT 14 WEST PARK 78 WEST PARK LANE SANFORD, NC

PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE **RESIDENTIAL BUILDING CODE.**

RENAISSANCE

RESIDENTIAL DESIGN, INC. RALEIGH, NC 27612 (919) 649-4128 WWW.RRDCAROLINA.COM

e art of transforming your vision into r

RENAISSANCE RESIDENTIAL DESIGN, INC., RESERVES THE RIGHT TO MAKE MODIFICATIONS TO FLOOR PLANS, DIMENSIONS, MATERIALS, AND SPECIFICATIONS WITHOUT NOTICE.

THESE DRAWINGS ARE FOR THE PURPOSE OF CONVEYING AN ARCHITECTURAL CONCEPT ONLY

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WITHOUT FIRST OBTAINING THE EXPRES WRITTEN CONSENT OF RENAISSANCE RESIDENTIAL DESIGNS, INC... NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSEN

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AROLIN

DATE: JULY 22, 2020

SCALE: 1/4" = 1'-0" DRAWN BY: WG ENGINEERED BY: **REVIEWED BY:**

C - ELEVATIONS

A-3

REV.:

S

WEAVER HOME

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AR

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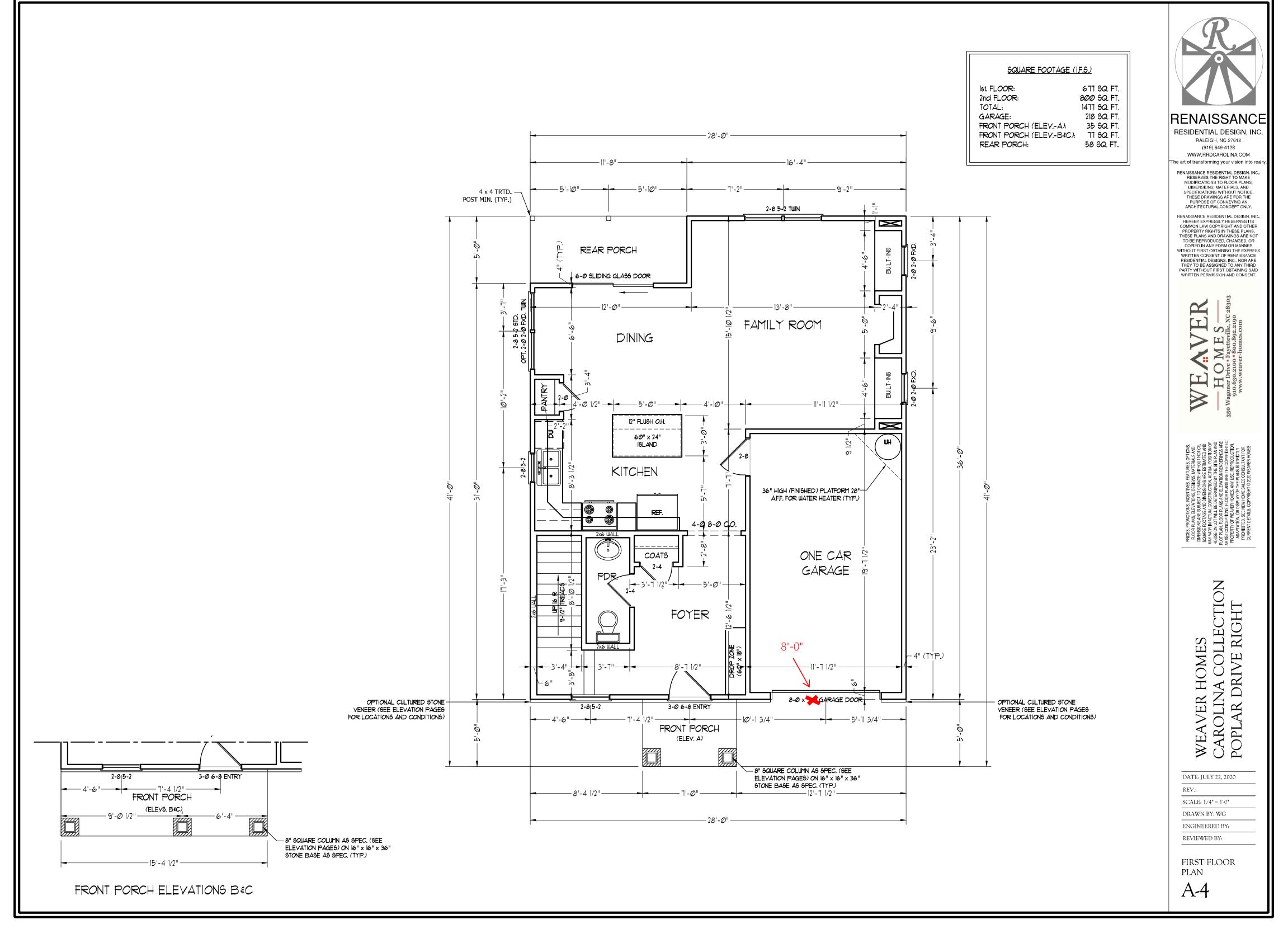
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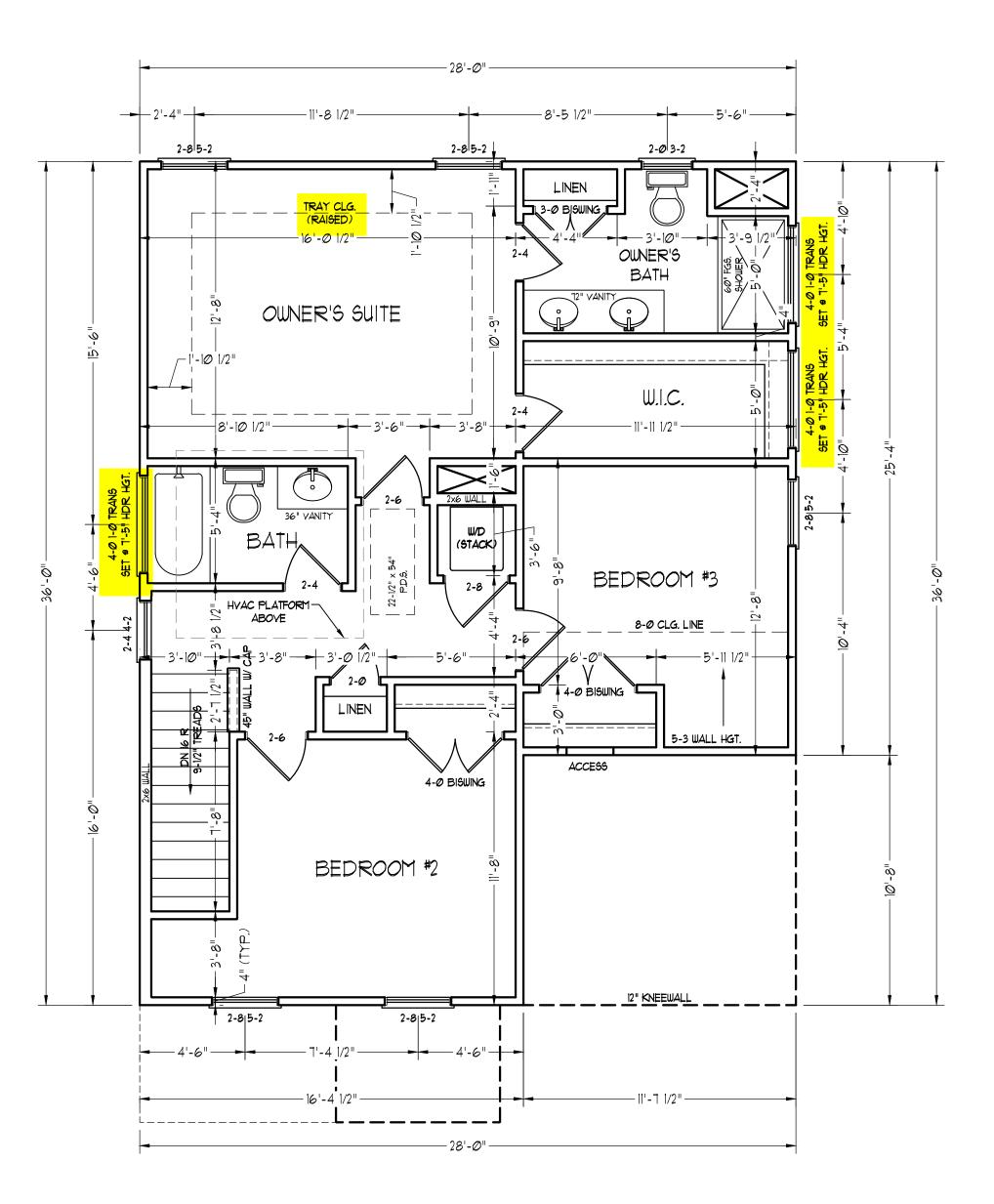
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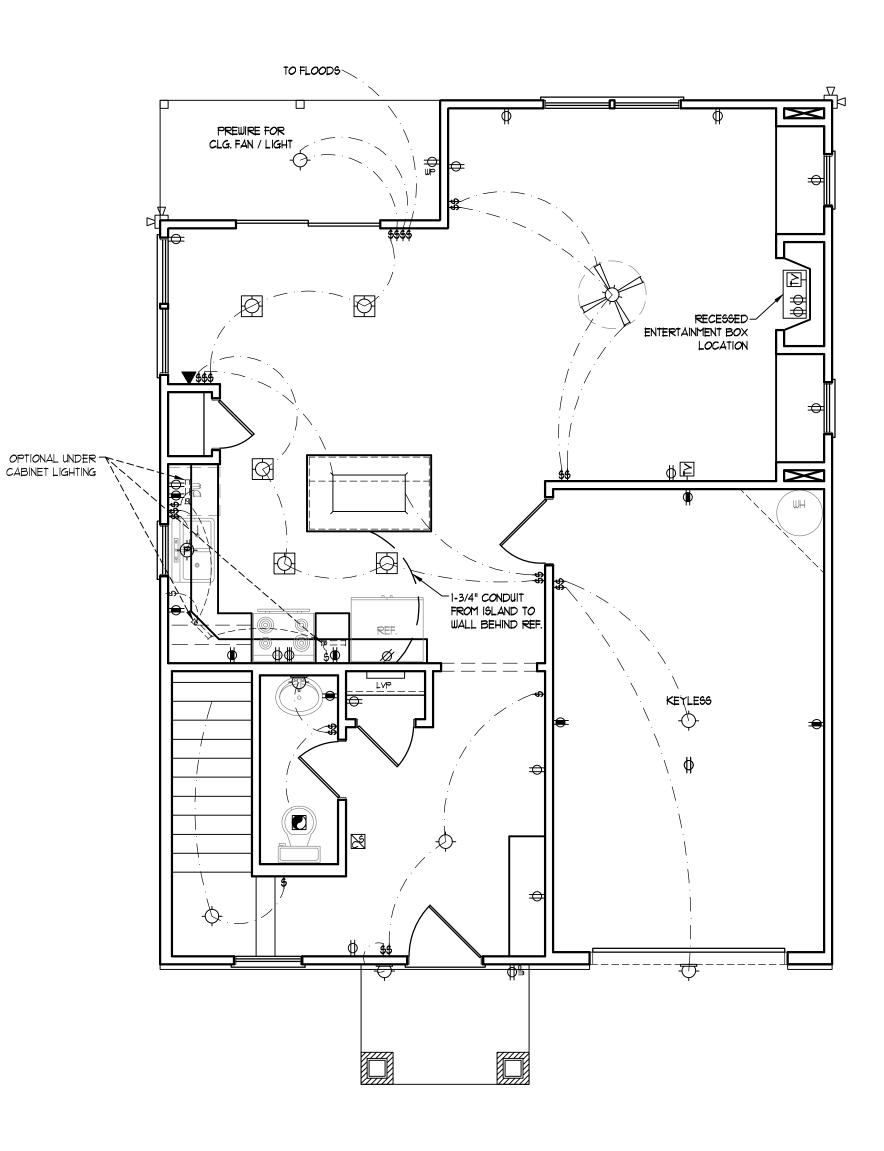
SCALE: 1/8" = 1'-Ø"

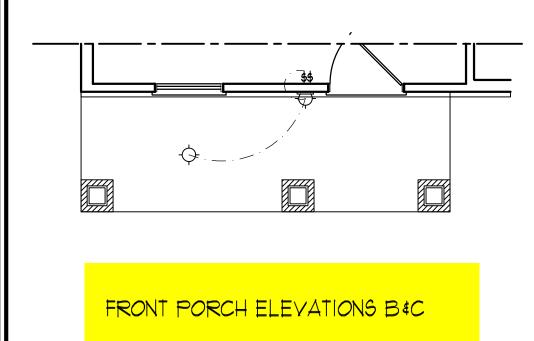
SCALE NOTE: 18x24 PRINTS ARE TO SCALE AS NOTED. **11x17 PRINTS ARE NOT TO SCALE**







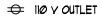






- 1.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.
- 2.) VANITY LIGHTS TO BE SET @ 90" A.F.F. (TYP.)
- 3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.
- 4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND

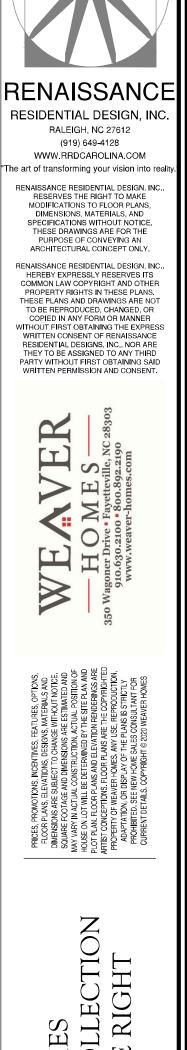


- 👄 110 Y GFI OUTLET
- IV Y SWITCHED OUTLET
- BB 🕂 110 Y BASEBOARD OUTLET
- 🚓 4-PLEX
- COUNTER OR FLOOR MOUNTED
- COUNTER OR FLOOR MOUNTED 110V GFI

- Ø 110 V DEDICATED CIRCUIT
- 120 V DEDICATED CIRCUIT
- ●H SPECIAL PURPOSE (240 Y, ETC.)
- 🔶 WALL MOUNT LIGHT
- PENDANT LIGHT
- MINI CAN LIGHT
-) FLUORESCENT LIGHT
- \$ SWITCH
- \$_D DIMMER SWITCH

