1.	GENERAL
1.01.	METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
1.02.	COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND GEOTECHNICAL REPORT. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS.
2.	MATERIAL STRENGTHS
2.01.	CONCRETE (fc @ 28 DAYS)         MAX w/c RATIO           FOOTINGS.         .4,000 PSI         0.50           SLAB ON GRADE         .3,000 PSI         0.43           TOPPING SLAB         .3,000 PSI         0.43
2.02.	REINFORCING STEEL (Fy) REBAR (ASTM A615)
2.03.	STRUCTURAL STEEL (Fy)WF SHAPES (ASTM A992)CHANNELS, ANGLES, PLATES & OTHER SHAPES (ASTM A36) 36,000 PSISQUARE & RECTANGULAR HSS (A500 GRADE B)46,000 PSIROUND HSS (A500 GRADE B)ALL BOLTS U.N.ANCHOR RODS (ASTM F1554).GRADE 36WELDING ELECTRODES.
2.04.	LIGHT GAGE STEEL (Fy) ROOF DECK
2.05.	MASONRY (MINIMUM COMPRESSIVE STRENGTH PER UNIT STRENGTH METHOD) NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (TYPE M OR S MORTAR)
2.06.	SOIL/SUBGRADE PROPRETIES ("SOIL TYPE") ALLOWABLE SOIL BEARING PRESSURE
3.	SUBMITTAL
3.01.	SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO DRYE-MCGLAMERY ENGINEERING FOR REVIEW AS REQUIRED PER PROJECT SPECIFICATIONS.
3.02.	DRYE-MCGLAMERY ENGINEERING SHALL HAVE 15 DAYS AFTER THE DATE OF RECEIPT OF THE SUBMITTAL FOR REVIEWING AND COMMENTING ON ANY SUBMITTALS.
3.03.	THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL REVIEW SUBMITTAL PRIOR TO SUBMITTING THEM TO DRYE-MCGLAMERY ENGINEERING. HIGHLIGHT, CLOUD, OR OTHERWISE INDICATE ITEMS THAT DEVIATE FROM THE CONTRACT DOCUMENTS ON THE SUBMITTAL.
4.	FOUNDATION AND SLAB ON GRADE
4.01.	SOIL BEARING CAPACITY IS 2000 PSF. BEARING CAPACITY TO BE VERIFIED BY A THIRD PARTY DURING CONSTRUCTION.
4.02.	CENTER COLUMN FOOTINGS ON COLUMN CENTERLINES UNLESS NOTED OTHERWISE.
4.03.	WALL FOOTINGS ARE CENTERED ON FOUNDATION WALL UNLESS NOTED OTHERWISE.
4.04.	COLUMN AND WALL FOOTINGS SHALL BEAR ON ORIGINAL, UNDISTURBED SOIL OR COMPACTED FILL AS DEFINED IN SOIL REPORT, BUT NOT HIGHER THAN THE MINIMUM DEPTH SHOWN ON DRAWINGS.
4.05.	CONTRACTOR TO KEEP EXCAVATIONS DRY AND PROTECTED FROM FROST AT ALL TIMES DURING THE FOUNDATION CONSTRUCTION.
4.06.	FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT OR ASSUMED VALUES SHALL BE REPORTED TO THE ARCHITECT, GEOTECHNICAL ENGINEER AND DRYE-MCGLAMERY ENGINEERING, BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
4.07	SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND NOTES AND SHALL HAVE CONTRACTION JOINTS INSTALLED PER PLAN. CONTRACTION JOINTS SHALL BE TYPICALLY PROVIDED SUCH THAT NO AREA BOUNDED BY CONSTRUCTION AND/OR CRACK CONTROL JOINTS CONTAINS MORE THAN 450 SF OF SLAB AREA. THE SPACING OF THE JOINTS DOES NOT EXCEED 36 TIMES THE SLAB THICKNESS, AND THE RESULTING ASPECT RATIO OF THE DIMENSIONS OF SLAB AREA DOES NOT EXCEED 1.5 TO 1.0. CRACK CONTROL JOINTS SHALL BE MADE USING A "SOFT-CUT" CONCRETE SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH. THE CRACK CONTROL JOINTS SHALL BE A MAX. WIDTH OF 1/8" WIDE AND A MINIMUM DEPTH OF 1/3 THE SLAB THICKNESS.

