

Client: Jordan Harris,  
997 Jackson Rd  
Fingway Marina NC.

Project: 30x30x10  
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3-215  
 Date: 1-27-23  
 Sheet: 4

DESIGN CRITERIA

1. BUILDING CODE.....2012 NORTH CAROLINA BUILDING CODE
2. IMPORTANCE FACTORS
 

WIND (Iw)	0.87
SNOW (Is)	0.80
SEISMIC (Iw)	1.0
3. GROUND SNOW LOAD.....10 PSF
4. ROOF LL.....5 PSF (NO FOOT TRAFFIC)
5. WIND
  - A) BASIC WIND SPEED (ASCE 7-05) .....120 MPH
  - B) WIND HAZARD EXPOSURE CATEGORY.....C
  - C) WIND BASE SHEARS (for MWFRS) Vx = 2.4 k Vy = 2.4 k (PER FRAME)
6. SEISMIC
  - A) SEISMIC DESIGN CATEGORY A  
COMPLIANCE WITH SECTION 1616.4 ONLY?  YES  NO
  - B) SEISMIC DESIGN CATEGORY  B  C  D  
 SEISMIC USE GROUP 1  
 SPECTRAL RESPONSE ACCELERATION Sa 19.5 %g S1 7.6 %g  
 SITE CLASSIFICATION D FIELD TEST  PRESUMPTIVE  HISTORICAL DATA  
 BASIC STRUCTURAL SYSTEM (CHECK ONE)  
 BEARING WALL  DUAL W/SPECIAL MOMENT FRAME  
 BUILDING FRAME  DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL  
 MOMENT FRAME  INVERTED PENDULUM  
 SEISMIC BASE SHEAR Vx = 0.5 k Vy = 0.5 k (PER FRAME)  
 ANALYSIS PROCEDURE  SIMPLIFIED  EQUIVALENT LATERAL FORCE  MODAL  
 ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED?  NO  
 LATERAL DESIGN CONTROL: EARTHQUAKE \_\_\_\_\_ WIND X

NOTES

OTHER NOTES

1. PRESUMPTIVE SOIL PRESSURE = 2,000 PSF.
2. WHERE A DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE.
3. IF CONTRACTOR FINDS A DIFFERENCE BETWEEN THESE DRAWINGS AND EXISTING ELEVATIONS, OR OTHER CONDITIONS WHICH PROHIBIT EXECUTION OF THE WORK AS DIRECTED ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
4. ALL ITEMS SHALL BE TIGHTLY ANCHORED OR ATTACHED SQUARE, PLUMB AND TRUE, OR IN OTHER PLANES OR SHAPES AS SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN, AND FREE OF OFFSETS. NO FIELD ALTERING OF ANY MEMBERS WILL BE ALLOWED THAT WILL CAUSE THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND THEM NOT TO BE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER.
5. GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO THE STRUCTURE DURING CONSTRUCTION PROCEDURES ASSOCIATED WITH THIS PROJECT.
6. CONCRETE: CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI.
7. CONCRETE WORK SHALL COMPLY WITH ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301) AND APPLICABLE PROVISIONS OF ACI 318. KEEP A COPY OF ACI FIELD REFERENCE MANUAL (ACI-SP-15) WHICH INCLUDES ACI 301 AND OTHER ACI AND ASTM REFERENCES ON THE JOB.
8. ALL FOOTING FOUNDATIONS SHALL BE PLACED ON COMPETENT SOIL.
9. FIBER MESH MAY BE SUBSTITUTED FOR WWM PER MANUFACTURER'S RECOMMENDATIONS.
10. REINFORCING STEEL: ASTM A615, GRADE 60. PROVIDE 3" CLEARANCE TO EARTH SURFACES. LAP BARS 30 DIAMETERS.
11. ALL GALVANIZING SHALL BE PERFORMED AFTER FABRICATION, AND IN ACCORDANCE WITH ASTM A123 AND/OR A153.
12. THE MINIMUM YIELD STRENGTH OF THE STEEL USED IN THE LIGHT GAUGE METAL FRAMES SHALL BE 55,000 PSI, FOR RAW OR GALVANIZED TUBES.
13. THE MINIMUM YIELD STRENGTH OF THE STEEL USED FOR THE LIGHT GAUGE METAL DECK SHALL BE 80,000 PSI, DECKING PANELS SHALL COVER THREE SPANS, MINIMUM.
14. THE LIGHT GAUGE METAL FRAMES AND DECK SHALL BE OF THE GAUGE INDICATED ON THE PLAN/DETAILS.
15. ALL SCREWS FOR ASSEMBLING FRAMES SHALL BE #12 SIZE.
16. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.
17. ALL WELDS SHALL BE COATED WITH GALVANIZE PRIMER & PAINT AFTER WELDING.





