

# DELPHOS TENT & AWNING, INC., SUSPENDED CANOPY SYSTEM GENERAL PERFORMANCE EVALUATION - FOR RESIDENTIAL & COMMERCIAL USE

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**STANDARD LOADING:** LOCAL DESIGN CONDITIONS NOT TO EXCEED THE FOLLOWING:  
**ULT WIND SPEED:** 115 MPH; **EXPOSURE CATEGORY:** C; **GROUND SNOW LOAD:** 25 PSF

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**SCOPE OF WORK:**  
DESIGN & INSTALLATION OF A NEW ALUMINUM ROOF, SINGLE / MULTI-BAY SUSPENDED, RESIDENTIAL / COMMERCIAL, DELPHOS TENT & AWNING SUSPENDED CANOPY AS DETAILED HEREIN

**EXCLUSIONS:**  
THE DESIGN OF ANY EXISTING HOST STRUCTURE, MECHANICAL ELEMENTS, EGRESS, WATERPROOFING ELECTRICAL, WIRING, FAN BEAMS, FANS, OR ANY ACCESSORY ATTACHMENTS ARE NOT INCLUDED WITH THIS DESIGN OR CERTIFICATION U.N.O

**PROJECT INFORMATION:**  
CANOPY STYLE: SINGLE BAY SUSPENDED CANOPY SYSTEM / MULTI-BAY SUSPENDED CANOPY SYSTEM  
ROOF TYPE: ALUMINUM DECK PAN ROOF  
STRUCTURE SUPPORT: HANGER ARMS

**DESIGN CRITERIA:**  
INTERNATIONAL BUILDING CODE (2015 & 2018)  
CURRENT OHIO STATE BUILDING CODE  
ASCE 7-10 & 7-16 LOAD COMBINATIONS AS APPLICABLE

1. DEAD LOADING
  - 1.1. ROOF DEAD LOAD..... 5 PSF
2. LIVE LOADING
  - 2.1. ROOF LIVE LOAD..... 20 PSF
3. WIND LOADING INPUTS
  - 3.1. METHODOLOGY..... HOST ATTACHED CANOPY
  - 3.2. ULTIMATE WIND SPEED..... UP TO 115 MPH
  - 3.3. (ASD =  $\sqrt{0.6} \cdot V_{ult}$ )
  - 3.4. WIND EXPOSURE FACTOR..... UP TO C
  - 3.5. WIND RISK CATEGORY..... II
  - 3.6. DIRECTIONALITY/OTHER FACTORS.....  $K_d=0.85, G=0.85, K_z=0.85, K_{zt}=1.0$
  - 3.7. MEAN ROOF HEIGHT..... UP TO 60 FT
4. SNOW LOADING
  - 4.1. GROUND SNOW LOAD..... UP TO 25 PSF
  - 4.2. SNOW EXPOSURE FACTOR..... 1.0
  - 4.3. SNOW LOAD IMPORTANCE FACTOR..... 1.0
  - 4.4. THERMAL FACTOR..... 1.2
  - 4.5. SNOW DRIFT..... PER CODE
  - 4.6. ICE THICKNESS..... PER CODE
5. RESULTANT ASD DESIGN LOAD COMBINATIONS (STANDARD LOADING)
  - 5.1. C&C GRAVITY (+)..... 45 PSF
  - 5.2. C&C UPLIFT (-)..... -18 PSF

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SUSPENDED CANOPY SYSTEM  
SINGLE / MULTI-BAY SYSTEMS  
GENERAL PERFORMANCE EVALUATION

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	MLD	CCB	9/29/23

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**GENERAL NOTES**

- THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE REFERENCED BUILDING CODE. STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY AND GOVERN. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.
- THE EXISTING HOST STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED SYSTEM AS VERIFIED BY THE ENGINEER & OR ARCHITECT OF RECORD, et.al. THE HOST STRUCTURE WHICH IS DESIGNED, CERTIFIED, AND INSPECTED BY OTHERS MUST PROVIDE SUFFICIENT, CAPACITY FOR THIS SPECIFIED DECK SYSTEM. NO WARRANTY OR GUARANTEE TO THESE CONDITIONS, EITHER EXPRESSED OR IMPLIED, IS OFFERED WITH THIS CERTIFICATION.
- THE CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF, INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA. 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.
- SPECIAL INSPECTIONS MAY BE REQUESTED OR REQUIRED AT THE DISCRETION OF THE AUTHORITY HAVING JURISDICTION.
- MINIMUM STRENGTHS FOR SUBSTRATES ARE AS FOLLOWS: CONCRETE: 3,000 PSI MIN., CMU: ASTM C90 1,500 PSI MIN., WOOD: SYP #2 G=0.55., STEEL: ASTM A36 FU=58 KSI MIN.
- ROOF MAINTENANCE NOT PERMITTED DURING DESIGN EVENT(S) AS ROOF LIVE LOAD IS NOT COMBINED WITH WIND LOADING FOR GRAVITY DIRECTION LOAD COMBINATION ANALYSIS. DRIFT SNOW LOAD AND WIND LOAD NOT APPLIED SIMULTANEOUSLY.
- DURING THE ANODIZING PROCESS, MANY FACTORS MAKE IT IMPOSSIBLE TO CONTROL COLORING TO A PERFECT MATCH BETWEEN PIECES & SHAPES, THE PURPOSE OF THE LIGHT AND DARK RANGE IS TO MAKE KNOWN THE FACT THAT THERE MAY BE VARIATIONS IN COLOR WITHIN A SINGLE SHAPE. A LIGHT AND DARK RANGE CANNOT BE CHOSEN. THEY ARE NOTED ONLY TO CONVEY THE EXTREME ALLOWABLES IN A PRODUCTION RUN.

