

This form has been electronically signed and sealed by Gordon Callisto, P.E., a Professional Engineer in the State of Florida, License No. 12000. The signature of the engineer is required for the document to be valid. The signature of the engineer is required for the document to be valid. The signature of the engineer is required for the document to be valid.

12145 BIG CONE CT WELLINGTON, FL 33414

DATE	DESCRIPTION	DRWN	CHKD
11/03/22	INITIAL SET	LP	GM

ACTION CONSTRUCTION GROUP LLC
640 CLEMATIS ST #133
WEST PALM BEACH
12145 BIG CONE
WELLINGTON
GOLDEN BEACH, FL 33414

PEZ-2059-00-0-AC100-01



11/30/22

SHEET: \$0.00

FOUNDATIONS:

- SOIL STATEMENT: FOOTINGS HAVE BEEN DESIGNED FOR 2,000 P.S.F. ALLOWABLE SOIL BEARING CAPACITY. PRIOR TO THE INSTALLATION OF ANY FOOTING FOUNDATION SYSTEM FOR NEW BUILDINGS, STRUCTURES OR ADDITIONS, THE BUILDING OFFICIAL SHALL BE PROVIDED WITH A STATEMENT OF ALLOWABLE BEARING CAPACITY FROM AN ARCHITECT OR PROFESSIONAL ENGINEER. SAID STATEMENT SHALL CLEARLY IDENTIFY THE ALLOWABLE IN-PLACE BEARING CAPACITY OF THE BUILDING PAD FOR THE NEW BUILDING OR ADDITION AND IDENTIFY THE EXISTING SOIL CONDITIONS. THE CERTIFIED IN-PLACE BEARING CAPACITY SHALL HAVE BEEN DETERMINED BY WAY OF RECOGNIZED TESTS OR RATIONAL ANALYSIS AND SHALL MEET OR EXCEED THE DESIGN BEARING CAPACITY.
- FOOTINGS SHALL BE FOUNDED ON WELL COMPACTED VIRGIN SOIL OR ON ENGINEERED FILL AT THE ELEVATIONS SHOWN.
- KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES. REPLACE SOFT OR WEAKENED SOIL WITH STRUCTURAL FILL.
- ELEVATIONS SHOWN AT FOOTINGS ARE TOP OF FOOTING ELEVATION (T.O.F.).
- ALL EXTERIOR FOOTINGS TO BEAR MINIMUM 2" BELOW ADJACENT GRADE, UNLESS OTHERWISE NOTED. ADJUST BOTTOM OF FOOTING AS REQUIRED.

CONCRETE:

- SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS LISTED BELOW.
 - 3000 PSI MINIMUM COMPRESSIVE STRENGTH.
 - 4000 PSI FOR FOUNDATIONS AND SLAB ON GRADE.
- CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
- AGGREGATES SHALL BE CLEAN AND GRADED MAXIMUM SIZES 3/4" CONCRETE ASTM C-33 CONFORMS TO ASTM C-94.
- SLUMP SHALL BE A MINIMUM OF 3" AND MAXIMUM OF 5" CONCRETE DURING AND IMMEDIATELY AFTER DEPOSING SHALL BE THOROUGHLY COMPACTED BY MEANS OF MECHANICAL VIBRATION.

STEEL REINFORCEMENT:

- ALL REINFORCEMENT SHALL BE GRADE 60 (U.O.N.), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST AND BENT, LAPPED, PLACED, SUPPORTED AND FASTENED ACCORDING TO THE 'ACI DETAILING MANUAL' (SP-46) AND THE ACI 318. ALL STEEL SHALL BE SECURELY HELD IN PLACE DURING POURING OF CONCRETE.
- CLEAR COVER FOR REINFORCEMENT SHALL BE:
 - FOOTING PERMANENTLY EXPOSED TO EARTH: 3"
 - UNIFORM FACES EXPOSED TO EARTH: 3"
 - FORMED FACES IN CONTACT WITH EARTH: 2"
 - REINFORCEMENT STEEL SHALL BE FREE OF RUST, FLAKES, MILL SCALE, PAINT, OIL, GREASE, OR OTHER CONTAMINANTS THAT WILL REDUCE BOND. ALL REINFORCING COMPONENTS SHALL BE ACCURATELY LOCATED AND FIRMLY HELD IN PLACE BEFORE AND DURING THE PLACEMENT OF CONCRETE BY MEANS OF WIRE SUPPORTS.
 - REINFORCING BAR LAP SPlice LENGTH, FOR ALL MEMBERS NOT SPECIFICALLY SCHEDULED OR DETAILED (CLASS C).