JS CONSULTING & DESIGN  
 STRUCTURAL ENGINEERING  
 11703 DURANT RD  
 RALEIGH, NC 27614  
 P: (919) 475-1480  
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CERTIFICATE NUMBER: P-1513

Client:

Jordan Harris  
997 Jackson Rd  
Fuquay Varina NC

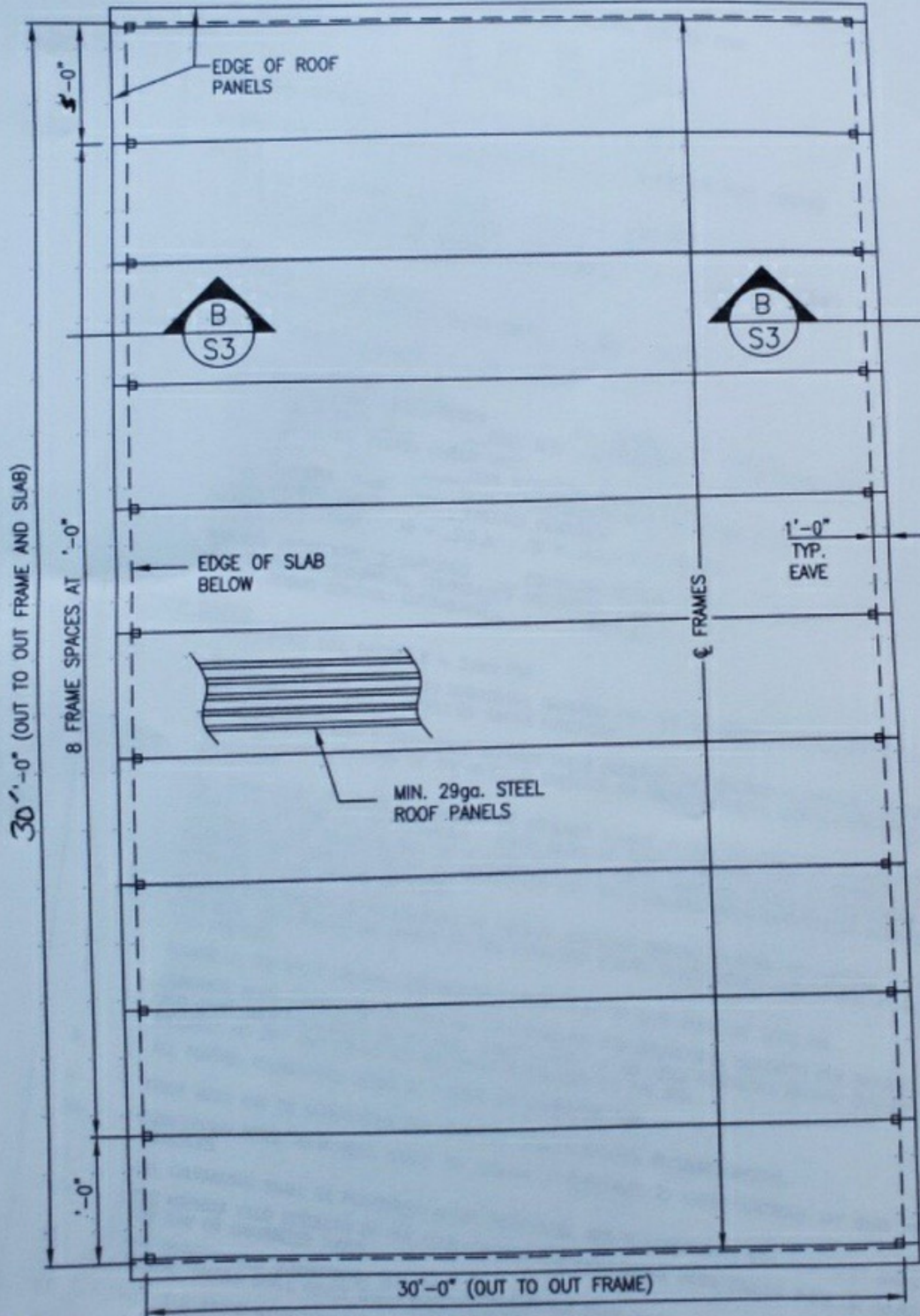
Project:

30X30X10  
Metal Building

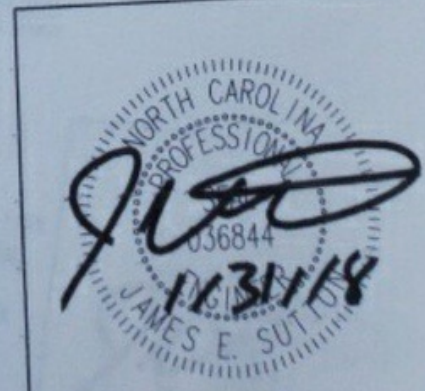
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1-12-23

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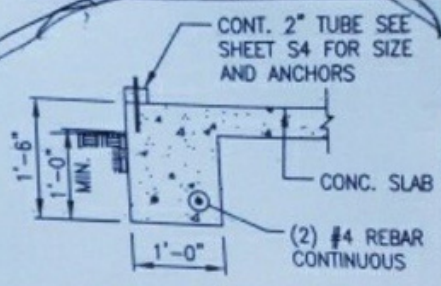
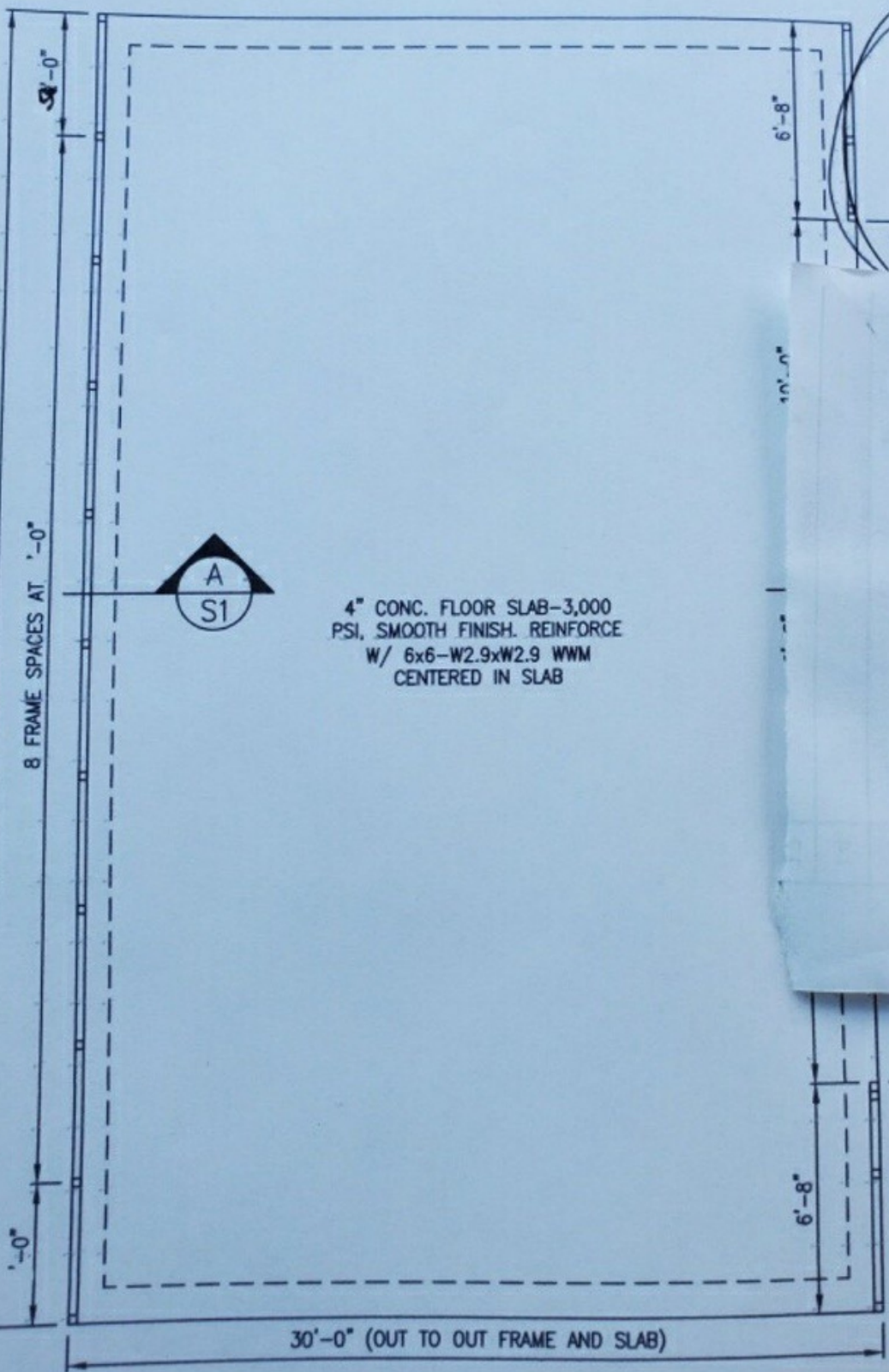
FRAMING PLAN  
 NOT TO SCALE



