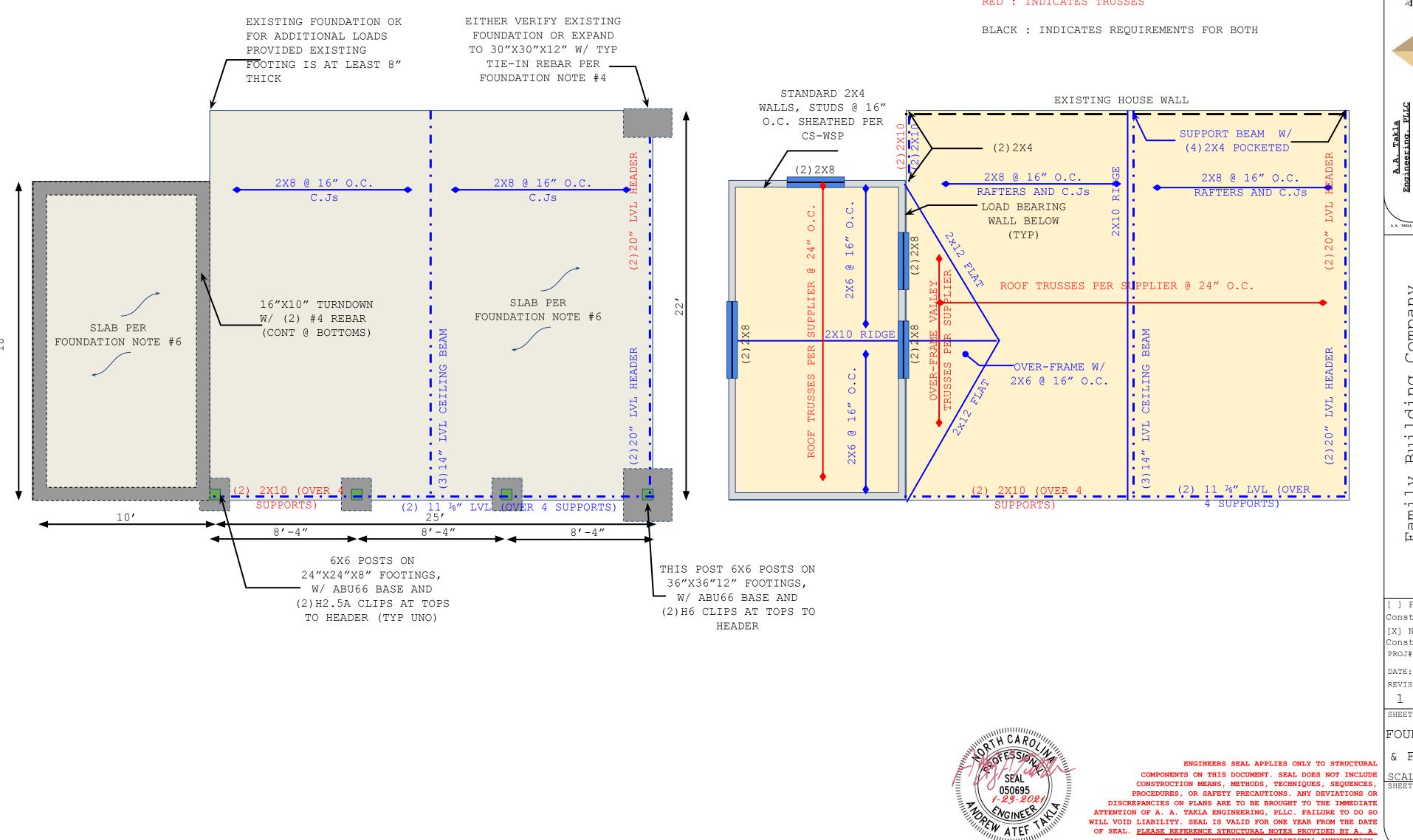
FOUNDATION PLAN



8 \leftarrow



RED : INDICATES TRUSSES

OF SEAL. PLEASE REFERENCE STRUCTURAL NOTES PROVIDED BY A. A.

TAKLA ENGINEERING FOR ADDITIONAL INFORMATION.

