DESIGN LOADS

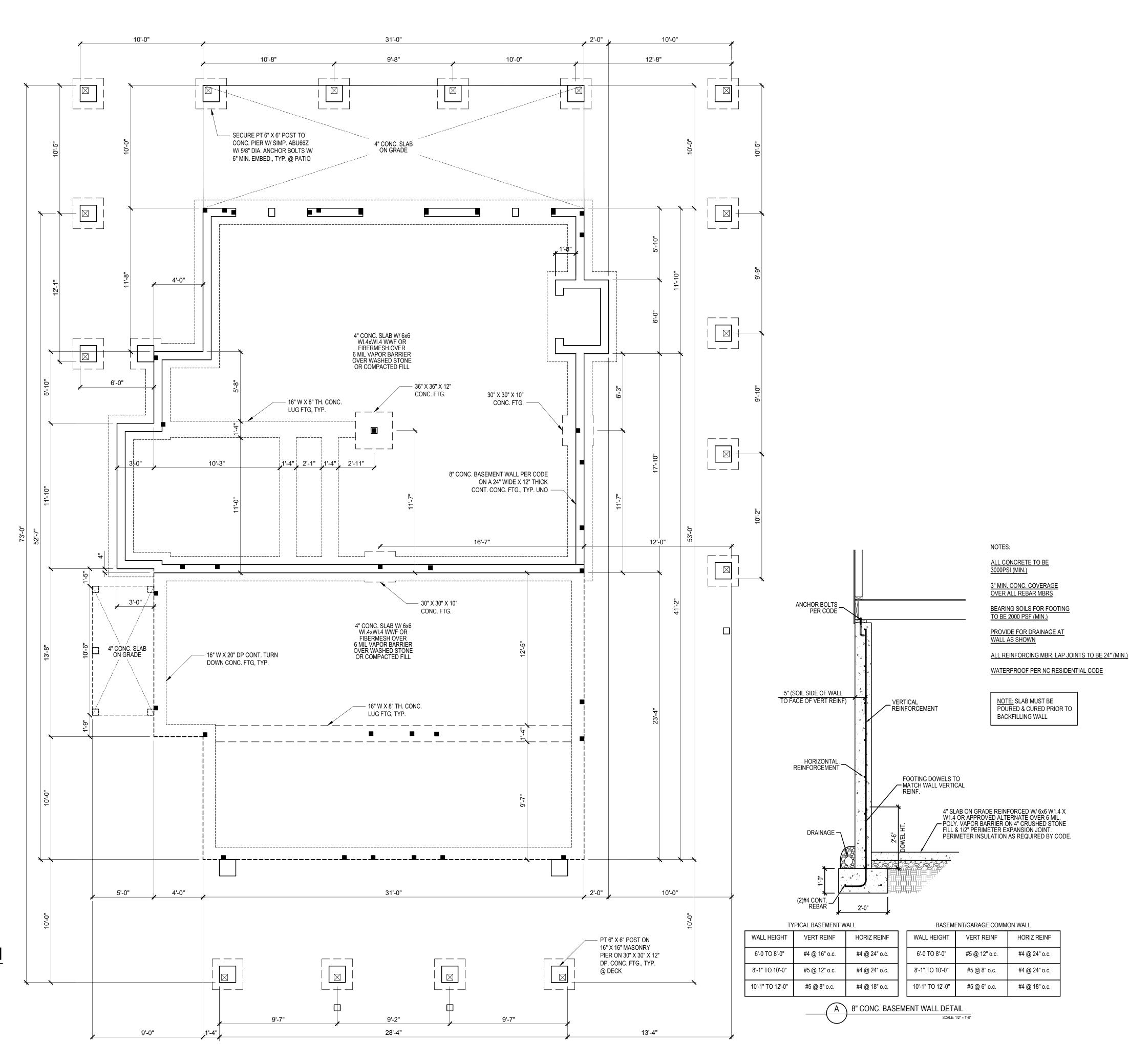
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	. ,	· · /	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	L/240	
ATTIC (w/ storage)	20	10	L/240	L/180	
ATTIC (no access)	10	5	L/240	L/180	
EXTERNAL BALCONY	40	10	L/360	L/240	
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)				
SEISMIC	BASED ON SEISMIC ZONES A, B & C				