Client: Jordan Harris  
997 Jackson Rd  
Fuquay Varina NC

Project: 30x30x10  
Metal Building  
Fully Enclosed

Job No: 2-275  
Date: 1-12-23  
Sheet: 2

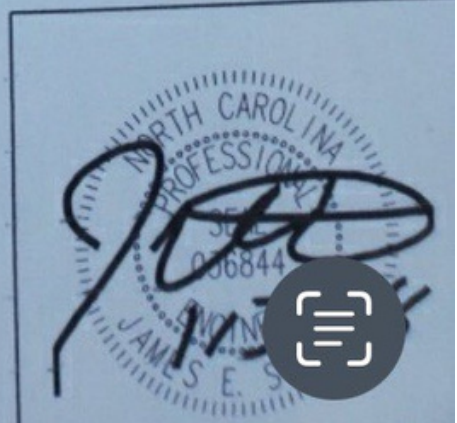


(A) SLAB TURN DOWN  
NOT TO SCALE

4" CONC. FLOOR SLAB-3,000  
PSI, SMOOTH FINISH. REINFORCE  
W/ 6x6-W2.9xW2.9 WWM  
CENTERED IN SLAB

DRAINAGE NOTE:  
OWNER TO PROVIDE POSITIVE  
DRAINAGE AWAY FROM BLDG. PAD.