<u>A.A. Takla</u> Engineering, <u>PLLC</u> A.A. TAKLA ENGINEERING arina Company \geq Design Fuquay Building Ļ • Ч D V ЧŊ Ч enma ന > \bigcirc Ч ami Ь Гц \sim \sim -[] For Construction [X] Not for Construction PROJ# 0086-21 DATE: 1/23/21 REVISIONS: 1 OF 1 SHEET TITLE: FOUNDATION & FRAMING SCALE: 1/4":1' SHEET: S1 WILL VOID LIABILITY. SEAL IS VALID FOR ONE YEAR FROM THE DATE

ΡE

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Design Loads: (Exceeds minimum requirements per code)

Dead Load Live Load Deflection (PSF) PSF) All Floors 40 LO L/360 Attic Platforms 25 L/360 Ceiling L/360 10 Decks/Balconies 60 L/240Roof L/240 L15 MPH (UON) Wind Load 115 MPH (UON) L/240 General Plan Reading Notes :

1. If any handwritten notes are provided plans must be printed in color or read digitally.

- Handwritten notes in Red and Blue ink shall take 2. priority over all printed texts.
- З. Noted dimensions shall take priority over scaled drawings.
- 4. These general notes shall apply unless otherwise noted in handwriting.

Foundation Notes :

- 1. Assumed soil load bearing capacity = 2000 PSF
- 2. Minimum 28 day f'c of concrete = 3000 PSI
- Foundations to be built in accordance with NCRC 2018, 3. CH 4
- 4. "Tie-In"s shall be (2) 16" long #4 epoxy bonded dowels half embedded mid-depth into existing footings. If no footing exists, omit Tie-in
- 5. Install anchor bolts per R403.1.6.
- 6. All slabs shall be 4" thick, 3000 psi concrete slab on 4" of #57 sub-base w/ a 6 mil vapor barrier (if used in an interior or garage application) w/ 10/10 6x6 welded wire fabric UON.
- 7. All slabs shall be on compacted fill or full depth self consolidated structural fill (#57) (at porches, garages and stem wall slabs UON.
- 8. All suspended slabs on metal pans shall utilize 16GA type B UON.
- 9. Max unreinforced, unbalanced condition of any CMU wall shall be 36". Any foundation wall subjected to 24" of unbalanced fill or more shall be fully grouted. Top course of all foundation walls shall be fully grouted.
- 10. Max CMU pier height to be 4x its least horizontal dimension. All piers shall be fully grouted.
- 11. All piers shall be in the middle 1/3rd of the footing. Min 2" footing projection at each side. Max projection shall be the depth of the footing.

Footing Schedule: $A = 16'' \times 16'' \times 8''$ $E = 36'' \times 36'' \times 12''$ B = 20'' x 20'' x 8'' $F = 40'' \times 40'' \times 12'' w/(3) \# 4 EW @ bottoms$ $C = 24'' \times 24'' \times 10''$ $G = 48'' \times 48'' \times 12'' \text{ w/}$ (4) #4 EW @ bottoms. $D = 30'' \times 30'' \times 12''$ *All rebar in footings to have 3" cover. Header Schedule: King Stud Schedule : 0'-3' wide = (1)2x4 @ EE $A = (2) 2 \times 6 \text{ w} / (1) 2 \times 4 \text{ Jack } 0 \text{ EE}$ B = (2)2x8 w/ (2) 2x4 Jack @ EE3'-6' wide = (2)2x4 @ EE $C = (2) 2 \times 10 \text{ w} / (2) 2 \times 4 \text{ Jack } 0$ 6'-9' wide = (3)2x4 @ EE EE D = (2)2x12 w/(3) 2x4 Jack* If wall is 2x6, Q = E = (2) 9 1/4" LVL king studs shall be w/ (3) 2x4 Js @ EE 2x6. Use 2x6 studs in 2x6 walls. In 2x6 walls use 3 plv headers

Stud Schedule for Walls 10' or Taller (supporting 1 + roof)