REFERENCED DRAWINGS OF THE SPECIFIED SYSTEMS

- SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.
- THIS ENGINEER SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. THIS ENGINEER SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION UPON DISCOVERY OF ANY NON-MATCHING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
 - OMISSIONS/CONFLICTS: IN CASE OF OMISSIONS AND CONFLICTS BETWEEN PLANS, SPECIFICATIONS AND SITE CONDITIONS THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK.
 - THE CONTRACTOR IS RESPONSIBLE TO INSULATE DISSIMILAR METALS/MATERIALS TO PREVENT ELECTROLYSIS.

STRUCTURAL INSULATED PANEL (SIP):

- SIP SHALL BE MANUFACTURED BY ELITE ALUMINUM CORPORATION OR AN APPROVED EQUIVALENT MANUFACTURER. FLORIDA PRODUCT APPROVAL NUMBER FL17561.
- MINIMUM ALUMINUM SKIN THICKNESS SHALL BE 0.030"
- FOAM CORE TO BE MINIMUM 2.0 #CF DENSITY EPS OR EQUIVALENT.
- SEE MANUFACTURER APPROVED TABLE FOR PANEL CAPACITY.

FASTENERS (AS APPLICABLE)

- ALL BOLTS SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL & MEET THE REQUIREMENTS OF ASTM A307. WASHERS SHALL BE USED BETWEEN ALUMINUM & BOLT HEAD & BETWEEN WOOD & NUT. WHERE GENERIC FASTENERS ARE LABELED IN DETAILS, CAPACITIES SHALL BE EQUAL TO OR GREATER THAN SAMPSON STRONG TIE TITEN HD OR OTHERWISE NOTED.
- ALL METAL CONNECTORS USED IN LOCATIONS EXPOSED TO WEATHER SHALL BE GALVANIZED.
- ALL FASTENERS TO BE #14 OR GREATER 63316 MIN. WITH (5) PINCHES MIN. PAST THE THREAD PLANE OR NUT. COORDINATE ANCHOR PLACEMENT (IN CONFORMANCE WITH THIS DOCUMENT) WITH MANUFACTURER TO PREVENT DAMAGE TO MECHANICAL UNITS/HOUSING AND COMPONENTS.
- EMBEDMENT DEPTHS SPECIFIED HEREIN ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESS OF STUCCO OR OTHER FINISHES.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS, I.E. ALUMINUM PER F.B.C. 2003.8.4.

WOOD:

- MATERIALS:
- ALL LUMBER SHALL BE #2 GRADE (OR BETTER) SOUTHERN PINE. ALLOWABLE STRESSES SHALL BE AS INDICATED IN "DESIGN VALUES FOR WOOD CONSTRUCTION", A SUPPLEMENT TO THE "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION" 2015 EDITION, BY THE AMERICAN FOREST AND PAPER ASSOCIATION. ALLOWABLE MAXIMUM WATER CONTENT SHALL BE 19%.
 - ALL FASTENERS (E.G. NAILS, SCREWS, BOLTS, TIE RODS) SHALL BE HOT-DIPPED GALVANIZED (G60) MINIMUM GALVANIZED COATING OR 300-SERIES STAINLESS STEEL.
 - STEEL CONNECTORS SHALL CONFORM TO ASTM A653 AND SHALL BE HOT-DIP GALVANIZED PER ASTM A525 OR 300-SERIES STAINLESS STEEL.
 - FASTENERS AND CONNECTORS USED TOGETHER SHALL BE OF THE SAME.
 - ALL CUTS, HOLES AND INJURIES TO THE SURFACE OF TREATED WOOD SHALL BE PROTECTED BY FIELD TREATMENT MEETING AWWA STANDARD M4.
 - ALL TREATED WOOD PRODUCTS SHALL BE HANDLED AND FIELD-FABRICATED IN ACCORDANCE WITH AWWA STANDARD M4 FOR THE CARE OF PRESERVATIVE-TREATED WOOD PRODUCTS.
 - CARBON-STEEL OR ALUMINUM PRODUCTS IN DIRECT CONTACT WITH PRESSURE-TREATED WOOD DO NOT USE STANDARD DO NOT USE STANDARD