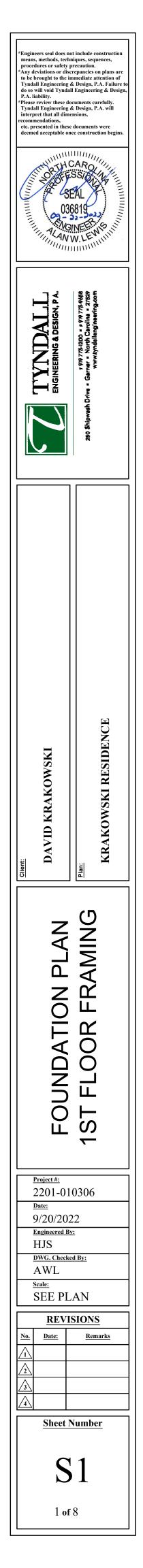
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- 3) ALL LUMBER SHALL BE SYP #2 (UNO) ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (I.E. iLEVEL MICROLAM)
- (I.E. ILEVEL MICROLAM)
 ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
 4) ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS
 @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2).
- AND ROUZ.7(2).
 ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- 6) REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- 7) ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 Fy = 50 KSI MIN. (UNO) 8) ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, fc = 3000 PSI MIN.
-) PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 11) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12"
 FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION.
- ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY. 12) PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- 13) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 14) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC. 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST
- HORIZONTAL DIMENSION. 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE
- FOUNDATION. 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

FOUNDATION PLAN

1/4" = 1'-0"





DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION			
	()	()	LL	TL		
FLOOR (primary)	40	10	L/360	L/240		
FLOOR (secondary)	40	10	L/360	L/240		
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WIND LOAD	BASED ON 120 MPH (EXPOSURE B)					
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BASEMENT PLAN 1/4" = 1'-0"

