Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMIT	2/18/23

GENERAL NOTES:

1. ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2020 FBC (7TH ED)
2. THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS.
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 VERITY ALL EXISTING STRUCTURES. THE ENGINEER SHALL BE NOTIFIED ON ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.
5. DESIGN CRITERIA
   - A. CODE: 2020 FBC (7TH ED)
   - B. 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 SPEED:	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 / -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
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

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:

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

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:

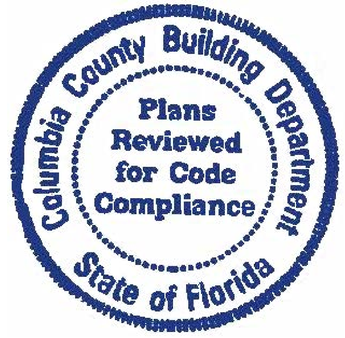
A.	JOIST SITTING ON SILL OR GIRDER	(3) 8d TOENAILS, EA. SIDE
B.	BLOCKING BETWEEN JOIST/RAFTERS	(2) 10d TOENAILS EA. SIDE, EA. END
	RIM BLOCKING BETWEEN JOIST/RAFTERS	(3)10d TOENAILS EA. END
C.	TOP PLATE TO STUD	(2) 16d END NAILS
D.	STUD TO SILL PLATE	(2) 16d END NAILS OR (4) 8d TOENAILS
E.	DOUBLE STUDS	(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
I.	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
P.	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.

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.
3. 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.
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.



SHEET SCHEDULE				
SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	DESCRIPTION
S-001	STRUCTURAL NOTES	0	2/18/23	ISSUED FOR PERMIT
S-002	FRAMING PLANS	0	2/18/23	ISSUED FOR PERMIT
S-003	FRAMING CONNECTION DETAILS	0	2/18/23	ISSUED FOR PERMIT

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Gill Engineering Services, Inc.

GARY GILL LICENSE No 51942 STATE OF FLORIDA PROFESSIONAL ENGINEER

Gary Gill
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ROWAN - FRONT PORCH

COLUMBIA COUNTY, FL

COLUMBIA CONSTRICTION & MAINTENANCE

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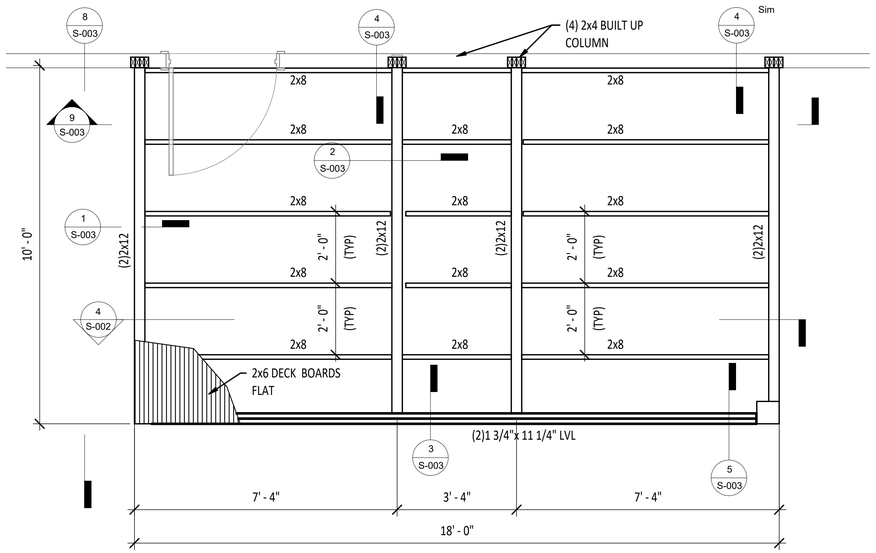
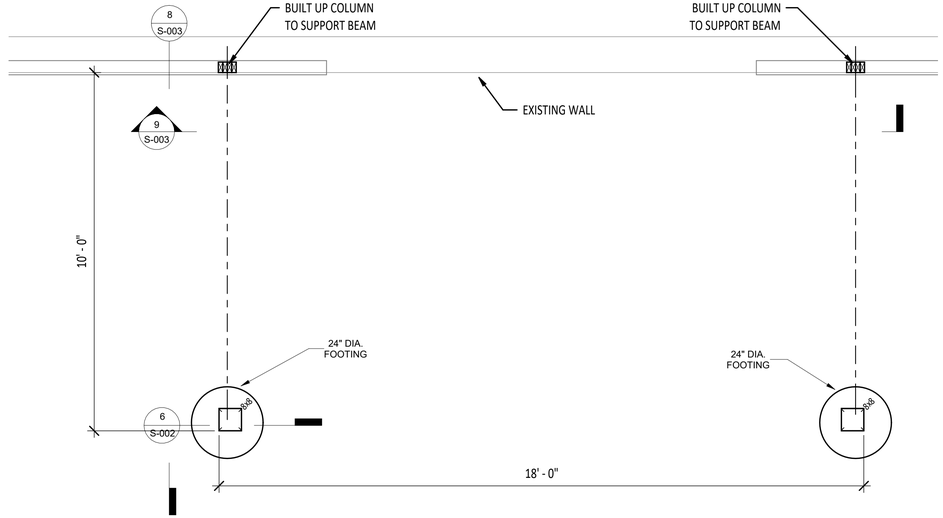
STRUCTURAL NOTES

