

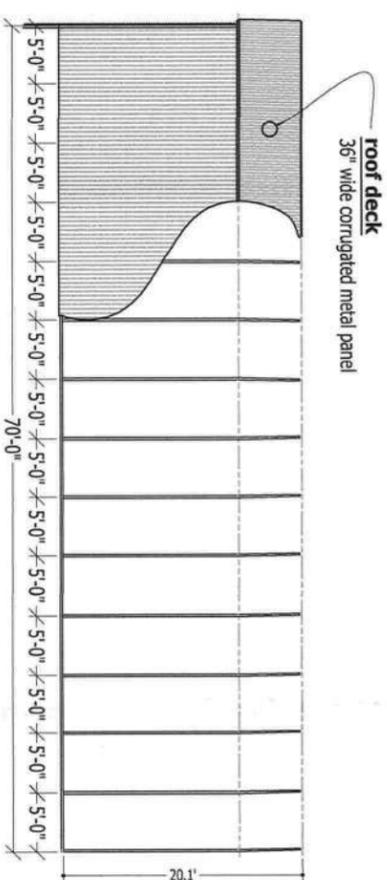
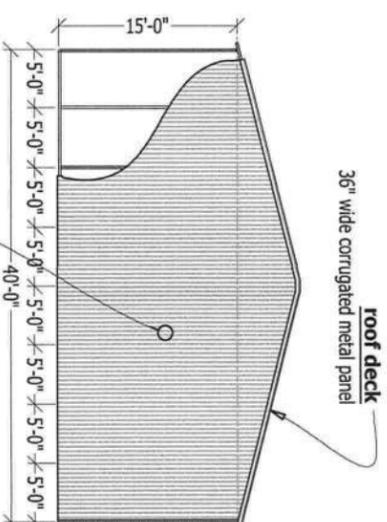
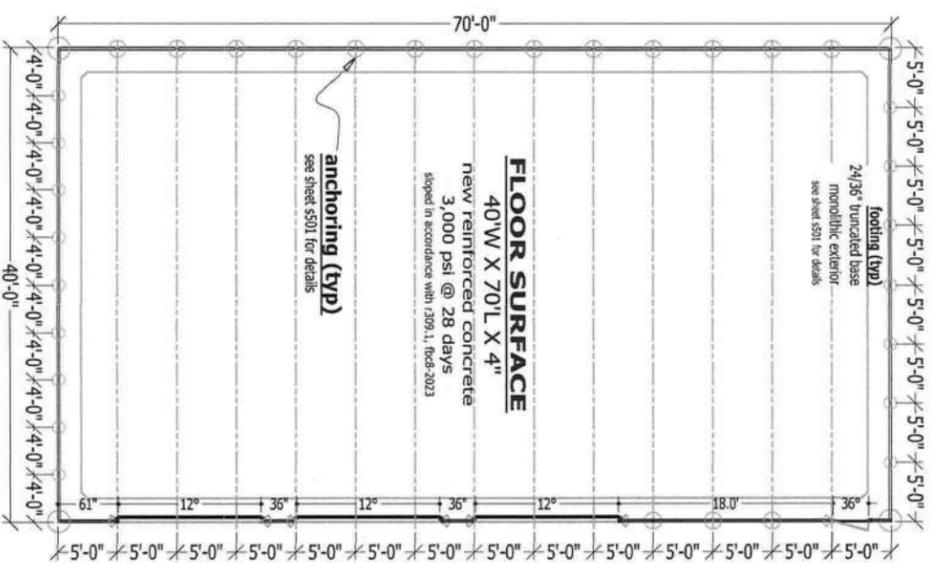
MINIMUM ACCEPTABLE DESIGN PRESSURES - CLADDING

