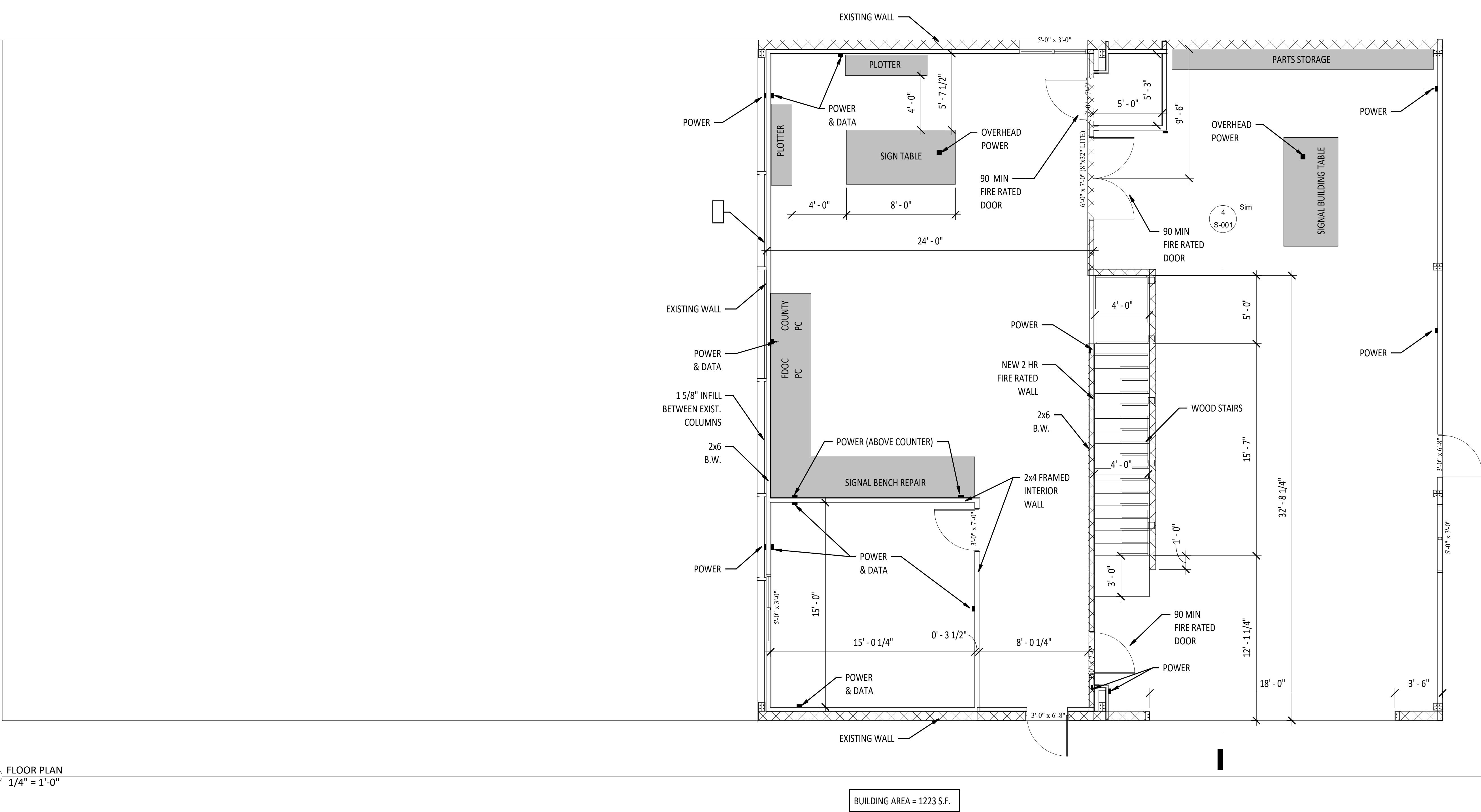




Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMITTING	6/17/24

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

BUILDING AREA = 1223 S.F.