REINFORCED CONCRETE 5.01. CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER: CONCRETE EXPOSED TO WEATHER #6 THROUGH #18 BAF #5 BAR, W31 OR D31 CONCRETE NOT EXPOSED #14 AND #18 BARS #11 BAR AND SMALL 5.02. SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED SO THAT THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER AND THEY DO NOT DISPLACE REINFORCING. 5.03. DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, WITHOUT PRIOR APPROVAL OF THE DRYE-MCGLAMERY ENGINEERING. 5.04. BARS SHALL BE SPLICED PER DETAILS WHERE PROVIDED. OTHERWISE BARS SHALL BE CLASS "B" LAP SPLICED IN LONGEST CONVENIENT LENGTHS WITH ADJACENT LAPS STAGGERED 3'-0" MINIMUM. BARS SHALL BE CONTACT SPLICED OR SPACED A MINIMUM DISTANCE APART PER CRSI "REINFORCEMENT ANCHORAGES AND SPLICES". AND A MAXIMUM DISTANCE APART OF THE LESSER OF. 1/5 THE LAP LENGTH OR 6 INCHES. 5.06. CLEAR SPACING BETWEEN REBARS (UNLESS SHOWN TO BE CONTACT LAP SLICED) SHALL BE A MINIMUM OF 1-1/2 BAR DIAMETER, 1-1/2", OR 1-1/3 TIMES THE AGGREGATE SIZE, WHICHEVER IS GREATER. 5.07. ALL HOOKS NOT NOTED SHALL BE ACI STANDARD HOOKS. 5.08. NO TACK WELDING WILL BE PERMITTED ON GRADE 40 OR 60 STEEL. 5.09. CONCRETE TOPPING SHALL BE REINFORCED WITH 6X6-W1.4XW1.4 WWF UNLESS NOTED OTHERWISE. SEE PLAN. 5.10. ANCHOR BOLTS SHALL BE SET AND CONCRETE BEARING SURFACE FOR COLUMNS SHALL BE FINISHED TO THE FOLLOWING TOLERANCE: A. ELEVATION OF CONCRETE SURFACE PLUS OR MINUS 3/8" ELEVATION TOP OF ANCHOR BOLTS PLUS 1" TO MINUS 3/8". OUT OF POSITION OF ANCHOR BOLTS PLUS OR MINUS 1/8" 5.11. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DIMENSIONS OF CONCRETE REVEALS, NOTCHES, REGLETS, DRIPS, PADS, CURBS, CHAMFER BLOCKOUTS AT DOORWAYS, AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. 5.12. GROUT FOR BASE PLATES SHALL BE NONSHRINKABLE, NON-METALLIC CONFORMING TO ASTM C827, AND SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PREGROUTING OF BASE PLATES WILL NOT BE PERMITTED. GROUT BASEPLATES AFTER TORQUE IS ACHIEVED ON ALL ANCHOR BOLTS. 