

MINIMUM ACCEPTABLE DESIGN PRESSURES - CLADDING

		ROOF DECK (psf)			
psf		1/2e	2n	2r/3e	3r
Vult		-65.1	-84.6	-95.0	-102.0
Vasd		-39.1	-50.8	-57.0	-61.2

		STRUCTURAL SIDING (psf)			
psf		4		5	
Vult		+30.6	-33.6	+30.6	-38.0
Vasd		+18.4	-20.2	+18.4	-22.8



DESIGN CRITERIA

Building Details
 building risk category: **II**
 wind exposure: **B**
 internal pressure (gcpi): **±0.18** (enclosed)
 ultimate wind velocity (Vult): **140** mph

Design Loads
 dead load: **2** psf
 live load: **20** psf (table 1607.1, fbc8-2023)
 wind loads: **see table to left**

building type
vertical roof/walls
ENCLOSED BUILDING

building size
40'W X 70' X 15'EH

building location
225 SW BUSINESS POINT DRIVE
 lake city, florida 32025
 (columbia county)

GENERAL NOTES
 ALL CONSTRUCTION AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023), ITS RESIDENTIAL AND BUILDING VOLUMES, AND APPLICABLE STANDARDS REFERENCED THEREIN.

PROCEDURES OF CONSTRUCTION ARE TO ADHERE TO OSHA REQUIREMENTS ALWAYS. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR DETERMINING AND EFFECTING THE MEANS, METHODS AND SEQUENCING OF ALL CONSTRUCTION.

CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED, TO THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE 'SHOP DRAWINGS', 'VENDOR DRAWINGS' OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

WHEN CONFLICTS EXIST AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS; I.E., STRUCTURAL DRAWINGS, GENERAL NOTES AND SPECIFICATIONS, PRODUCT APPROVALS, ETC., THE MORE STRINGENT/CONSERVATIVE REQUIREMENTS, AS DETERMINED BY THE ENGINEER-OF-RECORD, SHALL GOVERN.

MATERIALS/ STRUCTURAL
 STRUCTURAL DRAWINGS PROVIDE SUFFICIENT INFORMATION TO CONVEY PROJECT DESIGN INTENT. IF ERRORS, INCONSISTENCIES OR OMISSIONS ARE DISCOVERED, PROMPTLY NOTIFY ENGINEER BEFORE PROCEEDING.

DETAILS LABELED AS "TYPICAL" ON THE STRUCTURAL DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR PHYSICALLY SIMILAR TO THOSE SITUATIONS SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE ASCERTAINED BY THE DETAIL TITLE AND/OR BEST PROFESSIONAL JUDGEMENT. SUCH DETAILS SHALL APPLY WHETHER KEYED TO THE SPECIFIC LOCATION OR NOT. THE APPLICABILITY OF TYPICAL DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY OF THE ENGINEER-OF-RECORD.

ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE ENGINEER-OF-RECORD TO RESIST CODE-REQUIRED VERTICAL AND/OR LATERAL-FORCES THAT COULD BE EXPERIENCED IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL ELEMENTS UNTIL THE LATERAL LOAD-RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND STRUCTURE IS COMPLETELY TIED TOGETHER.

ALL SIDING AND ROOFING SHALL BE A MINIMUM 29 GAUGE, ATTACHED TO STEEL FRAME AS SHOWN ON PLANS, AND HAVE A MINIMUM EFFECTIVE COVERAGE SPAN OF 36 INCHES.

ALL FRAMING MEMBERS AND PURLINS SHALL BE A MINIMUM 16 GAUGE.

