



Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR CONSTRUCTION	1/23/23

DOOR SCHEDULE				
Mark	Width	Height	Finish	Description
1	3'-0"	6'-8"		
2	3'-0"	6'-8"		
3	5'-0"	6'-8"		
4	5'-0"	6'-8"		
5	3'-0"	6'-8"		POCKET DOOR
6	2'-8"	6'-8"		
7	5'-0"	6'-8"		
8	2'-8"	6'-8"		

WINDOW SCHEDULE				
MARK	ROUGH WIDTH	ROUGH HEIGHT	DESCRIPTION	
1	3'-1 3/4"	4'-11 3/4"	Vent Window	
2	3'-1 3/4"	4'-11 3/4"	Vent Window	
3	3'-1 3/4"	4'-11 3/4"	Vent Window	
4	3'-5 3/4"	2'-11 3/4"	Fixed Window	
5	3'-5 3/4"	2'-11 3/4"	Fixed Window	
6	3'-1 3/4"	4'-11 3/4"	Vent Window	

SHEET SCHEDULE				
SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	DESCRIPTION
A-001	FLOOR PLAN	0	1/23/23	ISSUED FOR CONSTRUCTION
A-002	ELEVATIONS	0	1/23/23	ISSUED FOR CONSTRUCTION
S-001	STRUCTURAL NOTES	0	1/23/23	ISSUED FOR CONSTRUCTION
S-002	STRUCTURAL PLANS	0	1/23/23	ISSUED FOR CONSTRUCTION
S-003	DETAILS	0	1/23/23	ISSUED FOR CONSTRUCTION

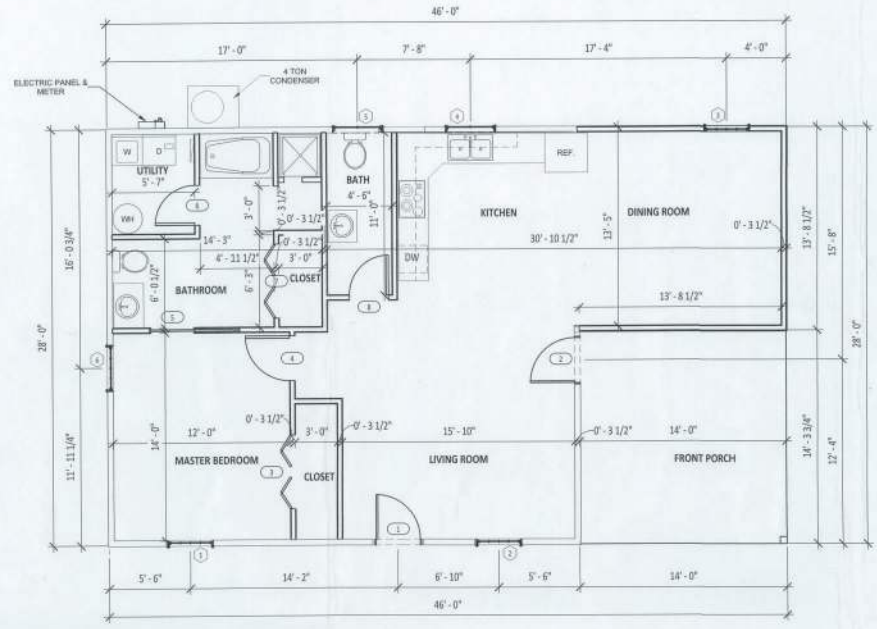
- NEW 2x4 EXTERIOR WALL
- EXIST 2x4 EXTERIOR WALL WITH NEW WALL SHEATHING
- 2x4 INTERIOR WALL

WALL LEGEND  
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**

- ELECTRICAL PLAN NOTES:**
- WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS. CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.
  - INSTALLATION SHALL BE PER NATIONAL ELECTRIC CODE.
  - ALL SMOKE DETECTORS SHALL BE 120V WITH BATTERY BACKUP OF THE PHOTOELECTRIC TYPE AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.
  - 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.
  - ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELECTRICAL PLAN, ADDITIONS TO THE ELECTRICAL PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE WITH ALL CIRCUITS IDENTIFIED WITH CIRCUIT NUMBER, DESCRIPTION, AND BREAKER SERVICE ENT. AND ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIAGRAM SHALL INCLUDE WIRE SIZES/TYPES AND EQUIPMENT TYPE WITH RATINGS AND LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF "AS-BUILT" DRAWINGS TO OWNER AND 1 COPY TO PERMITTING AUTHORITY.
  - ALL BEDROOM RECEPTILES SHALL BE ON AFCI PROTECTED CIRCUITS.
  - ALL BATHROOM RECEPTILES SHALL BE GFCI.