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

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

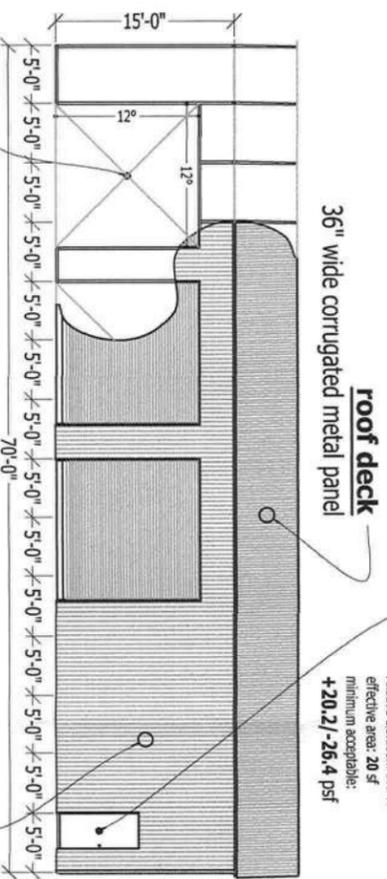
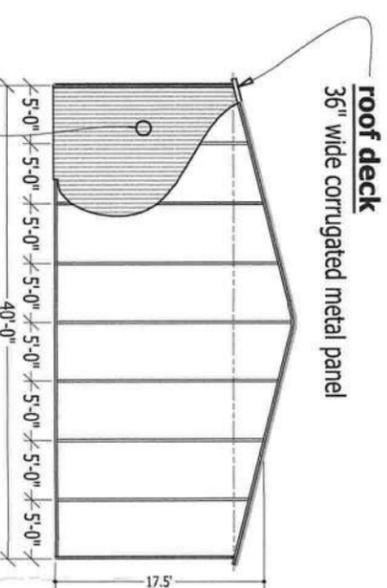
DESIGN CRITERIA

Building Details
 building risk category: **II**
 wind exposure: **B**
 internal pressure (gcp): **±0.18** (enclosed)
 ultimate wind velocity (Vult): **140** mph
Design Loads
 dead load: **2** psf
 live load: **20** psf (table 1607.1, fb8-2023)
 wind loads: **see table to left**



rear gable composite

left side composite



roof deck

36" wide corrugated metal panel

roof deck

36" wide corrugated metal panel

design pressures

wind zone: V
 relative elevation: 3.5 ft
 effective area: 20 sf
 minimum acceptable: **+20.2/-26.4** psf

design pressures

wind zone: V
 relative elevation: 6 ft
 effective area: 144 sf
 minimum acceptable: **+17.5/-21.0** psf

structural siding

36" wide corrugated metal panel

structural siding

36" wide corrugated metal panel

front gable composite

proportional scale

right side composite

proportional scale

foundation, anchoring and floor plan

proportional scale

ENCLOSED BUILDING

vertical roof/walls
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, REQUEST A 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 DETAILD. 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 REFERRED TO THE SPECIFIC LOCATION OR NOT. THE APPLICABILITY OF TYPICAL DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER-OF-RECORD.
 ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE ENGINEER-OF-RECORD TO MEET CODE-REQUIRED VERTICAL AND/OR LATERAL LOADS 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 ROOFING IS COMPLETELY TIED TOGETHER.
 ALL SIDING AND ROOFING SHALL BE A MINIMUM 3/8 GAUGE, ATTACHED TO STEEL FRAME AS SHOWN ON PLANS, AND HAVE A MINIMUM EFFECTIVE COVEREDGE SPAN OF 36 INCHES.
 ALL FRAMING MEMBERS AND PAULINS SHALL BE A MINIMUM 16 GAUGE.
 LIFE SAFETY
 TYPE OF CONSTRUCTION:
 TYPE I-B (LIGHT-FRAME NONCOMBUSTIBLE)
 INTENDED USE AND OCCUPANCY:
 GROUP U (DUPLEX/MISCELLANEOUS)

CERTIFICATION OF PLAN BY DESIGN PROFESSIONAL
 I, HEREBY CERTIFY THAT I HAVE REVIEWED/EXAMINED THE COMPONENTS AND CLADDING PROPOSED FOR THIS LIGHT-FRAME STEEL, OPEN-FRAME BUILDING, THE MATERIALS, COMPONENTS AND CLADDING WERE EVALUATED USING VULTR/MSD 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 THE STAMP SHOWN USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPY.

