Revision Schedule **Revision Date** 8/4/20

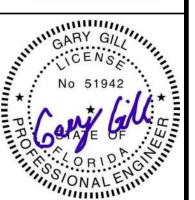
NATHAN AND RENEE MORGAN RESIDENCE COLUMBIA COUNTY, FL





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SHEET				
NUMBER	SHEET NAME	REVISION	REVISION DATE	Current Revision Description
T-001	TITLE SHEET	0	8/4/20	ISSUED FOR PERMITTING
A-001	FLOOR PLAN	0	8/4/20	ISSUED FOR PERMITTING
A-002	DIMENSION PLAN	0	8/4/20	ISSUED FOR PERMITTING
A-003	ELEVATIONS	0	8/4/20	ISSUED FOR PERMITTING
A-004	ELEVATIONS	0	8/4/20	ISSUED FOR PERMITTING
A-005	SECTIONS	0	8/4/20	ISSUED FOR PERMITTING
S-001	STRUCTURAL NOTES	0	8/4/20	ISSUED FOR PERMITTING
S-002	FOUNDATION PLAN	0	8/4/20	ISSUED FOR PERMITTING
S-003	ROOF LAYOUT	0	8/4/20	ISSUED FOR PERMITTING
S-004	SECTION VIEWS	0	8/4/20	ISSUED FOR PERMITTING
S-005	CONSTRUCTION DETAILS	0	8/4/20	ISSUED FOR PERMITTING

8/4/20

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ELECTRICAL PLAN

SHEET SCHEDULE

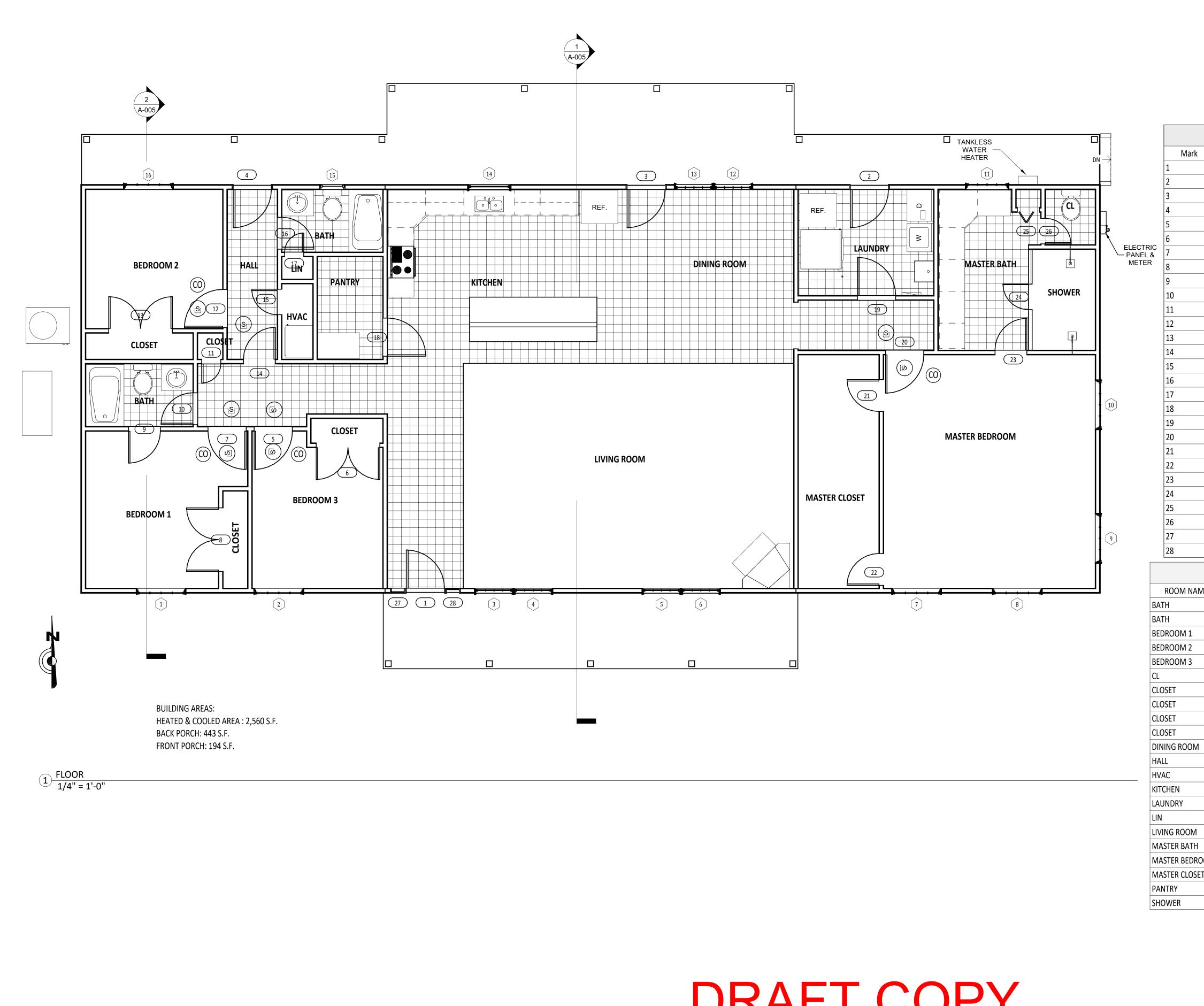
DRAFT COPY FINAL REVIEW

MORGAN RESIDENCE COLUMBIA COUNTY, FL NATHAN AND RENEE MORGAN GILL ENGINEERING SERVICES, INC AUTH # 30824 GG GARY GILL PE #51942 GG 426 SW COMMERCE DR 130-M LAKE CITY, FL 32025 386-590-1242 GG TITLE SHEET

T-001

DRAWN BY:

2002-003



	Revision Schedule	
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMITTING	8/4/20

		D	OOR SCHEDULE		
Mark	Width	Height	Thickness	Finish	Description
1	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	ENTRY
2	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	ENTRY
3	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	ENTRY
4	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	ENTRY
5	3' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
6	5' - 0"	6' - 8"	0' - 1 3/8"	WOOD	DOUBLE CLOSET
7	3' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
8	5' - 0"	6' - 8"	0' - 1 3/8"	WOOD	DOUBLE CLOSET
9	2' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
10	2' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
11	1' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
12	3' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
13	5' - 0"	6' - 8"	0' - 1 3/8"	WOOD	DOUBLE CLOSET
14	2' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
15	2' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
16	2' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
17	1' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
18	3' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
19	3' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
20	3' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
21	2' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
22	2' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
23	2' - 6"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
24	2' - 0"	6' - 8"	0' - 0 1/2"	GLASS	SHOWER DOOR
25	1' - 6"	6' - 8"	0' - 1 3/8"	GLASS	BIFOLD
26	2' - 0"	6' - 8"	0' - 1 3/8"	WOOD	INTERIOR
27	1' - 0"	6' - 8"	0' - 1 3/8"		SIDE LITE
28	1' - 0"	6' - 8"	0' - 1 3/8"		SIDE LITE

	WINDO	OW SCHEDULE	
	ROUGH	ROUGH	
MARK	WIDTH	HEIGHT	Interior Finish
1	3' - 11 3/4"	4' - 11 3/4"	Wood-Pella-Pine
2	3' - 11 3/4"	4' - 11 3/4"	Wood-Pella-Pine
3	3' - 1 3/4"	4' - 11 3/4"	Wood-Pella-Pine
4	3' - 1 3/4"	4' - 11 3/4"	Wood-Pella-Pine
5	3' - 1 3/4"	4' - 11 3/4"	Wood-Pella-Pine
6	3' - 1 3/4"	4' - 11 3/4"	Wood-Pella-Pine
7	3' - 11 3/4"	4' - 11 3/4"	Wood-Pella-Pine
8	3' - 11 3/4"	4' - 11 3/4"	Wood-Pella-Pine
9	3' - 11 3/4"	4' - 11 3/4"	Wood-Pella-Pine
10	3' - 11 3/4"	4' - 11 3/4"	Wood-Pella-Pine
11	3' - 5 3/4"	2' - 11 3/4"	Wood-Pella-Pine
12	3' - 1 3/4"	4' - 11 3/4"	Wood-Pella-Pine
13	3' - 1 3/4"	4' - 11 3/4"	Wood-Pella-Pine
14	3' - 5 3/4"	2' - 11 3/4"	Wood-Pella-Pine
15	2' - 0"	2' - 0"	
16	3' - 11 3/4"	4' - 11 3/4"	Wood-Pella-Pine
17	3' - 1 3/4"	4' - 0 3/4"	Wood-Pella-Pine
18	3' - 1 3/4"	4' - 0 3/4"	Wood-Pella-Pine

ROOM SCHEDULE ROOM NAME | AREA | WALL FINISH | BASE FINISH | FLOOR FINISH | CEILING FINISH WOOD 41 SF GWB WOOD TILE 138 SF GWB 117 SF GWB WOOD 119 SF GWB 17 SF GWB 11 SF GWB 17 SF GWB WOOD 4 SF GWB 15 SF GWB WOOD CARPET GWB 214 SF GWB WOOD 52 SF GWB WOOD GWB 14 SF GWB CARPET GWB 261 SF GWB WOOD TILE 89 SF GWB WOOD TILE GWB 569 SF GWB WOOD CARPET 89 SF GWB CARPET GWB WOOD MASTER BEDROOM 305 SF GWB 116 SF GWB 41 SF GWB