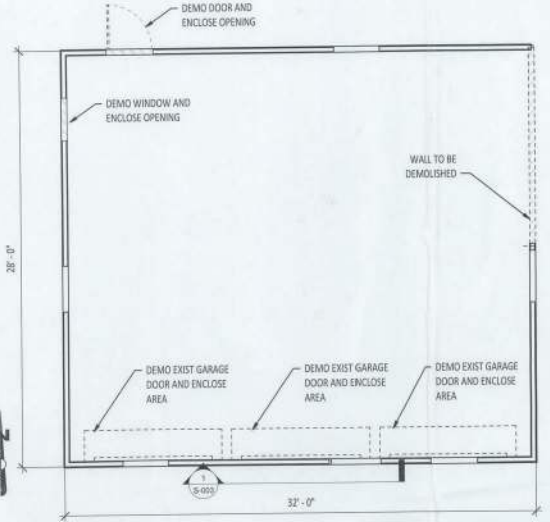
**ELECTRICAL NOTES**  
1/4" = 1'-0"



**TOTAL HEATED AREA = 1288 S.F.**

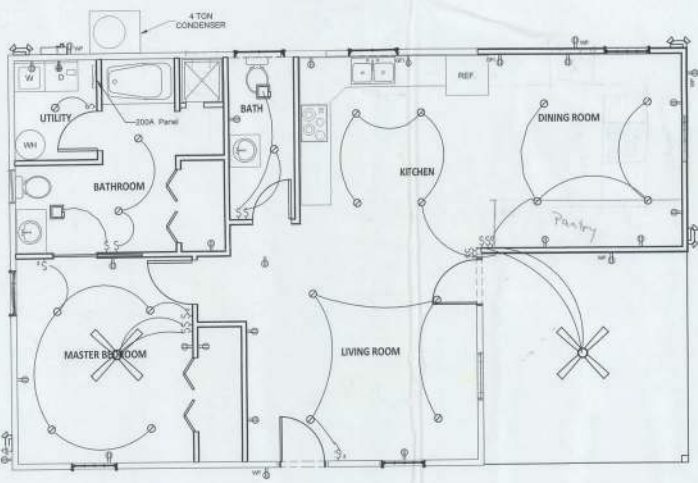
- FLOOR OUTLET
- OUTLET DUPLEX
- OUTLET DUPLEX - GFI
- OUTLET DUPLEX - 220
- SINGLE SWITCH
- THREE WAY SWITCH
- FAN / LIGHT COMBO
- CEILING LIGHT
- 6" RECESS CAN LIGHT
- FLOOD LIGHT
- VANITY LIGHT
- CEILING LIGHT
- PENDANT LIGHT
- 3 LIGHT CHANDELER
- 200 AMP PANEL
- SMOKE DETECTOR
- CARBON MONOXIDE ALARMS

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



**EXISTING BUILDING**  
1/4" = 1'-0"

**FLOOR PLAN**  
1/4" = 1'-0"



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

**JOHNSON RESIDENCE**  
COLUMBIA COUNTY, FL

DARRELL JOHNSON		GILL ENGINEERING SERVICES, INC ALTA # 30824 GARY GILL PE #51942 426 SW COMMERCE DR 130-M LAKE CITY, FL 32025 386-590-1242	
DRAWN BY:	GG		
ENGD BY:	GG		
APPROV BY:	GG		