PT 6" X 6" POSTS W/ (2)SIMP. LCE4Z @ CORNER POSTS & (2) SIMP. AC6Z @ INTERMEDIATE POSTS, TYP. —

PT *(4) 2 X 12

_____ _ _ _ _ _

PT 2 X 10 @ 16" OC

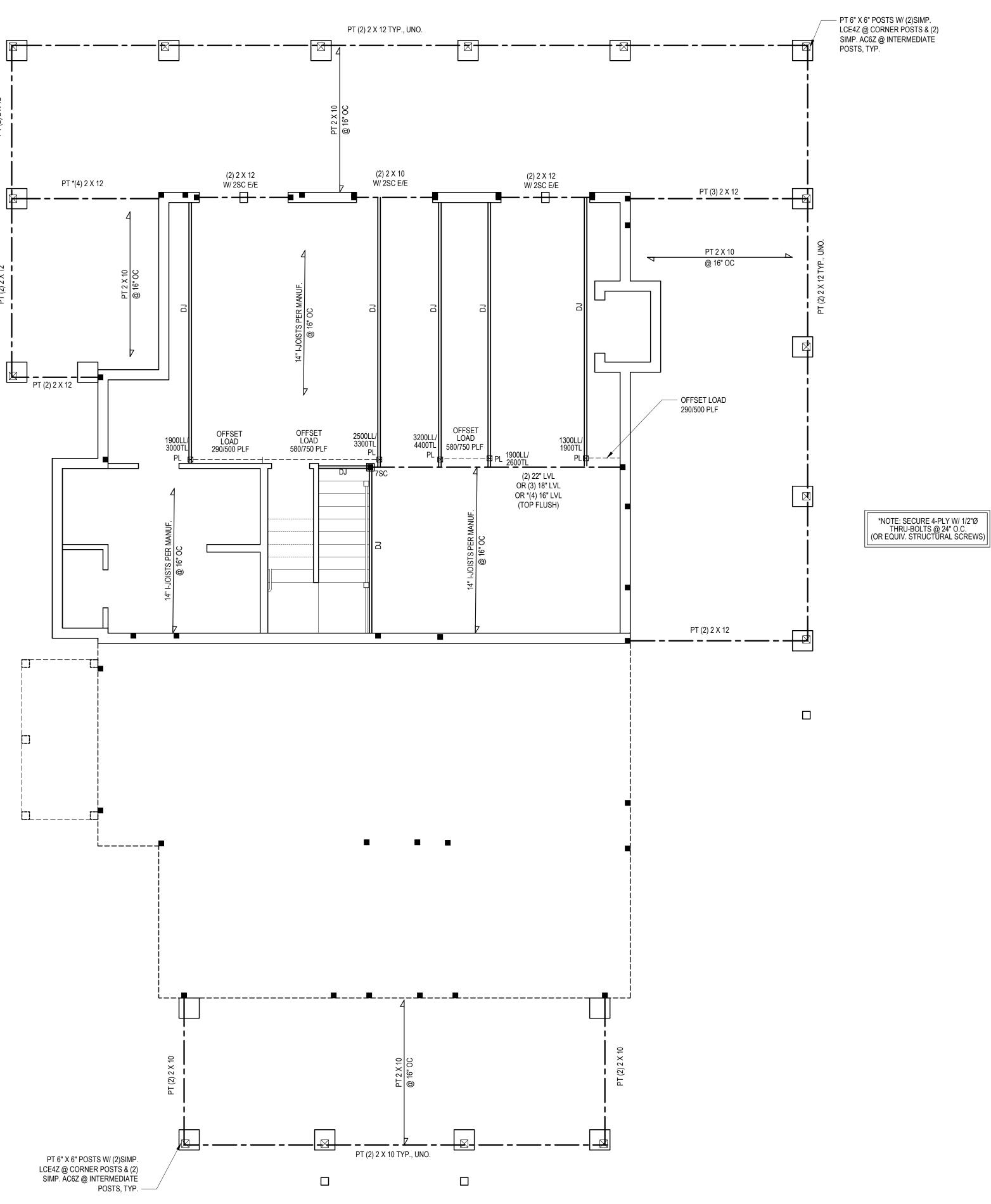
L

12

PT (2) 2 X 12

L_____

3:22 PM



means, methods, to procedures or safe *Any deviations or - to be brought to th Tyndall Engineeri do so will void Typ P.A. liability. *Please review these Tyndall Engineeri interpret that all d recommendations, etc. presented in th	discrepancies on plans are the immediate attention of ng & Design, P.A. Failure to adall Engineering & Design, e documents carefully. ng & Design, P.A. will imensions, nese documents were e once construction begins.