STATE OF FLORIDA
 MICHAEL E. HOWELLER, PE
 STATE OF FLORIDA PROFESSIONAL ENGINEER
 LICENSE NO. 51556

sheet number
S-201
 building plan and composites
 hollnagel

Building Type
vertical roof/walls
ENCLOSED BUILDING

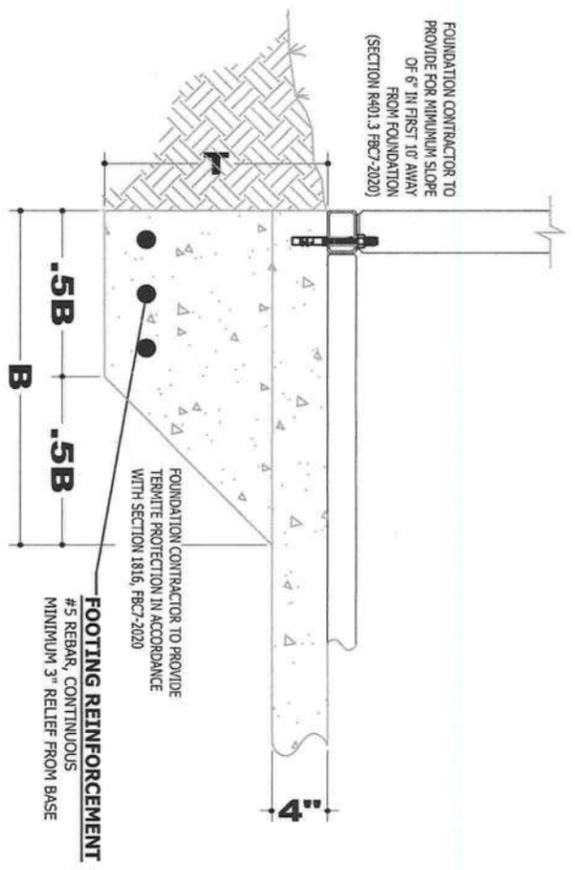
Building Size
40'W X 70' X 15'E.H

Building Location
225 SW BUSINESS POINT DRIVE
lake city, florida 32025
(columbia county)

NOTICE TO OWNER-BUILDER
FLORIDA STATE LAW REQUIRES CONSTRUCTION TO BE DONE BY LICENSED CONTRACTORS. IF YOU HAVE APPLIED FOR A PERMIT UNDER AN EXEMPTION TO THAT LAW, THE EXEMPTION ALLOWS YOU, AS THE OWNER OF YOUR PROPERTY, TO ACT AS YOUR OWN CONTRACTOR, WITH CERTAIN RESTRICTIONS. EVEN THOUGH YOU DO NOT HAVE A LICENSE, YOU MUST PROVIDE DIRECT, ON-SITE SUPERVISION OF THE CONSTRUCTION YOURSELF. YOU MAY BUILD OR IMPROVE A ONE-FAMILY OR TWO-FAMILY RESIDENCE OR A FARM OUTBUILDING. YOU MAY ALSO BUILD OR IMPROVE A COMMERCIAL BUILDING, PROVIDED YOUR COSTS DO NOT EXCEED \$75,000.
THE BUILDING OR RESIDENCE MUST BE FOR YOUR OWN USE OR OCCUPANCY. IT MAY NOT BE BUILT OR SUBSTANTIALLY IMPROVED FOR SALE OR LEASE. IF YOU SELL OR LEASE A BUILDING YOU HAVE BUILT OR SUBSTANTIALLY IMPROVED YOURSELF WITHIN 1 YEAR AFTER THE CONSTRUCTION IS COMPLETE, THE LAW WILL PRESUME THAT YOU BUILT OR SUBSTANTIALLY IMPROVED IT FOR SALE OR LEASE, WHICH IS A VIOLATION OF THIS EXEMPTION.
YOU MAY NOT HIRE AN UNLICENSED PERSON TO ACT AS YOUR CONTRACTOR OR TO SUPERVISE PEOPLE WORKING ON YOUR BUILDING. IT IS YOUR RESPONSIBILITY TO MAKE SURE THAT PEOPLE EMPLOYED BY YOU HAVE A LICENSE REQUIRED BY STATE LAW AND BY COUNTY, OR MUNICIPAL, LICENSING ORDINANCES. YOU MAY NOT DELEGATE THE RESPONSIBILITY FOR SUPERVISING WORK TO A LICENSED CONTRACTOR WHO IS NOT LICENSED TO PERFORM THE WORK BEING DONE. ANY PERSON WORKING ON YOUR BUILDING WHO IS NOT LICENSED MUST WORK UNDER YOUR DIRECT SUPERVISION AND MUST BE EMPLOYED BY YOU, WHICH MEANS THAT YOU MUST DEDUCT F.I.C.A. AND WITHHOLDING TAX AND PROVIDE WORKERS COMPENSATION FOR THAT EMPLOYEE, ALL AS PRESCRIBED BY LAW.
YOUR CONSTRUCTION MUST COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, BUILDING CODES, AND ZONING REGULATIONS.
LICENSED CONTRACTORS ARE REGULATED BY LAWS DESIGNED TO PROTECT THE PUBLIC. IF YOU CONTRACT WITH A PERSON WHO DOES NOT HAVE A LICENSE, THE CONSTRUCTION INDUSTRY LICENSING BOARD AND DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION MAY BE UNABLE TO ASSIST YOU WITH ANY FINANCIAL LOSS THAT YOU SUSTAIN AS A RESULT OF A CONTRACTOR YOU ONLY SUSTAIN AS A UNLICENSED CONTRACTOR. YOU MAY BE HELD LIABLE FOR DAMAGES. IF YOU OBTAIN AN OWNER-BUILDER PERMIT AND WISH TO HIRE A LICENSED CONTRACTOR, YOU WILL BE RESPONSIBLE FOR VERIFYING WHETHER THE CONTRACTOR IS PROPERLY LICENSED AND THE STATUS OF THE CONTRACTOR'S WORKERS' COMPENSATION COVERAGE.