SCOPE OF WORK:

- PROVIDE STRUCTURAL DRAWINGS FOR A WOOD PERGOLA.

STRUCTURAL NOTES:

THE WORK SPECIFIED HEREIN HAS BEEN DESIGNED & ALL WORK SHALL BE IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020), AND ASCE 7-16.

- ALL WORK SPECIFIED HEREIN HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE BUILDING CODE AS STATED HEREIN.
- THE HOST STRUCTURE IS ASSUMED TO BE ADEQUATE TO WITHSTAND THE LOADS IMPOSED BY THIS DESIGN. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT SHALL REMAIN IN CONFORMANCE WITH REQUIREMENTS AND LIMITATIONS OF THIS PLAN. THE CONTRACTOR IS TO VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION, AND VERIFY THAT PROPOSED DIMENSIONS AND FIELD CONDITIONS AGREE WITH THIS PROPOSED PLAN. USE OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THE PROPOSED SYSTEM LAYOUT, COMPONENTS SELECTED, AND INSTALLATION.
- ALL MATERIALS USED & FABRICATION METHODS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED AND APPROVED REQUIREMENTS.
- THIS CERTIFICATION DOES NOT INCLUDE ANY ROOFING ELEMENT OTHER THAN ATTACHMENT. ROOFING SHALL BE PER MANUFACTURER CERTIFICATION.

DESIGN CRITERIA:

FLORIDA BUILDING CODE 7TH EDITION (2020), ASCE 7-16 CHAPTER 27.
V=70 MPH, EXPOSURE 'C'
WRF=12, CATEGORY II
 $K_d = 0.85$, $K_1 = 0.049$
 $q_p = 0.00256 V^2 K_d K_1 K_2 K_3 = 32.05$ PSF
MAXIMUM WIND PRESSURES = 29.95 PSF (ASD)
DEAD LOAD = 15 PSF
ROOF LIVE LOAD = 20 PSF

THESE PLANS CERTIFY THE STRUCTURAL ADEQUACY OF THE PROPOSED SYSTEM IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE BUILDING CODE ONLY.

GENERAL NOTES:

- CONSTRUCTION METHODS, PROCEDURES, AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY AND THE CONTRACTOR IS TO TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
- SHOULD ANY SPECIFIC CONDITION DIFFER FROM THAT SPECIFIED HEREIN, OR STANDARD FIELD CONDITIONS, ADDITIONAL SPECIFIC ENGINEERING MAY BE REQUIRED AS DETERMINED BY THE BUILDING INSPECTOR AND PERMITTING CONTRACTOR.
- USE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT SHOWN IN THESE PLANS.
- DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT SHALL REMAIN IN CONFORMANCE WITH THE LIMITATIONS OF THIS PLAN. THE CONTRACTOR IS TO VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION, AND VERIFY THAT PROPOSED DIMENSIONS AND FIELD CONDITIONS AGREE WITH THIS PROPOSED PLAN. THESE DRAWINGS ARE NOT INTENDED TO BE USED AS FABRICATION OR SHOP DRAWINGS.
- ALL STRUCTURAL MEMBERS AS SHOWN HAVE BEEN DESIGNED TO CARRY IN PLACE DESIGN LOADS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY ADDITIONAL LOADS AND FORCES IMPOSED DURING MANUFACTURING, TRUCKING, ERECTING, AND HANDLING.
- ALL THE CONTRACTOR'S PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER, BY LETTER, PRIOR TO ANY PERMANENT WORK AND PRIOR TO THE AWARD OF THE CONTRACT.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, AT ALL INDEMNITIES & SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN, EXCEPT AS EXPRESSLY PROVIDED IN HEREIN. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT

Design: 11/30/22
Drawn: 11/30/22
Check: 11/30/22
Approved: 11/30/22
Project: 11/30/22
Sheet: 11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

ACTION CONSTRUCTION GROUP LLC
640 CLEMATIS ST #133
WEST PALM BEACH
12145 BIG CONE
WELLINGTON
GOLDEN BEACH, FL 33414

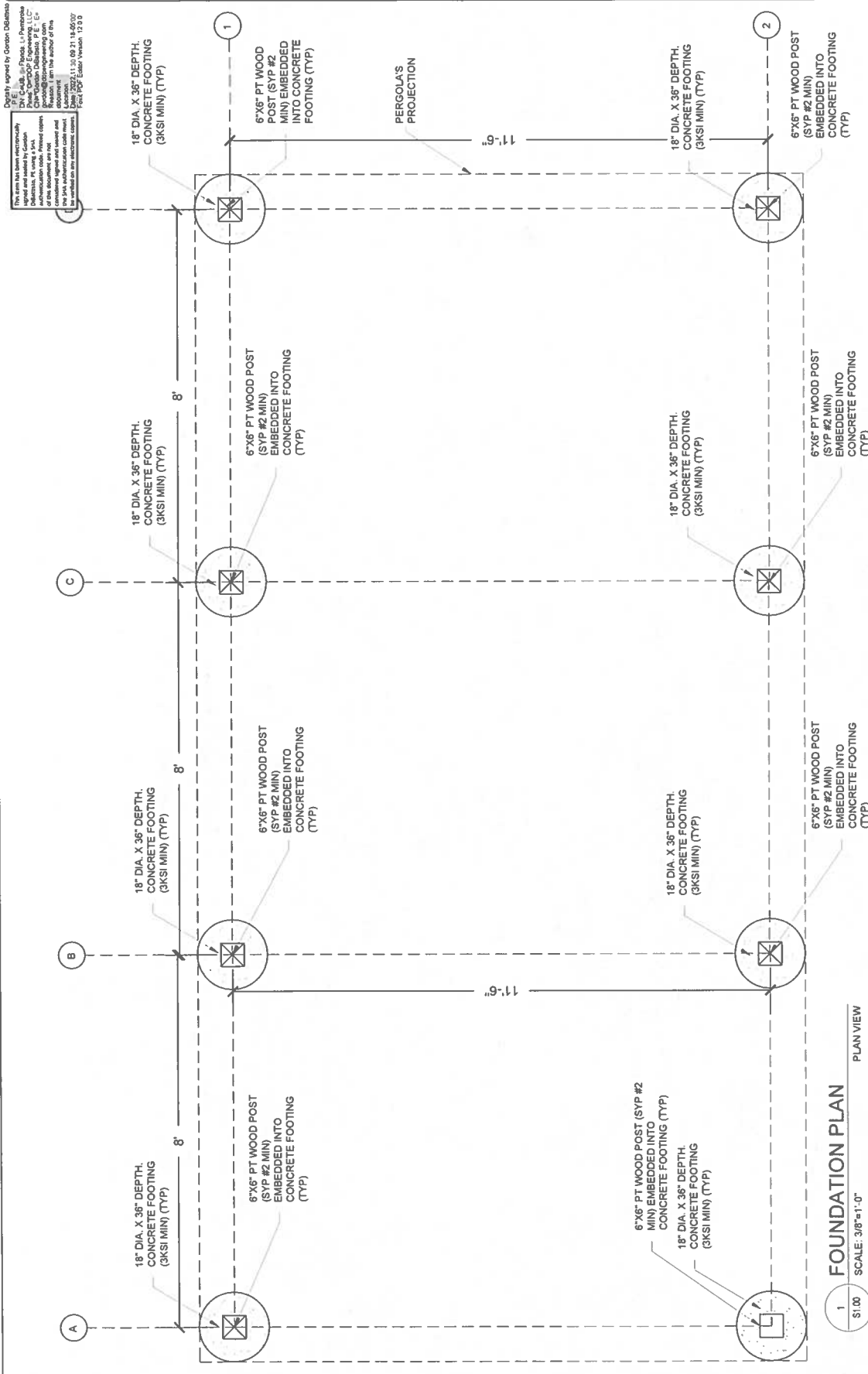
P22-2059-000-ACT100-01

ENGINEERING
1555 NW 14TH AVE
P.E. No. 82233-FL
PEARSONE PHASE, FL 33027
OFFICE: (813) 668-8107
REGISTERED NO. 34119

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22

11/30/22
11/30/22
11/30/22
11/30/22
11/30/22
11/30/22



1 FOUNDATION PLAN
SCALE: 3/8"=1'-0"
PLAN VIEW

SHEET: \$2.00

④



ACTION CONSTRUCTION GROUP LLC
640 CLEMATIS ST #133
WEST PALM BEACH
12145 BIG CONE
WELLINGTON
GOLDEN BEACH, FL 33414



DOP
ENGINEERING

1606 SW 147TH AVE.
PEMBROKE PINES, FL 33027
(954) 669-8707