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

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

PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFY ON ANY ELECTRONIC COPIES

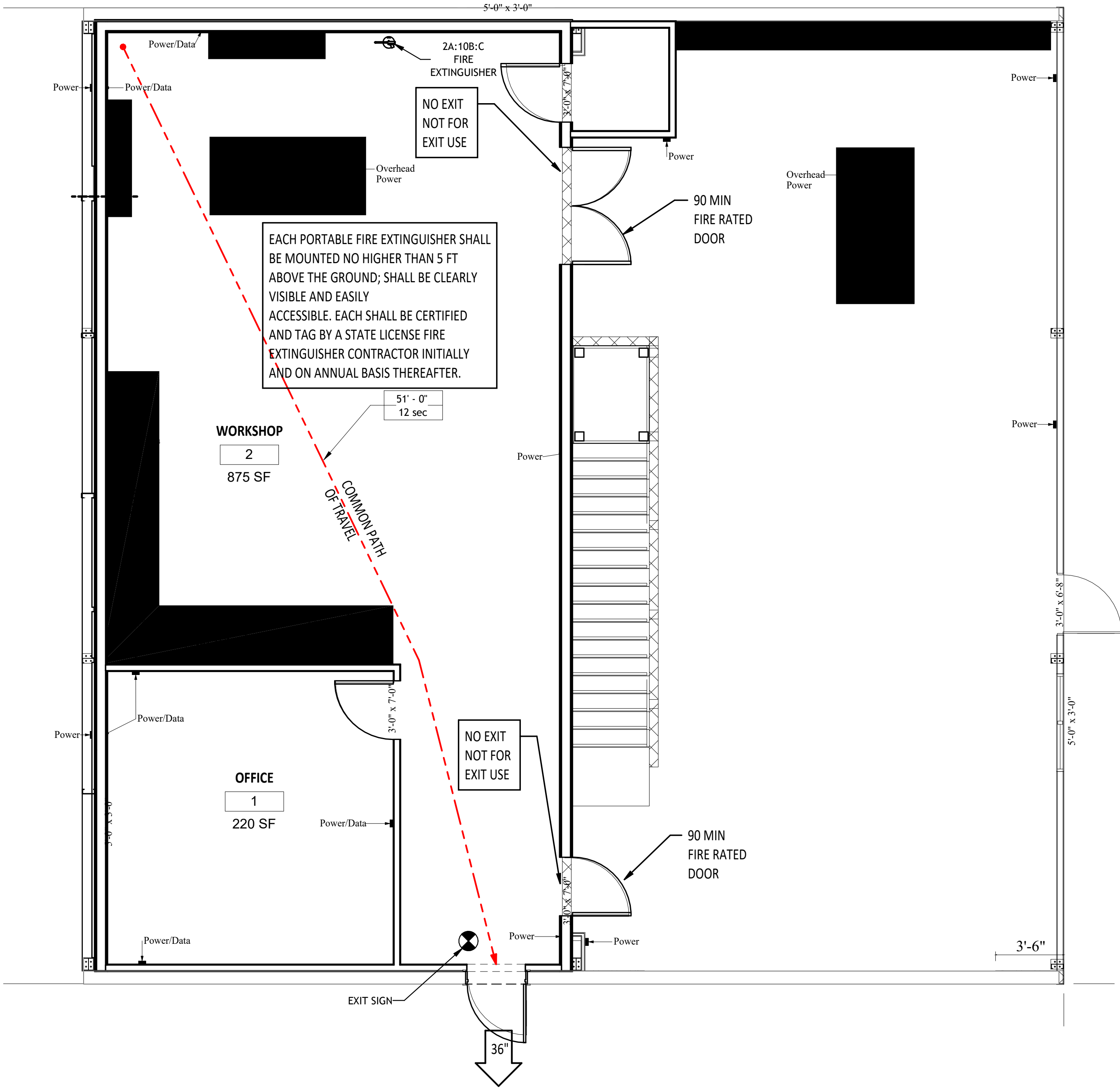
Digitally signed by Gary Gill
Date: 2024.06.17



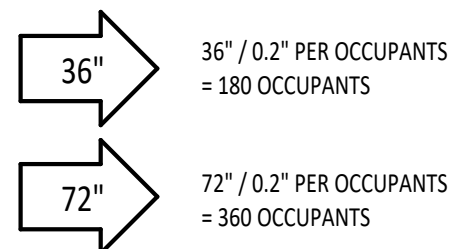
SHEET SCHEDULE			
SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE
A-001	FLOOR PLAN AND POWER PLAN	0	6/17/24
A-002	LIFE SAFETY PLAN	0	6/17/24
S-001	CEILING FRAMING PLAN AND SECTIONS	0	6/17/24
S-002	STRUCTURAL NOTES	0	6/17/24