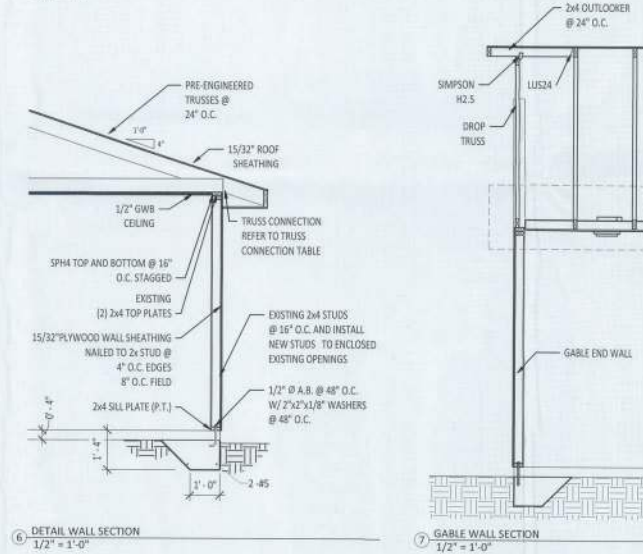
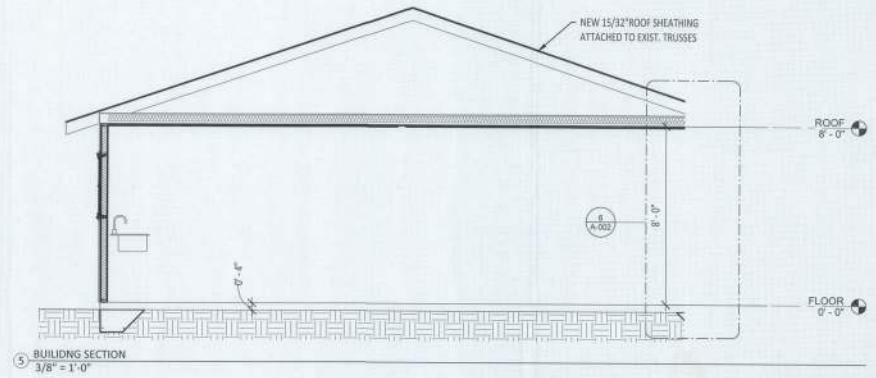
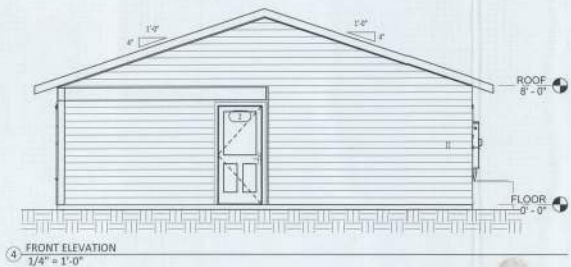
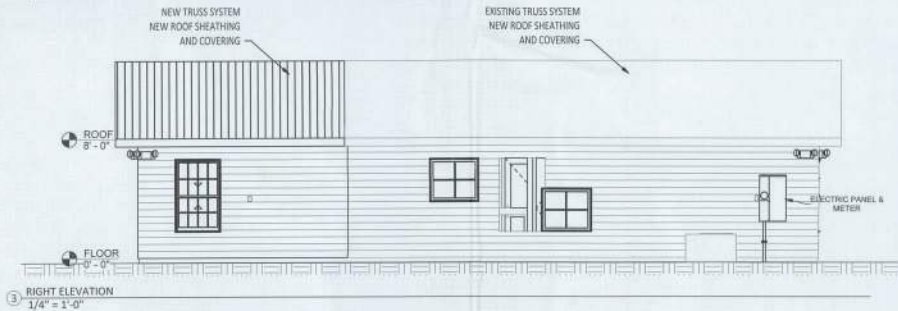
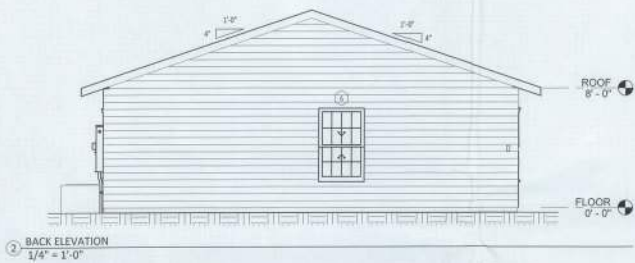
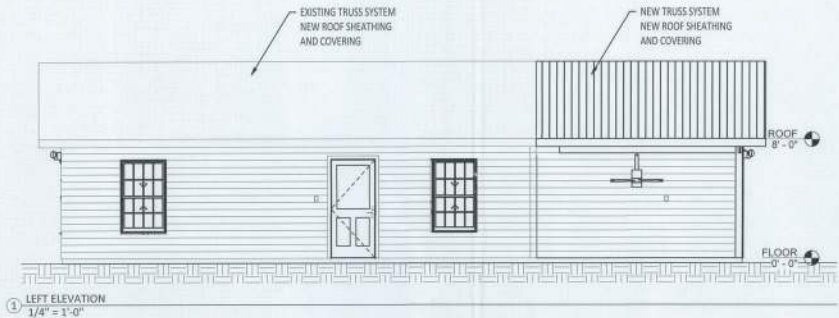
**FLOOR PLAN**