5.13. REINFORCE SLAB-ON-GRADE AT ALL PENETRATIONS AND AT RE-ENTRANT CORNERS. PLACE #3x3'-0" AROUND FLOOR DRAINS. PLACE #4x4'-0" (MIN.) AT RE-ENTRANT CORNERS. HOLD REINFORCING 1" CLR FROM TOP OF CONCRETE. 6. MASONRY 6.01. REFER TO "MASONRY LINTELS SCHEDULE" FOR LINTEL DESIGN TYPICAL. 6.02. MASONRY UNITS SHALL BE OF STRUCTURAL LIGHTWEIGHT CONCRETE CONFORMING TO ASTM C90 TYPE N-1 (MAINTAIN MOISTURE CONTROL DURING STORAGE AND ERECTION AT JOB SITE). 6.03. PROVIDE HORIZONTAL LADDER-TYPE WIRE REINFORCING AT 16" C/C MAXIMUM. 6.04. WHERE CONCRETE FILLED BOND BEAMS INTERSECT AT CORNERS AT DIFFERENT ELEVATIONS, RUN EACH BOND BEAM AROUND CORNER FOR TWO BLOCK LENGTHS MINIMUM BEFORE TERMINATING. 6.05. WHERE CONCRETE FILLED BOND BEAMS INTERSECT PARALLEL AT DIFFERENT ELEVATIONS, LAP BOND BEAM FOUR BLOCK LENGTHS MINIMUM BEFORE TERMINATING. 6.06. VERTICAL MASONRY CONTROL JOINTS SHALL BE PROVIDED IN MASONRY WALLS AT 25 FEET MAXIMUM. SEE ARCHITECTURAL DOCUMENTS FOR LOCATION OF CONTROL JOINTS AND REFER TO TYPICAL CMU DETAILS FOR CONTROL JOINT CONSTRUCTION REQUIREMENTS. 6.07. LINTEL UNITS SHALL BE PROVIDED TO SPAN ACROSS OPENINGS IN CONCRETE MASONRY. PROVIDE LINTELS PER TYPICAL CMU DETAILING REQUIREMENTS. 6.08. SPLICES IN HORIZONTAL AND VERTICAL REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS OR A MINIMUM OF 24", WHICHEVER IS GREATER. 6.09. PROVIDE A BOND BEAM WITH 2-#5 CONTINUOUS BENEATH ALL SLAB OR BEAM BEARINGS IN MASONRY WALLS NOT GROUTED SOLID (ALL CELLS FILLED). 6.10. ALL HEAD AND BED JOINTS SHALL BE FULL. 6.11. WHERE HEATING MAINS OR OTHER PIPING PASS THROUGH MASONRY WALLS A STEEL PIPE SLEEVE SHALL BE PLACED IN THE WALL. 6.12. TEST PRISMS TO VERIFY MASONRY WALL ASSEMBLY STRENGTH SHALL BE MADE AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. 6.13. PRISMS SHALL BE TESTED BY AN APPROVED TESTING LABORATORY. 6.14. SLUMP OF GROUT SHALL BE IN THE RANGE OF 7 TO 11 INCHES AND SHALL BE RECONSOLIDATED BY THE MECHANICAL VIBRATION PER ACI 530.1 TYP. 6.15. VERTICAL GROUTING OF MASONRY WALL SHALL BE PER TYPICAL CMU DETAILS. HORIZONTAL GROUTING OF MASONRY WALLS SHALL BE A CONTINUOUS PROCEDURE BETWEEN CONTROL JOINTS.