TILE

39 SF TILE

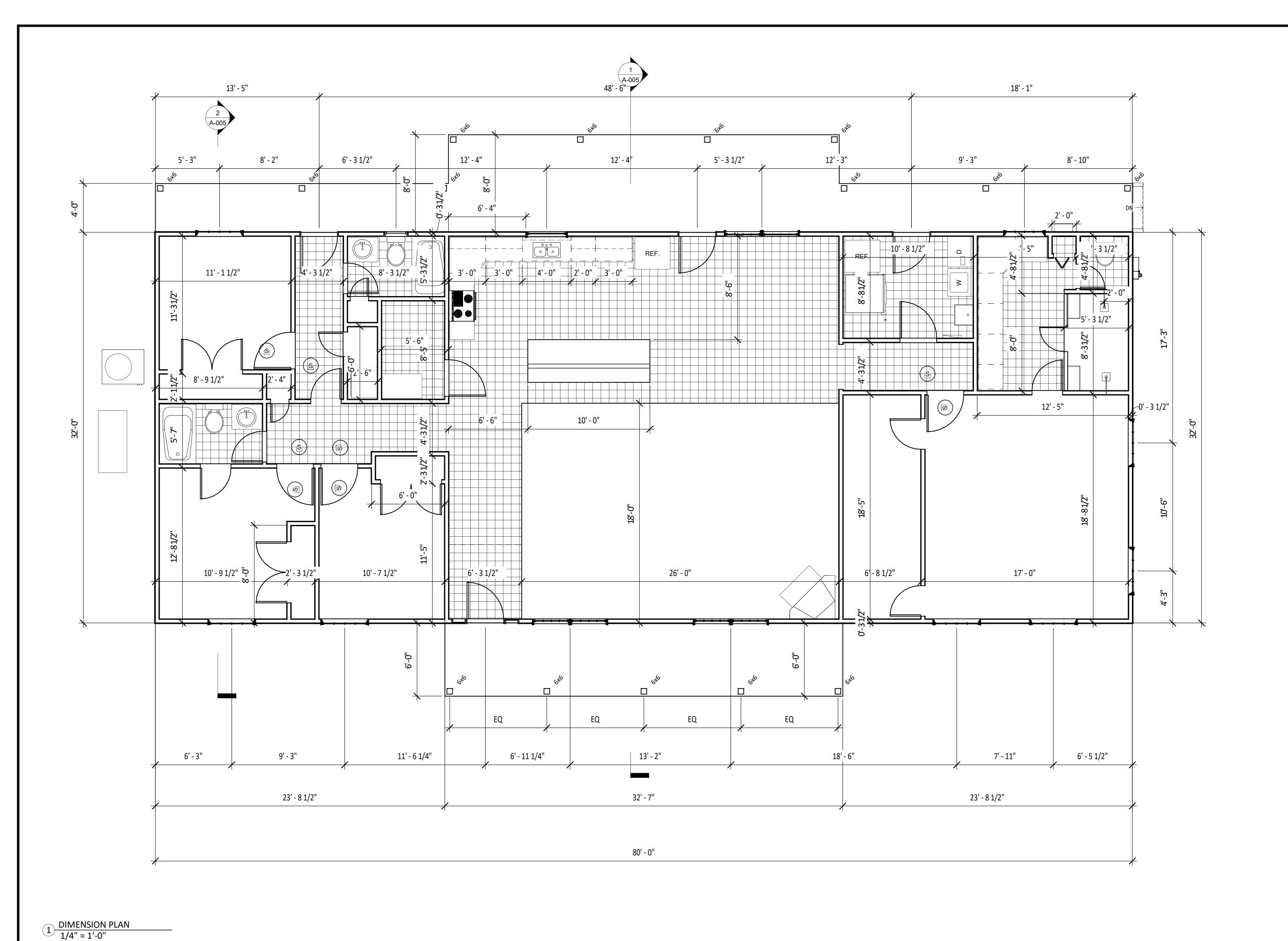
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Revision Schedule

Revision Number Revision Description Revision Date

0 ISSUED FOR PERMITTING 8/4/20

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Engineering Services, Inc.

REV #:

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MORGAN RESIDENCE

COLUMBIA COUNTY, FL

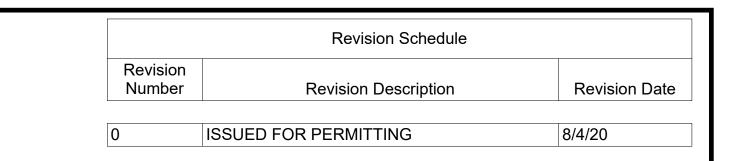
THAN AND RENEE MORGAN

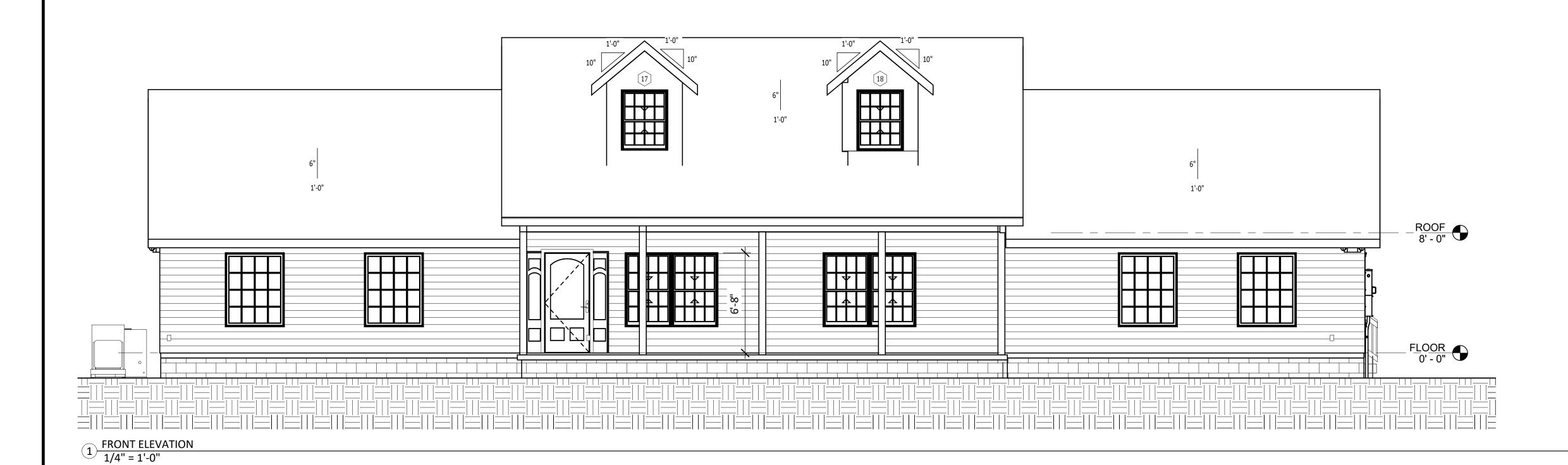
NATHAN AND RENEE MORGAN

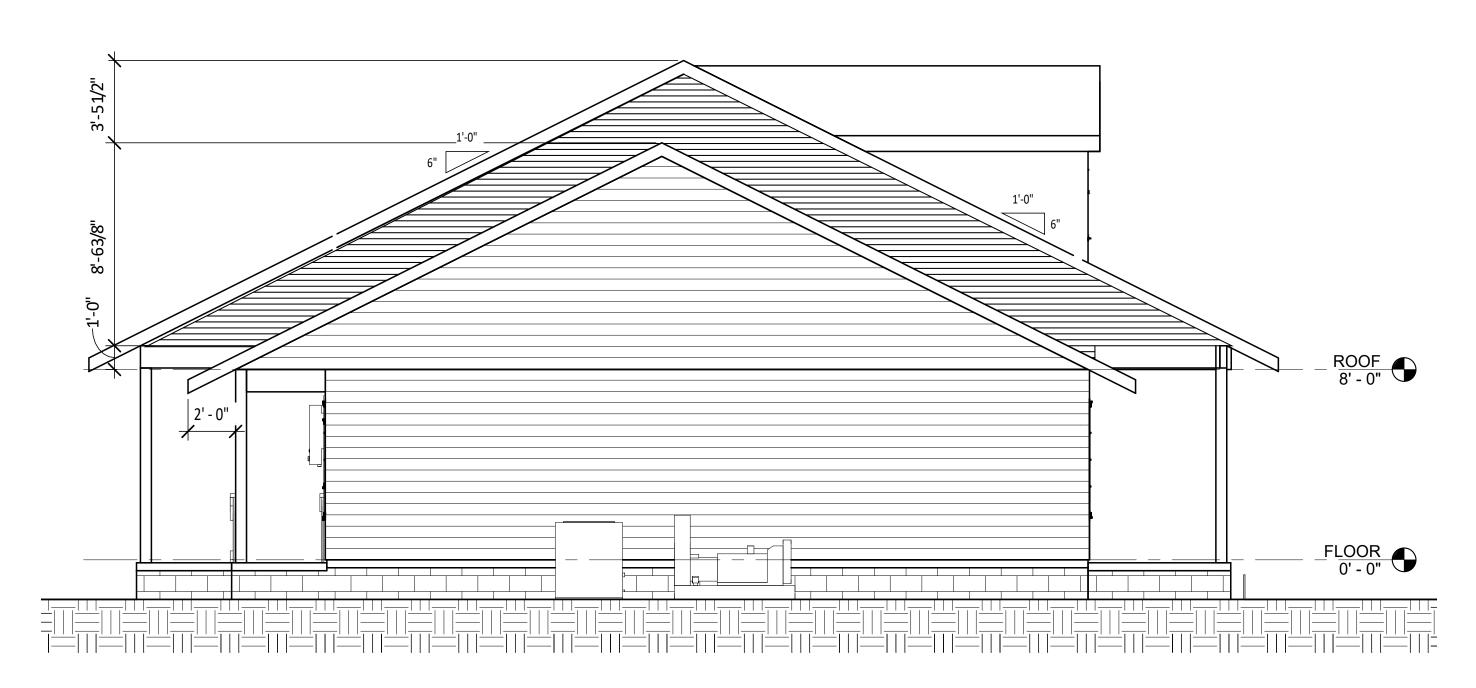
GILL ENGINEERING SERVICES, INC
AUTH # 30824
GARY GILL PE #51942
426 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