PROJECT:	2302-006	DWG #:	A-001	REV #:	0
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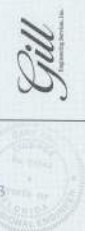
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0	ISSUED FOR CONSTRUCTION	1/23/23



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JOHNSON RESIDENCE			
COLUMBIA COUNTY, FL			
DARRELL JOHNSON		GILL ENGINEERING SERVICES, INC.	
DRAWN BY:	GG	AUTH #	30824
CHD BY:	GG	GARY GILL PE #	451942
APPRO BY:	GG	426 SW COMMERCE DR 130-M	LAKE CITY, FL 32025 386-590-1242
ELEVATIONS			
PROJECT #	2302-006	DWG #	A-002
REV #	0		

**GENERAL NOTES:**

- ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2020 FBC (7TH 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 CONSTRUCTION METHODS AND SEQUENCES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING STRUCTURES. THE ENGINEER SHALL BE NOTIFIED ON ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.
- DESIGN CRITERIA**
  - CODE: 2020 FBC (7TH ED)
  - LOADS AND DESIGN CRITERIA: THE FOLLOWING LOADS AND CRITERIA WERE USED IN ADDITION TO THE DEAD LOAD OF THE STRUCTURE.
 

LIVE LOADS:	
ROOF:	20 PSF
CEILING:	10 PSF

**SOIL CRITERIA:**

ALLOWABLE SOIL BEARING	2000 PSF
PASSIVE PRESSURE	150 PCF
FRICTION COEFFICIENT	0.35

**WIND CRITERIA:**

WIND SPEEDS:	130 MPH (3-SECOND GUST)
CATEGORY:	II
EXPOSURE:	B
INTERNAL PRESSURES:	+/- 0.18
CLADDING AND COMPONENTS:	
ZONE 1	21.3 / 34.15 PSF
ZONE 2	21.5 / 59.45 PSF
ZONE 3	21.5 / 49.75 PSF
ZONE 4	37.32 / 40.48 PSF
ZONE 5	37.32 / 49.96 PSF

**CONCRETE AND REINFORCING STEEL:**

- ALL CONCRETE DESIGNED PER CURRENT EDITION OF ACI 318
- CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
  - FOUNDATION WALLS, PIERS, AND FOOTINGS: 3000 PSI
  - SLAB ON GARE: 3000 PSI
  - ALL OTHER CONCRETE: 3000 PSI
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NORMAL AIR DENSITY OF 1.45 Pcf.
- 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
- MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS
- 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
- ALL REINFORCING STEEL: ASTM A615 GRADE 60, ALL WELDED WIRE FABRIC ASTM A185

**REINFORCING STEEL:**

- ALL BAR REINFORCEMENT SHALL BE CONFORM TO ASTM 615 GRADE 60.
- WELD WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
- CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SHALL BE CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAILS):
  - UNIFORMED SURFACES IN CONTACT WITH GROUND (FOOTING OR WALL BOTTOM).....3"
  - SLAB ON GRADE.....2 1/2"
  - FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS, PIERS).....2"
  - IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS.
 NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR SECTIONS 10" OR LESS AND + 1/2" FOR SECTIONS OVER 10" THICK.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWINGS
- 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.
- ALL WORKMANSHIP AND MATERIAL SHALL BE CONFORMED TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315)
- ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS PLACED.
- WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT CONTINUOUS ENDS.
- WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MIN.
- ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLES PROVIDED IN THE GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIREMENTS OF THE LATEST EDITION OF AISC
- SLABS AND WALLS SHALL NOT BE SLEEVED OR BONED OUT OR HAVE THEIR REINFORCEMENT INTERRUPTED EXCEPT SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.
- SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT / ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCEMENT.
- BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACE SHALL BE GALVANIZED AND PLASTIC TIPPED.

**ADDITION CONCRETE ITEMS:**

**SLAB AND WALL REINFORCING LAP SPICE LENGTHS**

LAP SPICE LENGTHS FOR REINFORCING IN 4000 PSI CONCRETE AS FOLLOWS			
BAR SIZE	TENSION SPICE	OTHER	DEVELOPMENT LENGTH
#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 SPICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE AS FOLLOWS			
BAR SIZE	TENSION SPICE	OTHER	DEVELOPMENT LENGTH
#3	21"	15"	13"
#4	29"	20"	17"
#5	35"	25"	21"
#6	46"	33"	27"
#7	63"	45"	37"
#8	83"	59"	49"