**CANOPY DESIGN:**

- SYSTEM NOT DESIGNED TO HANDLE CONCENTRATED LOADS FROM HUMAN ACTIVITY.
- NO CERTIFICATION IS OFFERED FOR WATERPROOFING, SIZING, OR OPERATION OF GUTTERS. END USER TO CLEAN CANOPY DRAINAGE HOLES AND OUTLETS AS REQUIRED FOR DRAINAGE TO FLOW AS INTENDED TO AVOID EXCESS WATER FROM PONDING.
- SYSTEM NOT DESIGNED FOR WATERSHED OF RAINFALL FROM ADJACENT ROOFS UNLESS SPECIFICALLY SHOWN HEREIN, TYP.
- CANOPY ENGINEER HAS NOT VISITED THIS JOBSITE. INFORMATION HEREIN IS BASED ON CONTRACTOR-SUPPLIED DATA AND MEASUREMENTS.

**STRUCTURAL MATERIALS AND CONNECTIONS**

**STRUCTURAL ALUMINUM & ALUMINUM WELDING:**

- ALL COMPONENTS SHALL BE STRUCTURAL ALUMINUM (U.N.O.) AND SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE AND MATERIAL STANDARDS REFERENCED ON THIS SHEET.
- ALL STRUCTURAL ALUMINUM SHALL BE MIN 1/8" THICK U.N.O. AND BE OF THE FOLLOWING ALLOY AND TEMPER:
  - BEAMS ..... 6063-T6
  - ALL OTHER EXTRUSIONS ..... 6063-T6
  - FASTENERS ..... SS 316
- STRUCTURAL ALUMINUM SHALL BE FRAMED PLUMB AND TRUE AND ADEQUATELY BRACED DURING CONSTRUCTION.
- ALL BEAMS SHALL HAVE A MINIMUM 1 1/2" DEPTH FULL BEARING SUPPORT UNLESS NOTED OTHERWISE.
- WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
- UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC, OR CADMIUM. ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH MASONRY, CONCRETE, WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER SHALL BE PAINTED.
- FOR ALUMINUM IN CONTACT WITH CONCRETE: ACCEPTABLE PAINTS: PRIMING PAINT (ONE COAT), SUCH AS ZINC MOLYBDATE PRIMER IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-P-645B ("GOOD QUALITY", NO LEAD CONTENT). ALT: HEAVY COATING OF ALKALI RESISTANT BITUMINOUS PAINT. ALT: WRAP ALUMINUM WITH A SUITABLE PLASTIC TAPE APPLIED IN SUCH A MANNER AS TO PROVIDE ADEQUATE PROTECTION AT THE OVERLAPS.
- ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE TO WHICH CORROSIVE COMPONENTS SUCH AS CHLORIDES HAVE BEEN ADDED IF THE ALUMINUM WILL BE ELECTRICALLY CONNECTED TO STEEL. EMBEDDED ALUMINUM ELEMENTS WILL BE COVERED WITH PLASTIC TAPE OR OTHERWISE PROTECTED AS PER 2015 ADM M.7.3.
- BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
- ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE 7.3.1. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY, AND METHODS OF CONSTRUCTION AS SET FORTH IN THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- STAINLESS STEEL FASTENERS SHALL BE ASTM F593 316 SS COLD WORKED CONDITION. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR ALL SCREW CONNECTIONS. ALL FASTENER CONNECTIONS TO METAL SHALL PROVIDE 2xDIAMETER EDGE DISTANCE AND 2.5xDIAMETER SPACING.
- SELF-DRILLING SCREWS SHALL BE TEK BRAND / ALL POINTS FASTENERS OF SIZE #14, STAINLESS STEEL 300 SERIES, WITH MINIMUM 1/2" THREAD ENGAGEMENT BEYOND THE CONNECTED PART, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.