DIMENSION PLAN

DWG #: A-002







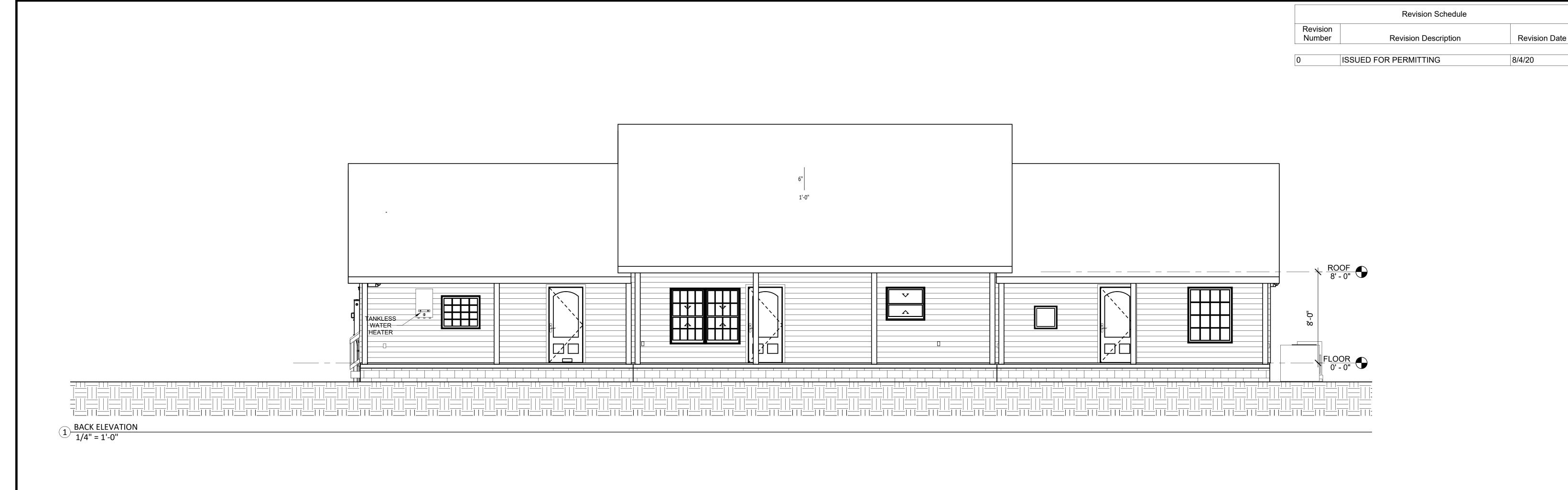
2 LEFT ELEVATION 1/4" = 1'-0"

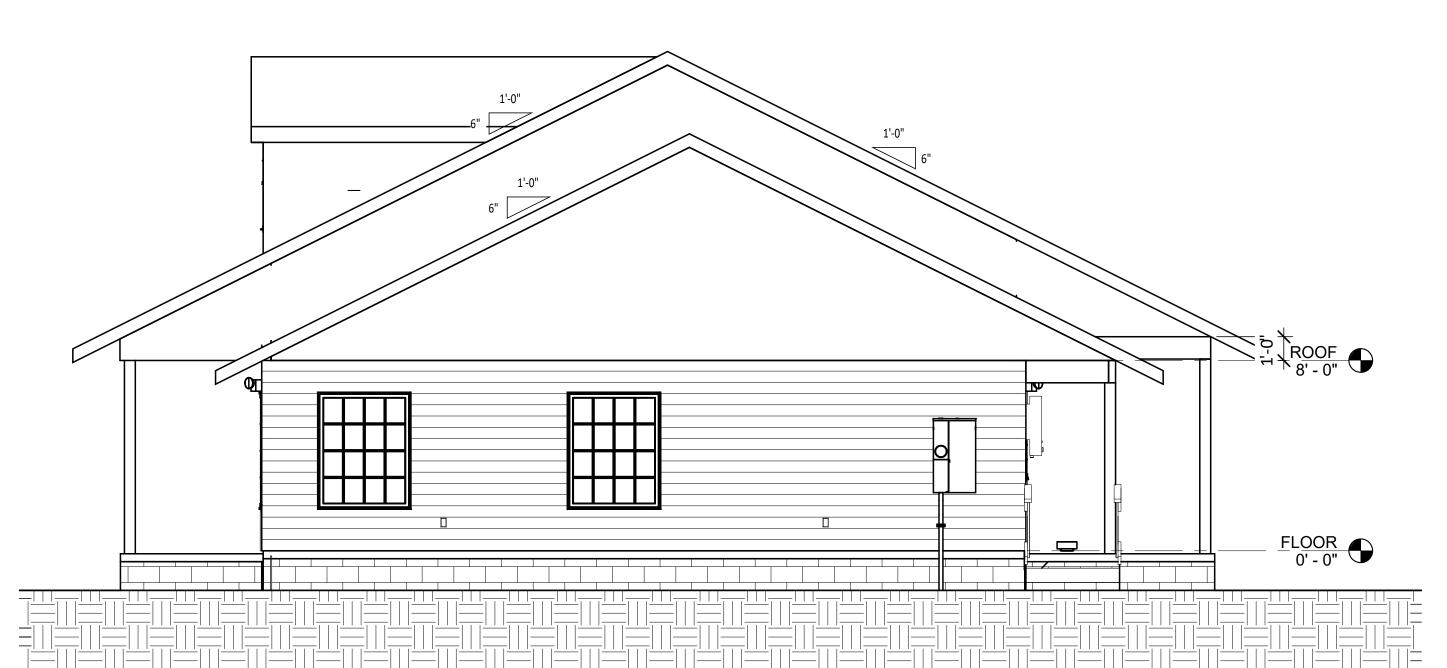
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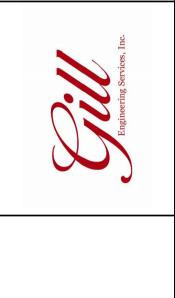
	MORGAN RESIDENCE COLUMBIA COUNTY, FL					
NATHA	NATHAN AND RENEE MORGAN			GILL ENGINEERING SERVICES, INC		
DRAWN BY:	GG			AUTH # 30824 GARY GILL PE #51942 426 SW COMMERCE DR 130-M LAKE CITY, FL 32025 386-590-1242		
CHKD BY:	GG					
APPRD BY:	GG					
	ELEVATIONS					
PROJECT #:	PROJECT #: DWG #:			A-003	REV #: O	