TYNDALL ENGINEERING & DESIGN, P.A.	7 919 772-1200 = \$ 919 772-9658 250 Shipwesh Orive = Gerner = North Caroline = 27829 www.tyndellengineering.com
Client: DAVID KRAKOWSKI	Plan: KRAKOWSKI RESIDENCE
RASEMENT HEADER	OOR F
Date: 9/20/20 Engineered HJS DWG. Che AWL Scale: SEE P REV 1 2 3 4	<u>By:</u> cked By:

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	()	(* 5.)	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
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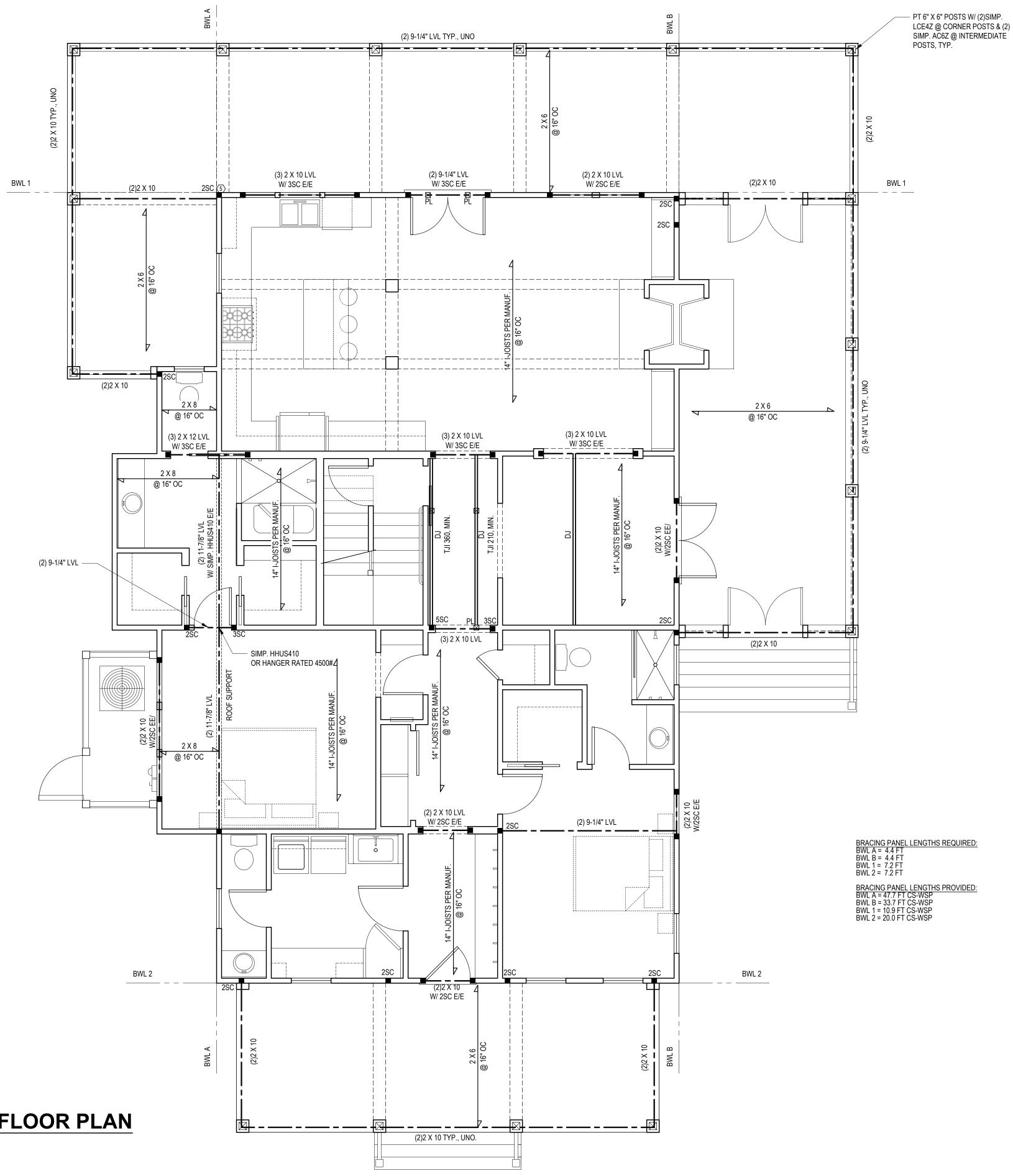
STRUCTURAL SHEATHING NOTES