**NOTES:**

- LAPPED SPICE LENGTHS BASED ON ASTM A-615, GRADE 60, REBAR
- REINFORCING BARS CLASSIFIED AS TOP BARS WHEN MORE THAN 12" DN CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
- COMPRESSION SPLICES SHALL PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS
- TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS, AND WALLS UNLESS OTHERWISE NOTED.
- WHEN LAPPING LARGER BARS WITH SMALLER BARS, LAP LENGTH FOR SMALLER BAR SHALL COVER RESPECTIVE SPICE.
- 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:**

- 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.
- 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:**

- 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.
- THE DESIGN OF STRAIGHT POST-INSTALLED REINFORCING BARS SHALL BE PERFORMED PER THE DEVELOPMENT AND SPICE 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.
- 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.
- POST-INSTALLED REINFORCING BAR INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURED PRINTED INSTALLATION INSTRUCTION (IMP1), AS INCLUDED IN THE ANCHOR PACKAGING.

**COMPACTION REQUIREMENTS**

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

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

**PRE-FABRICATED TRUSSES:**

- DESIGN, FABRICATE, AND INSTALL METAL PLATE CONNECTED TRUSSES MEETING TRUSS PLATE INSTITUTE TP 1-1995 AND THE MOST CURRENT COPY OF THE AMERICAN FOREST AND PAPER ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING ERECTION PLAN FABRICATED ASSEMBLIES, AND ACCESSORIES. SHOW MEMBER DESIGNATION 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 Fc = 925 PSI Fv = 1,500 PSI E = 1,600,000
- BRACE ROOF TRUSSES TO PROVIDE STABILITY DURING AND AFTER CONSTRUCTION.

**GENERAL WOOD NOTES:**

**DIMENSIONAL LUMBER**

- DIMENSIONAL LUMBER USED AS STRUCTURAL FRAMING (I.E. JOISTS, RAFTERS, HEADERS) SHALL BE SOUTHERN YELLOW PINE NO. 2 OR EQUAL.
- DIMENSIONAL LUMBER USED FOR STUDS/WALLS SHALL BE STUD GRADE UNLESS NOTED OTHERWISE. STUDS SHALL HAVE SPACES AT 16" ON CENTER 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
- ROUGH CUT TIMBER USED AS STRUCTURAL FRAMING SHALL BE AS SPECIFIED IN THE CONSTRUCTION DOCUMENTS
- ALL LUMBER IN CONTACT WITH THE GROUND, CONCRETE SHALL BE PRESURE-TREATED. CONTRACTOR MAY SUBMIT FOR APPROVAL A MOISTURE BARRIER IN-LEU OF THE PRESSURE TREATED WOOD.
- 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 NAILGUN 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.
- 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:

NAIL TYPE	SHANK DIAMETER - INCHES	MINIMUM PENETRATION - INCHES
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:**

- |  |                                      |
|--|--------------------------------------|
| A. JOIST SITTING ON SILL OR GRIER              | (3) 8d TOENAILS, EA. SIDE            |
| B. 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 SPICE NAILING    | 16d @ 16" O.C. FACE NAILS            |
| G. DOUBLE TOP STUDS - EACH SIDE OF SPICE PLATE | (8) 16d                              |
| H. BLOCKING TO TOP PLATE                       | (2) 10d TOENAILS EACH SIDE           |
| I. BLOCKING TO FLOOR/ROOF SHEATHING            | (4) 10d NAILS                        |
| J. RIM JOIST OR BLK TO TOP PLATE OR SILL PLATE | 8d TOENAILS @ 6" O.C.                |
| K. CONTINUOUS (2) AND (3) PIECE HEADERS        | 16d @ 16" O.C. ALONG EACH EDGE       |
| L. CEILING JOIST LAPS OVER PARTITIONS          | (3) 16d FACE NAILS, MINIMUM          |
| M. RAFTER TO TOP PLATE OR SILL PLATE           | (3) 8d TOENAILS EACH SIDE            |
| N. BUILT-UP CORNER STUDS                       | 16d @ 24" O.C.                       |
| O. TONGUE AND GROOVE DECKING                   | (2) 16d AT EACH BEARING              |
| P. CROSS BRIDGING                              | (2) 10d EACH END                     |
| Q. HORIZONTAL BLOCKING BETWEEN WALL STUDS      | (2) 10d TOENAILS EACH END            |
| R. JOISTS SITTING ON TOP PLATE OR BEAM         | (2) 10d NAILS THROUGH JOIST FLANGE   |

**NAILING SCHEDULE NOTES:**

- ALL OTHER NAILING REQUIREMENTS NOTE SHOWN ON DRAWINGS OR IN SCHEDULE ABOVE SHALL BE IN ACCORDANCE WITH 2012 IRC.
- POWER DRIVEN OR PNEUMATIC NAILS OTHER THAN COMMON NAILS MAY BE USED IF DATA IS SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- MINIMUM NAIL LENGTHS SHALL BE SUFFICIENT TO ACHIEVE MINIMUM PENETRATION INTO MAIN MEMBER AS NOTED IN SCHEDULE ON NOTE ABOVE.