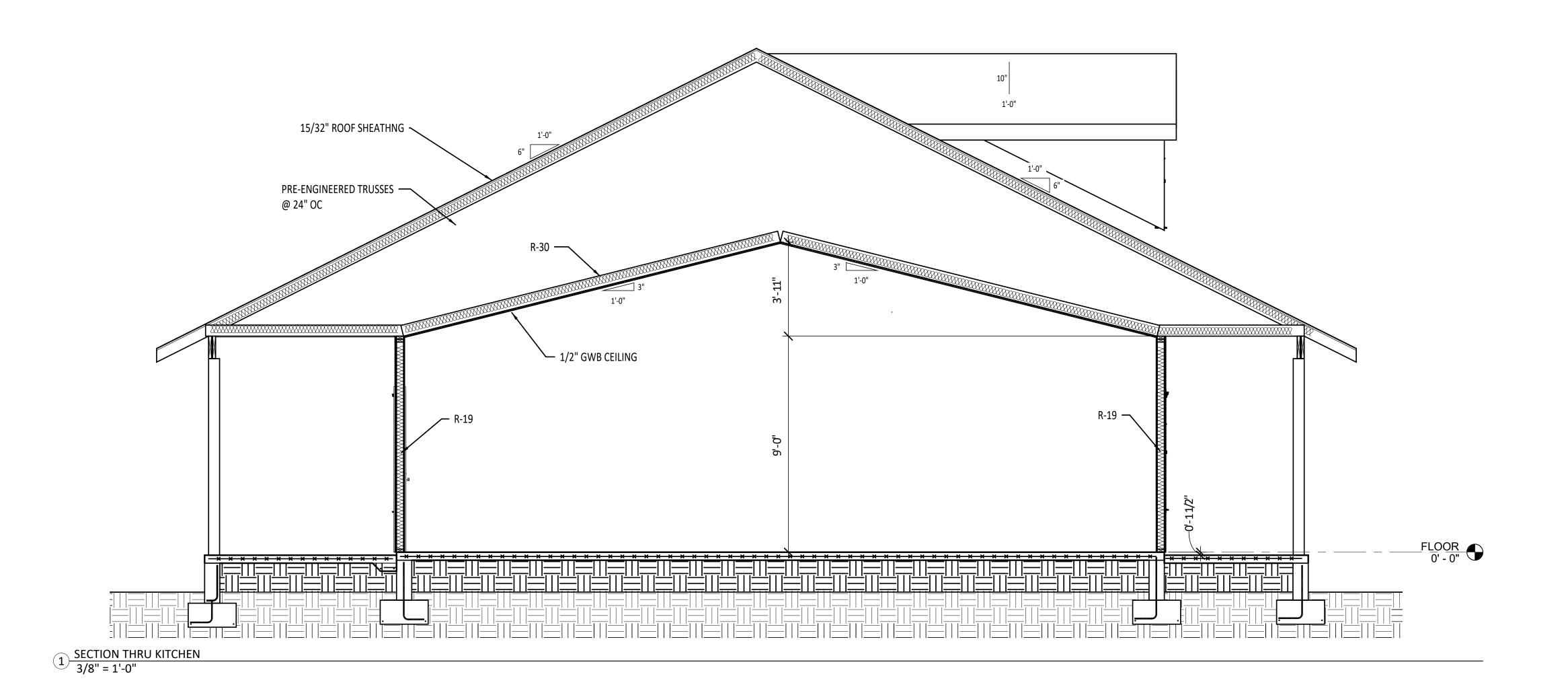


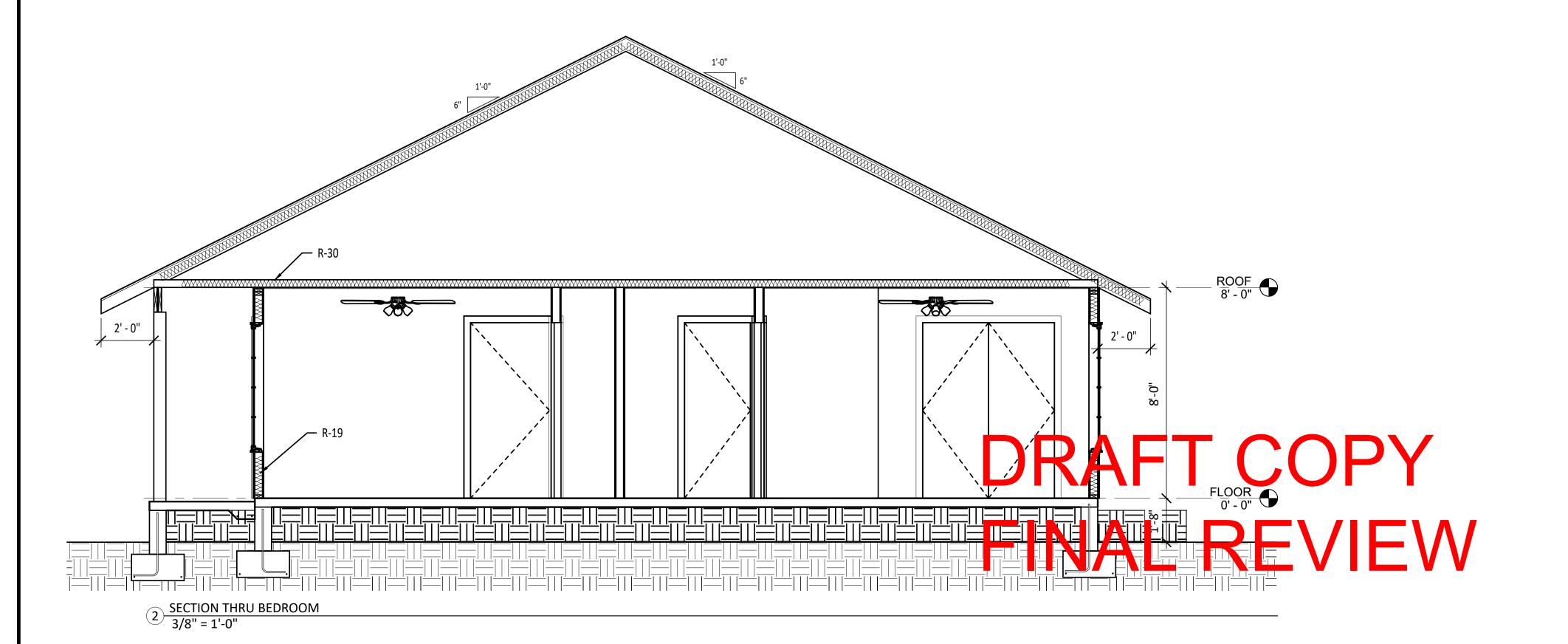
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MORGAN RESIDENCE COLUMBIA COUNTY, FL NATHAN AND RENEE MORGAN GILL ENGINEERING SERVICES, INC AUTH # 30824 GG DRAWN BY: GARY GILL PE #51942 GG 426 SW COMMERCE DR 130-M LAKE CITY, FL 32025 386-590-1242 GG **ELEVATIONS** REV #: DWG #: A-004 2002-003





Revision
Number Revision Description Revision Da

A MODIFIED PLANS PER CLIENT 3/27/20
0 ISSUED FOR PERMITTING 8/4/20

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	MORGAN RESIDENCE COLUMBIA COUNTY, FL					
NATHAN AND RENEE MORGAN				GILL ENGINEERING SERVICES, INC		
DRAWN BY:	GG			AUTH # 30824 GARY GILL PE #51942 426 SW COMMERCE DR 130-M LAKE CITY, FL 32025 386-590-1242		
CHKD BY:	GG					
APPRD BY:	GG					
	SECTIONS					
PROJECT #: 20	02-00	3	DWG #:	A-005	REV #: O	

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

- 1. ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2017 FBC (6TH ED)
- . THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS.
- THE STRUCTURAL DRAWINGS ARE INTENDED FOR THE STRUCTURE TO ACT AS WHOLE ONCE CONSTRUCTION IS COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY (I,E, TEMPORARY BRACING IF REQUIRED) DURING CONSTRUCTION AS A RESULT OF CONSTRUCTIONS METHODS AND SEQUENCES.
- 4. THE CONTRACTOR SHALL FIELD VERITY ALL EXISTING STRUCTURES. THE ENGINEER SHALL BE NOTIFIED ON ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.
- 5. <u>DESIGN CRITERIA</u>
 - A. CODE: 2017 FBC (6TH ED)
 - B. LOADS AND DESIGN CRITERIA: THE FOLLOWING LOADS AND CRITERIA WERE USED IN ADDITION TO THE DEAD LOAD OF THE STRUCTURE.

THE DEAD LOAD OF THE STRUCTURE	•1	
LIVE LOADS:		
ROOF	20 PSF	
CEILING	50 PSF	
SOIL CRITERIA:		
ALLOWABLE SOIL BEARING	2000 PSF	
PASSIVE PRESSURE	150 PCF	
FRICTION COEFFICIENT	0.35	
WIND CRITERIA:		
WIND SPEED:	130 MPH (3-SECOND GUST)	
CATEGORY:	II	
EXPOSURE	В	
INTERNAL PRESSURES:	=/- 0.18	

ZONE 1	21.3 / -34.15 PSF
ZONE 2	21.5 / -59.45 PSF
ZONE 3	21.5 / -69.75 PSF
ZONE 4	37.32 / -40.48 PSF
ZONE 5	37.32 / 49.96 PSF

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE DESIGNED PER CURRENT EDITION OF AC1 318

CLADDING AND COMPONENTS

- CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
 A. FOUNDATION WALLS, PIERS, AND FOOTINGS
 B. SLAB ON CARE:
 C. ALL OTHER CONCRETE
- 3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NORMAL AIR DENSITY OF 145 PSF.
- PROVIDE CONSTRUCTION JOINTS WHERE SHOWN, OMIT NONE AND ADD NONE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT / ENGINEER.SUBMIT DRAWINGS SHOWING ALL PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO PREPARATIONS OF AFFECTED REINFORCEMENT SHOP DRAWINGS
- 5. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS
- 6. CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR ARCHITECT / ENGINEER REVIEW 30 DAYS PRIOR TO PLACEMENT OF CONCRETE
- 7. ALL REINFORCING STEEL ASTM A615 GRADE 60. ALL WELDED WIRE FABRIC ASTM A185

REINFORCING STEEL:

- 1. ALL BAR REINFORCEMENT SHALL BE CONFORM TO ASTM 615 GRADE 60.
- 2. WELD WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
- 3. CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SHALL BE CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL).
- A. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING OR WALL BOTTOM)......3"

 B. SLAB ON GRADE2 1/2

 C. FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS, PIERS).....2"
- D. IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS.

 NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR SECTIONS 10" OR LE
- NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR SECTIONS 10" OR LESS AND +1/2" FOR SECTIONS OVER 10" THICK.
- 4. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWS
- 5. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATION, AS DETERMINED BY THE ARCHITECT / ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES.
- 6. ALL WORKMANSHIP AND MATERIAL SHALL BE CONFORMED TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315)
- 7. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS PLACED.
- 8. WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT CONTINUOUS ENDS.
- 9. WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MIN.
- 10. ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLE(S) PROVIDED IN THE GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIREMENTS OF THE LATEST EDITION OF A318
- 11. SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR REINFORCEMENT INTERRUPTED EXCEPT SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.
- 12. SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT / ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCEMENT.
- 13. BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSE SURFACE SHALL BE GALVANIZE AND PLASTIC TIPPED.

ADDITION CONCRETE ITEMS:

SLAB AND WALL REINFORCING LAP SPLICE LENGTHS

LAP SLICE LENGTHS FOR REINFORCING IN 4000 PSI CONCRETE AS FOLLOWS

BAR SIZE		TENSION SPLICE	DEVELOPMENT LENG
	TOP	OTHER	
#3	21"	15"	13"
#4	29"	20"	17"
#5	35"	25"	21"
#6	43"	31"	25"
#7	54"	39"	32"
#8	71'	51"	42"

LAP SPLICE LENG	STHS FC	OR REINFORCING IN	3000 PSI CONCRETE AS FOLLOWS
BAR SIZE		TENSION SPLICE	DEVELOPMENT LENGTH
	TOP	OTHER	
#3	21"	15"	13"
#4	29"	20"	17"
#5	35"	25"	21"
""	4.611	221	0.711

45"

NOTES:

- 1. LAPPED SPLICE LENGTHS BASED ON ASTM A-615, GRADE 60, REBAR
- 2. REINFORCING BARS CLASSIFIED AS TOP BARS WHEN MORE THAN 12" ON
- CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.

 3. COMPRESSION SPLICES SHALL PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS
- 4. TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS, AND WALLS UNLESS
- OTHERWISE NOTED.

 5. WHEN LAPPING LARGER BARS WITH SMALLER BARS, LAP LENGTH FOR SMALLER
- BAR SHALL GOVERN RESPECTIVE SPLICE.

 6. SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH
- COMPRESSION SPLICES
 SPLICE CONTINUOUS REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES.

FLOOR SLABS:

- 1. FLOOR SLABS SHALL BE ON AT LEAST 4" OF RELATIVELY CLEAN GRANULAR MATERIAL SUCH AS SAND, SAND AND GRAVEL, OR CRUSHED STONE. GRANULAR MATERIAL SHALL HAVE 100% PASSING THE 1 1/2" SIEVE AND A MAXIMUM OF 10% PASSING THE NO. 200 SIEVE.
- 2 STRUCTURAL FILL SHALL BE PLACED IN THIN LOOSE LIFTS NOT EXCEEDING 12" IN THICKNESS AND COMPACTED WITH A HEAVY ROLLER. EACH LIFT SHALL BE THOROUGHLY COMPACTED WITH THE LABORATORY ROLLER TO PROVIDE DENSITIES TO AT LEAST 95% OF THE PROCTOR MAXIMUM DRY DENSITY. STRUCTURAL FILL SHALL CONSIST OF AN INORGANIC NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE 200 MESH SIEVE.

POST-INSTALLED REBAR:

- 1. POST-INSTALLED REINFORCING BAR CONNECTIONS SHALL BE DESIGNED PER THE ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318). POST-INSTALLED REINFORCING BAR CONNECTIONS SHALL BE CONSIST OF HILTI EPOXY SYSTEMS OR EQUAL
- 2. THE DESIGN OF STRAIGHT POST-INSTALLED REINFORCING BARS SHALL BE PREFORMED PER THE DEVELOPMENT AND SPLICE REQUIREMENTS OF THE ACI 318. THE POST-INSTALLED REINFORCING BAR SYSTEM IS AN ALTERNATIVE TO CAST-IN-PLACE REINFORCING BARS GOVERNED BY ACI 318 AND IBC CHAPTER 19.
- 3. THE EPOXY SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE ICC-ES ACCEPTANCE CRITERIA FOR POST-INSTALLED EPOXY ANCHORS IN CONCRETE ELEMENTS (ACI 308), TABLE 3.8 TECHNICAL DATE SHALL BE PUBLISHED IN AN ICC-ES EVALUATION SERVICE REPORT SHOWING COMPLIANCE WITH IBC.
- 4. POST-INSTALLED REINFORCING BAR INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURED PRINTED INSTALLATION INSTRUCTION (MP1), AS INCLUDED IN THE ANCHOR PACKAGING.