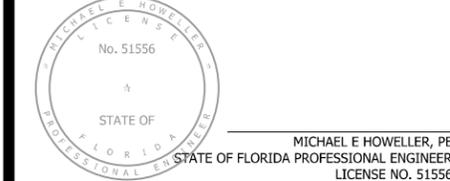
LIFE SAFETY
 TYPE OF CONSTRUCTION:
 TYPE II-B (LIGHT-FRAME NONCOMBUSTIBLE)
 INTENDED USE AND OCCUPANCY:
 GROUP U (UTILITY/MISCELLANEOUS)

CERTIFICATION OF PLAN BY DESIGN PROFESSIONAL
 I HEREBY CERTIFY THAT I HAVE REVIEWED/EXAMINED THE COMPONENTS AND CLADDING PROPOSED FOR THIS LIGHT-WEIGHT STEEL, OPEN-FRAME BUILDING. THE MATERIALS, COMPONENTS AND CLADDING WERE EVALUATED USING VULT/VASD STRESS DESIGN.

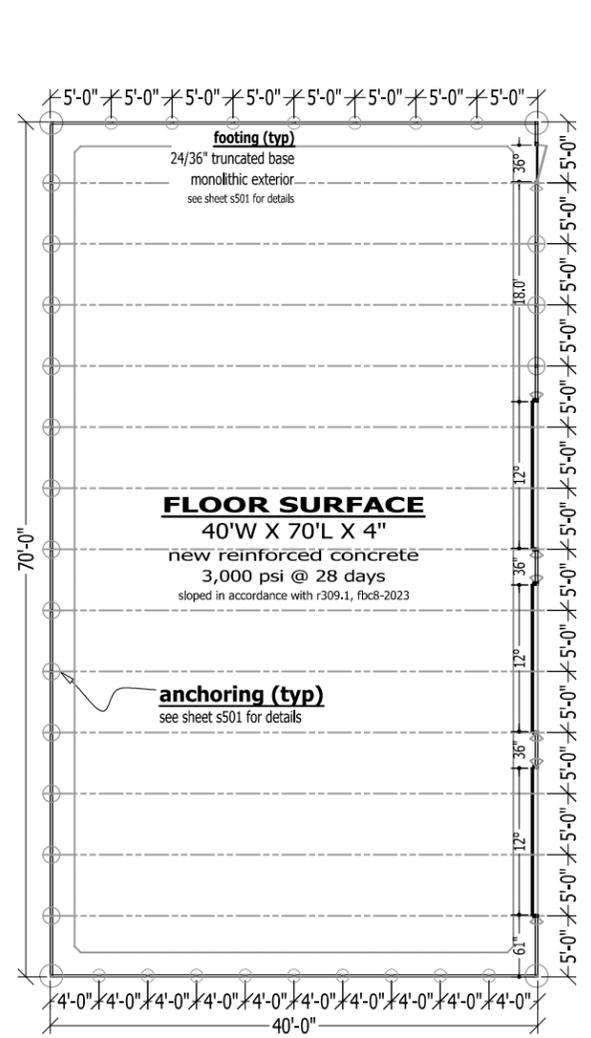
FOR THE INTENDED USE AND OCCUPANCY, THE MATERIALS, COMPONENTS AND THEIR INSTALLATION, AS DESCRIBED, COMPLY WITH THE FLORIDA BUILDING CODE, 8TH EDITION (2023), ITS RESIDENTIAL AND BUILDING VOLUMES; AS WELL AS APPLICABLE STANDARDS REFERENCED THEREIN.

CERTIFICATION OF DIGITAL DOCUMENT
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MICHAEL E HOWELLER, PE ON THE DATE AND/OR TIME STAMP SHOWN USING A DIGITAL SIGNATURE.