**STRUCTURAL WOOD (AS APPLICABLE):**

- ALL DIMENSION LUMBER SHALL BE STRUCTURAL GRADE #2 SOUTHERN YELLOW PINE OR BETTER MEETING APPLICABLE REQUIREMENTS OF THE SOUTHERN PINE INSPECTION BUREAU (SPIB) AND PRESSURE-IMPREGNATED (PT) BY AN APPROVED PROCESS (ACQ 0.4 PRESSURE TREATED) PRESERVATIVE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE BUILDING CODE AND AMERICAN WOOD PRESERVERS ASSN (AWPA) "BOOK OF STANDARDS" OR 0.55 SPECIFIC GRAVITY MIN.
- ALL METAL CONNECTORS IN CONTACT WITH WOOD USED IN LOCATIONS EXPOSED TO WEATHER SHALL BE GALVANIZED.
- NAILS SHALL PENETRATE THE SECOND MEMBER A DISTANCE EQUAL TO THE THICKNESS OF THE MEMBER BEING NAILED THERETO. THERE SHALL BE NOT LESS THAN 2 NAILS IN ANY CONNECTION.
- MEMBERS SHALL BE FREE OF CRACKS AND KNOTS. MOISTURE CONTENT SHALL BE 19% OR LESS.
- WOOD THAT IS IN CONTACT WITH CONCRETE OR MASONRY, AND AT OTHER LOCATIONS AS SHOWN ON STRUCTURAL DRAWINGS, SHALL BE PROTECTED WITH 30 # FELT (UNLESS NOTED OTHERWISE) OR PRESSURE TREATED IN ACCORDANCE WITH AITC-109. MEMBER SIZE SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE.

**OTHER MATERIALS (AS APPLICABLE)**

- ANY SPECIFIED LIGHT GAUGE STEEL MEMBERS SHALL CONFORM TO ASTM A36 AND CURRENT EDITION OF AISC WITH MINIMUM Fy = 55KSI

**ANCHORS & FASTENERS**

- ALL FASTENERS TO BE #14 OR GREATER ASTM F593 COLD WORKED 316 STAINLESS STEEL, UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ALL METAL CONNECTORS USED IN LOCATIONS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.
- ALL FASTENERS SHALL BE SPACED WITH 2x DIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT FASTENERS, UNLESS NOTED OTHERWISE. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR ALL FASTENERS.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESS OF STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
- ANCHOR QUANTITIES INDICATED IN DETAILS ARE FOR GRAPHICAL PURPOSES ONLY. DO NOT SCALE DIAMETER, LENGTH, OR PENETRATION(S). HEAD STYLE(S) ARE FREELY INTERCHANGEABLE.

**STEEL**

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. STEEL CONSTRUCTION MANUAL AND SHALL CONFORM WITH THE LATEST A.S.T.M. SPECIFICATIONS.
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS:

ROLLED SHAPES AND CHANNELS: ASTM A572 OR A992, MIN. YIELD STRENGTH 50 KSI

ANGLES FOR TRUSSES AND BRACES: ASTM A36 MIN YIELD STRENGTH 36 KSI  
MISCELLANEOUS ANGLES: ASTM A36

HOLLOW STRUCTURAL SECTIONS:ASTM A500 GRADE B, MIN YIELD STRENGTH 42 KSI FOR ROUND AND

- 46 KSI FOR RECTANGULAR HSS
- CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:
  - ANGLES: ASTM A36
  - WTS: ASTM A992
  - PLATES: ASTM A572, MIN YIELD STRENGTH 50 KSI
  - BOLTS: ASTM A325
  - NUTS: ASTM A563
  - WASHERS: ASTM F436
  - ANCHOR RODS: ASTM F1554 GRADE 55 WITH WELDABILITY SUPPLEMENT S1
  - WELD ELECTRODES: E70XX

- ALL OTHER STEEL MEMBERS NOT SPECIFIED SHALL CONFORM TO ASTM A36 STAINLESS STEEL UNLESS OTHERWISE NOTED
- SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.
- FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- STEEL MEMBERS IN CONTACT WITH CONCRETE AND WOOD SHALL BE PROTECTED BY "KOPPERS BITUMINOUS PAINT" OR STEEL PRIMER IN ACCORDANCE WITH CURRENT FLORIDA BUILDING CODE. ALL WELDS TO BE COVERED WITH NON-REACTIVE PAINT
- FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER, PROVIDE HOT-DIPPED GALVANIZED FINISH.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