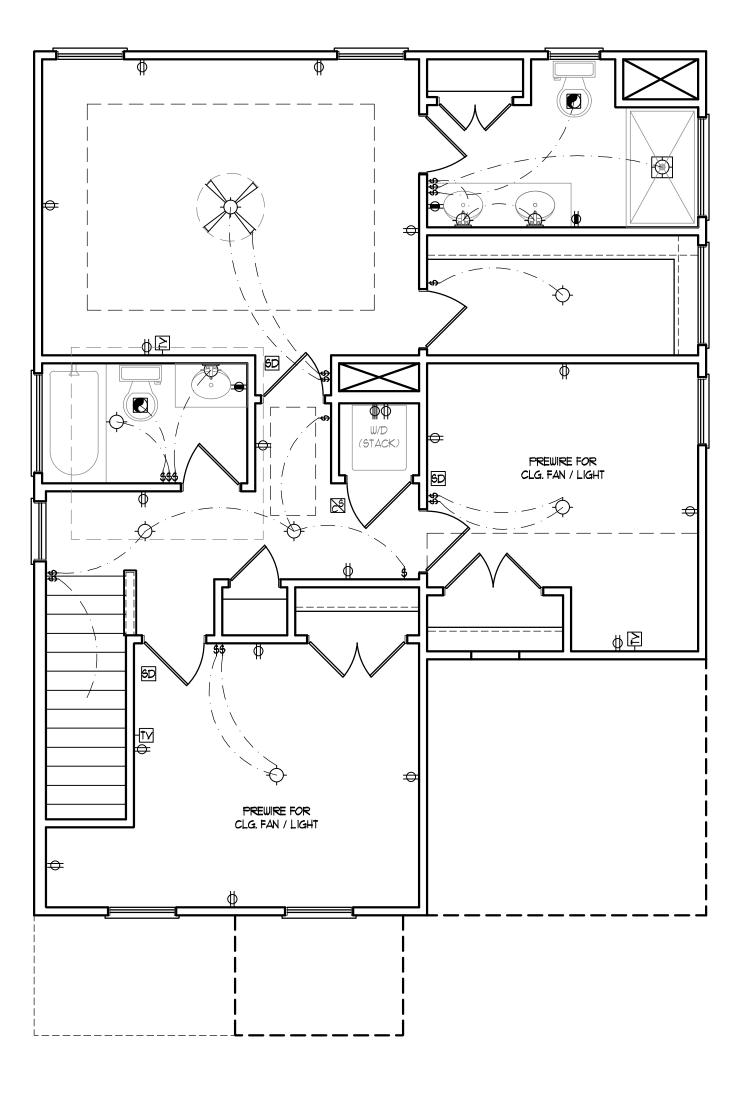
- TELEPHONE AND DATA
- TV- TV CONNECTION
- CD- CONDUIT FOR COMPONENT WIRING
- SP SPEAKER
- 110 V SMOKE/ CM DETECTOR
- 5D 110 V SMOKE DETECTOR
- EXHAUST FAN
- LOW VOLTAGE PANEL

- CEILING FAN W/ LIGHT





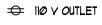
| DATE: JOET 22, 2020 |
|--|
| REV.: |
| SCALE: 1/4" = 1'-0" |
| DRAWN BY: WG |
| ENGINEERED BY: |
| REVIEWED BY: |
| FIRST FLOOR ELECTRICAL PLAN E-1 |





- 1.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.
- 2.) VANITY LIGHTS TO BE SET @ 90" A.F.F. (TYP.)
- 3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.
- 4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND

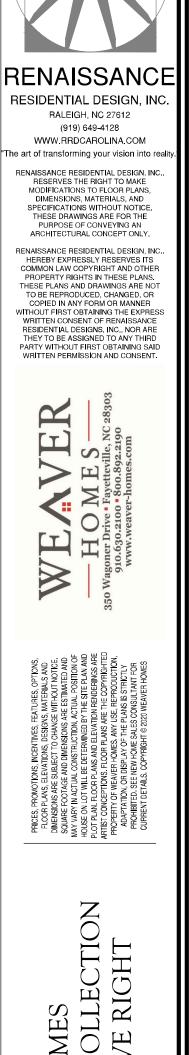


- 😑 110 y GFI OUTLET
- IV Y SWITCHED OUTLET
- BB 🗢 110 Y BASEBOARD OUTLET
- + 4-PLEX
- COUNTER OR FLOOR MOUNTED
- COUNTER OR FLOOR MOUNTED 110V GFI

- Ø 110 Y DEDICATED CIRCUIT
- 120 V DEDICATED CIRCUIT
- ●H SPECIAL PURPOSE (240 V, ETC.)
- - WALL MOUNT LIGHT
- (P- PENDANT LIGHT
- MINI CAN LIGHT
- FLUORESCENT LIGHT
- FLOOD LIGHT
- \$ SWITCH
- \$_D DIMMER SWITCH

- TELEPHONE AND DATA
- TV- TV CONNECTION
- CD- CONDUIT FOR COMPONENT WIRING
- SP SPEAKER
- 110 Y SMOKE/ CO DETECTOR
- 5D 110 V SMOKE DETECTOR
- EXHAUST FAN
- LOW VOLTAGE PANEL

- CEILING FAN W/ LIGHT

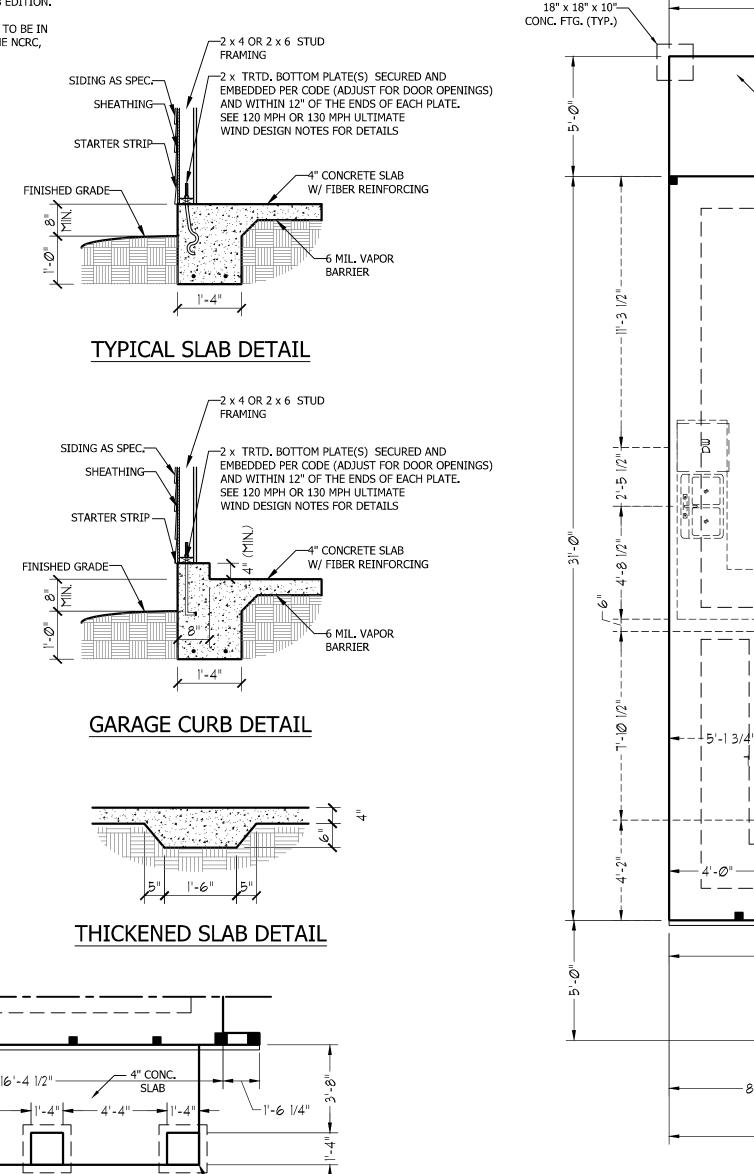




| DATE: JULY 22, 2020 |
|---|
| REV.: |
| SCALE: 1/4" = 1'-0" |
| DRAWN BY: WG |
| ENGINEERED BY: |
| REVIEWED BY: |
| second floor elctrical plan E-2 |

ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- 1. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 2. FOR 120 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
- 3. FOR 130 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 4'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
- 4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET. 5. EXTERIOR WALLS DESIGNED FOR 120 OR 130 MPH
- WINDS. 6. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH
- SECTION R602.10.3 OF THE NCRC, 2018 EDITION. 7. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.



11'-8

4" CONC. -

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-8'-4 1/2"-

– 16" x 16" x 36" CONC. PIER (W/ VENEER) ON 24" x 24" x 12" CONC. FTG.

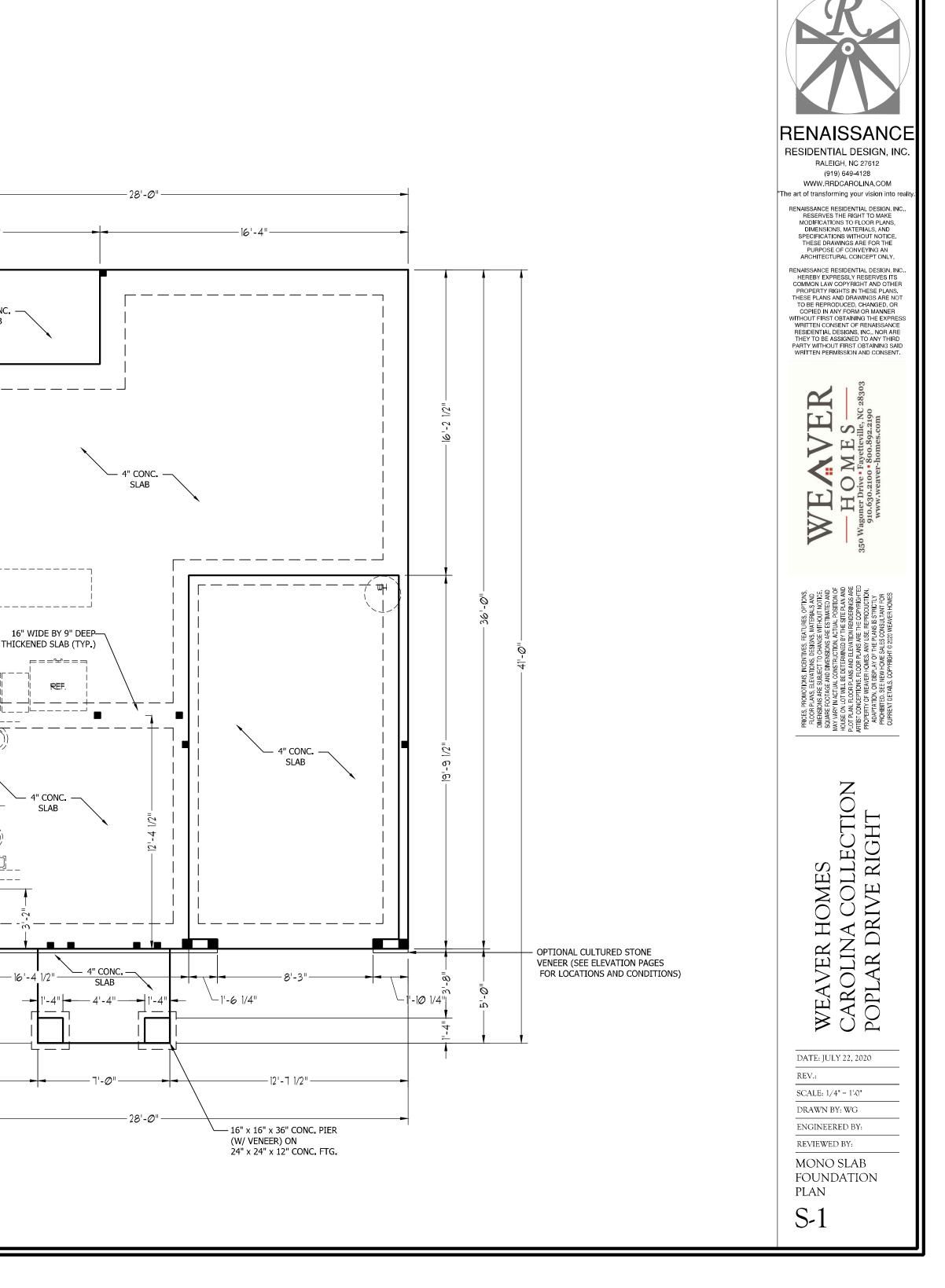
'-Ø 1/2

-15'-4 1/2"