**WOOD STRUCTURAL PANELS**

- STRUCTURAL WOOD PANELS SHALL CONFORM TO THE REQUIREMENTS ON ONE OF THE FOLLOWING STANDARDS AND PUBLICATIONS:
  - U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD
  - U.S. PRODUCT STANDARD PS-2 PERFORMANCE STANDARD FOR WOOD BASED STRUCTURAL USE PANELS
  - APA PRP-108 PERFORMANCE STANDARDS
- 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.
- FLOOR SHEATHING SHALL BE TONGUE AND GROOVE APA RATED 5-PLY 3/4" PLYWOOD OR OSB SHEATHING (MIN APA RATED 48/24 SPAN RATING) PROVIDE A-C GRADE PLYWOOD AT ALL DECK SHEATHING LOCATIONS.
- ALL FLOOR AND ROOF SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE SUPPORT AND A 1/8" GAP AT ALL PANEL EDGES UNLESS OTHERWISE RECOMMENDED OTHERWISE BY THE PANEL MANUFACTURER.
- ALL SHEATHING PANELS SHALL BE INSTALLED WITH END JOINTS STAGGERED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- WHERE BLOCKING IS NOT SPECIFICALLY REQUIRED FOR THE ROOF SHEATHING, PLY CLIPS ON OR TONGUE AND GROOVE PLYWOOD SHALL BE USED.
- 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.
- 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.

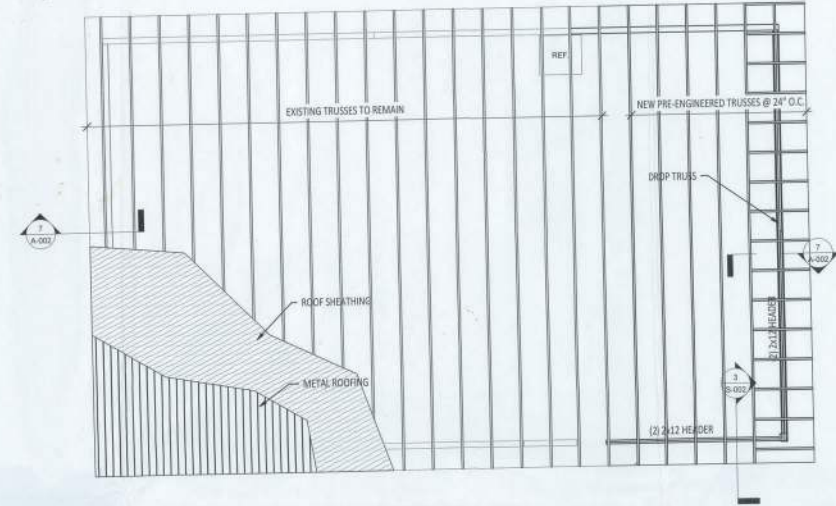
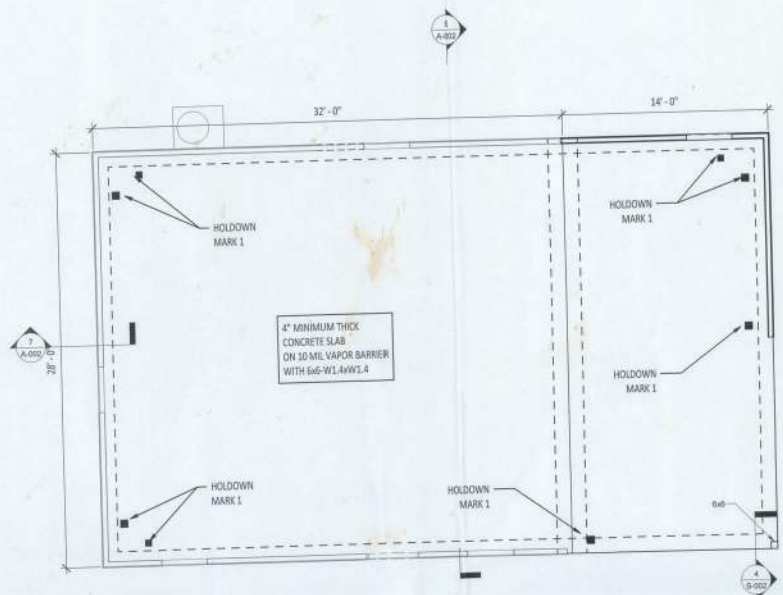
SCOPE OF ENGINEERING LIMITED TO WIND LOAD CALCULATIONS, AND RELATED COMPONENTS AND CLADDING.