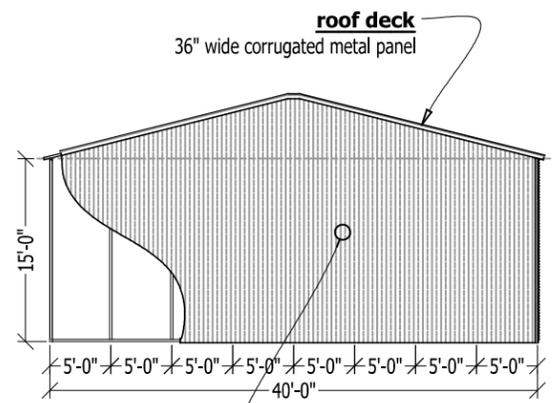
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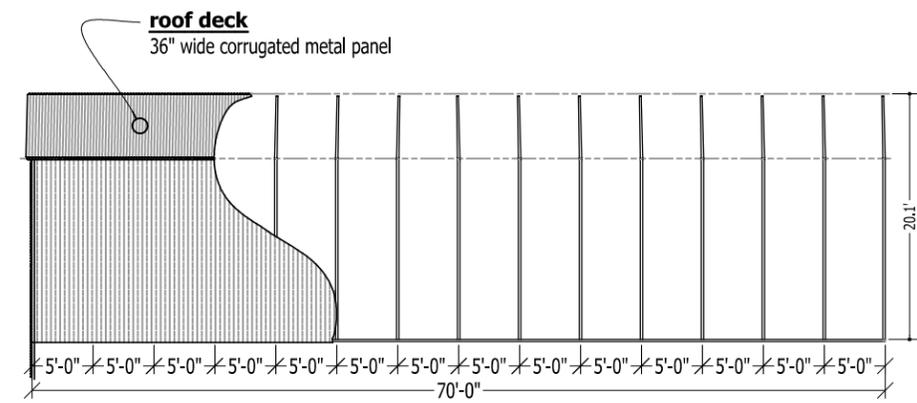
sheet number
building plan and composites
S-201
 hollnagel



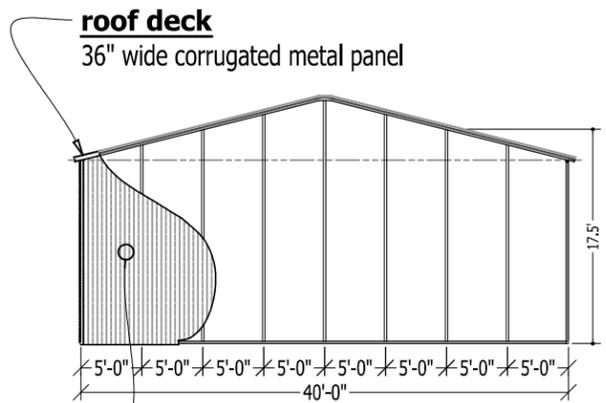
foundation, anchoring and floor plan
 proportional scale



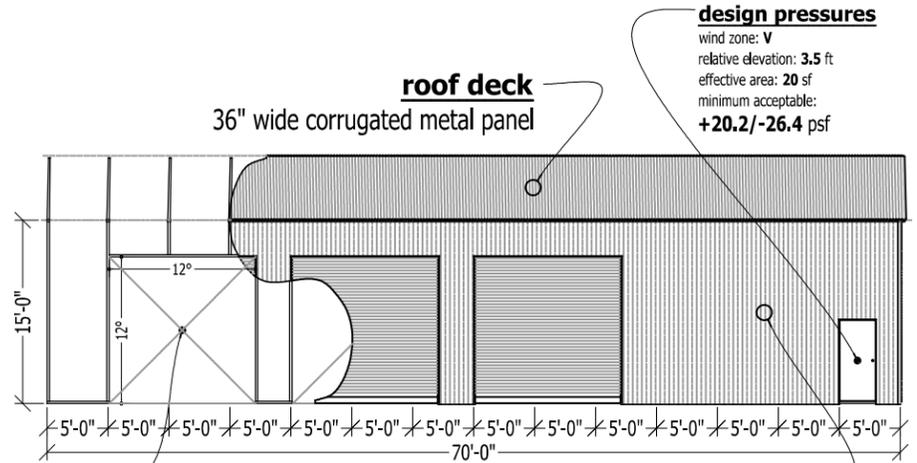
rear gable composite
 proportional scale



left side composite
 proportional scale



front gable composite
 proportional scale



right side composite
 proportional scale