18:36:28-04:00

TRAFFIC OPERATIONS - WORKSPACE				
COLUMBIA COUNTY, FL				
O'NEAL CONTRACTING			GILL ENGINEERING SERVICES, INC AUTH # 30824 GARY GILL PE #51942 163 SW MIDTOWN PL. SUITE 101 LAKE CITY, FL 32025 386-590-1242	
DRAWN BY:	GG			
CHKD BY:	GG			
APPRD BY:	GG			
FLOOR PLAN AND POWER PLAN				
PROJECT #: 2420-041		DWG #: A-001		REV #: 0



1 LIFE SAFETY PLAN
1/4" = 1'-0"



2 LIFE SAFETY INFORMATION
1/4" = 1'-0"

LIFE SAFETY OCCUPANT LOADS					
Number	NAME	OCCUPANCY CLASSIFICATION	AREA	LOAD FACTOR	OCCUPANT LOAD
1	OFFICE	bUSINESS	220 SF	100 SF	2
2	WORKSHOP	WAREHOUSE	875 SF	500 SF	2
Grand total			1094 SF		4

STANDARDS AND CODES

- RELATED DOCUMENTS: THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND SPECIAL CONDITIONS, (IF ANY), ALONG WITH THE GENERAL REQUIREMENTS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.
- ALL WORK CONTAINED UNDER THIS CONTRACT IS BASED ON THE REQUIREMENTS CONTAINED IN THE LATEST EDITION OF ONE OR MORE OF THE FOLLOWING :
 - FLORIDA BUILDING CODE: 2023 FBC (8th EDITION)
 - FLORIDA PLUMBING CODE: 2023 FBC (8th EDITION)
 - FLORIDA MECHANICAL CODE: 2023 FBC (8th EDITION)
 - FLORIDA FIRE PREVENTION CODE: 2023 FBC (8th EDITION)
 - ANSI A1171.1 (PHYSICAL HANDICAPPED): 2023 FBC (8th EDITION)
 - OTHER STANDARDS AS REFERENCED OR SPECIFIED IN OTHER SECTIONS
 - 2024 NFPA LIFE SAFETY CODE 101
- CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL LAWS, CODES, AND ORDINANCES APPLICABLE TO THE WORK. THIS SHALL INCLUDE FEDERAL, STATE, COUNTY, AND/OR MUNICIPAL ENTITIES HAVING JURISDICTION.
- IF GOVERNING LAWS, CODES OR ORDINANCES CONFLICT WITH THE SPECIFICATION, THEN THE LAWS, CODES OR ORDINANCES SHALL TAKE PRECEDENCE.
- EXCEPT AS OTHERWISE REQUIRED BY THIS SECTION, ALL PRODUCTS AND WORKMANSHIP SHALL CONFORM TO THE BEST QUALITY AND PRACTICES RECOGNIZED BY AGENCIES, ASSOCIATIONS, COUNCILS, ETC., AS SPECIFIED IN INDIVIDUAL SECTIONS.

NEW SPACE INFORMATION

- BUILDING AREA: 1334 S.F.
- CONSTRUCTION TYPE: TYPE "V-B" TABLE 601 - PROTECTED SPRINKLED
 - ALLOWABLE AREA: 92,000 S.F. ACTUAL: 1100 S.F.
 - ALLOWABLE STORIES: 4 ACTUAL: 1
- OCCUPANCY CLASS: BUSINESS GROUP B (OFFICE) & LOW-HAZARD STORAGE GROUP S-2 (WORKSHOP)
- OCCUPANCY LOADING / EGRESS REQUIREMENT
 - BUSINESS AREA: 100 S.F. / FLOOR AREA PER OCCUPANT
 - WAREHOUSE: 500 S.F. / FLOOR AREA PER OCCUPANT
- LIFE SAFETY INFORMATION:

A. COMMON PATH OF EGRESS	TRAVEL - MAX 75 FT	TABLE 1014.3
B. EXIT ACCESS TRAVEL DISTANCE	- MAX 300 FT	TABLE 1016.2
C. TOTAL OCCUPANT LOAD		4 OCCUPANTS