COMPACTION REQUIREMENTS

1. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT +/- 2% OPTIMUM MOISTURE CONTENT:

<u>MATERIAL</u>	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL, IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

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PRE-FABRICATED TRUSSES:

- 1. DESIGN, FABRICATE, AND INSTALL METAL PLATE CONNECTED TRUSSES MEETING TRUSS PLATE INSTITUTE TPI 1-1995 AND THE MOST CURRENT COPY OF THE AMERICAN FOREST AND PAPER ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
- 2. SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLAN FABRICATED ASSEMBLIES, AND ACCESSORIES. SHOW MEMBER DESIGNINATION SIZES AND CONNECTIONS. SUBMIT DESIGN CALCULATIONS PREPARED BY A LICENSED ENGINEER INDICATING STRENGTHS, STABILITY, AND SERVICEABILITY OF MEMBERS AND CONNECTIONS.
- PROVIDE KILN-DRIED LUMBER MEETING OR EXCEEDING THE FOLLOWING DESIGN VALUES
- Fb = 1,400 PSI Ft = 925 PSI Fc = 1,500 PSI E = 1,600,000 4. BRACE ROOF TRUSSES TO PROVIDE STABILITY DURING AND AFTER CONSTRUCTION.

GENERAL WOOD NOTES:

DIMENSIONAL LUMBER

- 1. DIMENSIONAL LUMBER USED AS STRUCTURAL FRAMING (i.e. JOISTS, RAFTERS, HEADERS) SHALL BE SOUTHERN YELLOW PINE NO.2 OR EQUAL.
- 2. DIMENSIONAL LUMBER USED FOR STUDS WALLS SHALL BE STUD GRADE UNLESS NOTED OTHERWISE.

 STUDS SHALL HAVE BE SPACES AT 16" MIN WITH A DOUBLE TOP PLATE. SPLICES IN THE DOUBLE TOP

 WALLS SHALL BE ALTERNATE TOP AND BOTTOM. IN NO CASE SHALL 2x4 BEARING WALLS SUPPORT MORE

 THAN TWO FLOORS OF FRAMING IN ADDITION TO ROOF AND CEILING
- 3. ROUGH CUT TIMBER USED AS STRUCTURAL FRAMING SHALL BE AS SPECIFIED IN THE CONSTRUCTION DOCUMENTS
- 4. ALL LUMBER IN CONTACT WITH THE GROUND, CONCRETE SHALL BE PRESSURED-TREATED. CONTRACTOR MAY SUBMIT FOR APPROVAL A MOISTURE BARRIER IN-LIEU OF THE PRESSURE TREATED WOOD.
- 5. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL AND SHALL FOLLOW CURRENT SIMPSON GUIDELINES BASED ON WEATHER EXPOSURE WHERE STAINLESS STEEL CONNECTORS OR HOT DIPPED CONNECTORS ARE SPECIFIED IN THE DRAWINGS, STAINLESS STEEL OR HOT DIPPED GALVANIZED FASTENERS SHALL BE USED TO MATCH THE CONNECTORS TYPE.
- 6. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS UNLESS NOTED OR DETAILED OTHERWISE MEETING ASTM F1667. HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILS SHALL HAVE THE MINIMUM PROPERTIES SPECIFIED IN THE TABLE BELOW:

L IVIIIVIIVIOIVI I NOI LI	THE STEEL IN THE TABLE BELOW.	
NAIL TYPE	SHANK DIAMETER- INCHES	MINIMUM PENETRATION - INCI
6d	0.113	1.13
8d	0.131	1.31
10d	0.148	1.48
12d	0.148	1.48
16d	0.162	1.63
20d	0.192	1.92

NAILING NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE PER THE NAILING SCHEDULE BELOW:

\IL	INO INC	OF SHOWIN ON THE STRUCTURAL DRAWINGS SHALL BE	FLIT THE INAILING SCHEDOLL DELOW.
	A.	JOIST SITTING ON SILL OR GIRDER	(3) 8d TOENAILS, EA. SIDE
	В.	BLOCKING BETWEEN JOIST/RAFTERS	(2) 10d TOENAILS EA. SIDE, EA. END
		RIM BLOCKING BETWEEN JOIST/RAFTERS	(3)10d TOENAILS EA. END
	C.	TOP PLATE TO STUD	(2) 16d END NAILS
	D.	STUD TO SILL PLATE	(2) 16d END NAILS OR (4) 8d TOENAILS
	E.	DOUBLE STUDS	(2) 10d @ 12" O.C.
	F.	DOUBLE TOP STUDS - BETWEEN SPLICE NAILING	16d @ 16" O.C. FACE NAILS
	G.	DOUBLE TOP STUDS - EACH SIDE OF SPLICE PLATE	(8) 16d
	H.	BLOCKING TO TOP PLATE	(2) 10d TOENAILS EACH SIDE
		BLOCKING TO FLOOR/ROOF SHEATHING	(4) 10d NAILS
	l.	RIM JOIST OR BLK TO TOP PLATE OR SILL PLATE	8d TOENAILS @ 6" O.C.
	J.	CONTINUOUS (2) AND (3) PIECE HEADERS	16d @ 16" O.C. ALONG EACH EDGE
	K.	CEILING JOIST LAPS OVER PARTITIONS	(3) 16d FACE NAILS, MINIMUM
	L.	RAFTER TO TOP PLATE OR SILL PLATE	(3) 8d TOENAILS EACH SIDE
	M.	BUILT-UP CORNER STUDS	16d @ 24" O.C.
	N.	TONGUE AND GROOVE DECKING	(2) 16d AT EACH BEARING
	Р.	CROSS BRIDGING	(2) 10d EACH END

NAILING SCHEDULE NOTES

R. HORIZONTAL BLOCKING BETWEEN WALL STUDS

I-JOISTS SITTING ON TOP PLATE OR BEAM

- 1. ALL OTHER NAILING REQUIREMENTS NOTE SHOWN ON DRAWINGS OR IN SCHEDULE ABOVE SHALL BE IN ACCORDANCE WITH 2012 FBC.
- 2. POWER DRIVEN OR PNEUMATIC NAILS OTHER THAN COMMON NAILS MAY BE USED IF DATA IS SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

(2) 10d TOENAILS EACH END

(2) 10d NAILS THROUGH JOIST FLANGE

3. MINIMUM NAIL LENGTHS SHALL BE SUFFICIENT TO ACHIEVE MINIMUM PENETRATION INTO MAIN MEMBER AS NOTED IN SCHEDULE ON NOTE ABOVE.

Revision Schedule Revision Number Revision Description Revision Date 0 ISSUED FOR PERMITTING 8/4/20

WOOD STRUCTURAL PANELS

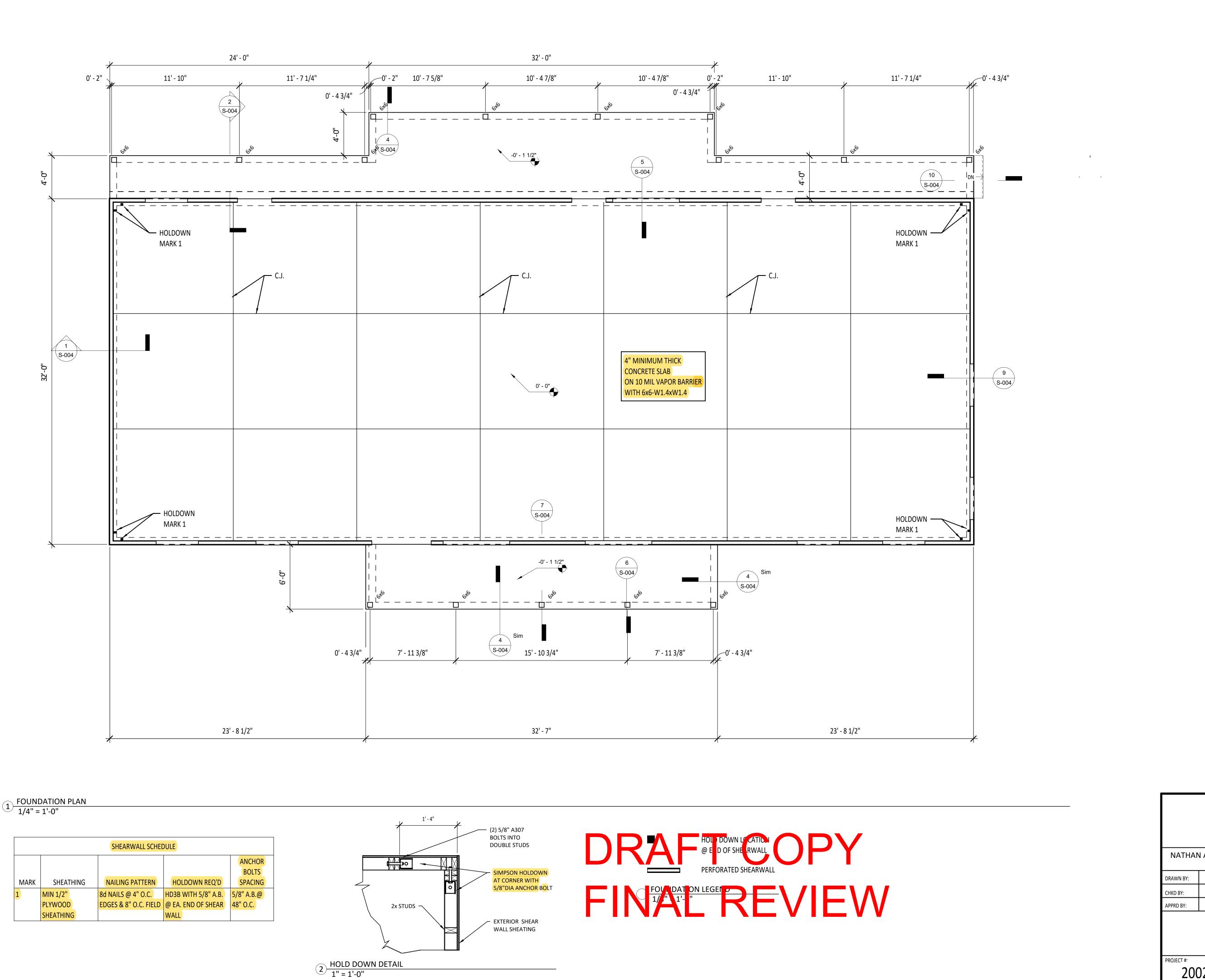
- 1. STRUCTURAL WOOD PANELS SHALL CONFORM TO THE REQUIREMENTS ON ONE OF THE FOLLOWING STANDARDS AND PUBLICATIONS:
 - A. U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD
 - B. U.S. PRODUCT STANDARD PS-2 PERFORMANCE STANDARD FOR WOOD BASED STRUCTURAL USE PANELS
 - C. APA PRP-108 PERFORMANCE STANDARDS
- 2. ROOF AND WALL PANELS SHALL BE APA RATED, EXPOSURE 1, 1/2" OR 5/8" (AS NOTED ON DRAWINGS), 5 PLY PLYWOOD WITH A MIN. 32/16 SPAN RATING UNLESS NOTE OTHERWISE ON THE DRAWINGS. SHEATHING SHALL BE EXTERIOR GRADE WHERE EITHER SIDE OF SHEATHING IS PERMANENTLY EXPOSED TO WEATHER.
- APA RATED 48/24 SPAN RATING) PROVIDE A-C GRADE PLYWOOD AT ALL DECK SHEATHING LOCATIONS.