FRONT PORCH ELEVATIONS B&C

4" CONC. -

SLAB

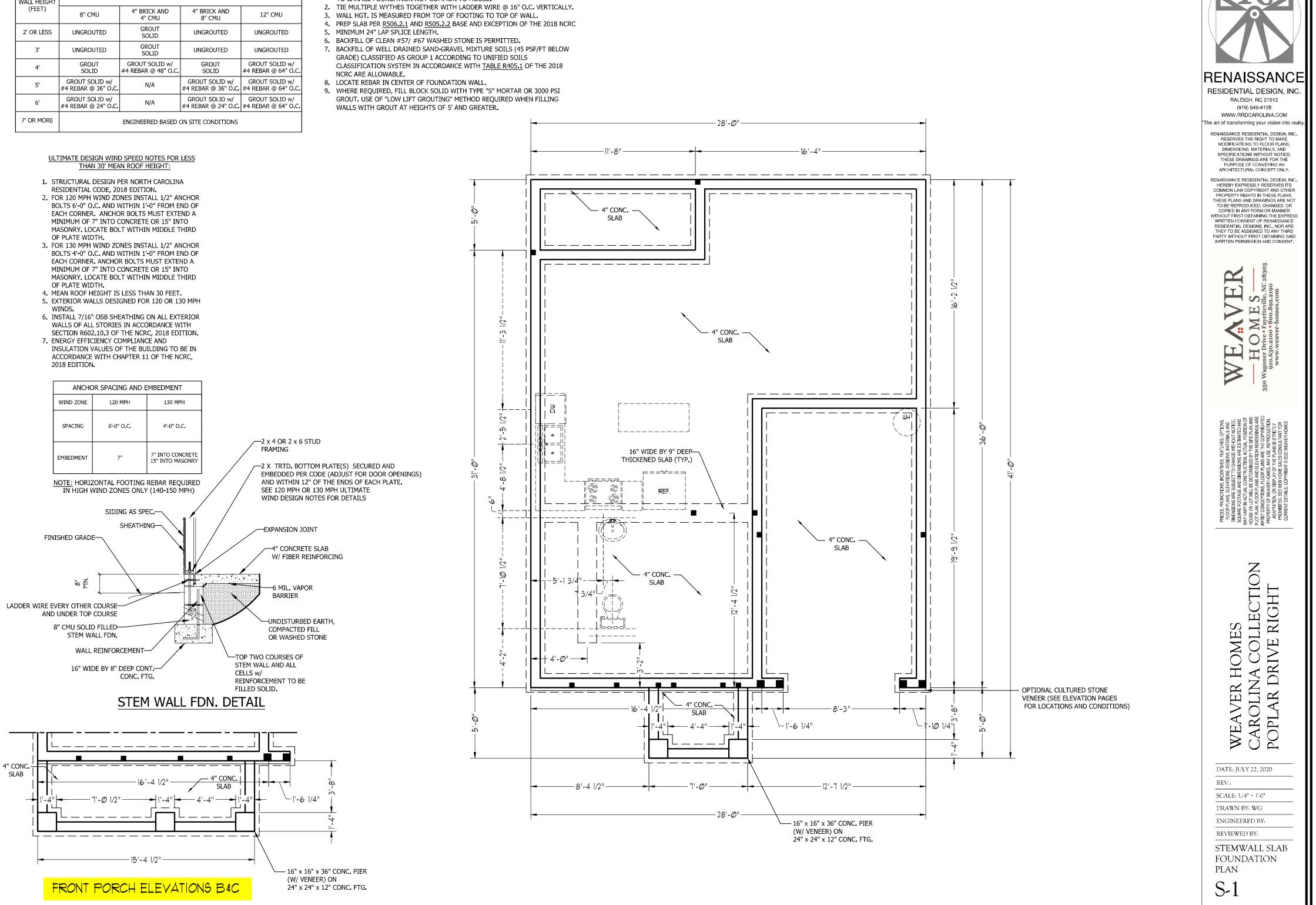


| MASONRY STEM WALL SPECIFICATIONS | | | | | | | | | |
|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--|--|--|--|--|
| WALL HEIGHT | | MASONRY | WALL TYPE | | | | | | |
| (FEET) | 8" CMU | 4" BRICK AND 4" CMU | | | | | | | |
| 2' OR LESS | UNGROUTED | GROUT SOLID | UNGROUTED | UNGROUTED | | | | | |
| 3' | UNGROUTED | GROUT SOLID | UNGROUTED | UNGROUTED | | | | | |
| 4' | GROUT SOLID | GROUT SOLID w/ #4 REBAR @ 48" O.C. | GROUT SOLID | GROUT SOLID w/ #4 REBAR @ 64" O.C | | | | | |
| 5' | GROUT SOLID w/ #4 REBAR @ 36" O.C. | N/A | GROUT SOLID w/ #4 REBAR @ 36" O.C. | GROUT SOLID w/ #4 REBAR @ 64" O.C | | | | | |
| 6' | GROUT SOLID w/ #4 REBAR @ 24" O.C. | N/A | GROUT SOLID w/ #4 REBAR @ 24" O.C. | GROUT SOLID w/ #4 REBAR @ 64" O.C | | | | | |
| 7' or more | ENGINEERED BASED ON SITE CONDITIONS | | | | | | | | |



- 1. TABLE ABOVE APPLIES TO HOUSE FOUNDATION ONLY. TABLE DOES NOT APPLY TO GARAGE FOUNDATION NOT COMMON TO HOUSE.

- GRADE) CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NCRC ARE ALLOWABLE.
- GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.



STRUCTURAL NOTES:

- 1. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2
- (UNO.) 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- 3. INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS
- 4. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- 6. ALL 4 X 4 POSTS SHALL BE ANCHORED TO SLABS W/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 X 6 POSTS W/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 X 4 AND 6 X 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
- 7. FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.

BRACE WALL PANEL NOTES:

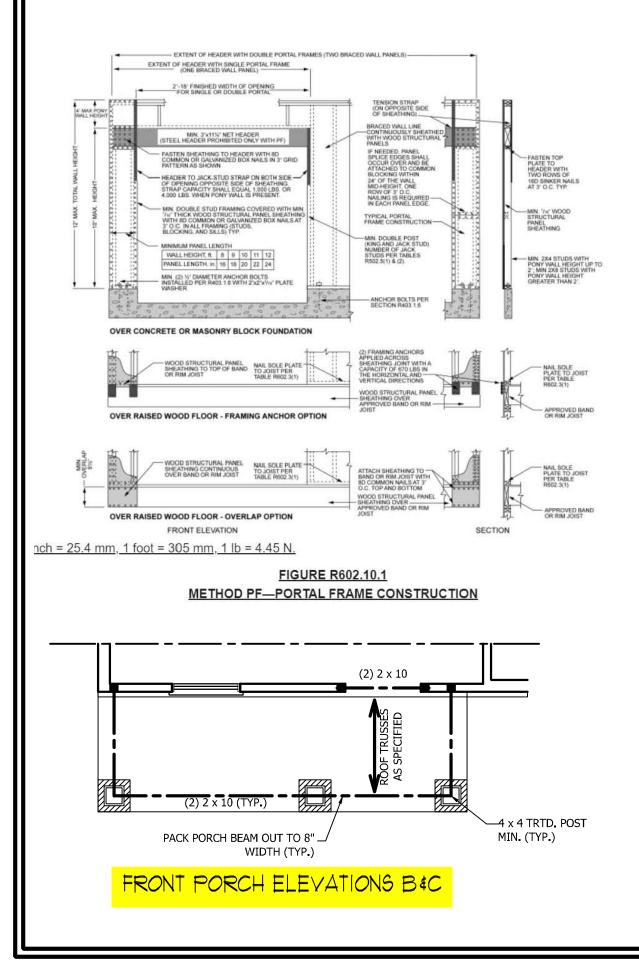
EXTERIOR WALLS: ALL EXTERIOR WALLS TO BE SHEALTHED WITH CS-WSP OR CS-SFB IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.

REQUIRED LENGTH OF BRACING: REQUIRED BRACE WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHODS CS-WSP AND CS-SFB CONTRIBUTE THIER ACTUAL LENGTH. METHOD GB CONTRIBUTES 0.5 ITS ACTUAL LENGTH. METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.

GYPSUM: ALL INTERIOR SIDES OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD GB GYPSUM TO BE FASTENED PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1.

HD: 800 LBS HOLD DOWN DEVICE FASTENED TO THE EDGE OF THE BRACE WALL PANEL NEAREST TO THE CORNER

METHODS: PER TABLE R602.10.1



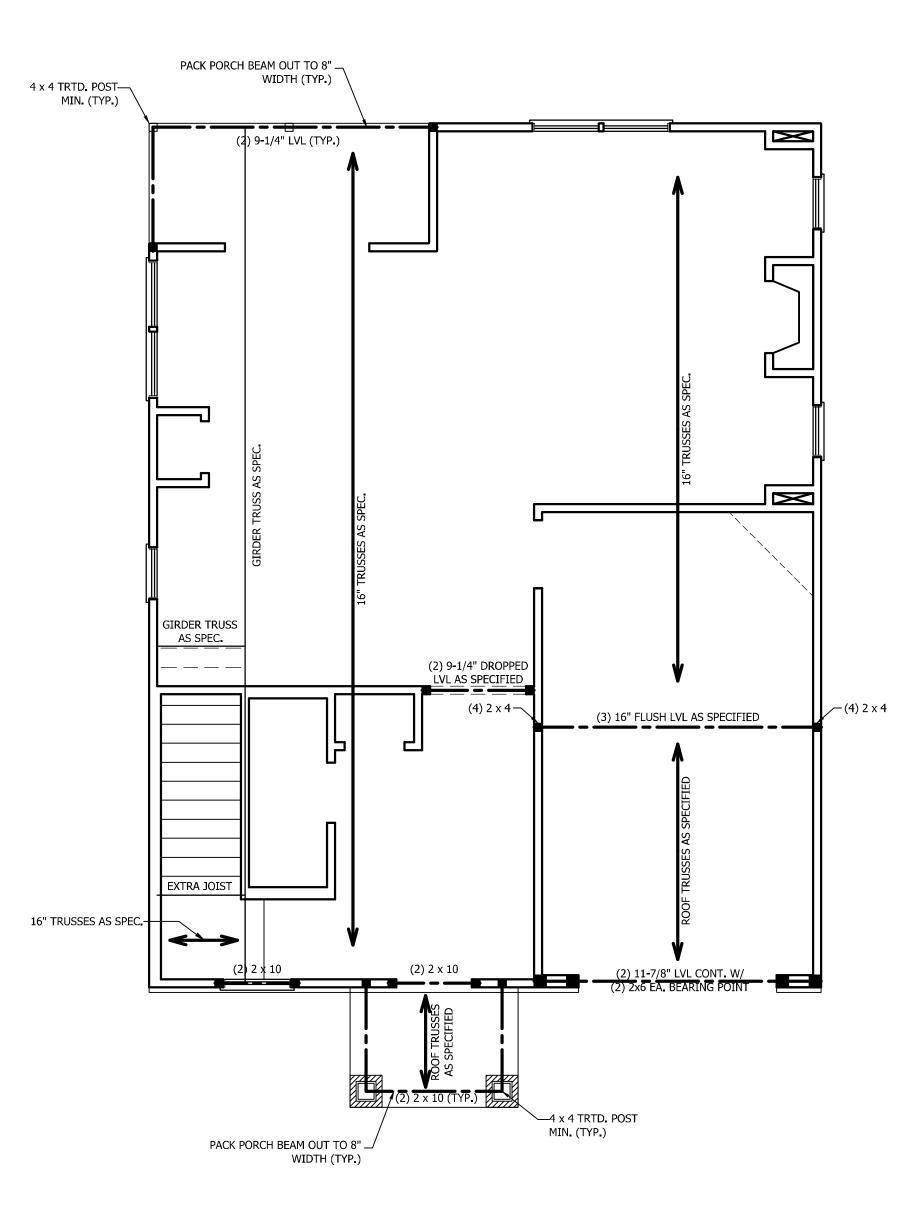


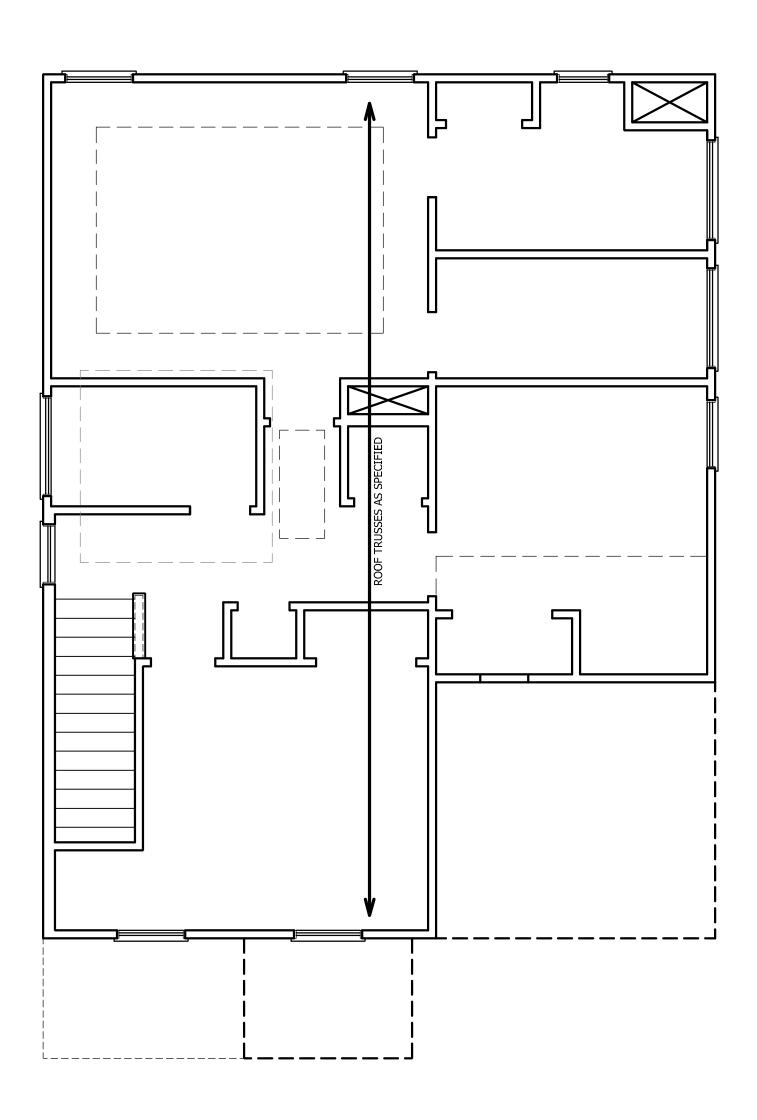


TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

| HEADER SPAN (FEET) | MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.3(5) | | | | | |
|-----------------------|---|----|--|--|--|--|
| (* / | 16 | 24 | | | | |
| UP TO 3' | 1 | 1 | | | | |
| 4' | 2 | 1 | | | | |
| 8' | 3 | 2 | | | | |
| 12' | 5 | 3 | | | | |
| 16' | 6 | 4 | | | | |

STRUCTURAL NOTES:

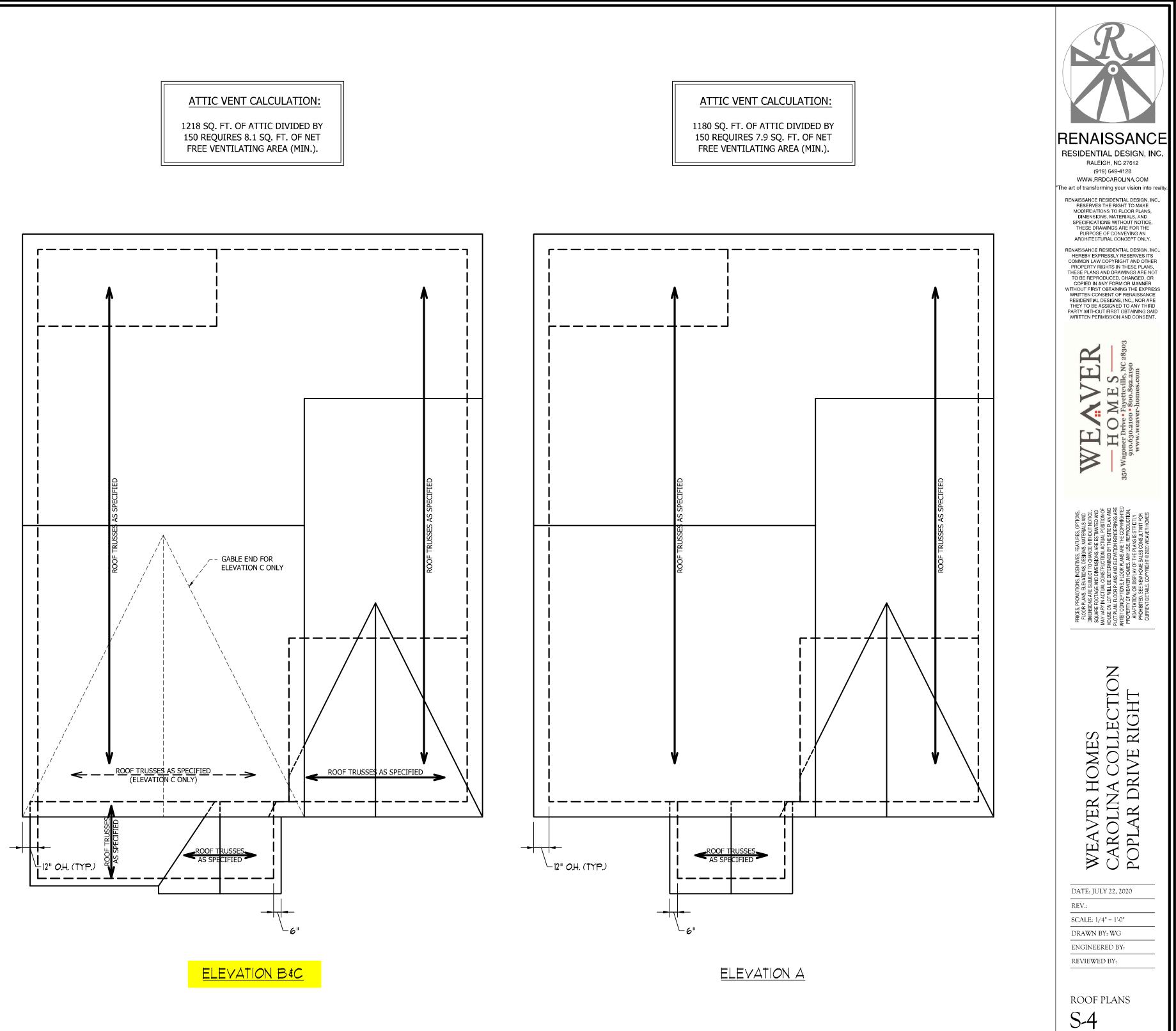
- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- 3. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- 4. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
 - DSP DOUBLE STUD POCKET TSP - TRIPLE STUD POCKET

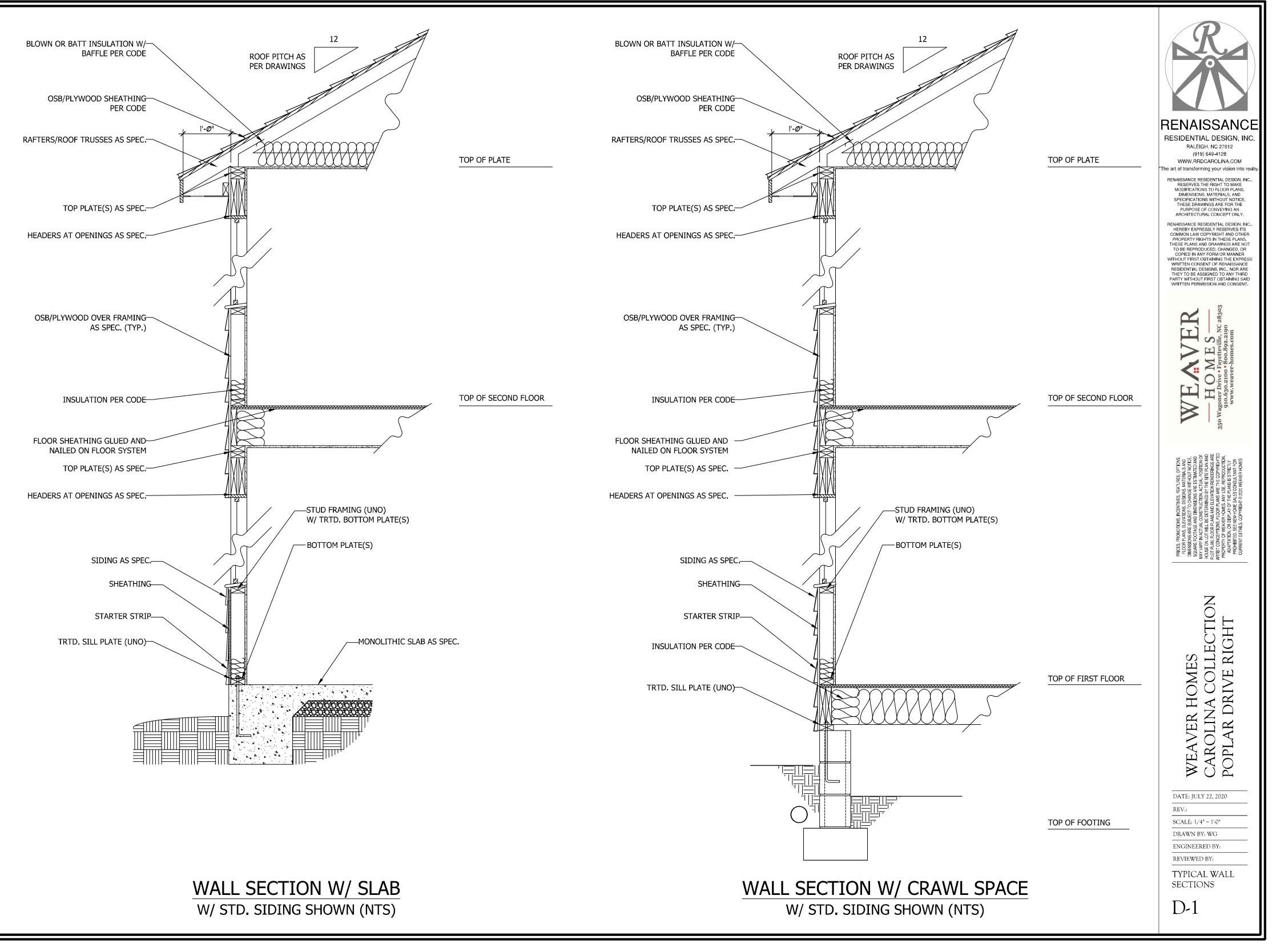


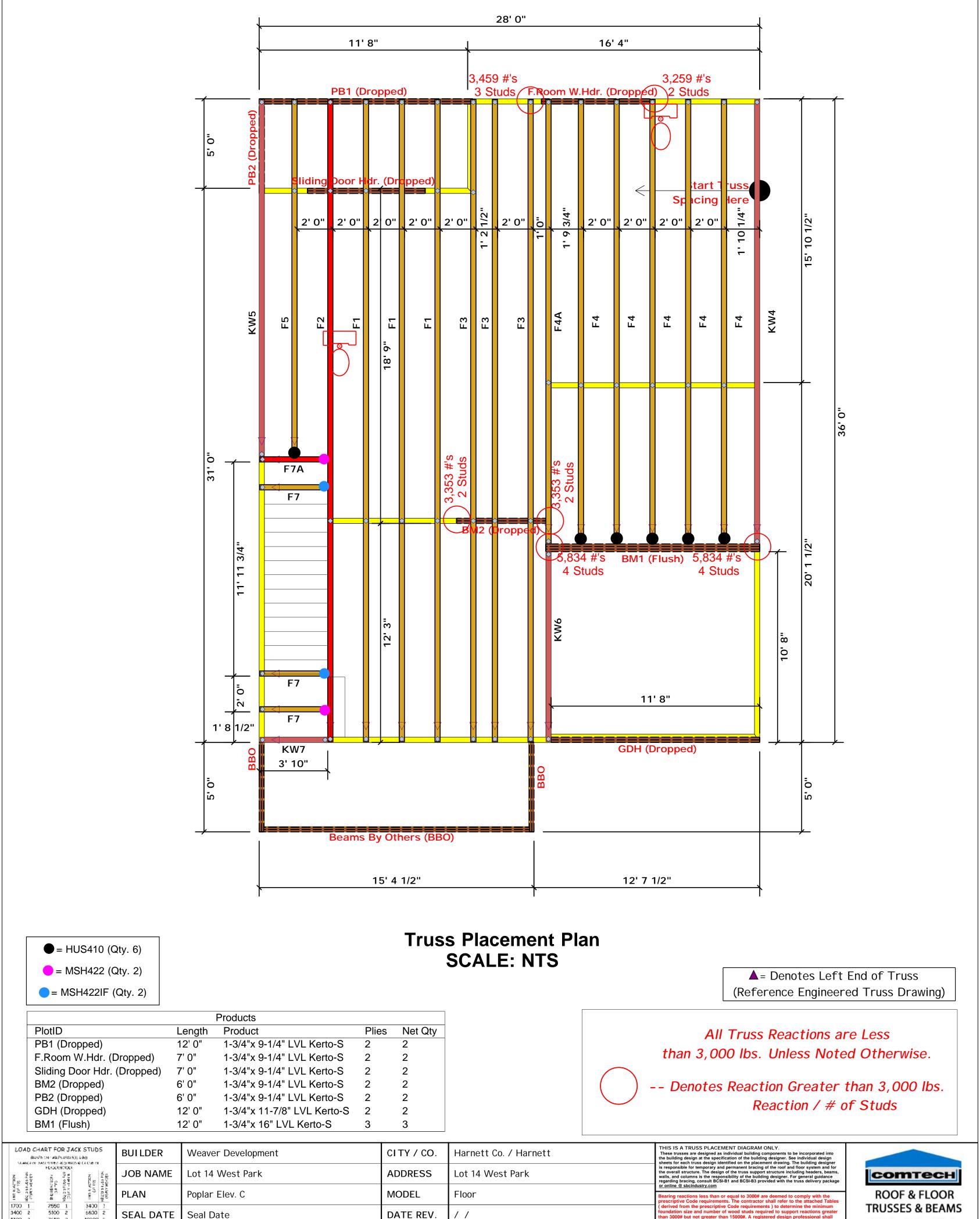


STRUCTURAL NOTES:

- 1. ALL FRAMING LUMBER TO BE #2 SPF (UNO).
- 2. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS @ 16" O.C. (TYP.)
- 3. STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
- 4. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
- REFER TO SECTION R802.11 OF THE 2018 NCRC 5. FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.







DRAWN BY

SALES REP.

Christine Shivy

Lenny Norris

5100 3

15300 9

7650 3

10200 4

12750 5

15300 6

10200 3

13600 4

17000 5

QUOTE #

JOB #

Quote #

J0720-3499

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

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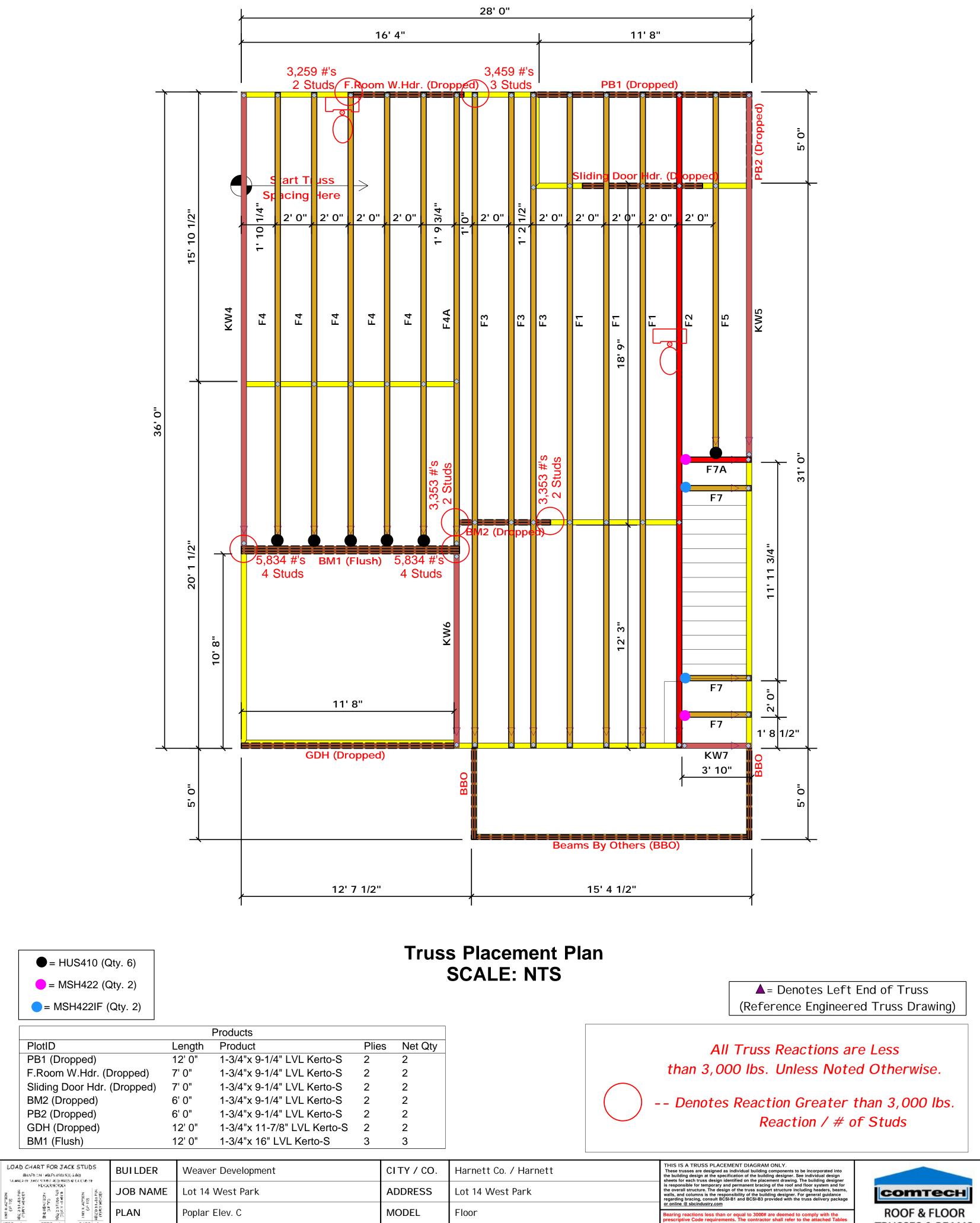
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ion the support system for all read

Signatur

Christine Shivy

Christine Shivy



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Christine Shivy

Lenny Norris

DATE REV.