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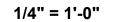
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 67% OF WALL HEIGHT
 - 30" ADJACENT TO OPENINGS GREATER THAN
 67% AND LESS THAN 85% OF WALL HEIGHT.
 - 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
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5 MINIMUM 800# HOLD-DOWN DEVICE



FIRST FLOOR PLAN



M 3:22

/2022

DATE:9/

PLOT

LAST

SMAHESH

ä SAVED

do so will void Tyndal P.A. liability. *Please review these do Tyndall Engineering & interpret that all dime recommendations, etc. presented in these	niques, sequences, orceaution. rrepancies on plans are nmediate attention of & Design, P.A. Failure to I Engineering & Design, oruments carefully. & Design, P.A. will ensions,
TYNDALL ENGINEERING & DESIGN, P.A.	r 919 778-1200 = ⊭ 919 778-9658 250 Shipwash Drive = Garner = North Carolina = 27829 www.tyndallengineering.com
Client: DAVID KRAKOWSKI	Pian: KRAKOWSKI RESIDENCE
1ST FLOOR HEADER	2ND FLOOR FRAMING
$ \underline{ No. } \underline{ Date:} $ $ \underline{ 1} $ $ \underline{ 2} $ $ \underline{ 3} $ $ \underline{ 4} $	22 <u>AN</u> <u>SIONS</u> <u>Remarks</u> <u>Number</u> 3

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	(••••)	(* 51)	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
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STRUCTURAL SHEATHING NOTES

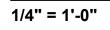
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BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS

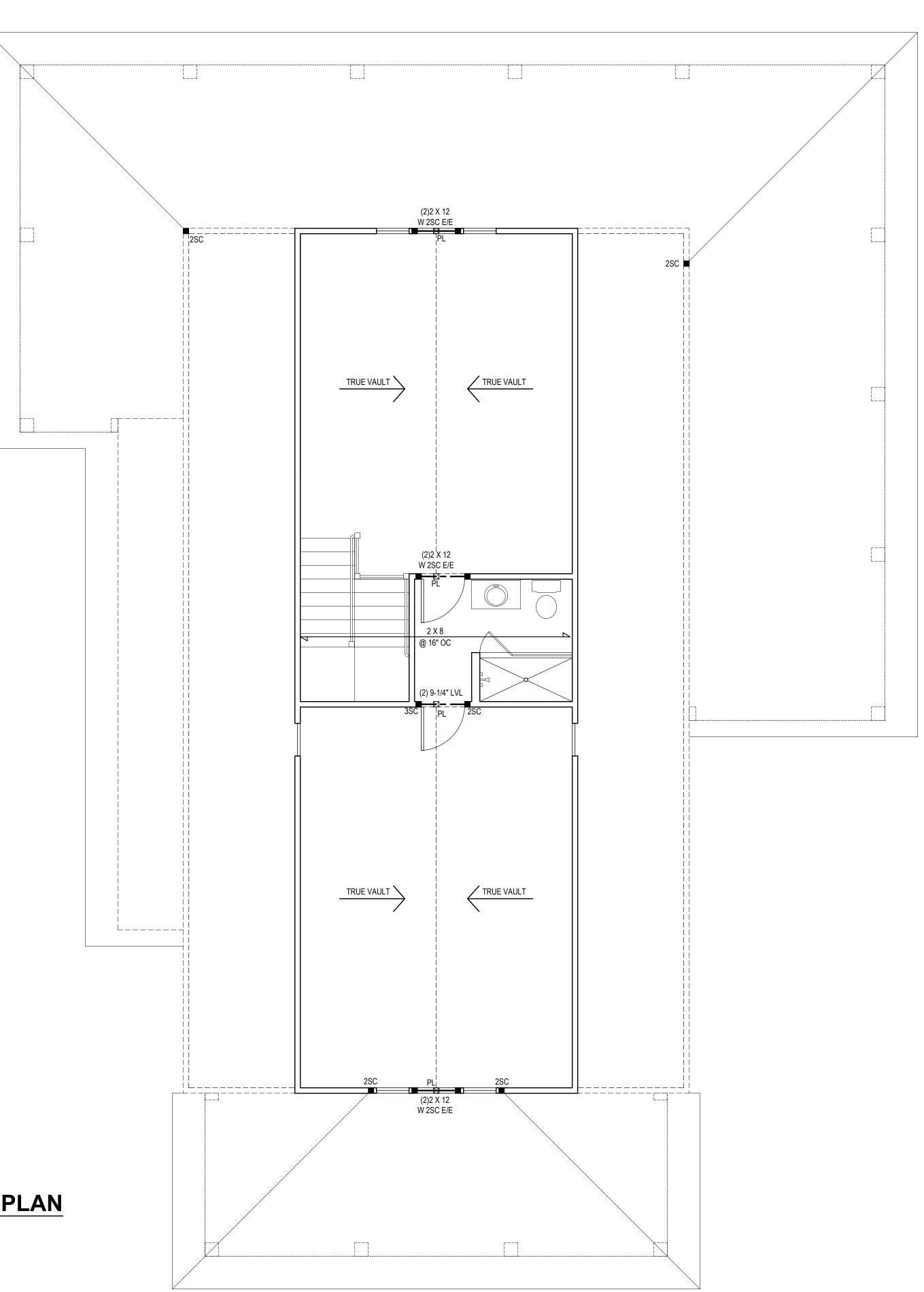
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5 MINIMUM 800# HOLD-DOWN DEVICE