EMERGENCY LIGHT



SELF CONTAINED EMERGENCY LED EXIT SIGN AND LIGHT COMBINATION - MAXIMUM DISTANCE BETWEEN EXIT SIGNS ALONG CORRIDOR SHALL NOT EXCEED 100 FT



2A:10B:C PORTABLE FIRE EXTINGUISHER - 50 FT SPACING

LIFE SAFETY LEGEND
1/4" = 1'-0"

Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMITTING	6/17/24

6/17/2024 6:31:59 PM
email: ggil@gillengineering.com



TRAFFIC OPERATIONS - WORKSPACE

COLUMBIA COUNTY, FL

O'NEAL CONTRACTING

DRAWN BY: GG
CHKD BY: GG
APPRD BY: GG

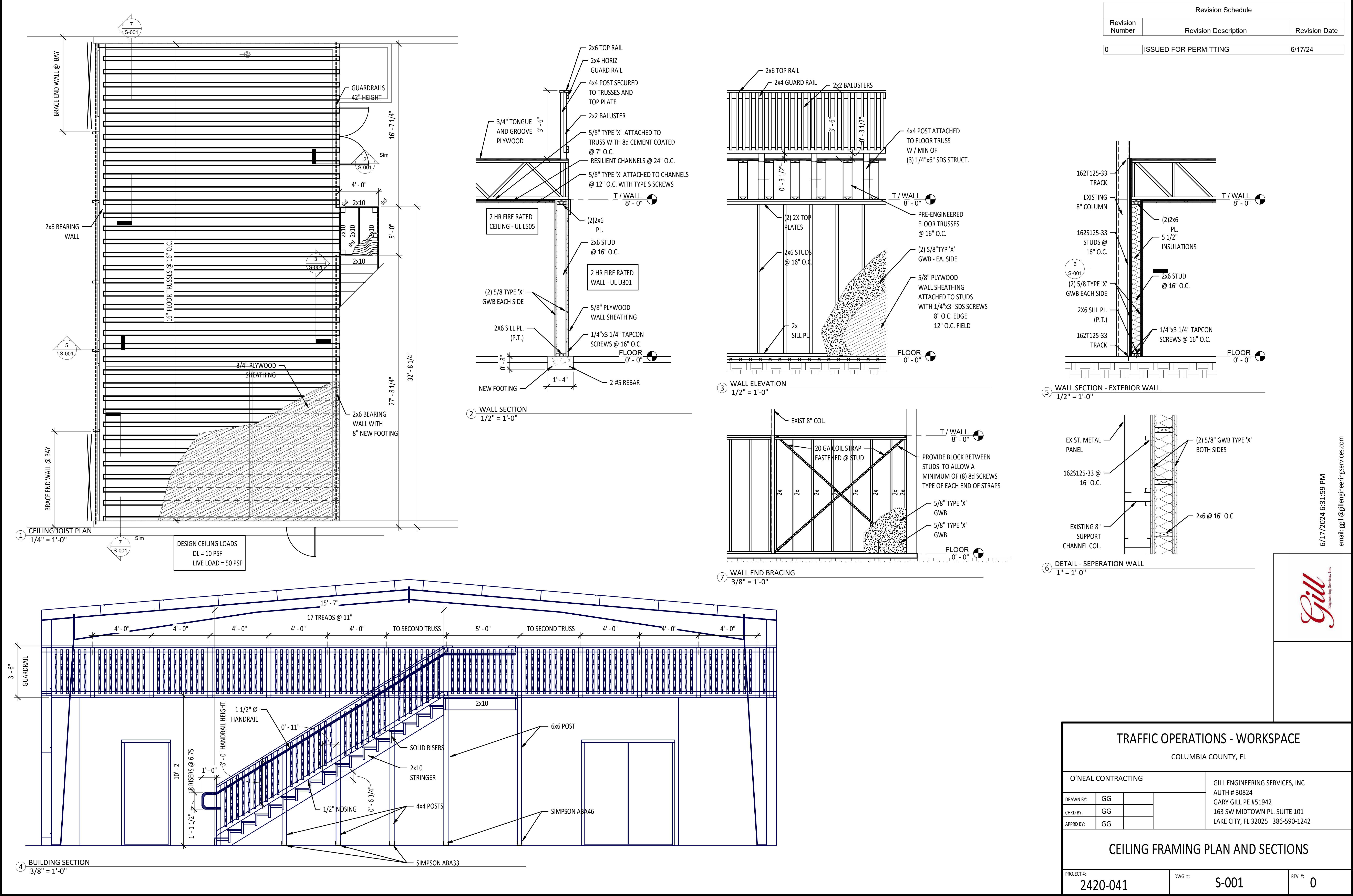
GILL ENGINEERING SERVICES, INC
AUTH # 30824
GARY GILL PE #51942
163 SW MIDTOWN PL. SUITE 101
LAKE CITY, FL 32025 386-590-1242