3. FLOOR SHEATHING SHALL BE TONGUE AND GROOVE APA RATED 5-PLY 3/4" PLYWOOD OR OSB SHEATHING (MIN

- 4. ALL FLOOR AND ROOF SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE SUPPORTS AND A 1/8" GAP AT ALL PANEL EDGES UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUFACTURER.
- 5. ALL SHEATHING PANELS SHALL BE INSTALLED WITH END JOINTS STAGGERED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 6. WHERE BLOCKING IS NOT SPECIFICALLY REQUIRED FOR THE ROOF SHEATHING, PLY CLIPS ON OR TONGUE AND GROOVE PLYWOOD SHALL BE USED.
- 7. SUB-FLOORING SHEATHING SHALL BE UNBLOCKED UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, SUB-FLOOR SHEATHING SHALL BE GLUED DOWN TO THE SUPPORTING MEMBERS AND GLUED AT THE TONGUE AND GROOVE JOINTS.
- 8. ALL NAILS SHALL BE COMMON NAILS. ROOF SHEATHING SHALL UTILIZE RING SHANK NAILS.. STAINLESS STEEL (TYPE 316) NAILS SHALL BE USED AT PERMANENTLY EXPOSED EXTERIOR AREAS. ALL NAILS THAT ARE NOT EXPOSED TO THE ELEMENTS BUT IN CONTACT WITH PRESERVATIVE TREATED LUMBER SHALL BE MINIMUM HOT DIPPED GALVANIZED MEETING ASTM A153.

8/4/2020 4:35:13 PM

MORGAN RESIDENCE COLUMBIA COUNTY, FL NATHAN AND RENEE MORGAN GILL ENGINEERING SERVICES, INC AUTH # 30824 GG DRAWN BY: GARY GILL PE #51942 GG 426 SW COMMERCE DR 130-M CHKD BY: LAKE CITY, FL 32025 386-590-1242 GG APPRD BY: STRUCTURAL NOTES S-001 2002-003



Revision Schedule

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0 ISSUED FOR PERMITTING 8/4/20

MORGAN RESIDENCE

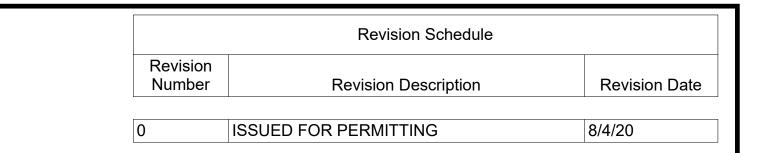
COLUMBIA COUNTY, FL

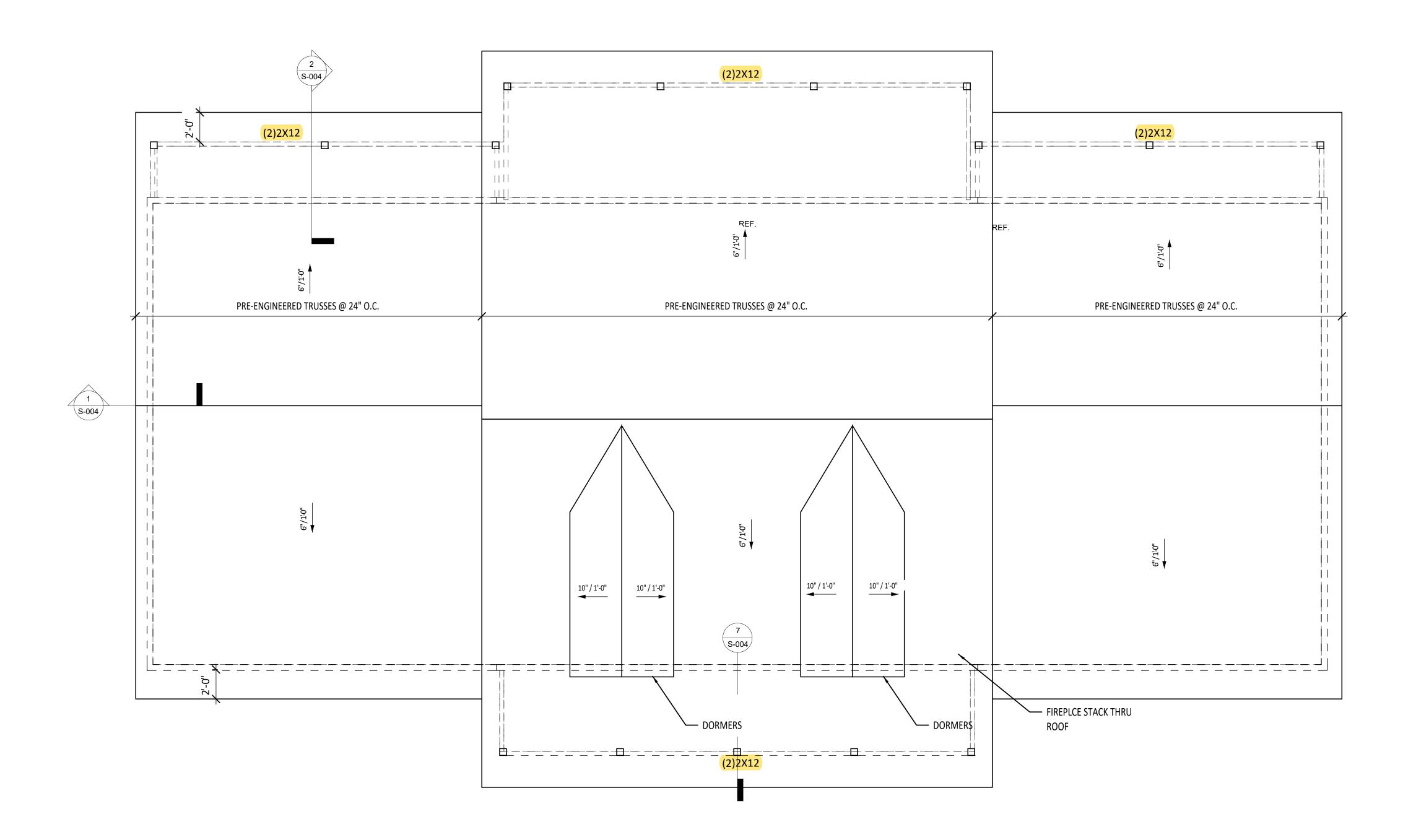
NATHAN AND RENEE MORGAN

GILL ENGINEERING SERVICES, INC
AUTH # 30824
GARY GILL PE #51942
426 SW COMMERCE DR 130-M
LAKE CITY, FL 32025 386-590-1242