**STEEL WELDING**

- ALL WELDING MUST BE DONE BY AN AWS CERTIFIED WELDER OR SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL 15TH ED & AWS D1.1. "STRUCTURAL WELDING CODE-STEEL", LATEST EDITION AS INSPECTED AND VERIFIED BY OTHERS.
- ALL WELDS SHALL BE MADE USING LOW HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH PER AWS D1.1 (MINIMUM 70 KSI, E70XX)
- MIN. WELD IS 1/8" FULL FILLET WELD (U.N.O.). ALL WELDS NOT OTHERWISE IDENTIFIED SHALL BE CONTINUOUS.
- WELDS SHALL SHOW UNIFORM SECTION, SMOOTHNESS OF WELD METAL, FREEDOM FROM POROSITY AND CLINKERS, AND ADEQUATE STRENGTH AND DURABILITY. FIELD WELDS SHALL BE CLEANED AND TOUCHED-UP WITH COLD-GALVANIZING COMPOUND AND TNMEC 1099G PRIMER AS REQUIRED.

**NON-STRUCTURAL ELEMENTS:**

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ABBREVIATIONS:

- θ = SLOPE, DEGREES
- (+) = POSITIVE (DOWN-IN) PRESSURE
- (-) = NEGATIVE (UP-OUT) PRESSURE
- Hc = CANOPY HEIGHT
- He = EAVE HEIGHT
- PSF = POUNDS PER SQUARE FOOT
- MPH = MILES PER HOUR
- TYP = TYPICAL

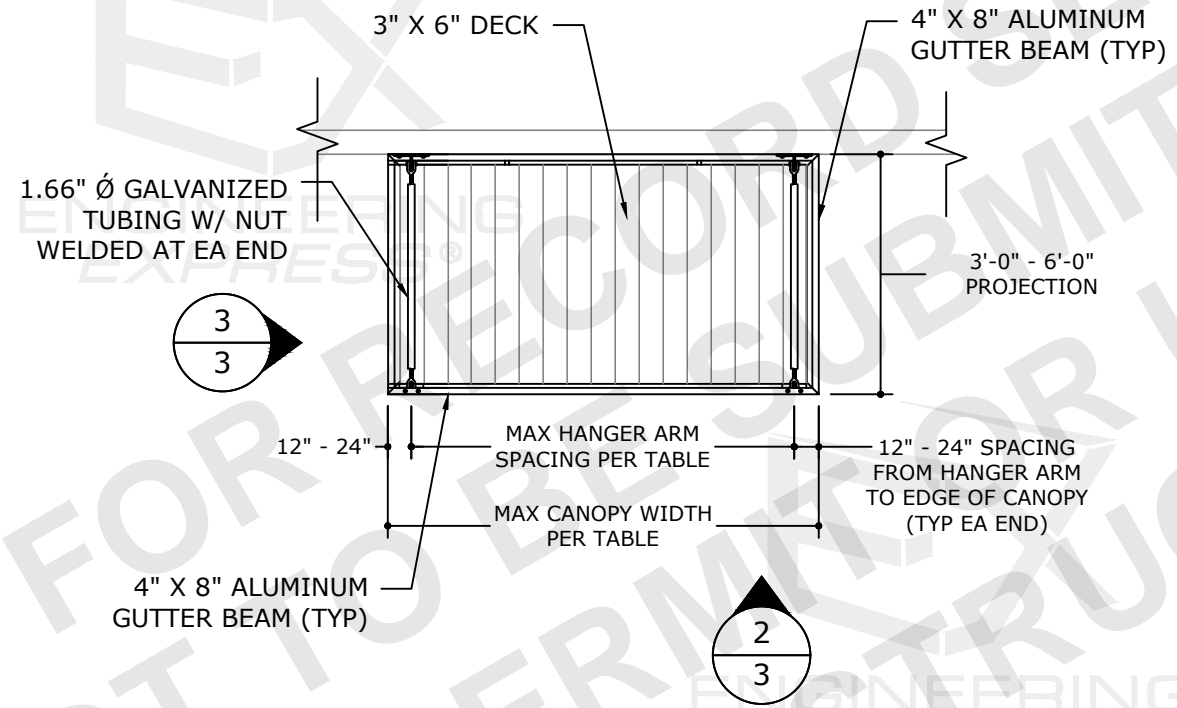
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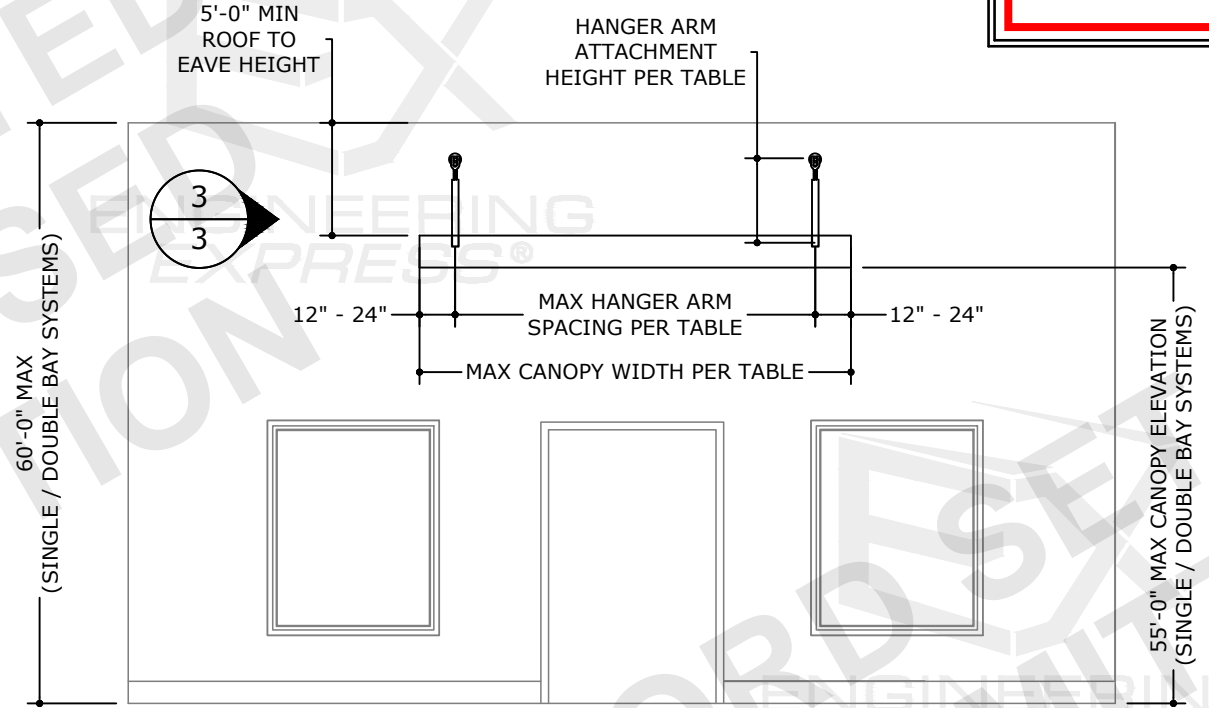
# PROJECT VIEWS - SINGLE BAY SYSTEM