SECOND FLOOR PLAN

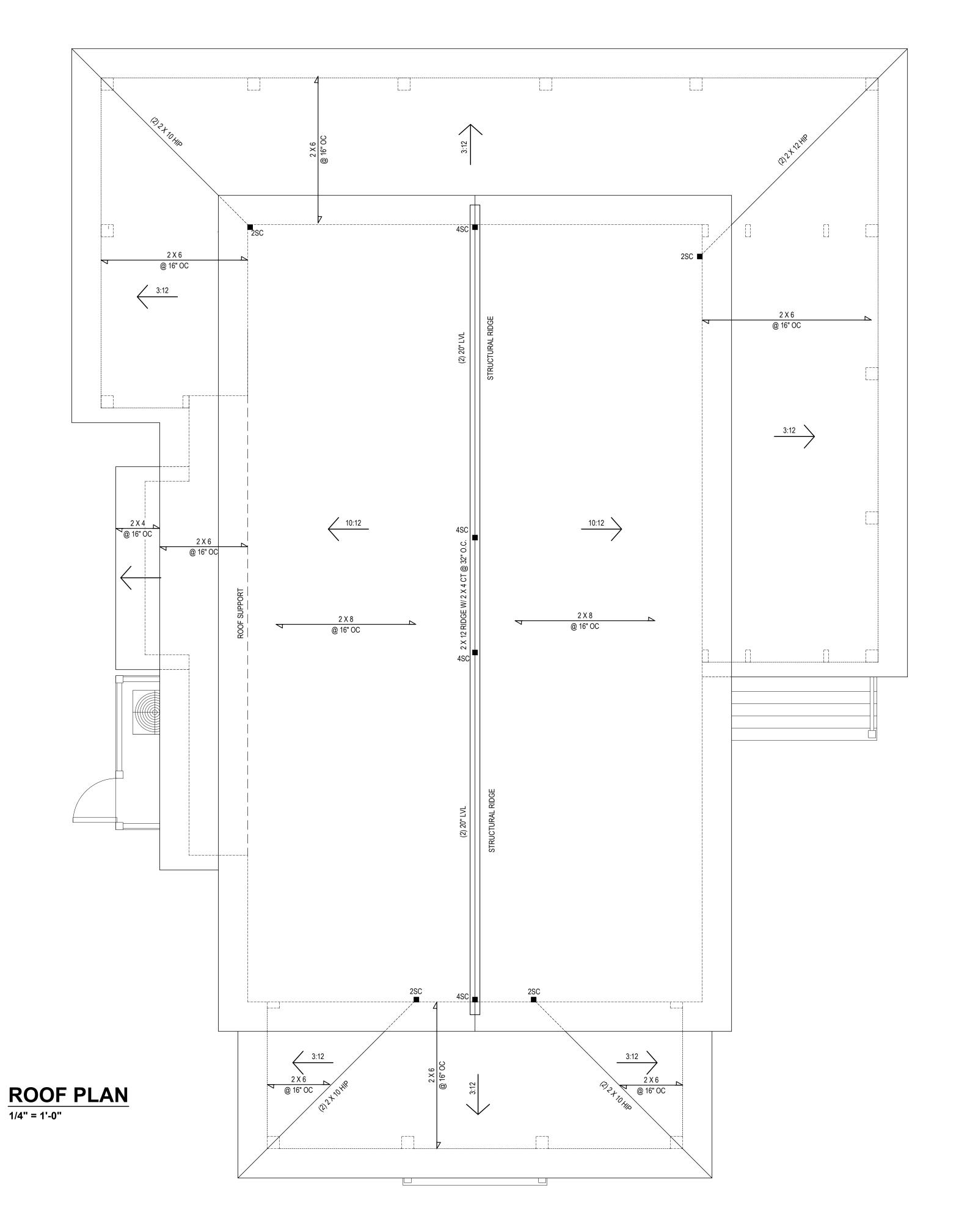






do so will void Tyndal P.A. liability. *Please review these do Tyndall Engineering of interpret that all dimo recommendations, etc. presented in these	niques, sequences, precaution. crepancies on plans are nmediate attention of & Design, P.A. Failure to Il Engineering & Design, ocuments carefully. & Design, P.A. will ensions, e documents were tee construction begins.		
TYNDALL ENGINEERING & DESIGN, P.A.	≠ 919 778-1200 = # 919 778-1200 = # 919 778-9668 250 Shipwash Drive = Garner = North Carolina = 27829 www.tyndallengineering.com		
client: DAVID KRAKOWSKI	Plan: KRAKOWSKI RESIDENCE		
2ND FLOOR HEADER	2ND FLR. CLG. FRAMING		
Project #: 2201-010306 Date: 9/20/2022 Engineered By: HJS DWG. Checked By: AWL Scale: SEE PLAN REVISIONS			
No. Date: 1	' •		

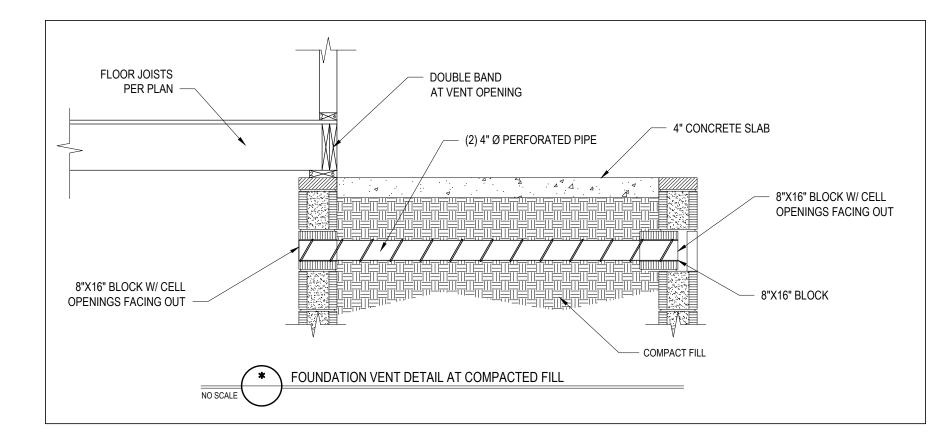
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client: DAVID KRAKOWSKI	Plan: KRAKOWSKI RESIDENCE
ROOF PLAN	
	22 <u>d By:</u> AN <u>SIONS</u> <u>Remarks</u>