FOUNDATION PLAN  
NOT TO SCALE





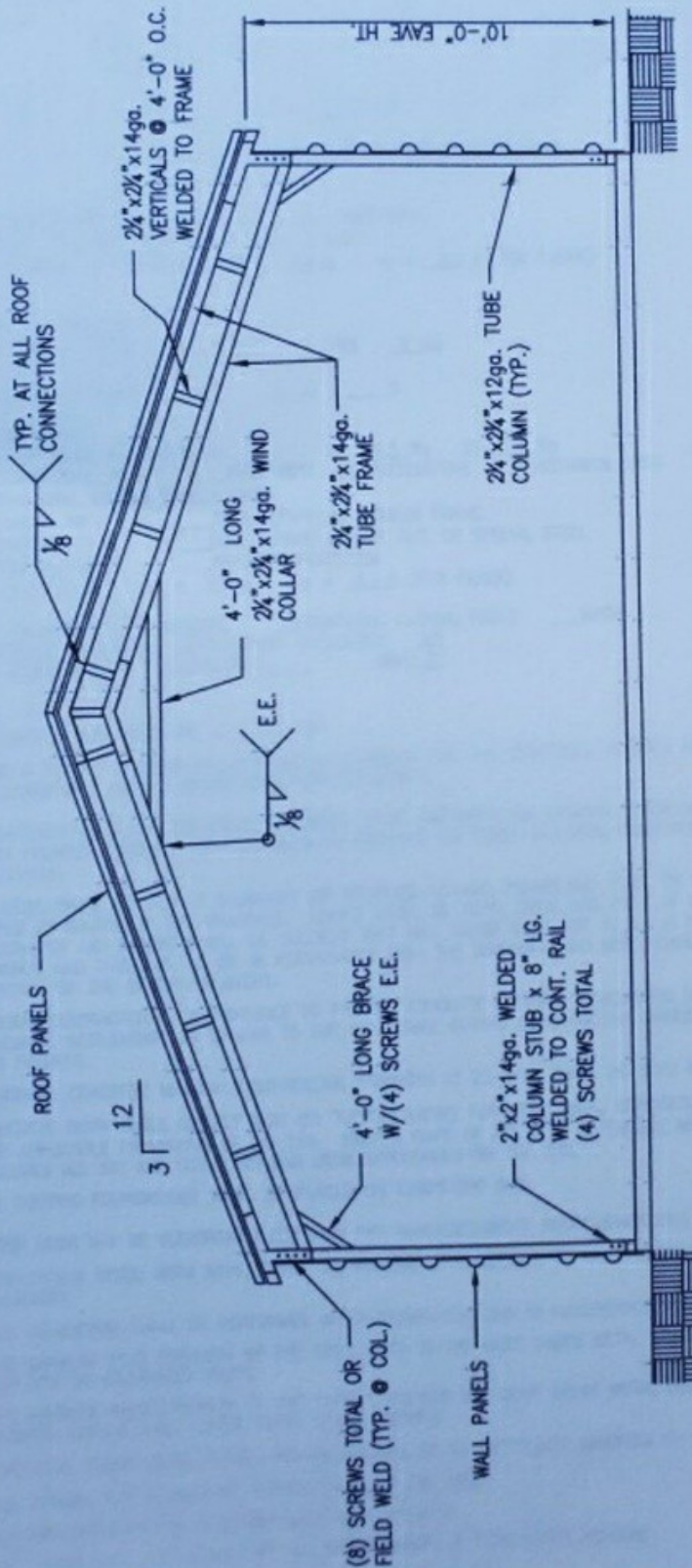
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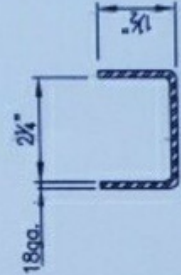
Client: Jordan Harris  
997 Jackson Rd  
Fuquay Varina

Project: 30x30x10  
Metal Building  
Fully Enclosed  
Garage

Job No: 3-275  
Date: 1/12/23  
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TYPICAL CROSS SECTION B-B  
NOT TO SCALE



TYP. WIND COLLAR/BRACE  
NOT TO SCALE

GABLE END WALL FRAMING  
GABLE END WALLS SHALL BE FRAMED USING  
2-1/4" 14ga SQUARE TUBES TO THE BOTTOM  
RAIL AND RAFTERS W/ L-CLIPS AND (2)  
SCREWS IN EACH LEG OF THE CLIP. ANY STUDS  
OVER 13'-0" IN LENGTH SHALL BE (2) 2-1/4"  
14ga AND ATTACHED W/ (2) L-CLIPS AND (2)  
SCREWS IN EACH LEG OF THE CLIP.