LIFE SAFETY PLAN

PROJECT #: 2420-041

DWG #: A-002

REV #: 0



Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMITTING	6/17/24

6/17/2024 6:31:59 PM
email: ggil@gillengineering.com



TRAFFIC OPERATIONS - WORKSPACE				
COLUMBIA COUNTY, FL				
O'NEAL CONTRACTING			GILL ENGINEERING SERVICES, INC AUTH # 30824 GARY GILL PE #51942 163 SW MIDTOWN PL. SUITE 101 LAKE CITY, FL 32025 386-590-1242	
DRAWN BY:	GG			
CHKD BY:	GG			
APPRD BY:	GG			
CEILING FRAMING PLAN AND SECTIONS				
PROJECT #:		DWG #:		REV #:
2420-041		S-001		0

GENERAL NOTES:

1.

ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2023 FBC (8TH ED)
2.

THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE AWNINGS INTO THEIR SHOP DRAWINGS AND CONSTRUCTION.
3.

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 VERIFY ALL EXISTING STRUCTURES. THE ENGINEER SHALL BE NOTIFIED ON ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.
5.

DESIGN CRITERIA

A. CODE: 2023 FBC (8TH ED)

B. LOADS AND DESIGN CRITERIA: THE FOLLOWING LOADS AND CRITERIA WERE USED IN ADDITION TO THE DEAD LOAD OF THE STRUCTURE.

LIVE LOADS:
MEZZANINE LIVE LOADS: 50 PSF (MAX)

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

CONCRETE AND REINFORCING STEEL:

1.

ALL CONCRETE DESIGNED PER CURRENT EDITION OF AC1 318
2.

CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

A. FOUNDATION WALLS, PIERS, AND FOOTINGS

3000 PSI

B. SLAB ON CARE:

3000 PSI

C. ALL OTHER CONCRETE

3000 PSI
3.

ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NORMAL AIR DENSITY OF 145 PSF.
4.

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 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.

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:

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 GIRDER

(3) 8d TOENAILS, EA. SIDE
- B.

BLOCKING BETWEEN JOIST/RAFTERS

(2) 10d TOENAILS EA. SIDE, EA. END
- C.

RIM BLOCKING BETWEEN JOIST/RAFTERS

(3)10d TOENAILS EA. END
- D.

TOP PLATE TO STUD

(2) 16d END NAILS
- E.

STUD TO SILL PLATE

(2) 16d END NAILS OR (4) 8d TOENAILS
- F.

DOUBLE STUDS

(2) 10d @ 12" O.C.
- G.

DOUBLE TOP STUDS - BETWEEN SPLICE NAILING

16d @ 16" O.C. FACE NAILS
- H.

DOUBLE TOP STUDS - EACH SIDE OF SPLICE PLATE

(8) 16d
- I.

BLOCKING TO TOP PLATE

(2) 10d TOENAILS EACH SIDE
- J.

BLOCKING TO FLOOR/ROOF SHEATHING

(4) 10d NAILS
- K.

RIM JOIST OR BLK TO TOP PLATE OR SILL PLATE

8d TOENAILS @ 6" O.C.
- L.

CONTINUOUS (2) AND (3) PIECE HEADERS

16d @ 16" O.C. ALONG EACH EDGE
- M.

CEILING JOIST LAPS OVER PARTITIONS

(3) 16d FACE NAILS, MINIMUM
- N.

RAFTER TO TOP PLATE OR SILL PLATE

(3) 8d TOENAILS EACH SIDE
- O.

BUILT-UP CORNER STUDS

16d @ 24" O.C.
- P.

TONGUE AND GROOVE DECKING

(2) 16d AT EACH BEARING
- Q.