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$ \frac{1}{\sqrt{2}} $			ATTIC	C (no access)		10	5	L/240	L/180				DBL	= DOUBLE
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9 Electron explorementational prediction with available state with the indication of the indicati	ALL	_ STEEL PIPE SHALL B	E ASTM A53 GR	ADE B.									*	
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11 POULAI I/OUR MANUAL-LAND * MULETENDOR IN USE ATTACHED TO 1 12 WALL ADDORG - CADDING VALUES: ADDULTS 13 WALL ADDORG - CADDING VALUES: ADDULTS 14 DECOMPTONE SALUES: ADDULTS 15 DAVID SERVICES STORE VALUES: 16 USUSSOFT FOR ROOP FITCHES 91/2 TO 151/2 FOR ROOP FITCHES 91/2 TO 151/2 17 WEAL HAD DOE FIRMING OF ALL WALLS OVER 10/2 TO 151/2 ADDULTS 18 LUSSSOFT FOR ROOP FITCHES 91/2 TO 151/2 ADDULTS 19 PROVIDE CONTINUOUS SHEATHING PER SECTION 002 10.3 OF THE 2018 NCRC. POOT SLOPES FROM 21/2 THROUGH 41/2, BUILDER TO INSTALL 2 LAYERS OF 158 FELT PAPER. 19 PROVIDE CONTINUOUS SHEATHING PER SECTION 002 10.3 OF THE 2018 NCRC. POOT SLOPES FROM 21/2 THROUGH 41/2, BUILDER TO INSTALL 2 LAYERS OF 158 FELT PAPER. 19 PROVIDE CANTINUOUS SHEATHING PER SECTION 002 10.3 OF THE 2018 NCRC. POOT SLOPE 19 PROVIDE CANTINUOUS SHEATHING PER SECTION 002 10.3 OF THE 2018 NCRC. POOT SLOPE 19 PROVIDE ALMINIM FELTOR PRESCRIPTINE SHALL ON PROVIDENT ATTOP AND BOTTON OF PORCH COLUMINS. (UN O.) D. 2 x 6 DAGONAL VERTIC 20 MAXAMUM MSORY PER HEIGHT SHALL NOT EXCEED POUR TIMESTIC LAST PROVIDENT TO PART BOTTON ATTOP AND SOLIDAND FOR COLUMINS. (UN O.) D. <						N THE MIDDLE THIR	D OF THE WIDTH (OF THE PLATE.					,	THESE METHODS:
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13) FOR ROD S LOPES HOW 210 THROUGH 4/12, BUILDER TO INSTALL 2 VARES OF 15# FELT PAPER. 14) REFER TO SECTION R602 3 FOR FRAMING OF ALL WALLS OVER 10/-0' IN HEIGHT. 15) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.103 OF THE 2018 NCRC. 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION. 17) REFER TO TABLE N1102 IF OR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA. 18) PSL COLUMNS DESIGNED WITH MAXIMUM HEIGHT OF 9-0' (U.N.O) 19) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS, (U.N.O.) 20) MAXIMUM MASONRY PER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION. 21) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS. CLIMATE E FENESTRATION REVALUE AVAILUE AVAILUE AVAILUE AVAILUE REVALUE REVENTION CELING TO RESTRATION CELING TO RESTRATION SILON TO RESTRATION SILON TO RESTRATION SILON RESTRATION <td>WA ROO 39.0 36.0 18.0</td> <td>LL CLADDING SHALL E OF VALUES BOTH POS 0 LBS/SQFT FOR ROOI 0 LBS/SQFT FOR ROOI 0 LBS/SQFT FOR ROOI</td> <td>BE DESIGNED F(SITIVE AND NEG F PITCHES 0/12 F PITCHES 1.5/12 F PITCHES 6/12</td> <td>ATIVE SHALL BE AS F(TO 1.5/12 2 TO 6/12</td> <td></td> <td>(LBS/SQFT) OR GR</td> <td>EATER POSITIVE A</td> <td>ND NEGATIVE PF</td> <td>RESSURE.</td> <td></td> <td></td> <td></td> <td>Β.</td> <td>BOTH DIRECTIO AT A POINT NOT TOP OF THE PO 45° AND 60° FR(TO THE POST AI</td>	WA ROO 39.0 36.0 18.0	LL CLADDING SHALL E OF VALUES BOTH POS 0 LBS/SQFT FOR ROOI 0 LBS/SQFT FOR ROOI 0 LBS/SQFT FOR ROOI	BE DESIGNED F(SITIVE AND NEG F PITCHES 0/12 F PITCHES 1.5/12 F PITCHES 6/12	ATIVE SHALL BE AS F(TO 1.5/12 2 TO 6/12		(LBS/SQFT) OR GR	EATER POSITIVE A	ND NEGATIVE PF	RESSURE.				Β.	BOTH DIRECTIO AT A POINT NOT TOP OF THE PO 45° AND 60° FR(TO THE POST AI
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	3	0.35	0.55	0.30		13 + <u>2.5</u> h		19	5/13	0	5/13			
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	5	0.35	0.55	NR				30 ^g	10/15	10	<u>10/19</u>			