_	Interior (Load Bearing)	Exterior (Load Bearing or Non-Bearing)	Non-Bearing (INT)
0'	2x4@ 16" O.C.	2x4@ 16" O.C.	2x4@ 24" O.C.
1'	2x4@ 12" O.C. 2x6 @ 16" O.C.	2x4@ 12" O.C. w/ B&S 2x6 @ 16" O.C.	2x4@ 24" O.C.
2'	2x4@ 12" O.C. 2x6 @ 16" O.C.	2x4@ 12" O.C. w/ B&S 2x6 @ 12" O.C.	2x4@ 16" O.C.
3'	(2)2x4@ 16" O.C. 2x6 @ 16" O.C.	(2)2x4@12"O.C.w/ B&S 2x6 @ 12" O.C. w/ B&S	2x4@ 16" O.C. w/ B
4 '	2x4@ 12" O.C. w/B 2x6 @ 12" O.C.	(2)2x4@12"O.C.w/ B&S 2x6 @ 12" O.C. w/ B&S	2x6 @ 16" O.C.
5'	(2)2x4@ 12" O.C. w/B 2x6 @ 12" O.C. w/B	(2)2x6 @16"O.C. w/ B&S	2x6 @ 16" O.C. w/B (2)2x4@ 16" O.C. w/B
6'	(2)2x4@ 12" O.C. w/B 2x6 @ 12" O.C. w/B	(2)2x6@12"O.C. w/ B&S 2x8 @ 16" O.C. w/ B&S	2x6 @ 12" O.C. (2)2x4@ 16" O.C. w/B
		d _{2x0} n∉,1£xposare B, L/2 blocking at 6' o.c. ve	
	nails @ EE tranning: CS22 stranni	ng to the interior face	of the center
		er stud. Half populate	
nail		populate	
If wa	all supports 2 stories	and a roof, <u>add</u> 2' to	the actual wall
-	ht and apply the table		
		, <u>subtract</u> 2' to the w	all actual wall
	ht and apply the table		
heigl	int and appry the tabi	e.	
-	ning Notes:	e.	
Fram	ing Notes:	to be Spruce Pine Fir	No.2 or better.
<u>Fram</u>	<u>ning Notes</u> : All dimensional lumber		
<u>Fram</u> . E	<u>hing Notes</u> : All dimensional lumber Engineered Beams single	to be Spruce Pine Fir)
<u>Fram</u> • • E	<u>hing Notes</u> : All dimensional lumber Engineered Beams single	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column)
<u>Fram</u> • E • 0 w • A 2	Ming Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi all floor framing per N 2018	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column	s) shall be 3.5"
<u>Fram</u> • E • 0 • W • A 2 C	Ming Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi all floor framing per N 2018 2018	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column - NCRC 2018 CH 5. All Wall	o s) shall be 3.5" framing per NCRC
<u>Fram</u> • E • Ø • Ø • Ø • Ø • Ø • Ø	Ming Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi all floor framing per N 2018 2018	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column NCRC 2018 CH 5. All Wall truss framing per suppl	o s) shall be 3.5" framing per NCRC
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Fram - E - 0 - W - 2 - 2 - 2 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	<pre>Ming Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi all floor framing per N 2018 EH6. All I-joists and floor epecifications and lay all structural steel sh all weld material shall</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fk = 2325 psi. PSL (column NCRC 2018 CH 5. All Wall truss framing per suppl yout. hall be ASTM A-36; Fy= 3 be 70 KSI material.	o s) shall be 3.5" framing per NCRC ier's 36 KSI.
Fram - E 0 W . A 2 C . A . A . A . A	<pre>Ming Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi all floor framing per N 2018 2018 2018 2018 2018 2018 2018 2018</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column CRC 2018 CH 5. All Wall truss framing per suppl rout. hall be ASTM A-36; Fy= 3 be 70 KSI material.	o ns) shall be 3.5" framing per NCRC der's 36 KSI. Welder.
Fram . E . O . A . A . A . A . A . A . A	<pre>Ming Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi all floor framing per N 2018 EH6. All I-joists and floor specifications and lay all structural steel sh all weld material shall all welds to be install mstall double joist un</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column NCRC 2018 CH 5. All Wall truss framing per suppl rout. hall be ASTM A-36; Fy= 3 be 70 KSI material. .ed by a certified AWS w der all walls parallel	o s) shall be 3.5" framing per NCRC ier's 6 KSI. Welder. with joists.
Fram - E - 0 - W - A - A - A - A - A - A - A - A	<pre>hing Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi All floor framing per N 2018 CH6. All I-joists and floor epecifications and lay All structural steel shall all weld material shall All welds to be install nstall double joist un Cypically, load bearing</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column CRC 2018 CH 5. All Wall truss framing per suppl rout. hall be ASTM A-36; Fy= 3 be 70 KSI material.	as) shall be 3.5" framing per NCRC ier's 66 KSI. Welder. with joists. hatched in red.
Fram - E - 0 - 0 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	<pre>hing Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL yide w/ F'b = 1344 psi All floor framing per N 2018 2018 2018 2018 2018 2018 2018 2018</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fk = 2325 psi. PSL (column ACRC 2018 CH 5. All Wall truss framing per suppl yout. hall be ASTM A-36; Fy= 3 be 70 KSI material. ded by a certified AWS w der all walls parallel walls (LBW) are shown the should be assumed to	as) shall be 3.5" framing per NCRC ier's 66 KSI. welder. with joists. hatched in red. be directly
Fram - E - 0 - W - A - A - A - A - A - T N - T - N - S - L - A	<pre>hing Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL vide w/ F'b = 1344 psi all floor framing per N 2018 2018 2018 2018 2018 2018 2018 2018</pre>	to be Spruce Pine Fir ply = 1.75" wide w/ Fk = 2325 psi. PSL (column CRC 2018 CH 5. All Wall truss framing per suppl yout. hall be ASTM A-36; Fy= 3 be 70 KSI material. der all walls parallel walls (LBW) are shown	as) shall be 3.5" framing per NCRC ier's 66 KSI. welder. with joists. hatched in red. be directly
Fram Fram • E • O • W • A • A • A • A • A • A • A • A	<pre>Ming Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL wide w/ F'b = 1344 psi all floor framing per N 2018 2018 2018 2018 2018 2018 2018 2018</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fb = 2325 psi. PSL (column CRC 2018 CH 5. All Wall truss framing per suppl rout. hall be ASTM A-36; Fy= 3 be 70 KSI material. ed by a certified AWS w der all walls parallel walls (LBW) are shown ums should be assumed to or more shall be faster	s) shall be 3.5" framing per NCRC ier's 6 KSI. welder. with joists. hatched in red. be directly
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Fram Fram • E • o ww · A 2 C C · A · A · A · A · A · A · A · A · A · A	<pre>hing Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL vide w/ F'b = 1344 psi all floor framing per N 2018 2018 2018 2018 2018 2018 2018 2018</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fk = 2325 psi. PSL (column ACRC 2018 CH 5. All Wall truss framing per suppl yout. hall be ASTM A-36; Fy= 3 be 70 KSI material. de by a certified AWS w der all walls parallel walls (LBW) are shown ums should be assumed to or more shall be faster of 2" min edge distance shall be fastened with (ce number of 2x4/2x6 stu-	As) shall be 3.5" a framing per NCRC ier's 36 KSI. welder. with joists. hatched in red. be directly wed with ½" dia from top/bottom (4) #9 3" long ads in a stud
Fram Fram • E • O W W • A 2 C C • A • A • A • A • A • A • A • A • A • A	<pre>hing Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL vide w/ F'b = 1344 psi all floor framing per N 2018 2H6. All I-joists and floor specifications and lay all structural steel sh all weld material shall all weld material shall all welds to be install nstall double joist un Cypically, load bearing Wearby girders and bea supporting these EBWS, UON. All LVL beams of 3 ply oolts at 16" o.c. staggered we adge UON. 2 ply LVLs s rood screws UON. Circled numbers indicat column. Strap all stud corizontal CS22 straps.</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fk = 2325 psi. PSL (column ACRC 2018 CH 5. All Wall truss framing per suppl yout. hall be ASTM A-36; Fy= 3 be 70 KSI material. de by a certified AWS w der all walls parallel walls (LBW) are shown ums should be assumed to or more shall be faster of 2" min edge distance shall be fastened with (ce number of 2x4/2x6 stu-	<pre>b as) shall be 3.5" a framing per NCRC dier's 36 KSI. welder. with joists. hatched in red. be directly dia from top/bottom 4) #9 3" long dds in a stud rith (3)</pre>
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Fram Fram • E • o ww · A · A · A · A · A · A · A · A	<pre>hing Notes: All dimensional lumber Engineered Beams single of: LVL= 2600 psi, LSL yide w/ F'b = 1344 psi all floor framing per N 2018 2H6. All I-joists and floor specifications and lay all structural steel sh all weld material shall all welds to be install nstall double joist un Cypically, load bearing Hearby girders and bear supporting these .BWs, UON. All LVL beams of 3 ply bolts at 16" o.c. staggered w edge UON. 2 ply LVLs st yood screws UON. Circled numbers indicat column. Strap all stud forizontal CS22 straps. All beam bearings shall to be 2" min. All hangers shall be st UON. Consult Simpson co angers will be load r</pre>	to be Spruce Pine Fir e ply = 1.75" wide w/ Fk = 2325 psi. PSL (column CRC 2018 CH 5. All Wall truss framing per suppl rout. hall be ASTM A-36; Fy= 3 be 70 KSI material. ed by a certified AWS w der all walls parallel g walls (LBW) are shown ums should be assumed to or more shall be fasten or more shall be fasten for more shall be fasten and be fastened with (the number of 2x4/2x6 stud columns of 4 or more w be no less than 3". All candard, appropriately s catalog or local supplie	As) shall be 3.5" as) shall be 3.5" aframing per NCRC ier's 36 KSI. welder. with joists. hatched in red. be directly and with ½" dia from top/bottom (4) #9 3" long ads in a stud with (3) al other bearing sized face mounted er. High capacity