OFFICE@DOPENGINEERING.COM
REGISTRATION NO. 34118

REPRODUCTION IS PROHIBITED WITHOUT WRITTEN CONSENT
 OF THE NATIONAL ARCHIVES AND RECORDS SERVICE
 MANUSCRIPTS TO THIS DOCUMENT ARE NOT
 PERMITTED AND WILL BE PENALIZED BY OUR
 COPYRIGHT ACT

SHEET: \$4.00

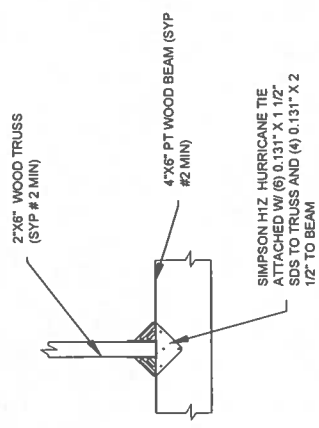
5V CRIMP METAL ROOF
SYSTEM ATTACHED @ 18"
MIN O.C PER
MANUFACTURER

2"x8" WOOD RIDGE
(SYP #2 MIN)

2"x6" WOOD TRUSS
(SYP #2 MIN)

SIMPSON GA2 ANGLE EACH SIDE
OF THE TRUSS ATTACHED W/ (6)
9 X 1 1/2" SDS

4 BEAM TO COLUMN CONNECTION
\$4.00 SCALE: 3/4"=1'-0" DE

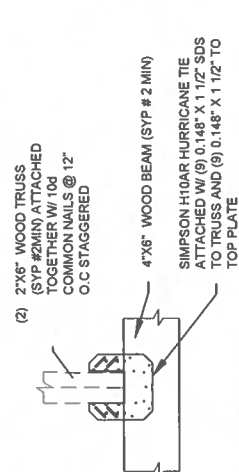


5
\$400

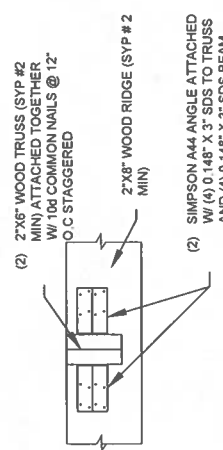
TRUSS TO TOP PLATE CONNECTION

SCALE: 3/4"=1'-0"

DETAIL



6 DOUBLE TRUSS TO BEAM CONNECTION
\$4.00 SCALE: 3/4"=1'-0" DETAIL



7 DOUBLE TRUSS TO BEAM CONNECTION
\$4.00 SCALE: 3/4"=1'-0" DETAIL