DRAWN BY

SALES REP.

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TRUSSES & BEAMS ve Code requirements) to det ns great ids required to su nal shal **Reilly Road Industrial Park** nall be ion the support system for all reac

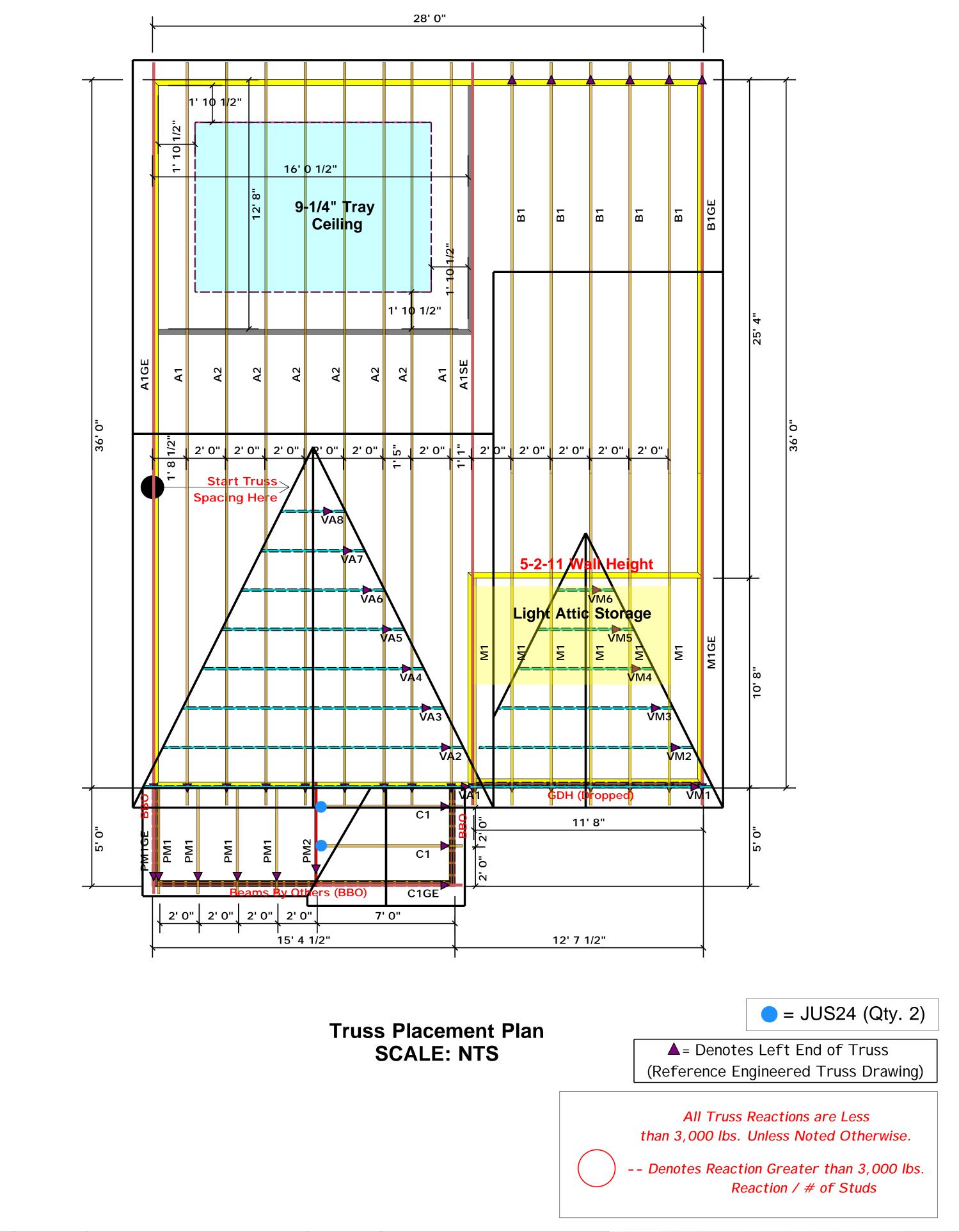
on size and number of wood st

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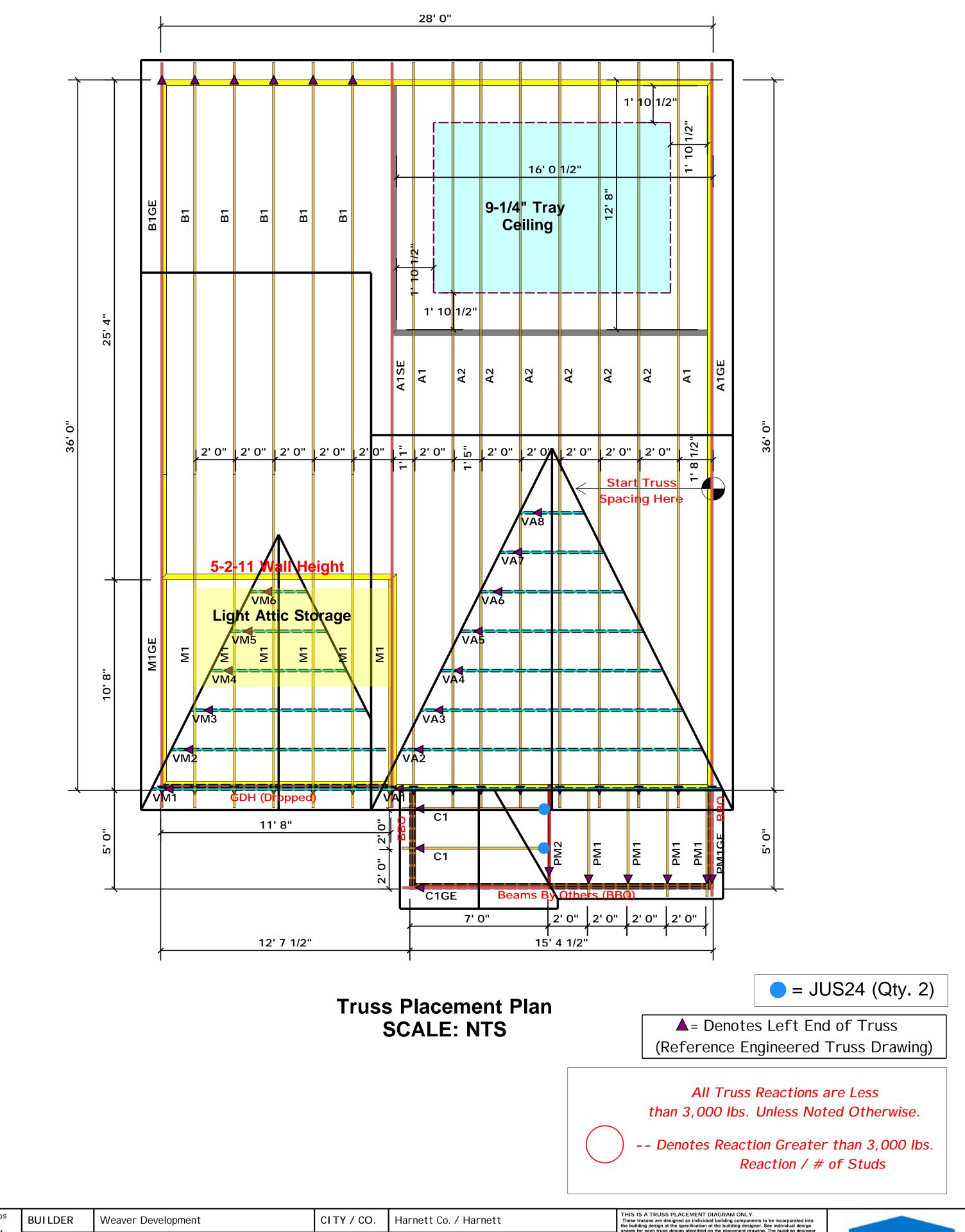
Christine Shivy

Christine Shivy

Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444



| (04NFb (| ART FOR JAC SON 1 ABLES (502.5) NOV 311150 (2011) | (1) Å (b(j) | BUILDER | Weaver Development | CITY/CO. | Harnett Co. / Harnett | THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer | | |
|---------------------------------------|---|-----------------------------|-----------|--------------------|------------|-----------------------|---|---|--|
| | PEADERVEIRDER | z Sta | JOB NAME | Lot 14 West Park | ADDRESS | Lot 14 West Park | is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package | соттесн | |
| I I I I I I I I I I I I I I I I I I I | | | PLAN | Poplar Elev. C | MODEL | Roof | or online @ sbcindustry.com Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables | ROOF & FLOOR | |
| 1700 1 3400 2 5100 3 | 2550 1 5100 2 7650 3 | 3400 1 6600 2 10200 3 | SEAL DATE | Seal Date | DATE REV. | / / | (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those | TRUSSES & BEAMS Reilly Road Industrial Park | |
| 8500 5 10200 6 | 10200 4 12750 5 15300 6 | 13600 4 17000 5 | QUOTE # | Quote # | DRAWN BY | Christine Shivy | specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#. Christine Shivy | Fayetteville, N.C. 28309 Phone: (910) 864-8787 | |
| 11900 7 13600 8 15300 9 | 8 00 | | JOB # | J0720-3498 | SALES REP. | Lenny Norris | Christine Shivy | Fax: (910) 864-4444 | |



| | CHART FOR JA4 DANES ON 1 ABLES (\$502.5) OF JACK STUDG (COURC) | 1) \$ (6)) | BUILDER | Weaver Development | CITY/CO. | Harnett Co. / Harnett | THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer | | |
|---|--|-----------------------------|-----------|--------------------|------------|-----------------------|--|---|--|
| z Şe | FEADER/STRDER | 100 KELOK | JOB NAME | Lot 14 West Park | ADDRESS | Lot 14 West Park | is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com | соттесн | |
| END REACTED 01 TO 10 | | END SUM | PLAN | Poplar Elev. C | MODEL | Roof | Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables | ROOF & FLOOR | |
| 1700 1 3400 2 5100 3 | 2550 1 5100 2 7650 3 | 3400 1 6600 2 10200 3 | SEAL DATE | Seal Date | DATE REV. | / / | (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those | TRUSSES & BEAMS Reilly Road Industrial Park | |
| 6800 4 8500 5 10200 6 | 10200 4 12750 5 15300 6 | 13600 4 17000 5 | QUOTE # | Quote # | DRAWN BY | Christine Shivy | specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#. Christine Shivy | Fayetteville, N.C. 28309 Phone: (910) 864-8787 | |
| 11900 7 13600 8 15300 9 | | | JOB # | J0720-3498 | SALES REP. | Lenny Norris | Christine Shivy | Fax: (910) 864-4444 | |

| isl | Design | Client: Weaver D Project: Poplar Pla Address: Poplar F | | Date Input Job I Proje | t by: Christ Name: Popla | ine Shivy | Pa | ge 1 c |
|---|---|--|---|---------------------------------|-----------------------------|--------------------------------------|--|--------|
| BM1 K | Kerto-S LVL | 1.750" X 16.0 | 00" 3-Ply - | | Level: Le | vel | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | atter to an | • • | (P) Ma | • | | 1 |
| 1 SPF | • • • | - 1974 · | Adding and a second secon | • 1999 - Anno • Anno 1997 | • | SPF | | 4 |
| / | | 11'11 | 1/2" | | | | 5 1/4 | 4" |
| <u> </u> | | 11'11 | 1/2" | | | | | |
| ember Inf | ormation | | | Reactions | UNPATTE | RNED lb (Uplift) | | |
| Туре: | Girder | Application: | Floor | Brg | | Dead Snow | Wind Const | |
| Plies: Noisture Condi | 3 ition: Dry | Design Method: Building Code: | ASD IBC/IRC 2015 | 1 | 1046 1046 | 3287235032872350 | 0 0 0 0 | |
| Deflection LL: | 480 | Load Sharing: | Yes | | | 200 | 5 0 | |
| Deflection TL: | 360 | Deck: | Not Checked | | | | | |
| mportance: emperature: | Normal Temp <= 100°F | | | | | | | |
| | | | | Bearings | | | | |
| | | | | Bearing Le | - | ap. React D/L lb | Total Ld. Case Ld. Cor | |
| | | | | 1 - SPF 3. 2 - SPF 3. | | 75% 3287 / 2547 75% 3287 / 2547 | 5834 L D+0.75(5834 L D+0.75(| |
| nalysis Res | | | | 2-011 0. | | 070 020172047 | 0004 E D.0.10 | |
| Analysis | | ation Allowed Capacit | - | | | | | |
| Moment | | | 6%) D+0.75(L+S) L 9%) D+0.75(L+S) L | | | | | |
| Jnbraced Shear | | , | 9%) D+0.75(L+S) L 4%) D+0.75(L+S) L | | | | | |
| | | 1 3/4" 0.288 (L/480) 0.200 (2 | | | | | | |
| | | 1 3/4" 0.384 (L/360) 0.340 (3 | | | | | | |
| esign Note | es | | | | | | | |
| 1 Fasten all pl to exceed 6' | | Box nails (.128x3") at 12" o.c. l | Maximum end distance n | ot | | | | |
| 2 Refer to last | page of calculations for | fasteners required for specifie | d loads. | | | | | |
| | designed to be supporte ust be supported equally | d on the bottom edge only. v bv all plies. | | | | | | |
| 5 Top braced a | at bearings. | | | | | | | |
| | ed at bearings. derness ratio based on s | single ply width. | | | | | | |
| D | Load Type | Location Trib Width | Side Dead (|).9 Live 1 | Snow 1.15 | Wind 1.6 Const | . 1.25 Comments | |
| | Uniform | | Тор 80 Р | LF 0 PLF | 0 PLF | 0 PLF | 0 PLF Wall Load | |
| 2 | Uniform | | Тор 253 Р | LF 0 PLF | 253 PLF | 0 PLF | 0 PLF B1 | |
| 3 | Uniform | | Near Face 140 P | LF 0 PLF | 140 PLF | 0 PLF | 0 PLF M1 | |
| Ļ | Uniform | | Far Face 58 P | | 0 PLF | 0 PLF | 0 PLF F4 | |
| | Self Weight | | 19 P | LF | | | | |
| | | | | | | | | |
| otes | Designs is responsible only of the | chemicals Handling & Installation | For flat roofs provi ponding | ide proper drainage to pre- | Manufac Metsä Wo | | Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC | |
| ructural adequacy of sign criteria and | this component based on the loadings shown. It is the | 1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product | nformation | | 301 Merri | tt 7 Building, 2nd Floor CT 06851 | USA 28314 | |
| sure the compone | istomer and/or the contractor to nt suitability of the intended y the dimensions and loads. | regarding installation requirements, fastening details, beam strength values, approvals | multi-ply | | (800) 622 | | 910-864-TRUS | _ |
| umber | | Damaged Beams must not be used Design assumes top edge is laterally restrict. | | | | ESR-3633 | | |
| Dry service conditio | | 5. Provide lateral support at bearing point | | | | | соттес | |