ENCLOSED BUILDING FOOTING
(PRESCRIPTIVE)

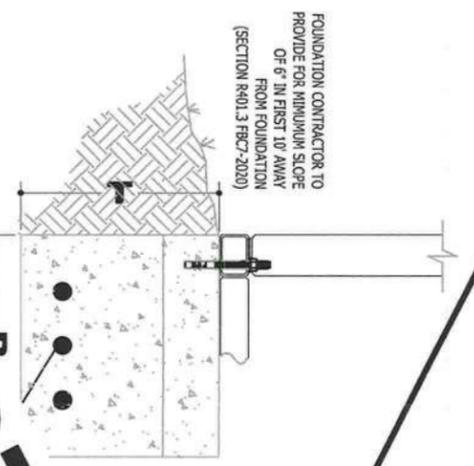
GABLE WIDTH	T	B	#5 REBAR
UP TO 24'-0"	12"	12"	ONE (1)
>24'-0" UP TO 36'-0"	12"	16"	TWO (2)
>36'-0" UP TO 42'-0"	16"	24"	TWO (2)
>42'-0" UP TO 60'-0"	24"	36"	THREE (3)



SLAB-ON-GRADE: THICKENED EDGE
NOT TO SCALE

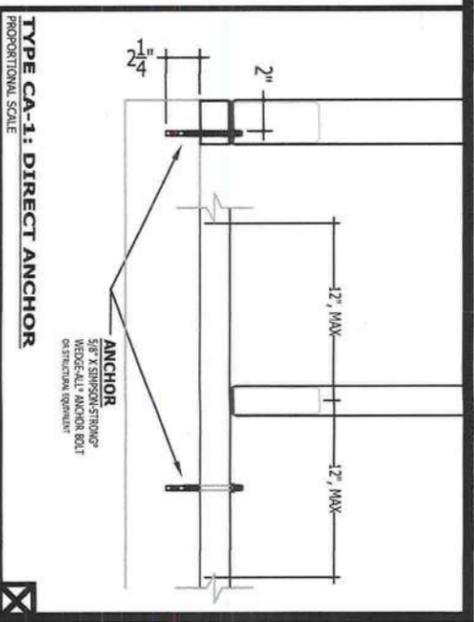
OPEN CAP FOOTING

GABLE WIDTH	T	B	#5 REBAR
>24'-0" UP TO 36'-0"	12"	12"	TWO (2)
>36'-0" UP TO 42'-0"	16"	16"	TWO (2)
>42'-0" UP TO 60'-0"	24"	24"	THREE (3)