RS	2 IN
WIRE AND SMALLER.	1 1/2 IN
TO EARTH OR WEATHER	
	1 1/2 IN
ΞR	1 IN

TRUSS NOTES:

- THE TRUSS ENGINEER SHALL DESIGN THE TRUSSES AND GIRDER TRUSSES FOR THE LOADS INDICATED ON THE STRUCTURAL DRAWINGS. SPECIAL LOAD CONSIDERATIONS, SUCH AS OVERFRAMING, ETC. SHALL BE ACCOUNTED FOR IN THE DESIGN.
- THE TRUSS ENGINEER SHALL ACCEPT FULL RESPONSIBILITY FOR THE DESIGN. THE TRUSS ENGINEER SHALL PREPARE DESIGN CALCULATIONS AND DRAWINGS, WHICH SHALL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.
- THE DESIGN SHALL INCLUDE INTERNAL CONNECTIONS AND CONNECTIONS BETWEEN TRUSSES. CONNECTIONS TO OTHER STRUCTURAL MEMBERS AND ARCHITECTURAL SYSTEMS SHALL BE INCLUDED. TYPICAL DETAILS OF CONNECTIONS SHALL BE SHOWN.
- THE MEMBER SIZE AND PROPERTIES FOR EACH MEMBER USED SHALL BE 4 SHOWN, CLEARLY INDICATING WHERE EACH MEMBER IS BEING USED.
- PARTICULAR ATTENTION SHALL BE GIVEN TO HEEL HEIGHTS AND TOP CHORD SLOPES TO ENSURE THAT THE FASCIA DETAILS ARE CONSISTENT, ALIGNED, AND IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.
- THE MAXIMUM SPACING OF THE TRUSSES SHALL BE 24 INCHES ON CENTER, (VERIFY SPACING WITH DETAILS).
- A SAMPLE SUBMITTAL OF THE TYPICAL TRUSS AND TRUSS GIRDER TYPES SHALL BE SUBMITTED FOR PRELIMINARY REVIEW PRIOR TO COMPLETION OF DESIGN CALCULATIONS AND DRAWINGS.
- COMPLETE ERECTION PLANS AND DETAILS SHALL BE SUBMITTED TO EACH TRADE FOR REVIEW.
- THE TRUSS ENGINEER SHALL BE RESPONSIBLE FOR ANY FIELD COORDINATION ISSUES WHICH MAY ARISE REGARDING THE TRUSSES, OPENINGS IN TRUSSES, AND CONNECTIONS OF TRUSSES.
- TRUSS ENGINEER SHALL VERIFY THAT DETAILS OF CONNECTIONS SHOWN 10 ARE APPROPRIATE FOR HIS TRUSS DESIGN. IF NOT, HE SHALL SUBMIT PROPOSED REVISIONS TO DETAILS.
- 11. SHIM PLATES SHALL BE INSTALLED AS REQUIRED TO PROVIDE A POSITIVE BEARING SURFACE BETWEEN THE TRUSSES AND THE STRUCTURAL BEAMS AND/OR WALLS. EACH TRUSS SHALL BEAR ON EACH BEAM AND/OR WALL WITH WHICH IT INTERSECTS AS SHOWN ON THE PLAN AND IN THE LOADING DIAGRAMS. UNLESS SPECIFICALLY NOTED. THERE SHALL NOT BE ANY SPACE BETWEEN THE TRUSSES AND THE WALLS





### WALL ZONES DIAGRAM

ROOF ZONES DIAGRAM

ROOF PSF					
ZONES	EDGE DIST.	ARE 10	4 FT2 100	OVEF	RHANG 100
1	N/A	15.7 -21.7	12.7 -20.2		
2	3'-0"	15.7 -33.7	12.7 -26.2	-41.2	- -41.2
3	3'-0"	15.7 -47.2	12.7 -38.2	-63.7	- 45.7

WALL	S
201120	ARE
ZUNES	10
4	23.2 -24.7
5	23.2 -24.7

## COMPONENTS & CLADDING PRESSURE TABLES



LOCATION MAP

## **APPLICABLE BUILDING CODES:**

2018 IBC 2018 NC AMENDMENTS TO ALL CODES.

TYPE IV CONSTRUCTION - NEW 192 SQ. FT. PRIMARY FIRE DISTRICT NOT IN FLOOD ZONE

### GENERAL NOTES

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AT THE JOBSITE BEFORE PROCEEDING WITH THE WORK.

DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. ALL WOOD TO BE PRESSURE TREATED. WAIT 6 MONTHS MIN BEFORE STAINING AND 1

MONTHS MIN BEFORE PAINTING. PAINT DURING OUTDOOR PAINTING SEASON.

REMOVE DEBRIS, RUBBISH AND OTHER MATERIALS TO ON-SITE DUMPSTER. TRANSPORT AND LEGALLY DISPOSE OFF SITE. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS, AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE TO ENVIRONMENTAL POLLUTION.

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- 0.0 COVER PAGE / STRUCTURAL NOTES
- 1.0 SITE PLAN
- 2.0 ARCHITECTURAL PLANS, ELEVATIONS

ENGINEERING,

- S-0 STRUCTURAL NOTES
- S-1 FOUNDATION PLAN, ROOF FRAMING; DETAILS

ISSUE/REVISIOIN DATE
FOR BIDS
IRENE J. PRILL ARCHITECTURAL DESIGNER 828-734-8727
Waynesville North Carolina Progress with Vision 1871

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	IRENE J. PRILL ARCHITECTURAL DESIGNER 828-734-8727
2'-0" ROOF TRUSS: SEE ROOF FRAMING PLAN (1) HI.5A HURRICANE CLIPS AT EA. TRUSS OR RAFTER CONT. 2X6 TOP PLATE (2) GALV. 1/2" THRU BOLTS AT EA. POST	Warnesville   North Carolina   Progress with Vision   1871
Image: Provide the set of the set	<b>PARK RESTROOM</b> CRAVEN RD. @ CALVARY ST. WAYNESVILLE, NC
	DRAWN BY Irene Prill DATE
ENGINEERING, PLLC	SCALE AS NOTED PROJECT NO. SHEET 2.0 SHEET_OF_

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DATE



FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGESPERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.