1/30/2023 1:26:31 PM  
email: gill@engineeringinc.com



<b>JOHNSON RESIDENCE</b> COLUMBIA COUNTY, FL		
DARRELL JOHNSON		GILL ENGINEERING SERVICES, INC
DRAWN BY: GG		AUTH # 30824
CHECKED BY: GG		GARY GILL PE #51942
APPROVED BY: GG		426 SW COMMERCIAL DR 130-M LAKE CITY, FL 32025 386-990-1242
<b>STRUCTURAL NOTES</b>		
PROJECT #:	2302-006	REV # 0
DWG #:	S-001	

Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR CONSTRUCTION	1/23/23



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

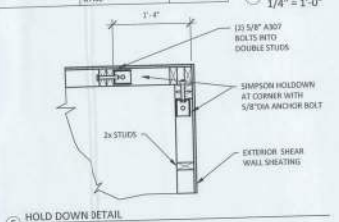
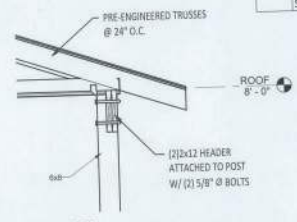
2 ROOF FRAMING  
1/4" = 1'-0"

SHEARWALL SCHEDULE			
MARK	SHEATHING	NAILING PATTERN	HOLD-DOWN REQ'D
1	MIN 1/2" PLYWOOD SHEATHING	8d NAILS @ 4" O.C. EDGES & 8" O.C. FIELD	HOLD WITH 5/8" A.B. @ EA. END OF SHEAR WALL

ANCHOR BOLTS SPACING: 5/8" A.B. @ 48" O.C.

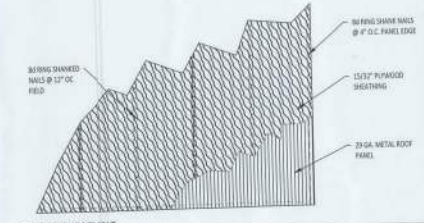
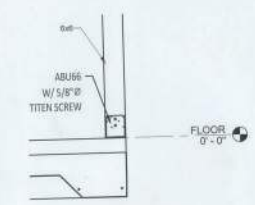
FOUNDATION LEGEND: 1/4" = 1'-0"

■ HOLD-DOWN LOCATION AT END OF SHEARWALL  
▬ PERFORATED SHEARWALL



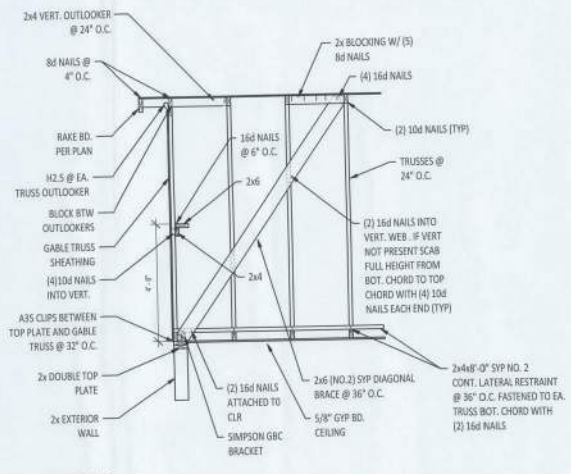
3 HEADER DETAIL  
3/4" = 1'-0"