CROSS BRIDGING

(2) 10d EACH END
- R.

HORIZONTAL BLOCKING BETWEEN WALL STUDS

(2) 10d TOENAILS EACH END
- S.

I-JOISTS SITTING ON TOP PLATE OR BEAM

(2) 10d NAILS THROUGH JOIST FLANGE

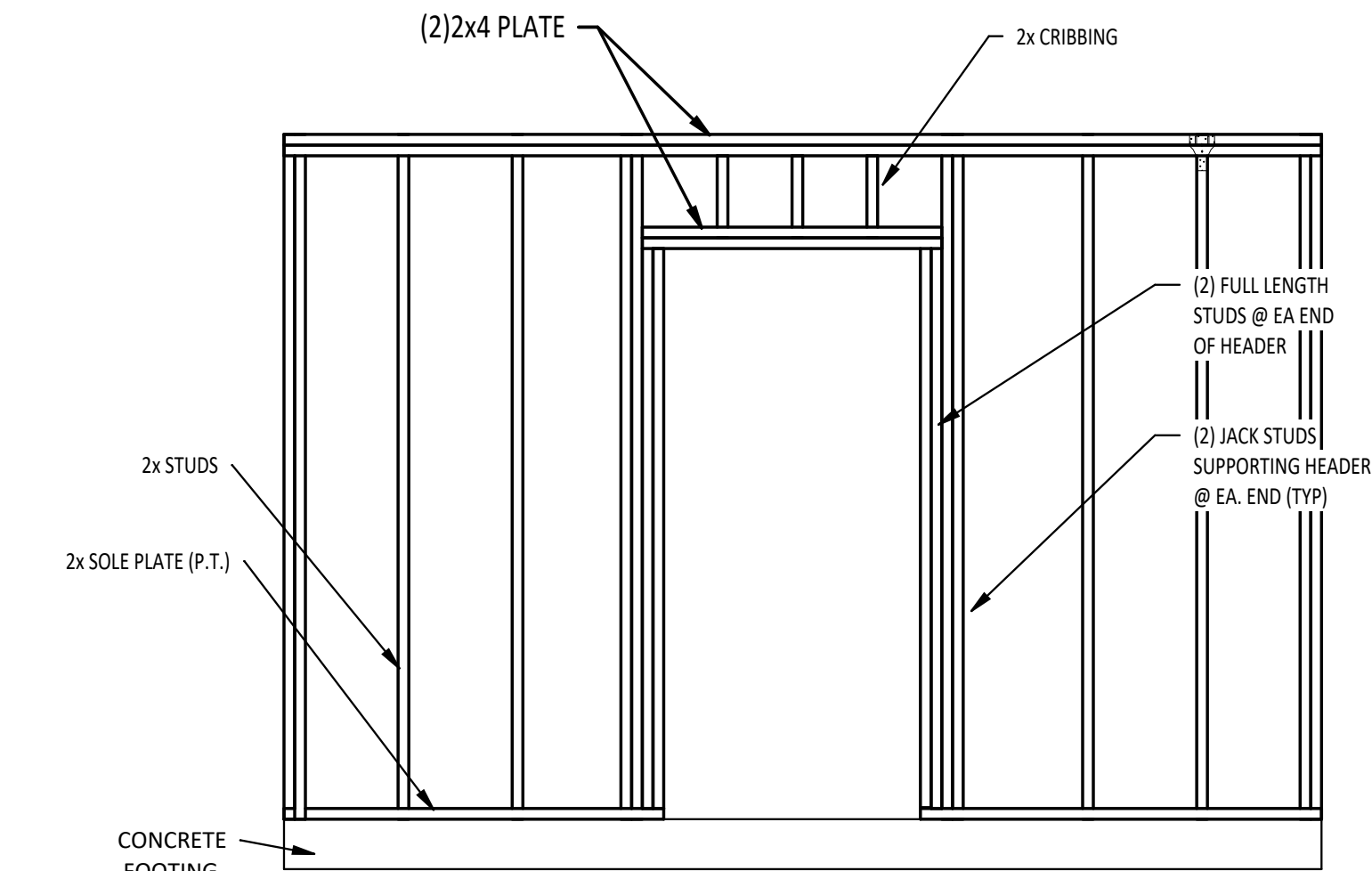
NAILING SCHEDULE NOTES:

1.