Lateral Bracing: 1. Unless otherwise noted, lateral bracing is found sufficient and compliant with minimum requirements set forth in NCRC 2018 Table R602.10.2 provided all exterior walls are sheathed at the exterior per CS-WSP, R602.10.3 which includes 2x4 (min) studs at 16" o.c. sheathed with 7/16" OSB w/ (1)8d nail at 6" o.c. edge and (1)8d nail at 12" o.c. field. Typically, required length of CS-WSP at each designated shear walls are shown on plans. . All noted Portal Frame (P-F) shall be compliant with R602.10.1 . All locations noted with "HD" shall be 800 lbs min capacity. Options include 36" long CS16 straps fully populated with 10d nails, centered at interface, Simpson MSTC66B3Z or Simpson LSTA21. Install CS16 strap from top plate to 16" below top of stud. . Minimum corner return in each direction shall be 24" of wood structural panel unless otherwise noted. Walls noted as GB2 shall be framed in accordance with R602.10.2 Wood Deck Notes: . All lumber to be pressure treated Spruce Pine Fir No.2 or better. Band attachments to be installed per NCRC 2018, Appendix M (AM 104.1(1)) Install lateral bracing AM109.1 . Install handrails per AM111.1 . Max Post Heights per AM 108.1 . Stair Stringers per AM 110.1 Screened in and Covered Porch Notes : . All wood deck notes apply. . Posts to be attached to footings, slab or CMU piers using ABU44 or ABU66 post base (or applicable size). . Uplift for posts to headers may be either (2) Simpson LCE4, (2) Simpson GA1 clips with 3" long #9 screws or (4) $\frac{1}{4}$ diameter, 5" long LedgerLoks driven at a 45" degree angle to each side of posts or notched 50% width w/(2) LedgerLoks. Uplift for posts to floor framing may be either (2) Simpson GA1 clips with 3" long #9 screws or (4) ¹/₄" diameter, 5" long LedgerLoks driven at a 45" degree angle to each side. Roof Framing Notes : All roof framing shall be in accordance with NCRC 2018 CH 9. . All dimensional lumber to be Spruce Pine Fur No.2 or better. All flat valleys for over-framed roofs shall be attached using (3) 3" long #9 screws at each main rafter. Sheath with 7/16" OSB w/ 8d