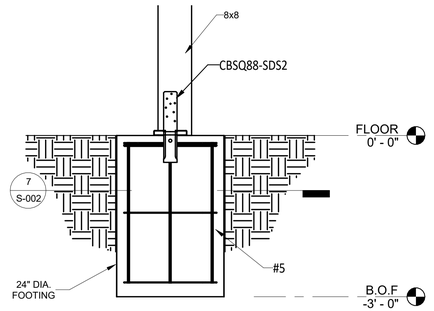
PROJECT #:	DWG #:	REV #:
2302-007	S-001	0



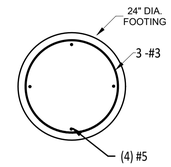
1 FLOOR FRAMING PLAN
1/2" = 1'-0"



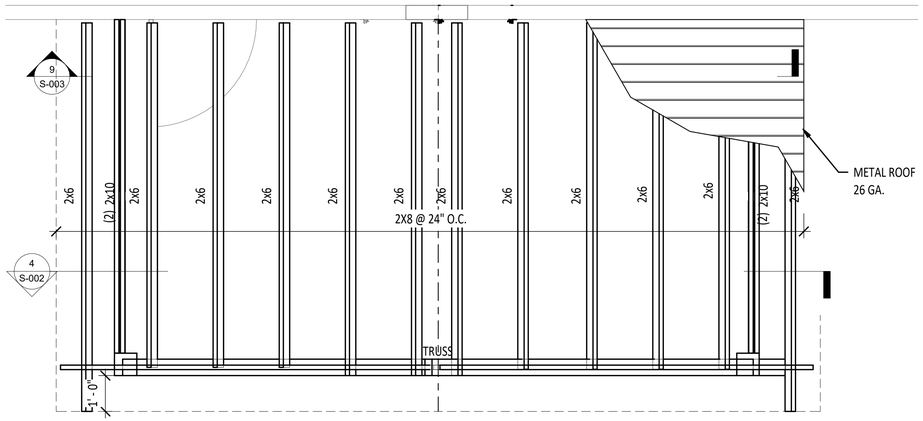
2 FOUNDATION PLAN
1/2" = 1'-0"



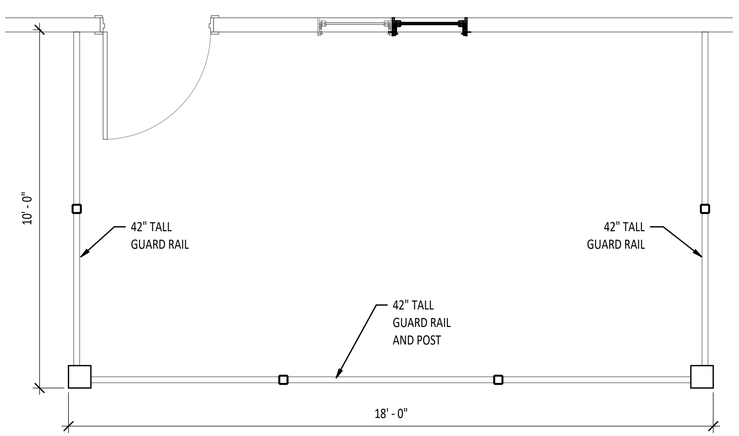
6 DETAIL - POST FOOTING
3/4" = 1'-0"