DESCIPTION OF BUILDING MATERIAL		
OTHER WALL SHEATHING		
1/2" GYPSUM SHEATHING		
5/8" GYPSUM SHEATHING		
WOOD STRUCTURAL PANE	ELS	\$,
3/4" AND LESS		
7/8" - 1"		

1 1/8" - 1 1/4"

# STRUCTURAL NOT

1. GENERAL

FASTENER SCHEDULE						
	NUMBER AND FASTNER (A,E	) TYPE OF 3,C,D)	SPA	ACING OF F	ASTENERS	
IAIL	3-8D					
CH JOIST, FACE	2-8D					
	2-1 3/4" 16 GA	GE STAPLE				
ER, BLIND AND	2-16D					
(ING, FACE NAIL	16D		16	" O.C.		
ND NAIL	2-16D					
	3-8D 2-16D					
	10D		24	" O.C.		
	10D		24	" O.C.		
ING	3-16D		16	" O.C.		
18-INCH OFFSET	8-16D					
RAFTERS TO	3-8D					$\neg$
	8D		6"	0.C.		
,	2-10D		16			_
WITH 1/2-INCH SP/	ACER 16D		10			
CES	16D		16	" O.C. ALON	IG EACH EDGE	
AIL	3-8D					
OE NAIL	4-8D					
ITIONS, FACE NAII	3-10D					
TERS, FACE NAIL	3-10D					
ATC	2-16D					
AIE	2-80 2-1 3/4" 16 GA	GE STAPLES	3			
RING	2-8D 2-1 3/4" 16 GA	GE STAPLES	S			
RING	2-8D					
C	3-8D 4 1 3/4" 16 GA					
		GE STAPLES	24	"00		
			N/		YER AS FOLLOWS:	-
	10D		32 AN	O.C. AT TO	OP AND BOTTOM RED. TWO NAILS AT	
			EN	NDS AND A	T EACH SPLICE.	
EY OR	4-16D 3-16D					
NAIL	3-8D					
IBFLOOR, ROOF A	ND WALL SHEATHING TO	FRAMING, A	AND PARTI	CLEBOARD	WALL SHEATHING TO FRAMINO	;
NAIL	6				12 (0)	
(ROOF)(F)	Ö				12 (G)	
NAIL	6				12 (G)	
	6				12	
ESCIPTION OF BU	ILDING	EDGES	SPA	ACING OF	INTERMEDIATE SUPPORTS	
IATERIAL		(INCHES) (	I) FAS	STENERS	(INCHES) (C,E)	
						-
1/2" GALVANIZED	ROOFING NAIL					
		4			8	
1/2" 16 GA GALVANIZED STAPLE 1/4" SCREW, TYPE W OR S						
- <b>,</b>						
3/4" GALVANIZED ROOFING NAIL					0	
5/8" 16 GA GALVANIZED STAPLE		4			ð	
5/8" SCREW, TYPE W OR S						
MBINATION SUBF	LOOR UNDERLAYMENT	TO FRAMING		1		
D DEFORMED NAI	LOR	6			12	
	DR	6			12	
DEFORMED NA	OR				12	-
D DEFORMED NAI	0					