than

- 1:
- 1.

1/3rd height eave to ridge up from eave nailed with (5) 10d nails at each end, UON Roof trusses per others; installation per supplier guidelines.

nails at 6" o.c. edge and 12" o.c. field.

. All rafter ties to be installed no higher

General Construction Notes 1. All temporary shoring, means and methods are the responsibility of the contractor. 2. All dimensions to be verified by the contractor in the field. 3. Takla Engineering assumes no responsibility for safety of project delivery. 4. Any questions pertaining to structural components should be immediately brought to the attention of Takla Engineering. 5. Limitations: Services provided are in accordance with the standard of practice for structural engineering and within the limits imposed by scope, schedule and budget. The determinations contained in this report are based on conditions observed at the time of the evaluation. No guarantees or warranties, expressed or implied, under this Agreement or otherwise, shall be construed in connection with services provided. Sequencing, shoring, means and methods of construction are considered beyond the scope of this design. Takla Engineering shall not be responsible for any safety aspect of Work. Abbreviations: Concrete • CONC Continuous · CONT. Ceiling Joists • C.J Conc Masonry CMU • Unit CS-WSP • Sheathing per . DIA R602.10.3 Diameter • DBL DJ / DR Double . Double Joist / • ΕQ Rafter Equal • ΕE Each End • FJ FND • Floor • FΤ Joist . FTG Foundation • GB Floor GRT . • HGR Truss • HD Footing • T.BW Gypsum Board (shear • MANUF wall) Girder Roof Truss • NTS Hanger • 0.C. Holddowns . O.F. Load Bearing PF Wall ΡL • Manufacturer • Р.Т. Not To . R.T.

Scale On

Over-framed

Point Load

Treated Roof

RTH CARO

SEAL

050695

AGINEER

Stud Column

Pressure

(roof) Portal

Center

Frame

Truss

Similar

Staggered

Supplier

Unless Oth

Typical

SC

SIM

STGR

SUP

TYP.

UON

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