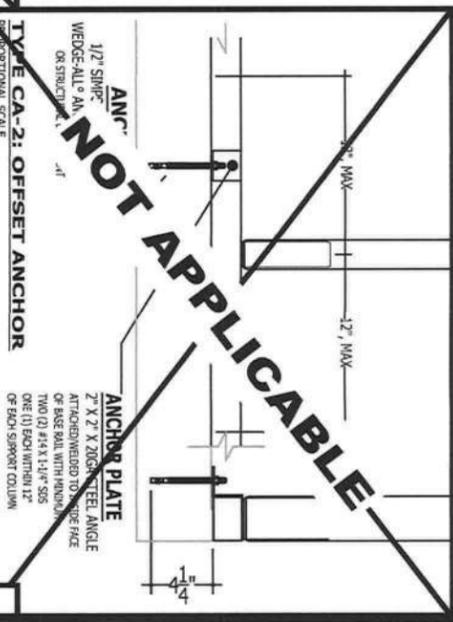


FOOTING REINFORCEMENT
#5 REBAR, CONTINUOUS
MINIMUM 3" RELIEF FROM BASE

NOT APPLICABLE



TYPE CA-1: DIRECT ANCHOR
PROPORTIONAL SCALE



TYPE CA-2: OFFSET ANCHOR
PROPORTIONAL SCALE



ANCHORING FASTENER



TYPE GA-1: DIRECT GROUND
PROPORTIONAL SCALE



ANCHORING FASTENER



TYPE GA-2: GROUND THROUGH PAVEMENT
PROPORTIONAL SCALE

CERTIFICATION OF PLAN BY DESIGN PROFESSIONAL
I HEREBY CERTIFY THAT I HAVE PREPARED/DESIGNED THE COMPONENTS AND CLADDING PROPOSED FOR THIS LIGHT-MEDIUM WEIGHT STEEL, OPEN-GRADE BUILDING. THE MATERIALS, COMPONENTS AND CLADDING WERE EVALUATED USING ULTIMATE 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
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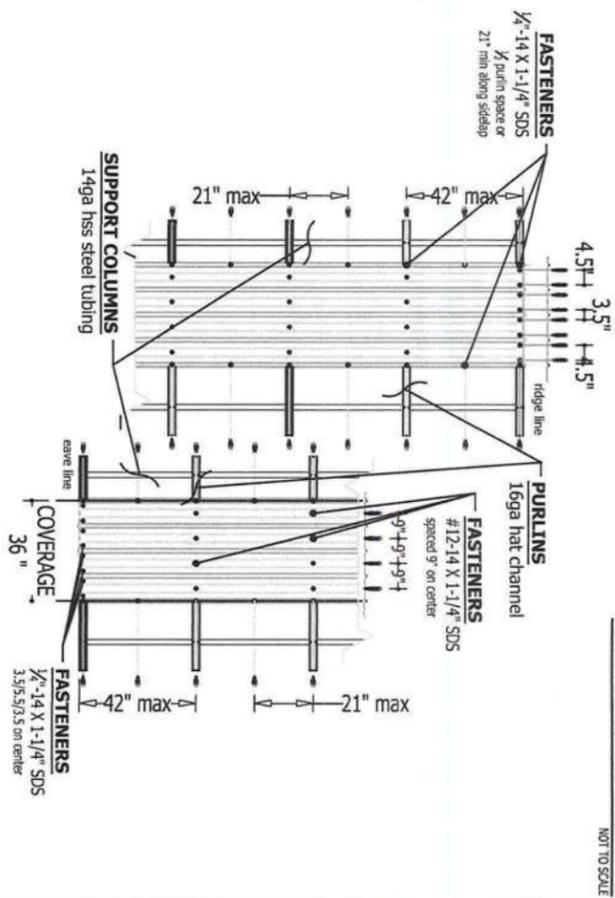
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPY.

STATE OF FLORIDA
MICHAEL E. HOWELLER, PE
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE NO. 51556

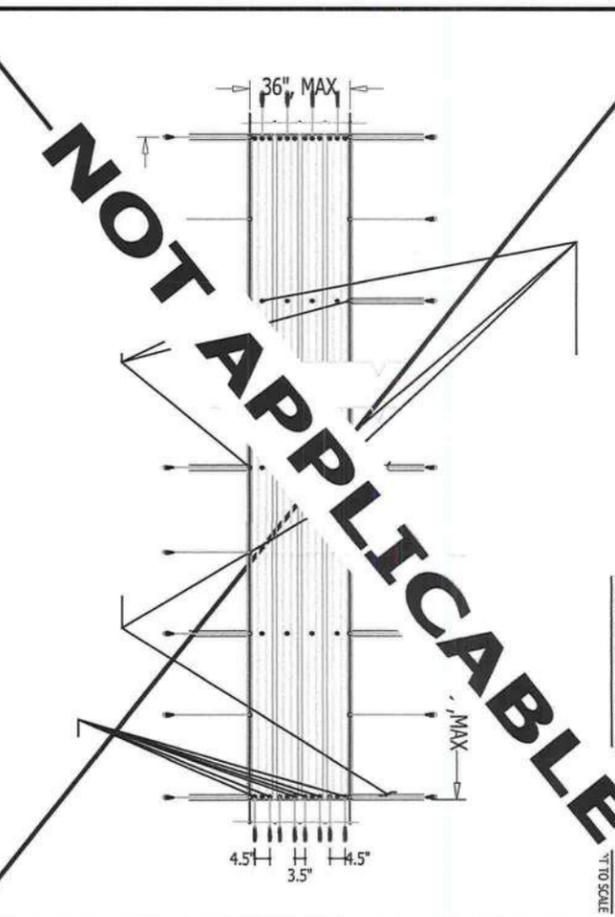
SHEET NUMBER
S-501
Footings & anchoring details
hollnagel