1.01	THE STRUCTURE IS DESIGNED IN ACCORDANCE AND MEETS THE DESIGN CRITERIA OF THE FOLLOWING CODES:
	2018 NORTH CAROLINA RESIDENTAIL BUILDING CODE ASCE 7-05, MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES NDS-05, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION
1.02.	METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONS OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTI MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
1.03.	COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHA ELECTRICAL, PLUMBING, CIVIL, AND GEOTECHNICAL REPORT. FOR ADDITIONAL OPE NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING DRAWINGS.
1.04	THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL RESULTI REVISIONS TO THE STRUCTURAL SYSTEM OR OTHER TRADES AS A RESULT OF ACCEPTANCE OF CONTRACTOR PROPOSED ALTERNATIVES OR SUBSTITUTIONS.
DESI	<u>GN LOADS</u>
2.01	DESIGN GRAVITY LOADS ARE AS FOLLOWS: SUPERIMPOSED AREA DEAD LOAD (included but not limited to the following): SINGLE PLY ROOF
	AREA LIVE LOADS ROOF2
	FLOOR
2.02	ROOF SNOW LOAD
	GROUND SNOW LOAD
2.03	WIND LOAD BASIC WIND SPEED (BUILDING FRAME - 3 SEC GUST.)
3	MATERIAL STRENGTHS
<u>.</u> 3.01.	ALL CONCRETE (fc @ 28 DAYS) U.N.O.
	FOOTINGS.       .3,000 PSI         SLAB ON GRADE       .3,000 PSI         TOPPING SLAB       .3,000 PSI
3.02.	REINFORCING STEEL (Fy) REBAR (ASTM A615)
3.03.	STRUCTURAL STEEL (Fy)50,000 PSIWF SHAPES (ASTM A992)50,000 PSICHANNELS, ANGLES, PLATES & OTHER SHAPES (ASTM A36)36,000 PSISQUARE & RECTANGULAR HSS (A500 GRADE B)46,000 PSIROUND HSS (A500 GRADE B)42,000 PSIALL BOLTS U.N.A-325-NANCHOR RODS (ASTM F1554)GRADE 36WELDING ELECTRODESE70XX
3.04.	LIGHT GAGE STEEL (Fy) ROOF DECK
3.05.	MASONRY (MINIMUM COMPRESSIVE STRENGTH PER UNIT STRENGTH METHOD) NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (TYPE M OR S MORTAR)
3.06.	SOIL/SUBGRADE PROPRETIES ("SOIL TYPE")
3.07	WOOD FRAMING (2001 NDS)
	COLUMNS SP - NO. 1, 5"x5" AND LARGER
	BEAMS / STUDS SP - NO. 2 OR SPF - NO. 2 U.N.O.
	LVL BEAMS Fb

WOOD FRAM	IED WALL HEADER
1 1	

OPENING	HEADER SIZE	NO. JACK STUDS	MIN. NO. FULL HT. STUDS
6'-4" OR LESS	(3) - 2x8	1 EA. SIDE	1 EA. SIDE

NOTE:

1. USE SIZES INDICATED IN SCHEDULE UNLESS NOTED OTHERWISE ON PLAN. 2. PROVIDE BLOCKING BETWEEN EA. MEMBER TO ACHIEVE PROPER WIDTH.

Fc (PERP)...