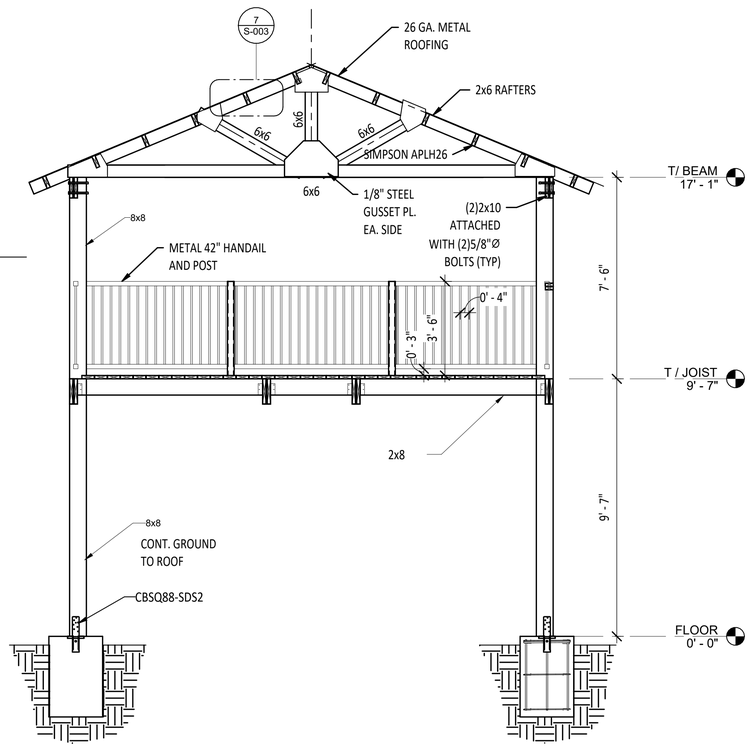
7 DETAIL - FOOTING
3/4" = 1'-0"



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



5 FLOOR PLAN OVER PORCH
1/2" = 1'-0"



4 SECTION 1
3/8" = 1'-0"

Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMIT	2/18/23

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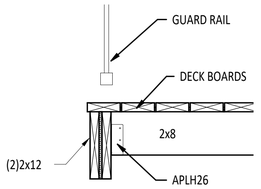
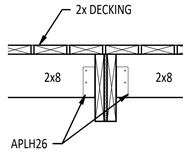
FRAMING PLANS

PROJECT #:	DWG #:	REV #:
2302-007	S-002	0

Revision Schedule		
Revision Number	Revision Description	Revision Date
0	ISSUED FOR PERMIT	2/18/23



1 DETAIL- FLOOR CONNECTION 1
1" = 1'-0"



2 DETAIL - FLOOR CONNECTION 2
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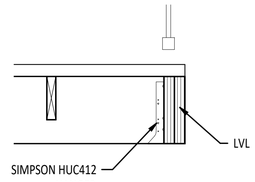

3 DETAIL - FLOOR CONNECTION 3
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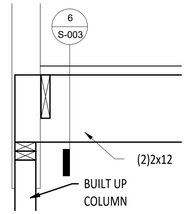

4 DETAIL - FLOOR CONNECTION 4
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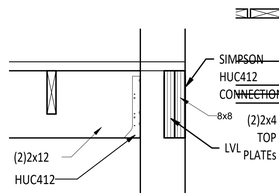
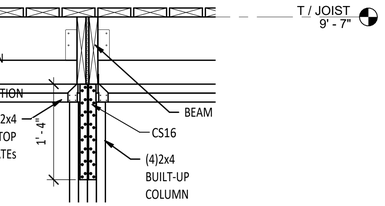
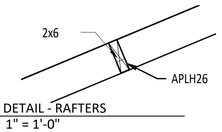


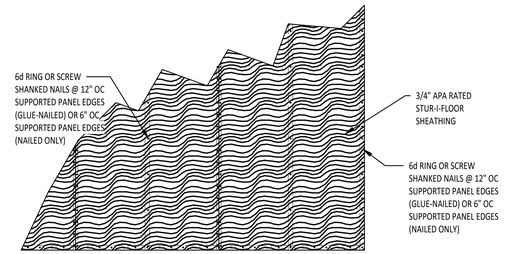
5 DETAIL - FLOOR CONNECTION 5
1" = 1'-0"