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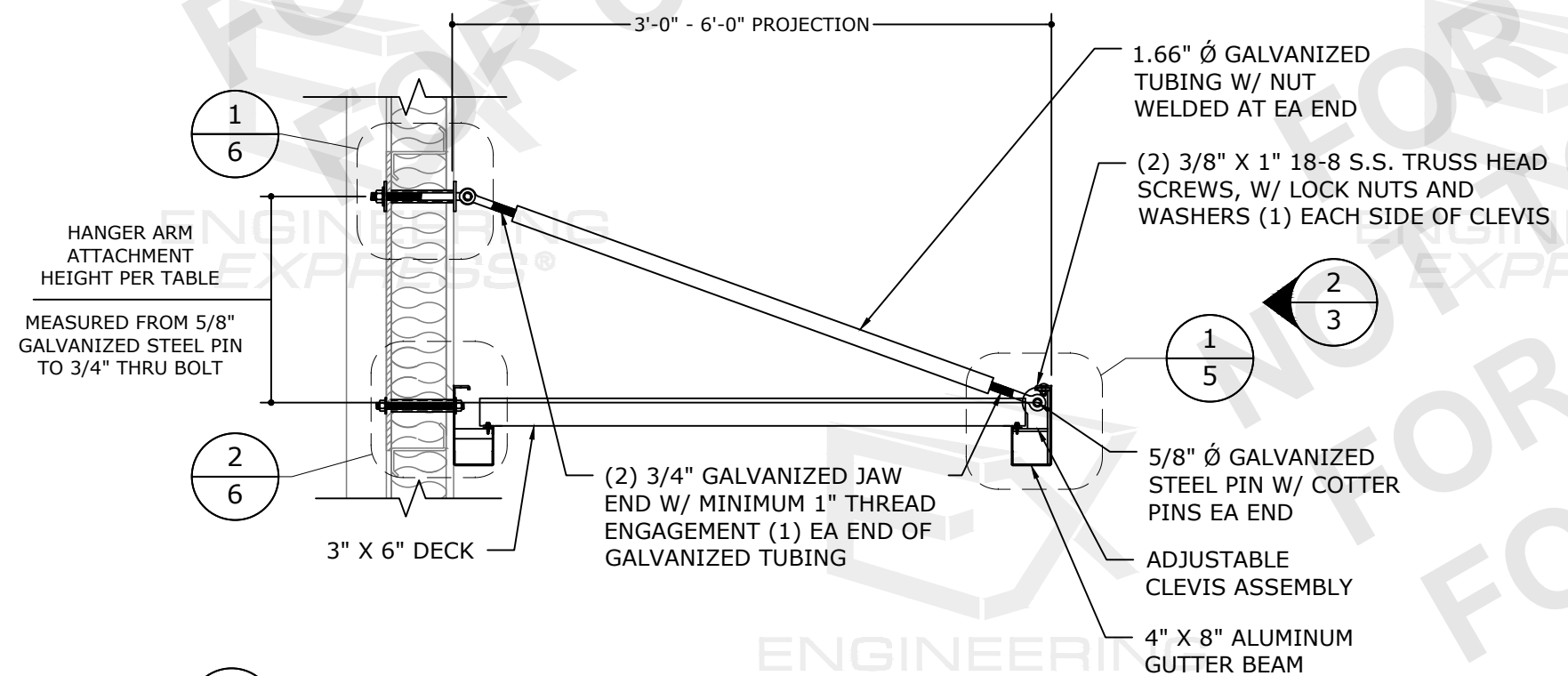
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**1** CANOPY PLAN VIEW  
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**2** CANOPY FRONT ELEVATION  
 NOT TO SCALE ELEV