Fc

3. USE SIMPSON HH6 AT HEADER CONNECTION TO FULL HT. STUDS IF THERE ARE NO CRIPPLE STUD SUPPORTS.

4. ALL JACK STUDS TO BE TIED TOGET WITH SIMPSON CS20 STRAPS A 2'-0" C/C VERT. MAX EA. SIDE- TYP.

IRENE J. PRILL

ARCHITECTURAL DESIGNER

828-734-8727

rogress with Visio

DATE

OTHER STRUCTURES		DEAMO.
CONSTRUCTION	7.02	FRAMING. RAFTERS SHALL BE FRAMED DIRECTLY OPPOSITE EACH OTHER ON THE RIDGE AND WHEREVER POSSIBLE ON THE HIPS AND VALLEYS. RIDGES SHALL BE AT LEAST 1"
ON ARE THE RESPONSIBILITY ECESSARY PRECAUTIONS TO E AT ALL STAGES OF CHITECTURAL, MECHANICAL		NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS AND HIPS THERE SHALL BE A SINGLE VALLEY OR HIP RAFTER NOT LESS THAN 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. WHENEVER THE RAFTER DOES NOT ALIGN WITH EACH OTHER ON THE RIDGE, HIP OR VALLEY, THE RIDGE, HIP OR VALLEY MUST BE DESIGNED AS A BEAM.
FOR ADDITIONAL OPENINGS TURAL, MECHANICAL, AND TION OF ALL RESULTING AS A RESULT OF	7.03	RAFTER TIES. RAFTERS SHALL BE NAILED TO ADJACENT CEILING JOIST TO FORM A CONT. TIE BETWEEN EXTERIOR WALLS WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS. WHERE NOT PARALLEL, RAFTERS SHALL BE TIED TO 2 BY 4 (NOMINAL) MIN. SIZE CROSS TIES. RAFTER TIES SHALL BE SPACED NOT MORE THAN 4' O/C. THE SEAT CUT OF THE RAFTER BIRD'S MOUTH SHALL BE NO LONGER THAN IT'S BEARING MEMBER.
SUBSTITUTIONS.	7.04	BLOCKING. ROOF RAFTERS AND CEILING JOISTS SHALL BE SUPPORTED LATERALLY TO PREVENT ROTATION AND LATERAL DISPLACEMENT.
following): 3 PSF	7.05	ROOF SHEATHING. PLYWOOD MUST BE OF MIN. 1/2" THICKNESS AND MEET ALL OTHER REQUIREMENTS OF THE CODE. END JOINTS IN PLYWOOD SHALL OCCUR OVER SUPPORTS AND END JOINTS SHALL BE STAGGERED A MIN. OF ONE MEMBER ON ADJACENT ROWS.
	WC	OD CONSTRUCTION CONNECTORS
	8.01	ALL WOOD CONSTRUCTION CONNECTORS SHALL BE SIMPSON STRONG-TIE CONNECTORS OR APPROVED EQUIVALENT.
	8.02	ALL SPECIFIED FASTENERS SHALL BE INSTALLED ACCORDING TO THE DETAILS AND THE MANUFACTURER'S INSTRUCTIONS. ALL HOLES IN CONNECTORS SHALL BE PROPERLY NAILED TO THE WOOD STRUCTURE. CONTACT PR ENGINEERING FOR FASTENERS NOT SHOWN. INCORRECT FASTENER QUANTITY, SIZE TYPE, MATERIAL, OR FINISH MAY CAUSE THE CONNECTION TO FAIL. 16D FASTENDERS ARE COMMON NAILS (8 GA. X 3 1/2") AND CANNOT BE REPLACED WITH 16D SINKERS (9 GA. 3 1/4") U.N.O.
ENCLOSED	8.03	3 DIAMETER (PER THE NDS, SECTION 8.1.2.1).
+0.18/ -0.18	8.04	INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
	8.05	5 JOISTS SHALL BEAR COMPLETELY ON THE CONNECTION SEAT, AND THE GAP BETWEEN THE JOIST END AND THE HEADER SHALL NOT EXCEED 1/8" PER ASTM TEST STANDARDS.
	8.06	3 UNLESS OTEHRWISE NOTED, BOLTS AND NAILS SHALL NOT BE COMBINED.
	8.07	A FASTENER THAT SPLITS THE WOOD WILL NOT SUPPORT THE DESIGN LOAD. IF THE

WOOD - ROOF AND CEILING JOISTS

BEAMS

	. 60,000 PSI
97).	65,000 PS
	50,000 PSI



### ) PSI ,000 PSI ),000 PSI

BE MADE.

CONTRACT DOCUMENTS.