| isDesign | Client: Weaver Developme Project: Poplar Plan Address: Poplar Plan | Input | by: Christine Shivy lame: Poplar | Page 2 of 14 |
|---|--|--|--|--|
| BM1 Kerto-S LV | L 1.750" X 16.000" | | Level: Level | |
| | | | | |
| 1 SPF | · · · · · | · · · · | | 1'4" |
| | 11'11 1/2" 11'11 1/2" | | | 5 1/4" |
| Multi-Ply Analysis | of 10d Box nails (.128x3") at 12" | o.c. Nail from both sides. N | Azvimum end distance not to | a exceed |
| Load Yield Limit per Foot Yield Limit per Fastener Yield Mode Edge Distance Min. End Distance Load Combination | 66.1 % 186.7 PLF 282.4 PLF 94.1 lb. IV 1 1/2" 3" D+S 1.15 | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| Notes Calculated Structured Designs is responsible only of structural adequacy of this component based on t design ortleria and loadings shown. It is to responsibility of the customer and/or the contractor | the 1. LVL beams must not be cut or drilled the 2. Refer to manufacturer's product information to regarding installation requirements multi-ply | For flat roofs provide proper drainage to prev ponding | Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 | Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS |
| ensure the component suitability of the intend 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 corros | ded regionary and the set of th | This design is valid until 1/8/2023 | (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633 | соттесн |

| • | | Client: Project: | Weaver Developm Poplar Plan | ent | | ate: put by: | 8/5/2020 Christine Shi | vy | | Page 3 |
|---|---|--|--------------------------------|-----------------------|----------------|-----------------------|---------------------------|----------------------|-------------------------|---------|
| | sDesign | Address: | Poplar Plan | | | ob Name: roject #: | Poplar | | | |
| BM2 | Kerto-S LV | L 1.750 |)" X 9.250" | 2-Ply - | | | evel: Level | | | |
| | | | | | | | | | | |
| - | · | • | • | • | | | | | | |
| | (1990) | The end | | p. 17 | | | | | | |
| 1 SPF | End Grain | | | 2 SPF End Grai | n l | | | | | |
| [| | 5'3 1/2 | u | | | | | | | 3 1/2" |
| 1 | | 5'3 1/2 | | | { | | | | | |
| ember Ir | formation | | | | Reactio | ns UNP | ATTERNED | b (Uplift) |) | |
| Гуре: | Girder | | cation: Floor | | Brg | Live | Dead | Snow | Wind | d Const |
| Plies: <i>N</i> oisture Cor | 2 adition: Dry | - | In Method: ASD | C 2015 | 1 | 2500 | 852 | 0 | 0 | |
| Deflection LL | • | | Sharing: No | .0 2015 | 2 | 2500 | 852 | 0 | (| 0 0 |
| eflection TL | | Deck | Not Cl | necked | | | | | | |
| mportance: emperature: | Normal : Temp <= 100°F | | | | | | | | | |
| | | | | | Bearing | s | | | | |
| | | | | | - | Length | • | eact D/L lb | Total Ld. | |
| | | | | | 1 - SPF End | 3.500" | 31% | 852 / 2500 | 3353 L | D+L |
| nalysis Re | esults | | | | Grain | | | | | |
| Analysis | | ocation Allowed | | mb. Case | 2 - SPF End | 3.500" | 31% | 852 / 2500 | 3353 L | D+L |
| <i>I</i> loment Jnbraced | | 2'7 3/4" 12542 ft-li 2'7 3/4" 10922 ft-li | () | | Grain | | | | | |
| Shear | | 4'3 1/2" 6907 lb | 0.302 (30%) D+ | | | | | | | |
| | 0.035 (L/1659) | 2'7 3/4" 0.121 (L/4 | 80) 0.290 (29%) L | L | | | | | | |
| L Defl inch | 0.047 (L/1237) | 2'7 3/4" 0.161 (L/3 | 60) 0.290 (29%) D+ | L L | | | | | | |
| esign No | tes | | | | | | | | | |
| 1 Fasten all | plies using 2 rows of 10 | d Box nails (.128x3 | ") at 12" o.c. Maximur | n end distance not |] | | | | | |
| | ist page of calculations f | | - | | | | | | | |
| to exceed 2 Refer to la | | | edge only. | | | | | | | |
| to exceed 2 Refer to la 3 Girders ar | e designed to be suppor must be supported equa | ally by all plies. | | | | | | | | |
| to exceed Refer to la Girders and Top loads Top braced | must be supported equa d at bearings. | ally by all plies. | | | | | | | | |
| to exceed Refer to la Girders and Top loads Top braced Bottom brace | must be supported equa d at bearings. aced at bearings. | | | | | | | | | |
| to exceed Refer to la Girders and Top loads Top braced Bottom bra Lateral sle | must be supported equa d at bearings. | | Trib Width Side | e Dead 0.9 | Live | 1 Snow | 1.15 Wir | nd 1.6 Cons | t. 1.25 Co | mments |
| to exceed 2 Refer to la 3 Girders and 4 Top loads 5 Top braced 6 Bottom bra | must be supported equa d at bearings. aced at bearings. enderness ratio based or | n single ply width. | Trib Width Side | e Dead 0.9 315 PLF | Live 945 PL | | | nd 1.6 Cons 0 PLF | t. 1.25 Col 0 PLF F3 | mments |

| isD | Design | Project: | Weaver Developme Poplar Plan Poplar Plan | nt | Date: Input by: Job Name | 8/5/2020 Christine Shivy e: Poplar | Page 4 of 14 |
|---|--|--|---|--|--------------------------------|--|--|
| ļ | Certo-S LVI | | X 9.250" | 2-Ply - P | Project #: | | |
| | | | | | | | |
| • | • | • | • | • | <1 1/2" | | 9 1/ |
| • 1 SPF Er | • nd Grain | • | • | • 2 SPF End Grain | | | |
| | | 5'3 1/2" 5'3 1/2" | | | \rightarrow | | 3 1/2" |
| Multi-Ply An | alysis | | | | | | |
| Capacity | | 0 % | 128x3") at 12" o | o.c Maximum ei | nd distance no | ot to exceed 6" | |
| .oad ⁄ield Limit per Foc ⁄ield Limit per Fas | ot 16 | 0 PLF 33.7 PLF 1.9 lb. | | | | | |
| íield Mode Edge Distance | IV | | | | | | |
| lin. End Distance oad Combination | 3" | | | | | | |
| Ouration Factor | | 00 | | | | | |
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| | | | | | | Manufacturer Info | Comtech, Inc. |
| Notes Calculated Structured De structural adequacy of t | signs is responsible only of the this component based on the | | on | For flat roofs provide prope ponding | r drainage to prevent | Metsä Wood | 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA |
| design criteria and I responsibility of the cust | loadings shown. It is the tomer and/or the contractor to t suitability of the intended | Refer to manufacture regarding installation | 's product information requirements, multi-ply | | | 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 | 28314 910-864-TRUS |
| application, and to verify the Lumber | the dimensions and loads. | fastening details, beam s approvals 3. Damaged Beams must no 4. Design assumes top edge | trength values, and code | | | www.metsawood.com/us ICC-ES: ESR-3633 | |
| Dry service conditions LVL not to be treated | s, unless noted otherwise with fire retardant or corrosive | 5 Provide lateral support a | t bearing points to avoid | This design is valid un | til 1/8/2023 | | соттесн |

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| Lie | Design | F | Client: Project: | Weaver De Poplar Plan | | | Inp | ate: out by: | 8/5/2020 Christine | Shivy | | | Page 5 |
|---|--|---|--|--|--|----------------------|--------------------|---------------------|-------------------------------|------------------------|-----------|--------------------------------------|------------------|
| | Design | F | ddress: | Poplar Pl | an | | | o Name: oject #: | : Poplar | | | | |
| Room | W. Hdr. K | erto-S L | VL | 1.750" X | 9.250" | 2-Ply - | | - | evel: Level | | | | |
| | | | | | | | | | | | | | |
| • | • | • | | • | atter par | 170 | • | • | | | | | |
| | • End Grain | 1444 | | | S. C. S. | 2 | • 2 SPF End Gr | rain |] | | | | |
| ŕ | | | | 6'1" | | | | | <i>r</i> | | | | 3 1/2" |
| r | | | | 6'1" | | | | | ł | | | | |
| ember Inf | formation | | | | | | Reaction | s UNF | ATTERN | ED lb (Ur | olift) | | |
| уре: | Girder | | Applica | ation: | Floor | | Brg | Live | | | now | Wind | Const |
| lies: | 2 | | - | | ASD | r | 1 | 1736 | | | 33 | 0 | 0 |
| loisture Cond eflection LL: | 480 | | | • | IBC/IRC 201 | 5 | 2 | 1410 | 18 | 71 | 707 | 0 | 0 |
| eflection TL: | | | Deck: | - | Not Checked | | | | | | | | |
| nportance: | Normal | | | | | | | | | | | | |
| emperature: | Temp <= 100 | °F | | | | | _ | | | | | | |
| | | | | | | | Bearings | | | | | | |
| | | | | | | | Bearing 1 - SPF | - | | React D/L 1523 / 17 | | otal Ld. Case 259 L | Ld. Comb. D+L |
| alysis Re | sults | | | | | | End Grain | | | | | | |
| nalysis | Actual | Location A | Allowed | Capacity | Comb. | Case | 2 - SPF End | 3.500" | 32% | 1871 / 15 | 588 34 | 459 L | D+0.75(L+8 |
| loment | 4166 ft-lb | | 2542 ft-lb | 0.332 (33 | - | L | Grain | | | | | | |
| Inbraced | 4166 ft-lb | | 0300 ft-lb | 0.404 (40 | - | L | | | | | | | |
| hear Daflinah | 2222 lb | | 907 lb | 0.322 (32 | - | L | | | | | | | |
| | 0.035 (L/1946) 0.066 (L/1023) | | | 0) 0.250 (25 0) 0.350 (35 | - | L | | | | | | | |
| | . , | 51/4 (| . 100 (L/30 | 0) 0.330 (33 | //) D+L | L | ł | | | | | | |
| esign Not | es lies using 2 rows of | 10d Box pail | - (128v3") | at 12" o.c. M | avimum end (| distance not | 4 | | | | | | |
| to exceed 6 | ". | | | | | | | | | | | | |
| | t page of calculation designed to be sup | | • | • | loads. | | | | | | | | |
| | nust be supported e | | | igo only. | | | | | | | | | |
| 5 Top braced | at bearings. ced at bearings. | | | | | | | | | | | | |
| | derness ratio based | on single ply | width. | | | | | | | | | | |
| C | Load Type | L | ocation | Trib Width | Side | Dead 0.9 | Live 1 | Snov | w 1.15 N | Wind 1.6 C | Const. 1. | 25 Commen | ts |
| | Uniform | | | | Тор | 107 PLF | 320 PLF | | 0 PLF | 0 PLF | 0 P | LF F4 | |
| | Uniform | | | | Тор | 125 PLF | 0 PLF | : | 0 PLF | 0 PLF | 0 P | LF Wall Load | |
| | Part. Uniform | 0-0-0 | to 4-6-8 | | Тор | 264 PLF | 264 PLF | | 0 PLF | 0 PLF | 0 P | LF B1 | |
| | Point | | 5-7-4 | | Тор | 740 lb | 0 lb |) | 740 lb | 0 lb | 0 | lb A1SE | |
| | Self Weight | | | | | 7 PLF | | | | | | | |
| | | | | | | | | | | | | | |
| otes | | chemica | s | | 6. For | flat roofs provide p | roper drainage to | prevent | Manufacture | r Info | | Comtech, Inc. 1001 S. Reilly Road | d. Suite #639 |
| alculated Structured uctural adequacy of | Designs is responsible only o of this component based on | f the Handling | | | pond | ling | 5 - | | Metsä Wood 301 Merritt 7 I | Building 2nd I | Floor | Fayetteville, NC USA | a, June #005 |
| sign criteria and sponsibility of the c | loadings shown. It is ustomer and/or the contractor | the 2. Refer | to manufactu installation | rer's product inf requirements, | multi-ply | | | | Norwalk, CT (| 06851 | 1001 | 28314 910-864-TRUS | |
| sure the compone plication, and to veri | ent suitability of the inter fy the dimensions and loads. | nded fastening approval | j details, bean s | strength values, a | ind codé | | | | (800) 622-585 www.metsawo | ood.com/us | | | |
| | ons, unless noted otherwise | Design a Provide | d Beams must ssumes top ed lateral support | not be used ge is laterally restrain at bearing points | ned to avoid | | | | ICC-ES: ESR | -3633 | | | птесн |
| LVL not to be treat | ted with fire retardant or corro | lateral di | splacement and | rotation | This | s design is valid | until 1/8/2023 | | | | | | |

| | Client: | Weaver Development | Date: | 8/5/2020 | Page 6 of 14 |
|---|--|--|--|--|---|
| isDesign | Project: | Poplar Plan | Input by: | Christine Shivy ne: Poplar | |
| Ispesign | Address: | Poplar Plan | Job Nar Project # | • | |
| F. Room W. Hdr. | Kerto-S LVL | 1.750" X 9.250 | 2-Ply - PASSED | Level: Level | |
| | | | | | |
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| • • | ٠ | • | • • • | /2" | M T |
| • • | • | • | • • • | ×1 1/2" | 9 1/ |
| 1 SPF End Grain | | 0148 | 2 SPF End Grain | | |
| | | 6'1" 6'1" | | | 1 13 1/2" |
| Multi-Ply Analysis | | | | | |
| | rows of 10d Box nails | s (.128x3") at 12" o.o | Maximum end distance r | ot to exceed 6" | |
| Load | 0.0 PLF | | | | |
| Yield Limit per Foot Yield Limit per Fastener | 163.7 PLF 81.9 lb. | | | | |
| Yield Mode | IV | | | | |
| Edge Distance | 1 1/2" | | | | |
| Min. End Distance Load Combination | 3" | | | | |
| Duration Factor | 1.00 | | | | |
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| Notes | chemicals | 6. F | or flat roofs provide proper drainage to prevent | Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite #639 |
| Calculated Structured Designs is responsib structural adequacy of this component b design criteria and loadings shown. responsibility of the customer and/or the | le only of the ased on the It is the contractor to Handling & Install 1. LVL beams must not the Refer to recarding installation | ation F be cut or drilled turer's product information on requirements. multi-ply | onding | Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 | Tool S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS |
| ensure the component suitability of tr application, and to verify the dimensions and Lumber 1. Dry service conditions, unless noted oth 2. Wir set to be treated with fire retardant | erwise erwise fastening details, bear approvals 3. Damaged Beams mus 4. Design assumes top 6 5. Provide lateral supprovals 4. Design assumes top 6 for the supproval for the supproval for the supproval for the supervise for the s | am strength values, and code st not be used adge is laterally restrained ort at bearing points to avoid | | (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633 | соттесн |
| 2. LVL not to be treated with fire retardant | t or corrosive lateral displacement a | | This design is valid until 1/8/2023 | | |