5 HOLD DOWN DETAIL  
1" = 1'-0"



4 POST CONNECTION  
3/4" = 1'-0"

7 ROOF SHEATHING  
1/2" = 1'-0"



6 GABLE END BRACING  
1/2" = 1'-0"

**JOHNSON RESIDENCE**  
COLUMBIA COUNTY, FL

DARRELL JOHNSON

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

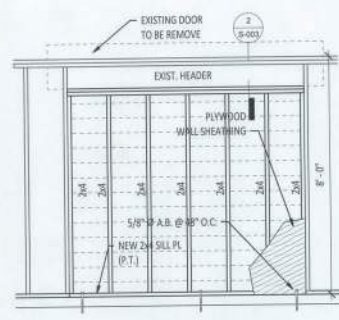
**STRUCTURAL PLANS**

PROJECT # 2302-006    DWG # S-002    REV # 0

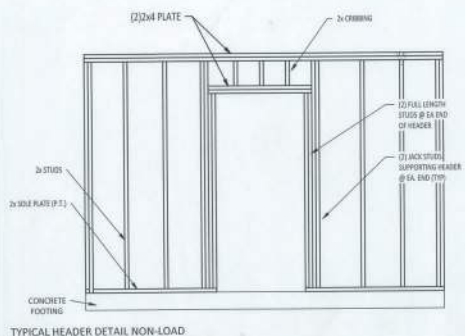


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email: gill@gillengineering.com

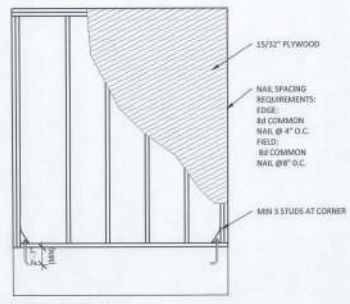
Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR CONSTRUCTION	1/23/23



1 OPENING ENCLOSURE  
1/2" = 1'-0"



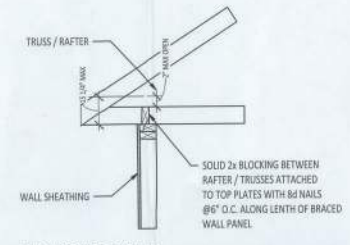
2 TYPICAL HEADER DETAIL NON-LOAD BEARING  
1/2" = 1'-0"



3 TYPICAL SHEARWALL  
1/2" = 1'-0"



4 ENCLOSURE DETAIL  
3/4" = 1'-0"



5 TRUSS BLOCKING - LOW HEEL  
1" = 1'-0"

**STUD FASTENERS SCHEDULE**

STUD / PLATE	TRUSS UPLIFT (LB)	STUD UPLIFT (LB)	SPACING TOP PLATE (STAGGERED)	SPACING BOTTOM PLATE (STAGGERED)	FASTENER	NAILS REQ'D STUD	NAILS REQ'D PLATE
2x4	<549	<368	2'-8"	2'-8"	SP4	(6) 10d X 1 1/2"	
2x6	<549	<368	2'-8"	2'-8"	SP6	(6) 10d X 1 1/2"	
2x	<743	<445	2'-8"	2'-8"	SP2	(6) 10d	(6) 10d
2x	<1328	<890	1'-4"	1'-4"	SP2	(6) 10d	(6) 10d
2x	<1051	<680	2'-8"	2'-8"	SPH4	(12) 10d X 1 1/2"	
2x	<2029	<1360	2'-8"	2'-8"	SP4	(12) 10d X 1 1/2"	
2x	<1015	<680	2'-8"	2'-8"	SP6	(12) 10d X 1 1/2"	
2x	<2029	<1360	32'-0"	32'-0"	SP6	(12) 10d X 1 1/2"	

**TRUSS FASTENER SCHEDULE**

NUMBER OF TRUSS PLY	UPLIFT (LBS)	FASTENER QUANT.	FASTENER TYPE	REQ. NAILS IN TRUSS	REQ. NAILS IN PLATE
1	415	1	H2.5	(5) 8d	(5) 8d
1	905	1	H10	(8) 8d X 1 1/2"	(8) 8d X 1 1/2"
1	1200	2	H2.5	(10) 8d	(10) 8d
2	970	1	H105	(8) 8d X 1 1/2"	(8) 8d X 1 1/2"
2	2150	1	1672	(14) 16d SINKERS	(14) 16d SINKERS
3	3685	1	1673-S052.5	(76) 16d SINKERS	(12) S05 1/4" X 1 1/2"

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email: ggill@gillengineering.com



**JOHNSON RESIDENCE**  
COLUMBIA COUNTY, FL

DARRELL JOHNSON		GILL ENGINEERING SERVICES, INC	
DRAWN BY:	GG	AUTH:	903824
CHD BY:	GG	DATE:	01/23/23
APP'D BY:	GG	PROJECT:	JOHNSON RESIDENCE

**DETAILS**

PROJECT:	2302-006	ENG. #:	S-003	REV. #:	0
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