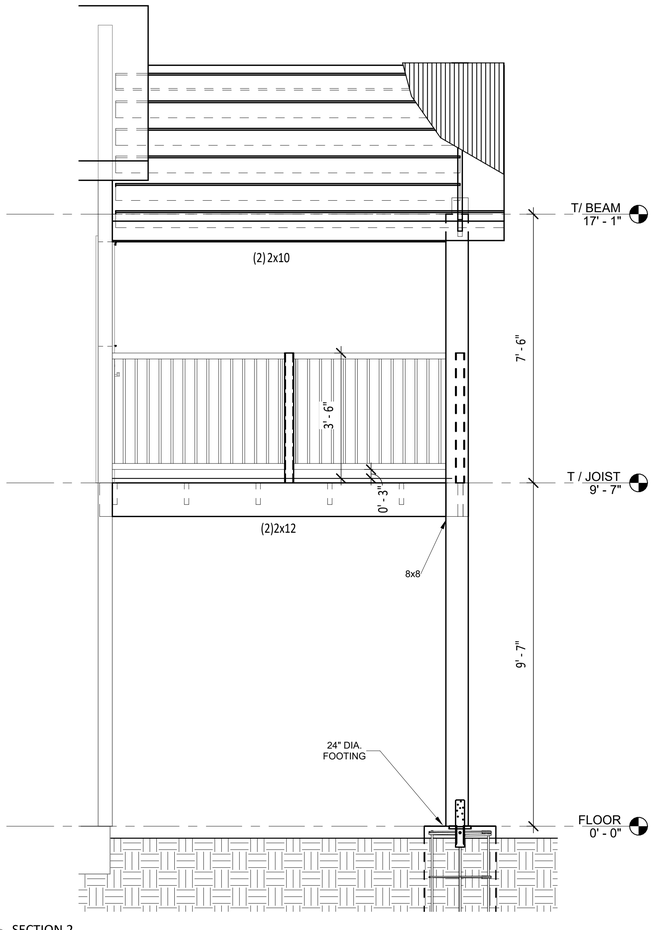
6 DETAIL - GIRDER & WALL
1" = 1'-0"



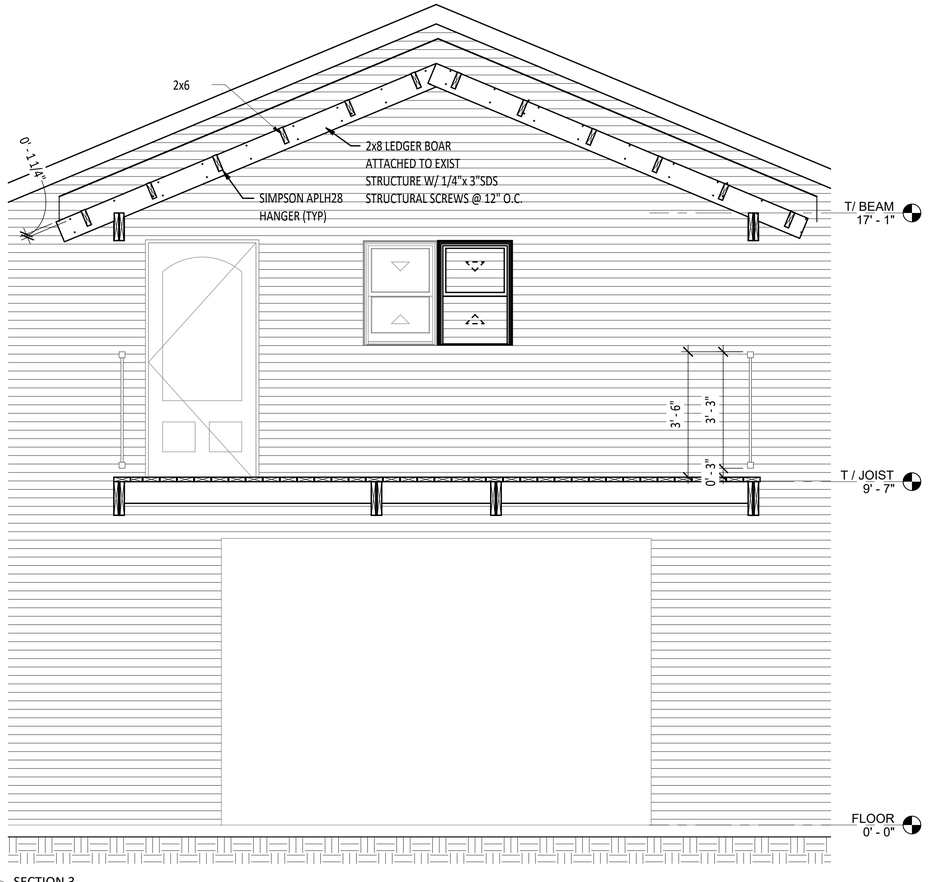
7 DETAIL - RAFTERS
1" = 1'-0"



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



3 SECTION 2
1/2" = 1'-0"



9 SECTION 3
1/2" = 1'-0"

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FRAMING CONNECTION DETAILS

PROJECT #:	DWG #:	REV #:
2302-007	S-003	0