FOOTER ONLY
NOT TO SCALE

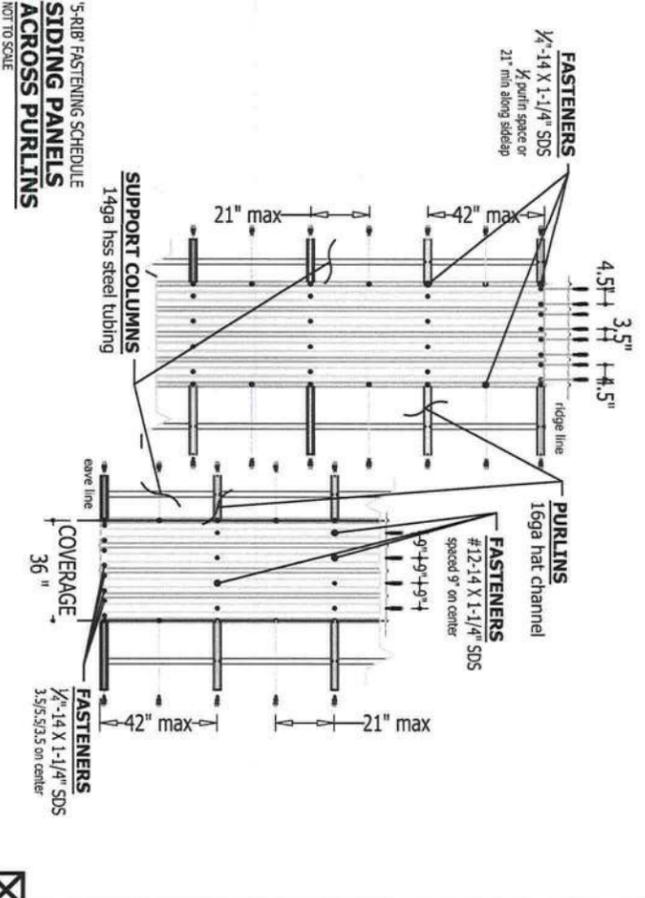
MASTER-RIP®/ULTRA-RIP® FASTENING SCHEDULE
**ROOFING PANELS
 ACROSS ROOF PURLINS**
 NOT TO SCALE



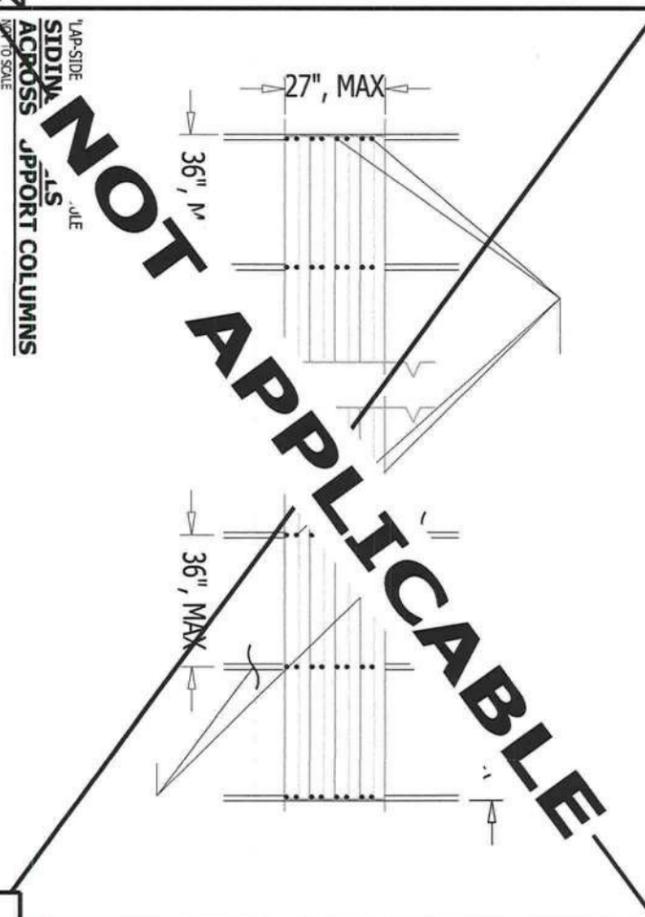
MASTER-RIP®/ULTRA-RIP® FASTENING SCHEDULE
**ROOFING PANELS
 ACROSS TOP TRUSS
 MEMBERS**
 NOT TO SCALE