FOUNDATION PLAN

DWG #: S-002 REV #: 0



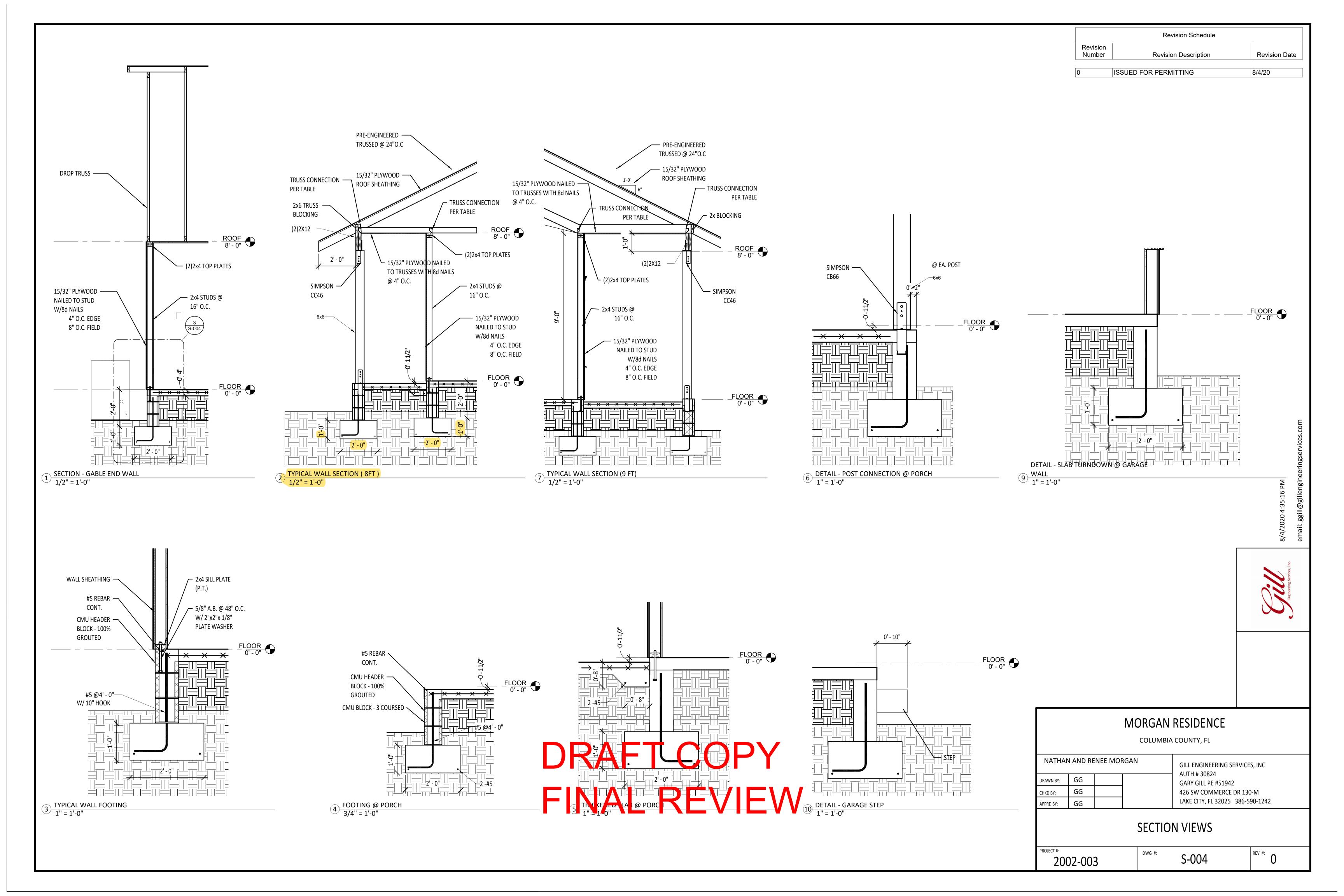


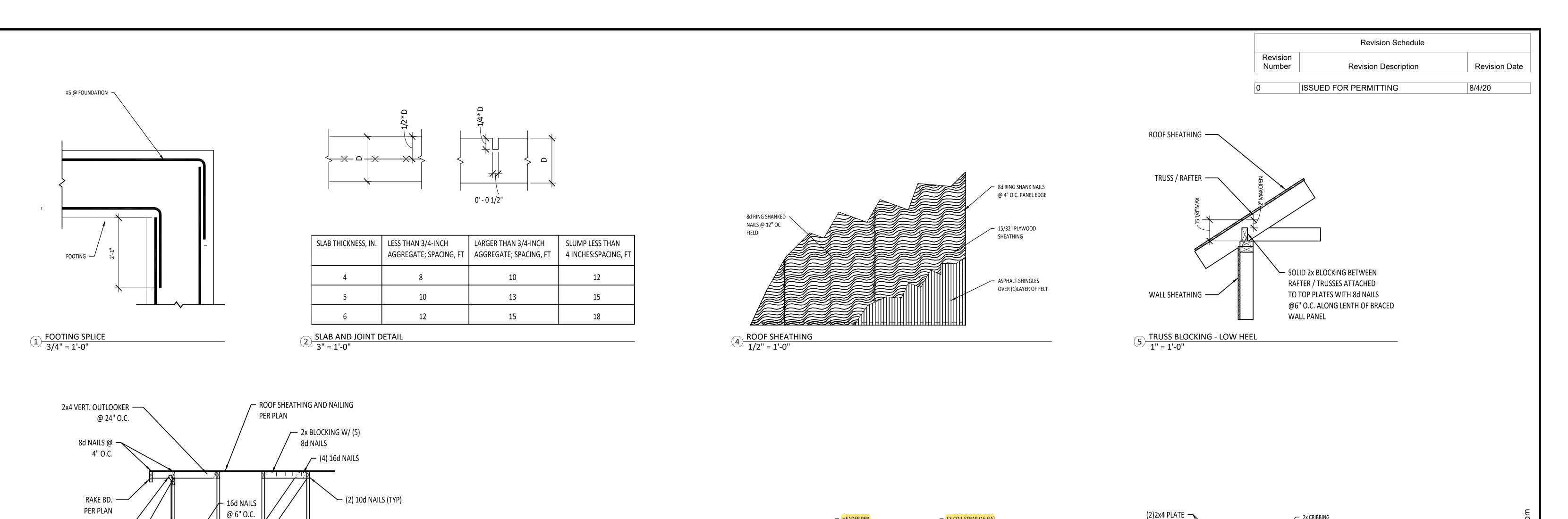
1) ROOF PLAN 1/4" = 1'-0" 8/4/2020 4:35:15 PM email: ggill@gillengineer

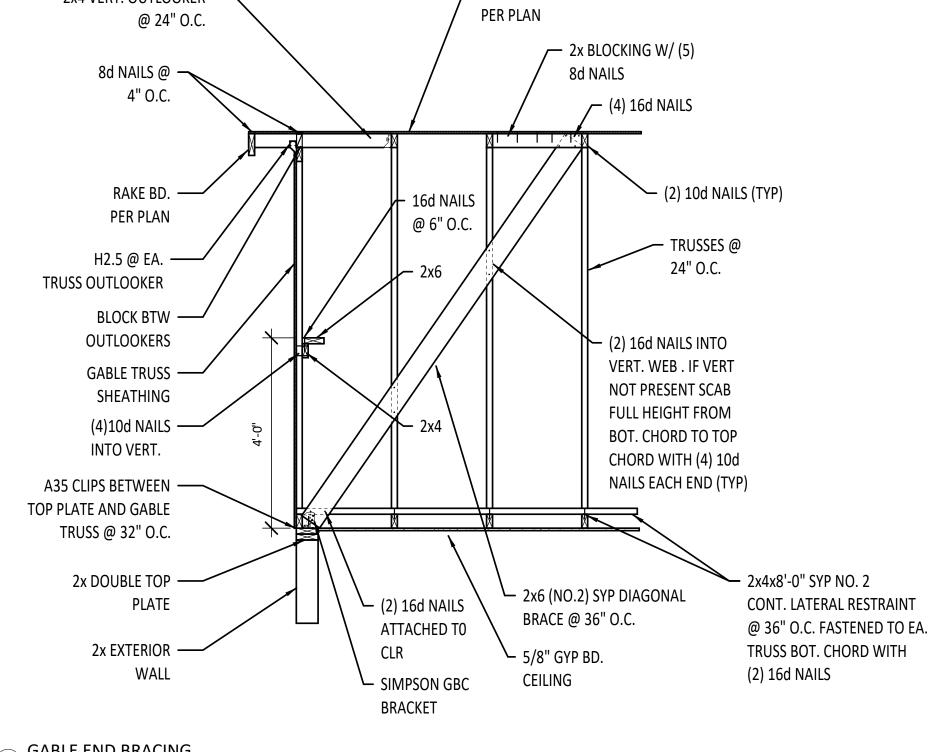


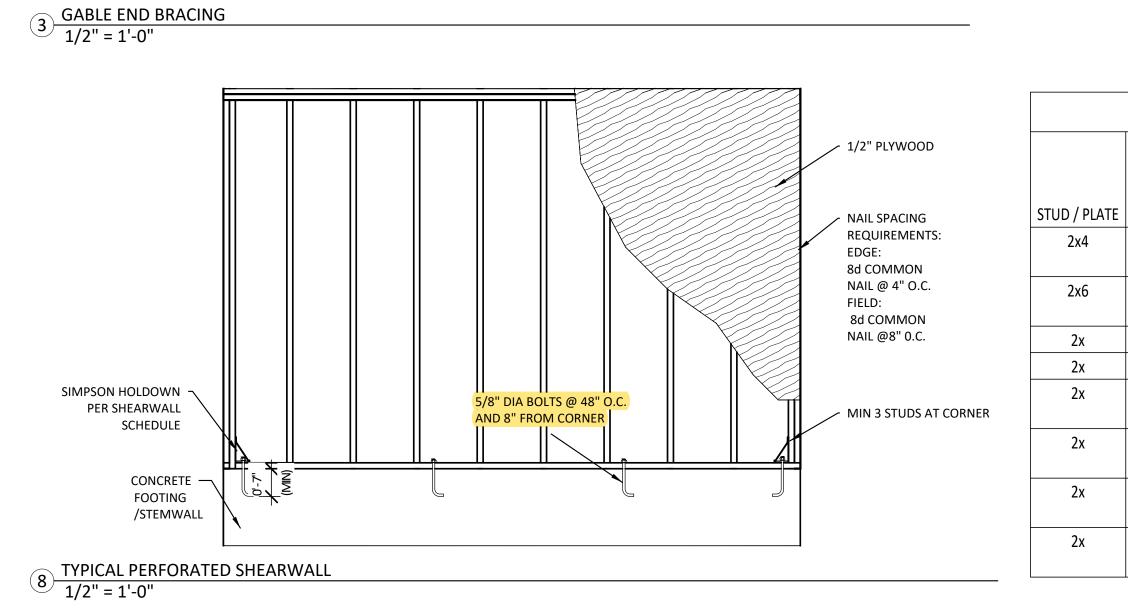
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FINAL REVIEW