**3** CANOPY SIDE ELEVATION  
 NOT TO SCALE SECTION

SINGLE BAY SUSPENDED CANOPY - ALLOWABLE DESIGNS				
PROJECTION	MAX CANOPY WIDTH	MAX HANGER ARM SPACING	MINIMUM HANGER ARM ATTACHMENT HEIGHT	MAXIMUM HANGER ARM ATTACHMENT HEIGHT
3' - 0"	16' - 0"	14' - 0"	1' - 3"	3' - 0"
4' - 0"	12' - 0"	10' - 0"	1' - 6"	4' - 0"
5' - 0"	10' - 0"	8' - 0"	2' - 0"	5' - 0"
6' - 0"	10' - 0"	8' - 0"	2' - 3"	6' - 0"

- NOTES:**
1. MAXIMUM HANGER ARM ATTACHMENT HEIGHT NOT TO EXCEED CANOPY PROJECTION LENGTH.
  2. MINIMUM HANGER ARM ATTACHMENT HEIGHT NOT TO BE LESS THAN THE GIVEN HEIGHTS IN THE TABLE ABOVE.
  3. CANOPY WIDTH MAY BE LESS THAN SHOWN IN TABLE ABOVE.
  4. HANGER ARM EDGE DISTANCE MUST BE BETWEEN 12" - 24" AT EACH END.
  5. CANOPY PROJECTION, WIDTH, HANGER ARM SPACING, AND HANGER ARM ATTACHMENT HEIGHTS MAY NOT VARY FROM THE VALUES IN THE TABLE ABOVE WITHOUT SITE SPECIFIC ENGINEERING BY A CERTIFIED DESIGN PROFESSIONAL.

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 SINGLE / MULTI-BAY SYSTEMS  
 GENERAL PERFORMANCE EVALUATION

DATE	DRWN	CHKD	DATE
9/29/23	MLD	CCB	

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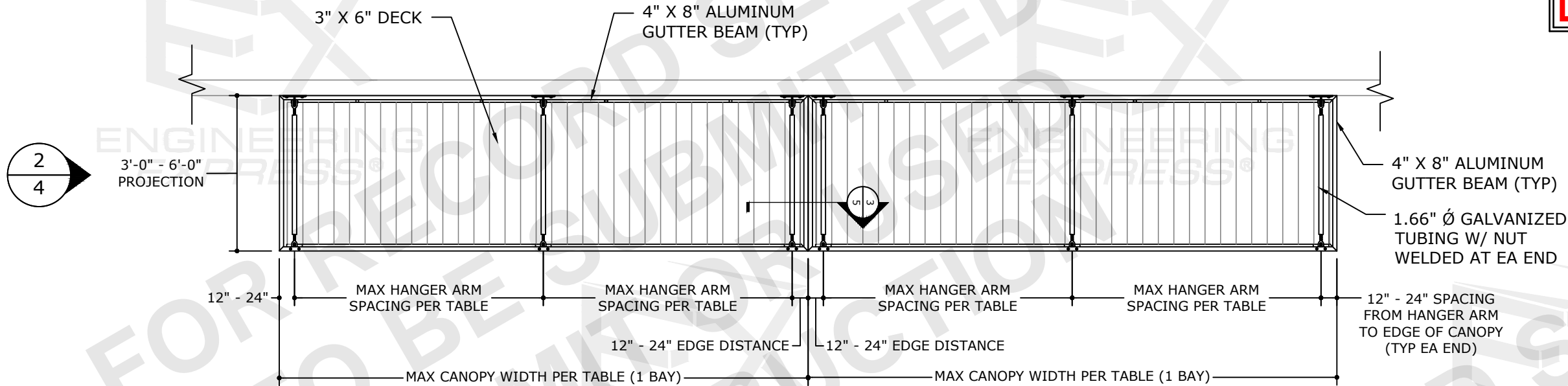
**3** OF **7**