.....2,600 PSI ...285 PSI ..750 PSI ....2,510 PSI ..2,000,000 PSI

SCHEDULE



woc	D CONSTRUCTION CONNECTORS
8.01	ALL WOOD CONSTRUCTION CONNECTORS SHALL BE SIMPSON STRONG-TIE CONNECTORS OR APPROVED EQUIVALENT.
8.02	ALL SPECIFIED FASTENERS SHALL BE INSTALLED ACCORDING TO THE DETAILS AND THE MANUFACTURER'S INSTRUCTIONS. ALL HOLES IN CONNECTORS SHALL BE PROPERLY NAILE TO THE WOOD STRUCTURE. CONTACT PR ENGINEERING FOR FASTENERS NOT SHOWN. INCORRECT FASTENER QUANTITY, SIZE TYPE, MATERIAL, OR FINISH MAY CAUSE THE CONNECTION TO FAIL. 16D FASTENDERS ARE COMMON NAILS (8 GA. X 3 1/2") AND CANNOT BE REPLACED WITH 16D SINKERS (9 GA. 3 1/4") U.N.O.
8.03	DIAMETER (PER THE NDS, SECTION 8.1.2.1).
8.04	INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
8.05	JOISTS SHALL BEAR COMPLETELY ON THE CONNECTION SEAT, AND THE GAP BETWEEN THE JOIST END AND THE HEADER SHALL NOT EXCEED 1/8" PER ASTM TEST STANDARDS.
8.06	UNLESS OTEHRWISE NOTED, BOLTS AND NAILS SHALL NOT BE COMBINED.
8.07	A FASTENER THAT SPLITS THE WOOD WILL NOT SUPPORT THE DESIGN LOAD. IF THE WOOD HAS A TENDENCY TO SPLIT, PRE-BORE HOLES TO 3/4 OF THE NAIL DIAMETER (NDS 2.1.3.1).
HANI	DRAILS
9.01	BALANCY RAILINGS, GUARDRAILS AND HANDRAILS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH SECTION 16 OF THE NC BUILDING CODE AS FOLLOWS:
	GUARDRAILS AND BALCONY RAILINGS SHALL BE DESIGNED TO SUPPORT A LATERAL LOAD OF 50 PLF APPLIED HORIZONTALLY AT RIGHT ANGLES TO THE TOP OF RAIL.
	INTERMEDITAL RAILS AND THEIR CONNECTIONS SHALL BE DESIGNED TO SUPPORT A LOAD 25 PLF APPLIED HORIZONTALLY AT RIGHT ANGLES OVER THE ENTIRE TRIBUTARY AREA.
<u>STRI</u>	JCTURAL STEEL
10.01	SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE

7.01 GENERAL. THE FRAMING DETAILS GIVEN HERE APPLY TO ROOFS HAVEING A MIN. SLOPE

OF 3:12 OR GREATER. WHEN THE ROOF IS LESS THAN 3:12, MEMBERS SUPPORTING RAFTERS AND CEILING JOISTS SUCH AS RIDGE BOARD, HIPS AND VALLEY SHALL BE DESIGNED AS

## FRAMING NOTES

10.02 SET STEEL ACCURATELY IN LOCATIONS AND ELEVATIONS INDICATED ON THE

1. ALL MULTI-PLY BEAMS (i.e. (2) 1-3/4 x 11 7/8 LVL) SUPPORTING FLUSH JOISTS / BEAMS TO HAVE PLY'S GLUED AND NAÌLÉD TOGETHER W/ (3) 16D COMMON NAILS AT 12" C/C FOR 2-PLY BEAMS AND (3) 16D COMMON NAILS AT 12" C/C EA SIDE FOR 3 OR MORE PLY BEAMS. UNLESS NOTED OTHERWISE (UNO).

STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO

MEMBER SIZE	TOP PLATE BEARING COND. REQ. # STUDS	NON BEARING COND. REQ. CONNECTOR
2X6	N/A	LUS26
2X8	N/A	LUS28
2X10	N/A	LUS210
2X12	N/A	LUS212
(2) 2X8	(2) 2X4	LUS26-2
(2) 2X10	(2) 2X4	LUS210-2
(2) 2X12	(3) 2X4	LUS210-2
(3) 2X10	(3) 2X4	LUS28-3
(3) 2X12	(3) 2X4	HU212-3
1-3/4" X 7-1/4" LVL	(2) 2X4	N/A
(2) 1-3/4" X 7-1/4" LVL	(3) 2X4	HHUS48
(2) 1-3/4" X 9-1/4" LVL	(3) 2X4	HHUS410
(2) 1-3/4" X 11-1/4" LVL	(3) 2X6	HGUS410
(2) 1-3/4" X 14" LVL	(3) 2X6	HHUS410
(3) 1-3/4" X 14" LVL	(3) 2X6	HHUS5.5/10
(3) 1-3/4" X 16" LVL	(4) 2X4	HHUS5.5/10
(3) 1-3/4" X 20" LVL	(4) 2X4	HGUS5.5/14



PLLC

SHEET

SHEET OF

ROOM	WAYNESVILLE, NC
PARK REST	AVEN RD. @ CALVARY ST.

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AS NOTED



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



RR ROOF FRAMING SCALE: 1/4"=1'-0"