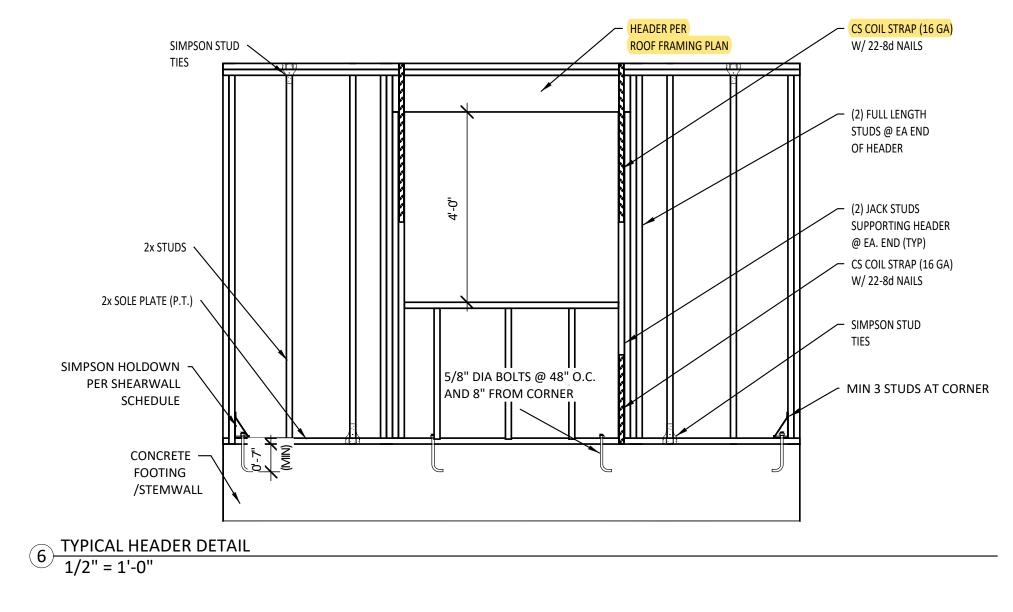
MORGAN RESIDENCE COLUMBIA COUNTY, FL NATHAN AND RENEE MORGAN GILL ENGINEERING SERVICES, INC AUTH # 30824 GG DRAWN BY: GARY GILL PE #51942 GG 426 SW COMMERCE DR 130-M LAKE CITY, FL 32025 386-590-1242 GG **ROOF LAYOUT** REV #: S-003 2002-003











NAILS REQ'D NAILS REQ'D

PLATE

STUD

(6) 10d X 1

1/2"

(6) 10d X 1

(12) 10d x 1

(12) 10d x 1

1/2"

SPH4

SP6

STUD FASTENERS SCHEDULE

SPACING TOP BOTTOM

PLATE

2' - 8"

2' - 8"

32' - 0"

TRUSS UPLIFT | STUD UPLIFT

(LB)

< 368

< 368

<1360

(LB)

< 549

< 549

<743 <1328

<1051

<2029

<1015

<2029

2x4

2x6

2x

2x

2x

2x

SPACING

(STAGGERED) (STAGGERED) FASTENER

2' - 8"

32' - 0"

NUMBER OF		FASTENER	FASTENER	REQ. NAILS IN	REQ. NAILS IN
TRUSS PLY	UPLIFT (LBS)	QUANT.	TYPE	TRUSS	PLATE
1	415	1	H2.5	(5) 8d	(5) 8d
1	905	1	H10	(8)8dX 1 1/2"	(8) 8dx 1 1/2"
1	1200	2	H2.5	(10) 8d	(10) 8d
2	870	1	H10S	(8)8dX 1 1/2"	(8) 8dx 1 1/2"
2	2150	1	LGT2	(14) 16d	(16) 16d
				SINKERS	SINKERS
3	3685	1	LGT3-SDS2.5	(26) 16d	(12) SDS
				SINKERS	1/4"x2 1/2"

2x STUDS 🔪

2x SOLE PLATE (P.T.) 🔨

CONCRETE -

FOOTING

7 BEARING 1/2" = 1'-0"

TYPICAL HEADER DETAIL NON-LOAD

		IVIO	KGAN	RESIDENCE		
		(COLUMBIA	A COUNTY, FL		
NATHAN AND RENEE MORGAN		GILL ENGINEERING SERVICES, INC AUTH # 30824				
DRAWN BY:	GG			GARY GILL PE #51942		
CHKD BY:	GG			426 SW COMMERCE DR 130-M		
APPRD BY:	GG			LAKE CITY, FL 32025 386-590-1242		
		CONS	TRUC	TION DETAILS		

(2) FULL LENGTH

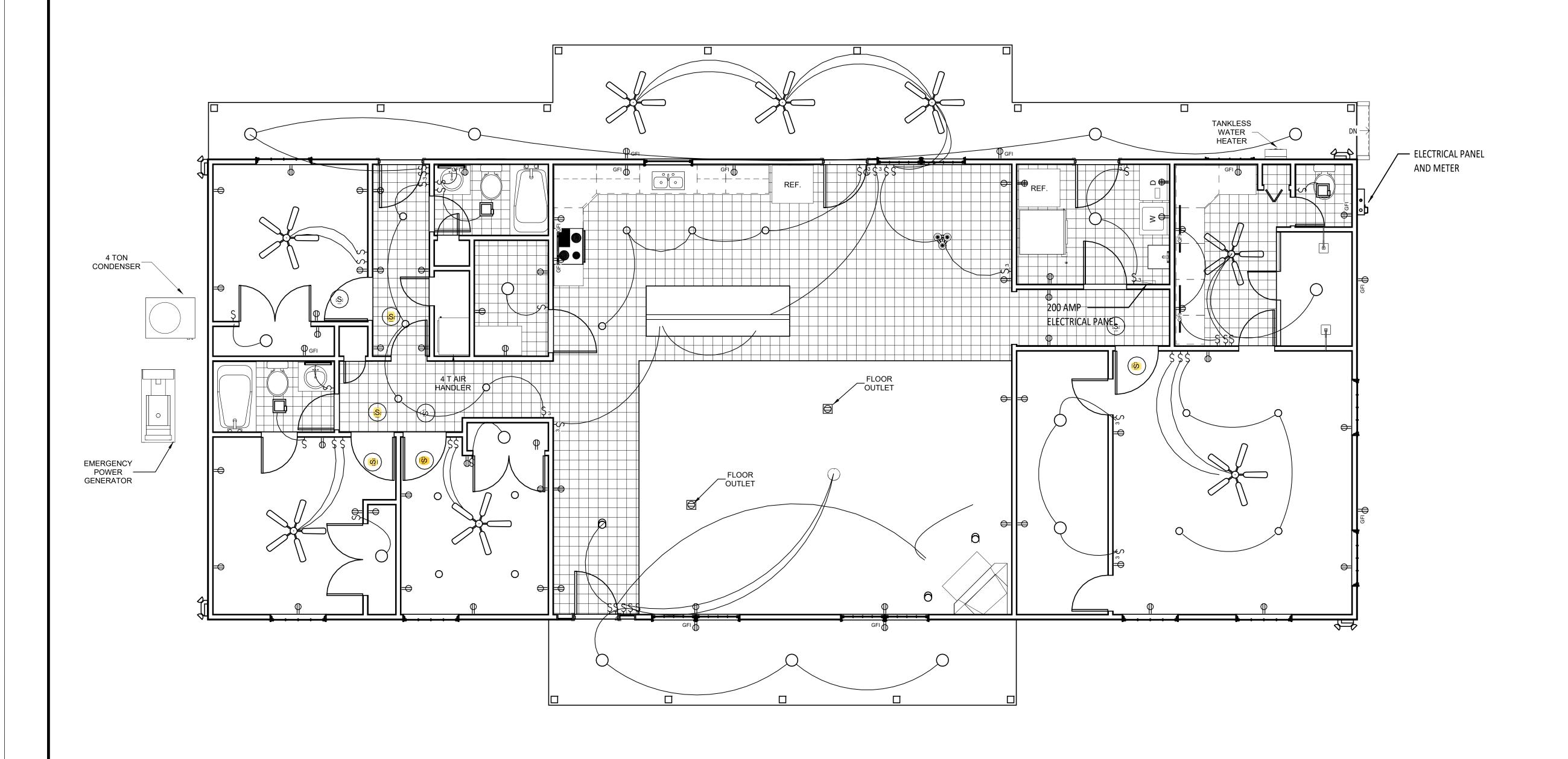
STUDS @ EA END

OF HEADER

(2) JACK STUDS

SUPPORTING HEADER

@ EA. END (TYP)



1. WIRE ALL APPLIANCES, HVAC UNITS AND OTHER

4. ALL SMOKE DETECTORS SHALL BE 120V WITH BATTERY BACKUP OF THE PHOTOELECTRIC TYPE AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND

5. TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER OWNER'S DIRECTIONS, & IN ACCORDANCE WITH APPLICABLE

SECTIONS OF NEC - LATEST ADDITION. 6. ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL ELECTRICAL WORK INCLUDING ANY CHANGES TO THE ELECTRICAL PLAN, ADDITIONS TO THE ELCTRICAL PLAN, RISER DIAGRAM,

2 ELECTRICAL NOTES
1/4" = 1'-0"

Revision **Revision Date** Number Revision Description ISSUED FOR PERMITTING 8/4/20 FLOOR OUTLET OUTLET DUPLEX OUTLET DUPLEX - GFI **OUTLET DUPLEX -220** SINGLE SWITCH THREE WAY SWITCH FAN / LIGHT COMBO CEILING LIGHT 6" RECESS CAN LIGHT FLOOD LIGHT **VANITY LIGHT CEILING LIGHT** PENDANT LIGHT 3 LIGHT CHANDELIER 200 AMP PANEL SMOKE DETECTOR CARBON MONOXIDE

Revision Schedule



MORGAN RESIDENCE COLUMBIA COUNTY, FL NATHAN AND RENEE MORGAN GILL ENGINEERING SERVICES, INC AUTH # 30824 GG DRAWN BY: GARY GILL PE #51942 GG 426 SW COMMERCE DR 130-M CHKD BY: LAKE CITY, FL 32025 386-590-1242 GG ELECTRICAL PLAN I REV #: DWG #: E-001 2002-003

1 ELECTRICAL 1/4" = 1'-0"

ALL ELECTRICAL SYSTEMS, COMPONENTS, AND DEVICES TO BE DESIGNED BY A CERTIFIED ELECTRICAL CONTRACTOR. ALL INFORMATION ON ELECTRICAL PLANS ARE CONCEPTUAL ONLY AND NOT INTENDED TO SERVE AS DESIGN DOCUMENTS

EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.
2. CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

3. INSTALLATION SHALL BE PER NATIONAL ELECTRIC CODE. NEAR ALL BEDROOMS.

TYPE WITH RATINGS AND LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF "AS-BUILT" DRWINGS TO
OWNER AND 1 COPY TO PERMITTING AUTHORITY.
7. ALL BEDROOM RECEPTACLES SHALL BE ON AFCI
PROTECTED CIRCUITS.
8. ALL BATHROOM RECEPTICALS SHALL BE GFIC.

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