| 30" X 11.875" 2-Ply | - PASSED | evel: Level | |
|---|---|--|---|
| 8'10" | 2 SPF | · · | |
| 8'10" | 2 SPE | No. | 11 |
| 8'10" | | End Grain | |
| 8'10" | | | |
| | | | ິ ິ 1/2" |
| 8'10" | | 1 | |
| | | | |
| Application: Floor | | | Wind Const |
| Design Method: ASD | - | | 0 0 |
| Building Code: IBC/IRC 2015 | | | 0 0 |
| .oad Sharing: No | | | |
| Deck: Not Checked | | | |
| | | | |
| | | | |
| | | | |
| | 1 - SPF 3.500" | Cap. React D/L lb 13% 827 / 521 | TotalLd. CaseLd. Comb.1348LD+S |
| | Grain | | |
| ved Capacity Comb. Cas | e ·· | 13% 827 / 521 | 1348 L D+S |
| 7 ft-lb 0.117 (12%) D+S L | | | |
| 6 ft-lb 0.249 (25%) D+S L | - | | |
| 7 lb 0.096 (10%) D+S L | | | |
| 0 (L/480) 0.080 (8%) S L | | | |
| 9 (L/360) 0.150 (15%) D+S L | | | |
| | | | |
| | | | |
| 28x3") at 12" o.c. Maximum end distance quired for specified loads. om edge only. | not | | |
| quired for specified loads. om edge only. th. | | - 4 4E - ME- 14 2 2 2 | |
| quired for specified loads. om edge only. th. tion Trib Width Side Dead | 10.9 Live 1 Snov | | |
| quired for specified loads. om edge only. th. tion Trib Width Side Dead Top 118 | 0.9 Live 1 Snov PLF 0 PLF 11 | 18 PLF 0 PLF | 0 PLF M1 |
| quired for specified loads. om edge only. th. tion Trib Width Side Dead Top 118 Top 60 | 0.9 Live 1 Snov PLF 0 PLF 11 | 18 PLF 0 PLF | |
| | Building Code: IBC/IRC 2015 oad Sharing: No Deck: Not Checked ved Capacity Comb. Case 7 ft-lb 0.117 (12%) D+S L 6 ft-lb 0.249 (25%) D+S L 7 lb 0.096 (10%) D+S L (L/480) 0.080 (8%) S L | Application: Floor Brg Live Design Method: ASD 1 0 Building Code: IBC/IRC 2015 2 0 oad Sharing: No 2 0 Deck: Not Checked 1 0 Bearings Bearings Bearing Length 1 - SPF 3.500" End Grain 2 - SPF 3.500" 7 ft-lb 0.117 (12%) D+S L 6 ft-lb 0.249 (25%) D+S L (L/480) 0.080 (8%) S L | Design Method: ASD Juilding Code: IBC/IRC 2015 oad Sharing: No Deck: Not Checked Bearings Bearings Bearing Length Cap. React D/L lb 1 - SPF 3.500" 13% 827 / 521 End Grain Ved Capacity Comb. Case 7 ft-lb 0.117 (12%) D+S L 1 - SPF 3.500" 13% 827 / 521 End Grain 2 - SPF 3.500" 13% 827 / 521 End Grain 2 - SPF 3.500" 13% 827 / 521 End Grain 2 - SPF 3.500" 13% 827 / 521 End Grain 2 - SPF 3.500" 13% 827 / 521 End Grain 7 lb 0.096 (10%) D+S L (L/480) 0.080 (8%) S L |

| | Client: | Weaver Developmer | nt | Date: | 8/5/2020 | | Page 8 of 14 |
|--|--|--|---------------------------------|---------------------------------|--|----------------------|---|
| | Project: | Poplar Plan | | Input by | - | | |
| isDesign | Address: | Poplar Plan | | | ne: Poplar | | |
| | | | | Project | | | |
| GDH Kerto-S LVL | 1.750" | X 11.875" | 2-Ply | - PASSED | Level: Level | | |
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| •••• | • | • | • | • • | ••+ | <u> </u> | |
| 1 SPF End Grain | | | | 23 | SPF End Grain | $\overline{\Lambda}$ | |
| | | | | 2 | | | |
| | | 8'10" | | | 1. | | 1 13 1/2" |
| 1 | | 8'10" | | | 1 | | |
| | | | | | | | |
| Multi-Ply Analysis | | | | | | | |
| | | (100 OW) (- | | | | | |
| Fasten all plies using 2 rows of | | (.128x3") at 12" c | o.c Maxim | um end distance i | not to exceed 6 | | |
| Capacity 0.0 Load 0.0 |) %) PLF | | | | | | |
| | 3.7 PLF | | | | | | |
| Yield Limit per Fastener 81. | .9 lb. | | | | | | |
| Yield Mode IV | (0) | | | | | | |
| Edge Distance 1 1 Min. End Distance 3" | /2" | | | | | | |
| Load Combination | | | | | | | |
| Duration Factor 1.0 | 0 | | | | | | |
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| | | | | | Manufacturer Info | | Comtech, Inc. |
| Notes Calculated Structured Designs is responsible only of the | chemicals Handling & Installat | | . For flat roofs pro ponding | vide proper drainage to prevent | Metsä Wood | | 1001 S. Reilly Road, Suite #639 Fayetteville, NC |
| structural adequacy of this component based on the design criteria and loadings shown. It is the | 1. LVL beams must not be | | | | 301 Merritt 7 Buildir Norwalk, CT 06851 | ig, 2nd Floor | USA 28314 |
| responsibility of the customer and/or the contractor to ensure the component suitability of the intended | regarding installation fastening details, beam | requirements, multi-ply strength values, and code | | | (800) 622-5850 | | 910-864-TRUS |
| application, and to verify the dimensions and loads. | approvals 3. Damaged Beams must r | not be used | | | www.metsawood.co ICC-ES: ESR-3633 | m/us | |
| Dry service conditions, unless noted otherwise LVL not to be treated with fire retardant or corrosive | Design assumes top edg Provide lateral support lateral displacement and | at bearing points to avoid | This diff. | | | | соттесн |
| | iatorai dispisocificiti allu | | i nis design is | valid until 1/8/2023 | | | |

| ť. | | Clier Proje | ect: Poplar Plan | • | | - | ut by: | 8/5/2020 Christine S | hivy | | | Page 9 of |
|---|---|--|---|--|----------------------|---------------------|---------------------|----------------------------------|--------------------|----------------|------------------------------|------------|
| ! | sDesign | Addı | ess: Poplar Pl | an | | | o Name: oject #: | Poplar | | | | |
| PB1 | Kerto-S LV | ′L 1.7 | 50" X 9.2 | 50" 2 | -Ply - I | | | evel: Level | | | | |
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| A | and a state | Julia and | dille. | 1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | and and | *in | | | | 9 1/4 |
| 1 SPF | End Grain | | | 2 SPF End |] Grain | | | | 3 SPF E | nd Grain | | |
| <u>}</u> | | 6'1 1/2" | | | | | | 5'10" | | | + / | 3 1/2" |
| <u>}</u> | | | | 11'11 1/ | 2" | | | | | | + | |
| | | | | | | | | | | | | |
| lember l | nformation | | | | | Reaction | s UNP | ATTERNE | D lb (Uplift |) | | |
| Туре: | Girder | | Application: | Floor | | Brg | Live | Dea | | W | ind | Const |
| Plies: Moisture Co | 2 ndition: Dry | | Design Method: Building Code: | ASD IBC/IRC 2015 | 5 | 1 | 238 | 135 | | | 0 | 0 |
| Deflection L | • | | Load Sharing: | No | | 2 | 665 221 | 378 125 | | | 0 0 | 0 |
| Deflection T | L: 360 | | Deck: | Not Checked | | | 221 | 125 | 0 010 | | 0 | 0 |
| Importance: | | _ | | | | | | | | | | |
| Temperature | e: Temp <= 100° | F | | | | Bearings | | | | | | |
| | | | | | | Bearing | | Cap. | React D/L lb | Total L | .d. Case | Ld. Comb. |
| | | | | | | 1 - SPF | - | 22% | 1322 / 976 | 2298 L | | D+S |
| n a la sali a D | | | | | | End Grain | | | | | | |
| nalysis R Analysis | | Location Allo | wed Capacity | Comb. | Case | 2 - SPF | 3.500" | 61% | 3841 / 2661 | 6502 L | L | D+S |
| | ent -3744 ft-lb | | 23 ft-lb 0.260 (26 | | LL | End Grain | | | | | | |
| Unbraced | -3744 ft-lb | 6'1 1/2" 1067 | 76 ft-lb 0.351 (35 | %) D+S | LL | 3 - SPF | 3.500" | 20% | 1225 / 922 | 2146 | L | D+S |
| Pos Mome | nt 2417 ft-lb | 2'6 1/2" 1442 | 23 ft-lb 0.168 (17 | %) D+S | L_ | End | | | | _ | | |
| Unbraced | 2417 ft-lb | 2'6 1/2" 1067 | , | | L_ | Grain | | | | | | |
| Shear | 2604 lb | 5'4 1/4" 7943 | , | , | LL | | | | | | | |
| | h 0.019 (L/3767) h 0.042 (L/1677) 2 | | 7 (L/480) 0.130 (13 7 (L/360) 0.210 (21 | | L_ L | | | | | | | |
| | | 2113/10 0.19 | 7 (1/300) 0.210 (21 | //) D+3 | L_ | 1 | | | | | | |
| esign No 1 Fasten al | DTES I plies using 2 rows of 1 | 10d Box nails (.1 | 28x3") at 12" o.c. M | aximum end o | distance not | 1 | | | | | | |
| to exceed | 16". | , , | , | | | | | | | | | |
| | ast page of calculations re designed to be supp | | | loads. | | | | | | | | |
| 4 Top loads | s must be supported eq | | • • | | | | | | | | | |
| - | ed at bearings. raced at bearings. | | | | | | | | | | | |
| | enderness ratio based | on single ply wi | dth. | | | | | | | | | |
| ID | Load Type | Loca | ation Trib Width | Side | Dead 0.9 | Live 1 | Snow | v 1.15 W | /ind 1.6 Cons | t. 1.25 C | Comment | 6 |
| 1 | Uniform | | | Тор | 32 PLF | 94 PLF | | 0 PLF | 0 PLF | 0 PLF F | F1, F2 & F | 5 |
| 2 | Uniform | | | Тор | 125 PLF | 0 PLF | | 0 PLF | 0 PLF | 0 PLF V | | |
| 3 | Uniform | | | Тор | 370 PLF | 0 PLF | 37 | 0 PLF | 0 PLF | 0 PLF A | 2 | |
| | Self Weight | | | | 7 PLF | | | | | | | |
| | | | | | | | | | | | | |
| Notes | | chemicals | | 6. For f | flat roofs provide p | roper drainage to p | prevent | Manufacturer | Info | 1001 | ech, Inc. S. Reilly Road, | Suite #639 |
| Calculated Structur structural adequac | ed Designs is responsible only of y of this component based on | the 1. LVL beams m | ust not be cut or drilled | pondi | ing | | | Vetsä Wood 301 Merritt 7 B | uilding, 2nd Floor | Fayett USA | eville, NC | |
| esponsibility of the | and loadings shown. It is e customer and/or the contractor ponent suitability of the intend | the 2. Refer to r to regarding in | nanufacturer's product in nstallation requirements, ails, beam strength values, a | multi-ply | | | 1 | Norwalk, CT 06 (800) 622-5850 | 6851 | 28314 910-8 | 64-TRUS | |
| pplication, and to | verify the dimensions and loads. | approvals 3. Damaged Bea | ims must not be used | | | | Ň | www.metsawoo | od.com/us | | | |
| 1. Dry service con | ditions, unless noted otherwise reated with fire retardant or corros | Design assum Provide latera | es top edge is laterally restrai al support at bearing points ement and rotation | to avoid | | | | | | | con | тесн |
| | | atoral uisplat | | This | s design is valid | untii 1/8/2023 | | | | | | |

| | | | | Client: | Weaver Developm | ient | | ate: | 8/5/2020 | | Page 10 of 14 |
|------------------------------|-------------------|---|-----------|---|--|--|-----------------------|----------------------|---|-----------------|---|
| | 1 | isDesign | | Project: Address: | Poplar Plan Poplar Plan | | | nput by: ob Name: | Christine Shivy Poplar | | |
| | Ť | | | | - | | | roject #: | evel: Level | | |
| PE | 31 | Kerto-S | LVL | 1.750' | ' X 9.250" | 2-Ply | - PASSE | ED | evel: Level | | |
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| | • | • | · | · | | · | - | • | · | | 5 5 W 9 1/4" |
| | • | • | • | • | • • | • | • | • | • | ••• | |
| | 1 SPF | End Grain | | | 2 SF | F End Grain | | | | 3 SPF End Grain | |
| | | | | 6'1 1/2" | | 1 | | | 5'10" | | 3 1/2" |
| 1 | | | | | 1 | 1'11 1/2" | | | | | 1 |
| M I | | Analysis | | | | | | | | | |
| | | | ows of | 10d Box nails | (.128x3") at 12" | oc Maximu | m end dista | ince no | t to exceed 6" | | |
| Capac | | plies using 2 i | 0.0 | % | | | | ince no | | | |
| Load Yield L | _imit pe | er Foot | | PLF 3.7 PLF | | | | | | | |
| | _imit pe | er Fastener | | 9 lb. | | | | | | | |
| Edge I | Distanc | | 1 1 | /2" | | | | | | | |
| | nd Dist Combin | | 3" | | | | | | | | |
| | on Fact | | 1.0 | 0 | | | | | | | |
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| Mate | | | | chemicals | | 6. For flat roofs provid | de proper draipago ta | prevent | Manufacturer Info | Cor | ntech, Inc. |
| Note: Calcula structur | ated Structu | ured Designs is responsible acy of this component bas | | Handling & Installa | | For flat roofs provide ponding | ue proper arainage to | prevent | Metsä Wood | Fay US/ | n S. Reilly Road, Suite #639 retteville, NC A |
| desian | criteria | and loadings shown. the customer and/or the component suitability of the | It is the | regarding installation | rer's product information requirements, multi-ply | | | 1 | 301 Merritt 7 Building Norwalk, CT 06851 (800) 622-5850 | 283 | -864-TRUS |
| applica | tion, and to | o verify the dimensions and | loads. | approvals 3. Damaged Beams must | n strength values, and code | | | Ň | www.metsawood.cor ICC-ES: ESR-3633 | n/us | |
| 1. Dry | service co | onditions, unless noted othe treated with fire retardant | rwise | Design assumes top ed Provide lateral support lateral displacement and | at bearing points to avoid | This design is y | alid until 1/8/2023 | | | | соттесн |
| | | | | | | acoigii is v | a aa 1/0/2020 | | | | |