ALL OTHER NAILING REQUIREMENTS NOTE SHOWN ON DRAWINGS OR IN SCHEDULE ABOVE SHALL BE IN ACCORDANCE WITH 2012 FBC.
2.

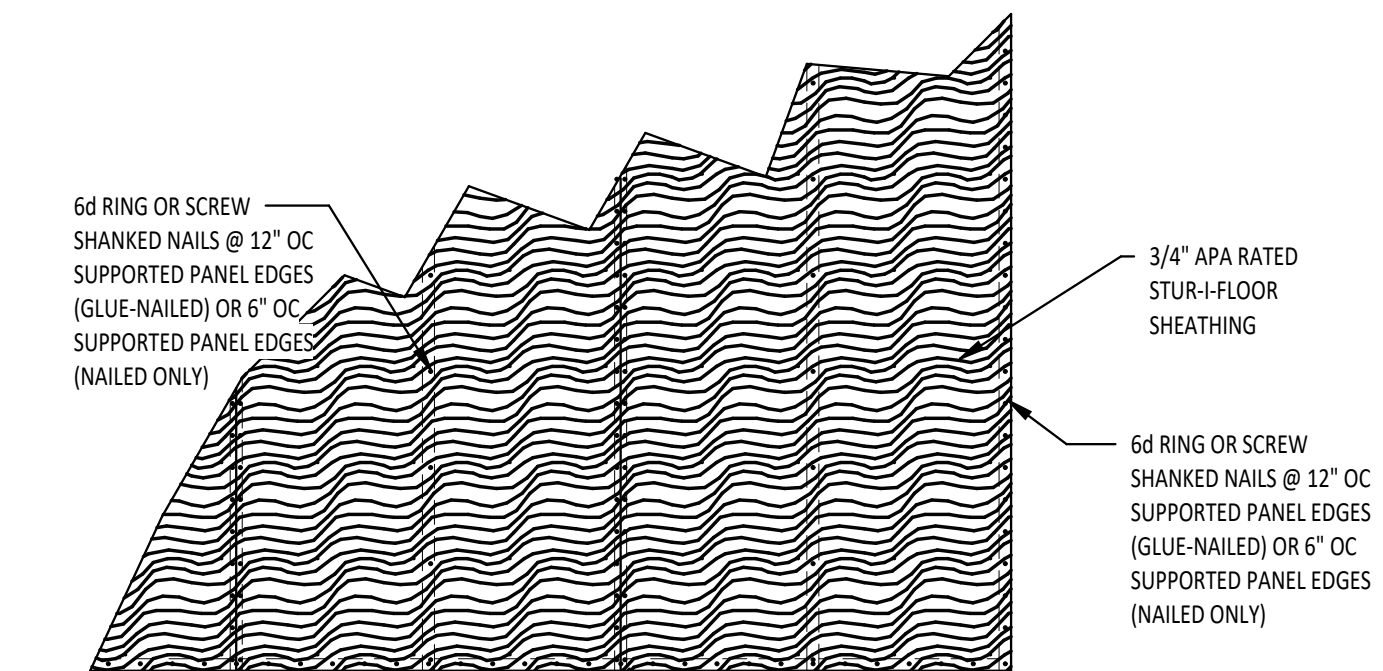
POWER DRIVEN OR PNEUMATIC NAILS OTHER THAN COMMON NAILS MAY BE USED IF DATA IS SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
3.

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



TYPICAL HEADER DETAIL NON-LOAD

BEARING
1/2" = 1'-0"



FLOOR SHEATHING
1/2" = 1'-0"

Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMITTING	6/17/24

6/17/2024 6:31:59 PM
email: ggil@gillengineeringervices.com



TRAFFIC OPERATIONS - WORKSPACE

COLUMBIA COUNTY, FL

O'NEAL CONTRACTING				GILL ENGINEERING SERVICES, INC AUTH # 30824 GARY GILL PE #51942 163 SW MIDTOWN PL. SUITE 101 LAKE CITY, FL 32025 386-590-1242
DRAWN BY:	GG			
CHKD BY:	GG			
APPRD BY:	GG			

STRUCTURAL NOTES

PROJECT #:	DWG #:	REV #:
2420-041	S-002	0