10/31/2023 9:44 AM MATTHEW c:\users\matthew\engineering\express\production - documents\projects\23-123-65574 dta suspended canopy performance evaluation\work\drawings & cad\23-65574g performance evaluation.dwg

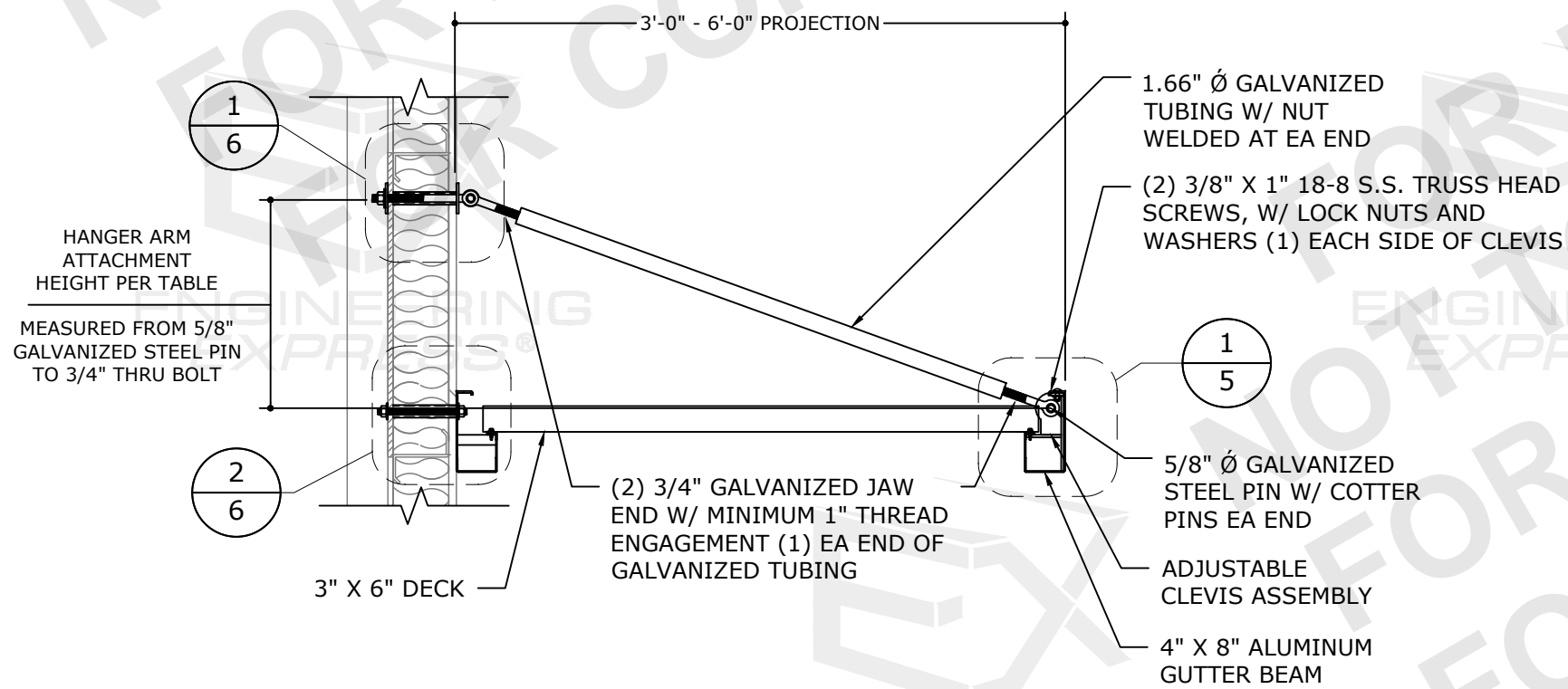
# PROJECT VIEWS - MULTI-BAY SYSTEM

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**1** CANOPY PLAN VIEW  
**4** NOT TO SCALE PLAN



**2** CANOPY SIDE ELEVATION  
**4** NOT TO SCALE SECTION

DOUBLE BAY SUSPENDED CANOPY - ALLOWABLE DESIGNS				
PROJECTION	MAX CANOPY WIDTH (1 BAY)	MAX HANGER ARM SPACING	MINIMUM HANGER ARM ATTACHMENT HEIGHT	MAXIMUM HANGER ARM ATTACHMENT HEIGHT
3' - 0"	18' - 0"	8' - 0"	1' - 3"	3' - 0"
4' - 0"	15' - 0"	6' - 6"	1' - 9"	4' - 0"
5' - 0"	15' - 0"	6' - 6"	2' - 6"	5' - 0"
6' - 0"	12' - 0"	5' - 0"	3' - 0"	6' - 0"