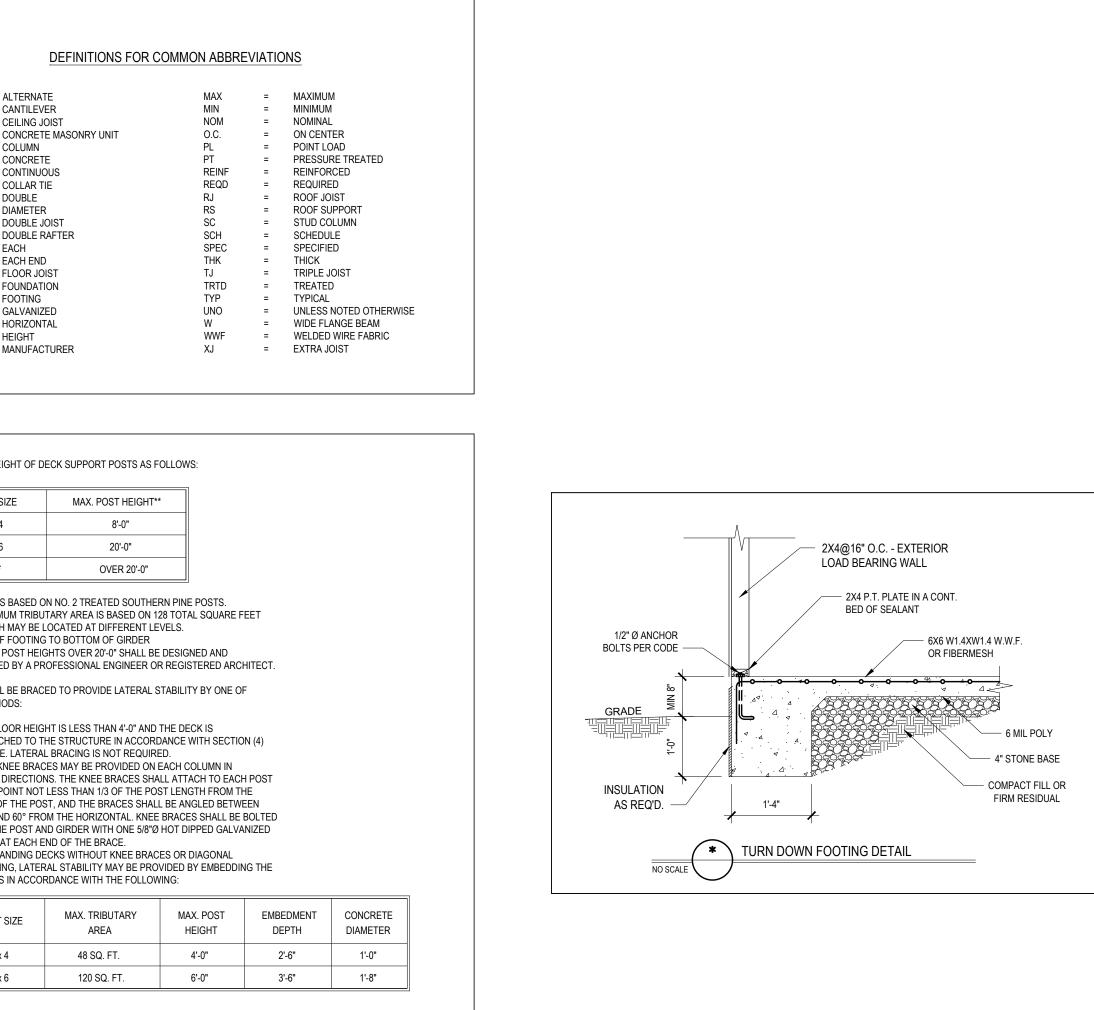
		TABLE NTIUZ. I CLIMATE ZONES 3-5
NO SCALE	\bigcirc	a. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.
		b. THE FENESTRATION U-FACTOR COLUMN EXCLUDED SKYLIGHTS. THE SOLAR HEAT GAIN COEFFICIENT
		(SHGC) COLUMN APPLIES TO ALL GLAZED FENESTRATION.
		C. *10/15* MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME
		OR R-15 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CRAWL SPACE WALL.
		d. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM
		OF THE FOOTING OR A MAXIMUM OF 24" BELOW GRADE WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION
		SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24", WHICHEVER IS LESS. R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS.
		e. DELETED
		f
		g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM.
		h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION, SO "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED
		SHEATHING. "15+3" MEANS R-15 CAVITY INSULATION. PLUS R-3 INSULATED SHEATHING. IF STRUCTURAL SHEATHING COVERS 25% OR LESS OF THE EXTERIOR.
		INSULATING SHEATHING IS NOT REQUIRED WHERE THE STRUCTURAL SHEATHING IS USED. IF STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT
		OF THE EXTERIOR, SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2. "13 + 2.5" MEANS R-13 CAVITY
		INSULATION PLUS R-2.5 SHEATHING.
		i. FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL.
		j. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.55 SHALL BE
		PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.
		k. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A SHGC NO GREATER THAN 0.70 SHALL BE
		PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.
		I. R-30 SHALL BE DEEMED TO SATISFY THE CEILING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. OTHERWISE R-38 INSULATION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1 INCH OF THE ATTIC ROOF DECK.
		m, TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF; THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE.
		n. R 19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2 × 6 FRAMING CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED
		AND INSTALLED IN A 2X4 WALL IS NOT DEEMED TO COMPLY.
		<u>9. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.</u>



1600 SQ. FT. OF ATTIC / 300 = 6 SQ. FT. INLETS/OUTLETS REQUIRED CALCULATION BASED ON VENTILATORS USED AT LEAST 3'-0" ABOVE THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.

CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

* ATTIC VENTILATION CALCULATION NO SCALE



L CROSS BRACING MAY BE PROVIDED IN TWO AR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL JRE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. BE ATTACHED TO THE POSTS WITH ONE 5/8"Ø HOT ZED BOLT AT EACH END OF EACH BRACING MEMBER. ES IN COASTAL REGIONS, SEE CHAPTER 46.