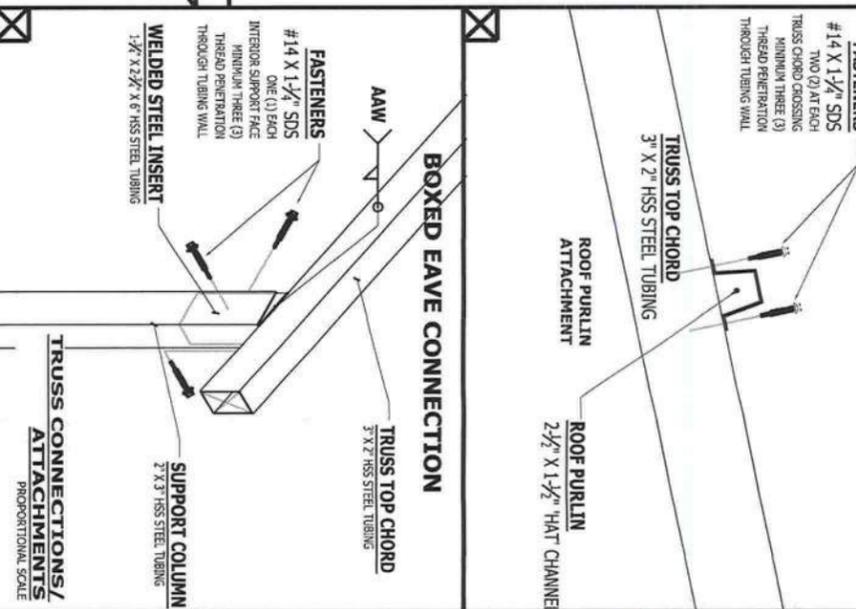
CONVENTIONAL (VERTICAL) ROOF



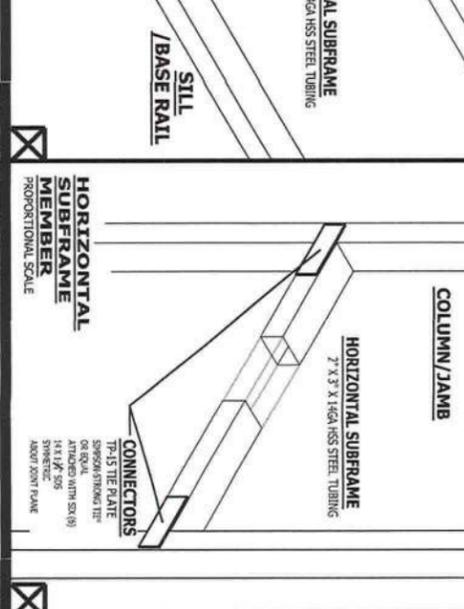
STANDARD (HORIZONTAL) ROOF



BOXED EAVE CONNECTION



**TRUSS CONNECTIONS/
 ATTACHMENTS**
 PROPORTIONAL SCALE



FASTENERS
 #14 X 1-1/4 SDS
 THREE (3) PER CONNECTION
 MINIMUM ONE (1) PER
 EACH INTERIOR COLUMN FACE
 MIN (3) THREAD PENETRATION
 THROUGH WELDED INSERT WALL



FASTENERS
 #12-14 X 1-1/4 SDS
 spaced 9" on center



FASTENERS
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