| | • | Client: | Weaver Developm | ent | Date | | 3/5/2020 | | | | Page 1 |
|---|---|---|---|--|------------------------|--------------------------|--|----------------------|----------------------|---|----------------|
| Tis | Design | Project: Address | • | | | it by: (Name: F | Christine Shivy Poplar | | | | |
| | | | | | | ect #: | | | | | |
| PB2 | Kerto-S LV | L 1.75 | 0" X 9.250" | 2-Ply - | PASSEI | D Leve | el: Level | | | | |
| | | | | | | 1 | | | | | |
| • | | Rie • • • i | | · 4 | | | | | | | |
| 1 SPF I | End Grain | | | 2 SPF End Gra | in | | | | | | |
| | | 5'3 1 | | | 1 | | | | | |]]3 1/2" |
| | | 5'3 1 | /2" | | 1 | | | | | | |
| ember Inf | formation | | | | Reactions | UNPA | |) (Uplift |) | | |
| уре: | Girder | Ар | blication: Floor | | Brg | Live | Dead | Snow | - | Wind | Const |
| lies: | 2 | | sign Method: ASD | 0 0045 | 1 | 0 | 614 | 0 | | 0 | 0 |
| Noisture Conc Deflection LL: | dition: Dry 480 | | Iding Code: IBC/IR ad Sharing: No | C 2015 | 2 | 0 | 614 | 0 | | 0 | 0 |
| effection TL: | | De | • | ecked | | | | | | | |
| nportance: | Normal | | | concu | | | | | | | |
| emperature: | Temp <= 100°F | | | | | | | | | | |
| | · | | | | Bearings | | | | | | |
| | | | | | Bearing L 1 - SPF 3 | - | Cap. Rea 6% | ct D/L lb 614 / 0 | | Ld. Case Uniform | Ld. Comb. D |
| nalysis Re | sults | | | | End Grain | | | | | | |
| Analysis | Actual L | ocation Allowe | | mb. Case | 2 - SPF 3 End | .500" | 6% | 614 / 0 | 614 | Uniform | D |
| loment | 678 ft-lb | 2'7 3/4" 11288 f | t-lb 0.060 (6%) D | Uniform | Grain | | | | | | |
| Inbraced | | 2'7 3/4" 10138 f | . , | Uniform | | | | | | | |
| hear | | 4'3 1/2" 6216 lb | 0.061 (6%) D | Uniform | | | | | | | |
| | 0.000 (L/999) | | 0 (L/0) 0.000 (0%) | | | | | | | | |
| L Defl inch | 0.009 (L/6753) | 2'7 3/4" 0.161 (I | _/360) 0.050 (5%) D | Uniform | 4 | | | | | | |
| esign Not | es | | | | | | | | | | |
| to exceed 6 Refer to las Girders are Top loads n Top braced Bottom brac | ". t page of calculations designed to be suppo nust be supported equ | for fasteners requ rted on the botton ally by all plies. | | n end distance not | | | | | | | |
| C | Load Type | Locatio | | e Dead 0.9 | Live 1 | Snow 1 | .15 Wind ² | 1.6 Cons | t. 1.25 | Commen | is |
| | Uniform | | Тор | 125 PLF | 0 PLF | 0 | PLF 0 P | LF | 0 PLF | Wall Load | |
| | Uniform | | Тор | 50 PLF | 0 PLF | 0 | PLF 0 P | LF | 0 PLF | A1GE | |
| | Uniform | | Тор | 50 PLF | 0 PLF | 0 | PLF 0 P | LF | 0 PLF | KW5 | |
| | Self Weight | | | 7 PLF | | | | | | | |
| actural adequacy of sign criteria and ponsibility of the of sure the component | Designs is responsible only of th of this component based on th loadings shown. It is th ustomer and/or the contractor t ent suitability of the intende fy the dimensions and loads. | I. LVL beams must n Refer to manu regarding install fastening details, | | For flat roofs provide p ponding | proper drainage to pre | Mei 301 Nor (80 | nufacturer Info isä Wood Merritt 7 Building walk, CT 06851 0) 622-5850 | | 10 Fa US 28 | omtech, Inc. Motol S. Reilly Road ayetteville, NC SA 3314 0-864-TRUS | , Suite #639 |
| umber Dry service condition | ny the dimensions and loads. ons, unless noted otherwise ted with fire retardant or corrosiv | 5 Provide lateral su | p edge is laterally restrained pport at bearing points to avoid | | | | w.metsawood.cor -ES: ESR-3633 | n/us | | lcon | птесн |
| LVL not to be treat | | | | This design is valid | 1 | | | | | | |

| ĺ | isDesign | Client: Project: Address: | Weaver Developmen Poplar Plan Poplar Plan | nt | Date: Input by: Job Name: Project #: | 8/5/2020 Christine Shivy Poplar | Page 12 of |
|--|---------------|--|---|-----------------|---|---------------------------------------|------------|
| B2 | Kerto-S L\ | /L 1.750' | ' X 9.250" | 2-Ply - PAS | | evel: Level | |
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| | | | | | <1 1/2" | | 9 |
| • | • | • | • | • | \rightarrow | | |
| 1 SF | PF End Grain | 5'3 1/2" | | 2 SPF End Grain | | | 3 1/2" |
| | | 5'3 1/2" | | | | | 0 1/2 |
| | | | | | | | |
| Limit pe Mode Distanc End Dist Combin tion Fact | ance ation | 81.9 lb. IV 1 1/2" 3" 1.00 | | | | | |
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| Notes | chemicals | 6. For flat roofs provide proper drainage to prevent | Manufacturer Info | Comtech, Inc. 1001 S. Reilly Road, Suite #639 |
|--|--|--|--|--|
| structural adequacy of this component based on the | LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements multi-nly | ponding This design is valid until 1/8/2023 | Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633 | Fayetteville, NC USA 22314 910-864-TRUS |
| | | | | |

| I SPF End Grain 1 SPF End Grain I SPF End Grain | Application: Floor Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No Deck: Not Checke | • | r PASSE | End Grain | Level | Wind 0 | Const 0 0 |
|--|---|------------------------------|---|---|-------------------------------------|---------------------------------|--------------------|
| Iember Information Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal Temperature: Temp <= 100°F | 6'7" Application: Floor Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No | | Reactions Brg 1 2 Bearings | UNPATTI Live 2051 | Dead Snow 708 0 | Wind 0 | Const 0 |
| Image: | 6'7" Application: Floor Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No | | Reactions Brg 1 2 Bearings | UNPATTI Live 2051 | Dead Snow 708 0 | Wind 0 | Const 0 |
| Image: Construction Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal Temperature: Temp <= 100°F | 6'7" Application: Floor Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No | | Reactions Brg 1 2 Bearings | UNPATTI Live 2051 | Dead Snow 708 0 | Wind 0 | Const 0 |
| Image: | 6'7" Application: Floor Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No | | Reactions Brg 1 2 Bearings | UNPATTI Live 2051 | Dead Snow 708 0 | Wind 0 | Const 0 |
| Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal Temperature: Temp <= 100°F malysis Results | Application: Floor Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No | | Brg 1 2 Bearings | Live 2051 | Dead Snow 708 0 | Wind 0 | 0 |
| Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal Temperature: Temp <= 100°F malysis Results | Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No | | Brg 1 2 Bearings | Live 2051 | Dead Snow 708 0 | Wind 0 | 0 |
| Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 mportance: Normal Temperature: Temp <= 100°F malysis Results | Design Method: ASD Building Code: IBC/IRC 20 Load Sharing: No | | 1 2 Bearings | 2051 | 708 0 | 0 | 0 |
| nalysis Results | | | | | | | |
| - | | | | | | | |
| - | | | Bearing L | - | Cap. React D/L lb 26% 708 / 2051 | Total Ld. Case 2759 L | e Ld. Comb. D+L |
| Unbraced 3931 ft-lb 3'3 1/2 | on Allowed Capacity Comb. 2" 12542 ft-lb 0.313 (31%) D+L 2" 9934 ft-lb 0.396 (40%) D+L 1' 6907 lb 0.278 (28%) D+L | Case L L | End Grain 2 - SPF 3 End Grain | 5.500" | 26% 708 / 2051 | 2759 L | D+L |
| L Defl inch 0.053 (L/1383) 3'3 1/2 | 2" 0.153 (L/480) 0.350 (35%) L 2" 0.204 (L/360) 0.350 (35%) D+L | L | | | | | |
| | 2 0.201 (2.000) 0.000 (00.0) 2.2 | | 1 | | | | |
| to exceed 6". 2 Refer to last page of calculations for fas 3 Girders are designed to be supported or 4 Top loads must be supported equally by 5 Top braced at bearings. 6 Bottom braced at bearings. | teners required for specified loads. n the bottom edge only. r all plies. | d distance not | | | | | |
| D Load Type Uniform Self Weight | Location Trib Width Side Top | Dead 0.9 208 PLF 7 PLF | Live 1 623 PLF | Snow 1.15 0 PLF | | st. 1.25 Comme 0 PLF F1 & F2 | nts |
| 2 Refer to last page of calculations for fas 3 Girders are designed to be supported or 4 Top loads must be supported equally by 5 Top braced at bearings. 6 Bottom braced at bearings. 7 Lateral slenderness ratio based on singl ID Load Type Uniform Self Weight 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 structural adequacy of this component based on the design criteria and loadings shown. It is the Server Structural adequacy of the score and the score and the score and the structural adequacy of the score and the score a | teners required for specified loads. n the bottom edge only. r all plies. <u>le ply width.</u> Location Trib Width Side Top | Dead 0.9 208 PLF 7 PLF | | 0 PLF event Manufa Metsä V 301 Me Norwali | eturer Info | 0 PLF F1 & F2 | |

CSD DESIGN BUILD

| Project Poplar Plan Input by: Christine Shivy Job Name: Poplar Plan Job Name: Poplar Sliding Door Hdr. Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level Image: Strain Shive Strain | | Client: | Weaver Development | | Date: | 8/5/2020 | Page 14 of 1 |
|--|---|---|---|----------------------------|--------------------------|--|------------------|
| IsiDesign Address Popular Plan Andress Provide Sliding Door Hdr. Kerto-S LVL 1.750" X 9.250" 2.Ply - PASSED Lord Lord Image: State of the st | | | | | Input by: | | - |
| New Property New Property Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State and Property Image: State a | isDesign | | | | Job Name | | |
| Sliding Door Hdr. Kerto-S LVL 1.750" X 9.250" 2-Piy - PASSED Last Lovel Image: Strate of Difference of Strate | · · · · · · · · · · · · · · · · · · · | | | | | | |
| New manufacture Name 1/28/2 0.12 1/28/2 1/2 0.12 Multi-Ply Analysis 67/7 0/7 0/7 0/7 0/7 Multi-Ply Analysis 0/8 0/8 0/8 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10d Box nails (128/3 ²) at 12° o.c. Maximum end distance not to exceed 6° 0/8 0/8 Scateral piles using 2 rows of 10/8 0/8 0/8 0/8 0/8 Scateral piles using 2 rows of 10/8 0/8 0/8 0/8 0/8 S | Sliding Door Hdr | Kerto-S I VI | 1 750" X 9 25 | 0" 2-Plv | | | |
| Image: Set End Grain 2 SPF End Grain | | | | ~ , | | | |
| Image: Set End Grain 2 SPF End Grain | | | | | | | |
| Image: Set End Grain 2 SPF End Grain | | | | | | | |
| Image: Set End Grain 2 SPF End Grain | | | | | | | |
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| Image: Set End Grain 2 SPF End Grain | | | | | | | |
| Image: Set End Grain 2 SPF End Grain | | | | | | | |
| Image: Set End Grain 2 SPF End Grain | | | | | | | |
| Net 1 SPF End Grain 2 SPF End Grain 1 SP F End Grain 1 SP | • | • | • | • | • | • • | |
| Net 1 SPF End Grain 2 SPF End Grain 1 SP F End Grain 1 SP | | | | | | - | |
| I SPF End Oran 2 SPF End Oran CL J + + + + + + + + + + + + + + + + + + | | | • | • | • | | |
| Image: Second | | • | • | • | • | • | |
| Image: Second | 1 SPE End Grain | | | | 2 SPE End | | |
| Both Null: Ply Analysis Sate nall plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6" Capacity 00% Mail Limit per Foot Widd Limit per Foot 103.7 PLF Widd Limit per Foot 103.7 PLF Widd Limit per Foot 103.7 PLF Widd Limit per Foot 100 Widd Limit per Foot 100 | | | | | 2011 Ella | | |
| Multi-Ply Analysis Easten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not to exceed 6" Company 0.0 % Under Foot 18.3 ° PLF Tred Limit per Fostener 0.1 % Data Combination 0 Data Combination 102 Data Combination 0 Data Combination 102 Data Combination 0 | | | 6'7" | | | | [] []3 1/2" |
| Multi-Ply Analysis Easten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not to exceed 6" Company 0.0 % Under Foot 18.3 ° PLF Tred Limit per Fostener 0.1 % Data Combination 0 Data Combination 102 Data Combination 0 Data Combination 102 Data Combination 0 | / | | 6'7" | | | / | |
| Rate nall plies using 2 rows of 10d Box nails (128x3") at 12" o.c., Maximum end distance not to exceed 6" Capacity 00 % Indian per Food 103.7 PLF Yield Ling per Fachen 19.9 b. Yield Ling per Fachen 1.12" Bis End Diano 3" Land per fachen 1.02 | | | | | | | |
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