- NOTES:**
1. MAXIMUM HANGER ARM ATTACHMENT HEIGHT NOT TO EXCEED CANOPY PROJECTION LENGTH.
  2. MINIMUM HANGER ARM ATTACHMENT HEIGHT NOT TO BE LESS THAN THE GIVEN HEIGHTS IN THE TABLE ABOVE.
  3. CANOPY WIDTH MAY BE LESS THAN SHOWN IN TABLE ABOVE.
  4. HANGER ARM EDGE DISTANCE MUST BE BETWEEN 12" - 24" AT EACH END.
  5. HANGER ARM SPACING MAY NOT EXCEED 6' - 6".
  6. THIS DESIGN MAY BE USED FOR MULTIPLE BAYS IN SUCCESSION WITH ONE ANOTHER, PROVIDED THAT EACH BAY DOES NOT EXCEED THE GIVEN DESIGN LIMITS IN THE TABLE ABOVE.
  7. THIS DESIGN MAY BE USED FOR JUST ONE BAY.
  8. CANOPY PROJECTION, WIDTH, HANGER ARM SPACING, AND HANGER ARM ATTACHMENT HEIGHTS MAY NOT VARY FROM THE VALUES IN THE TABLE ABOVE WITHOUT SITE SPECIFIC ENGINEERING BY A CERTIFIED DESIGN PROFESSIONAL.

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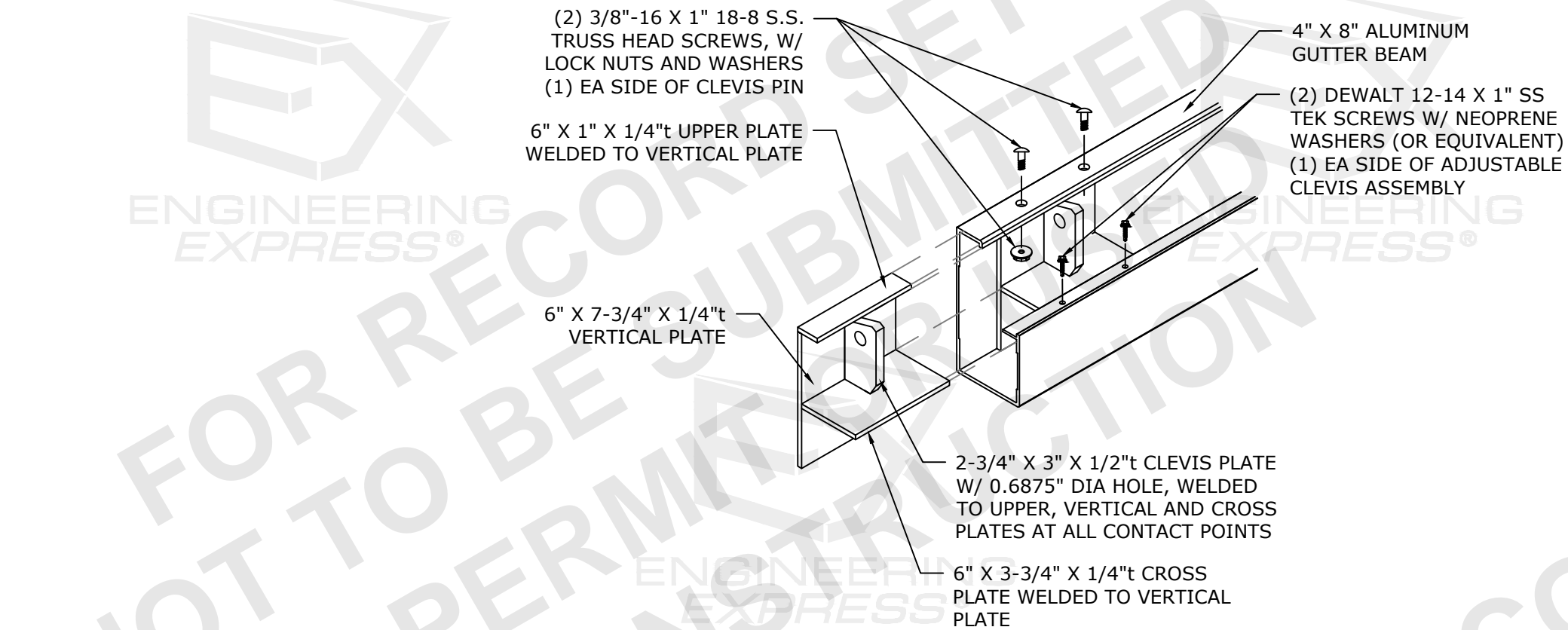
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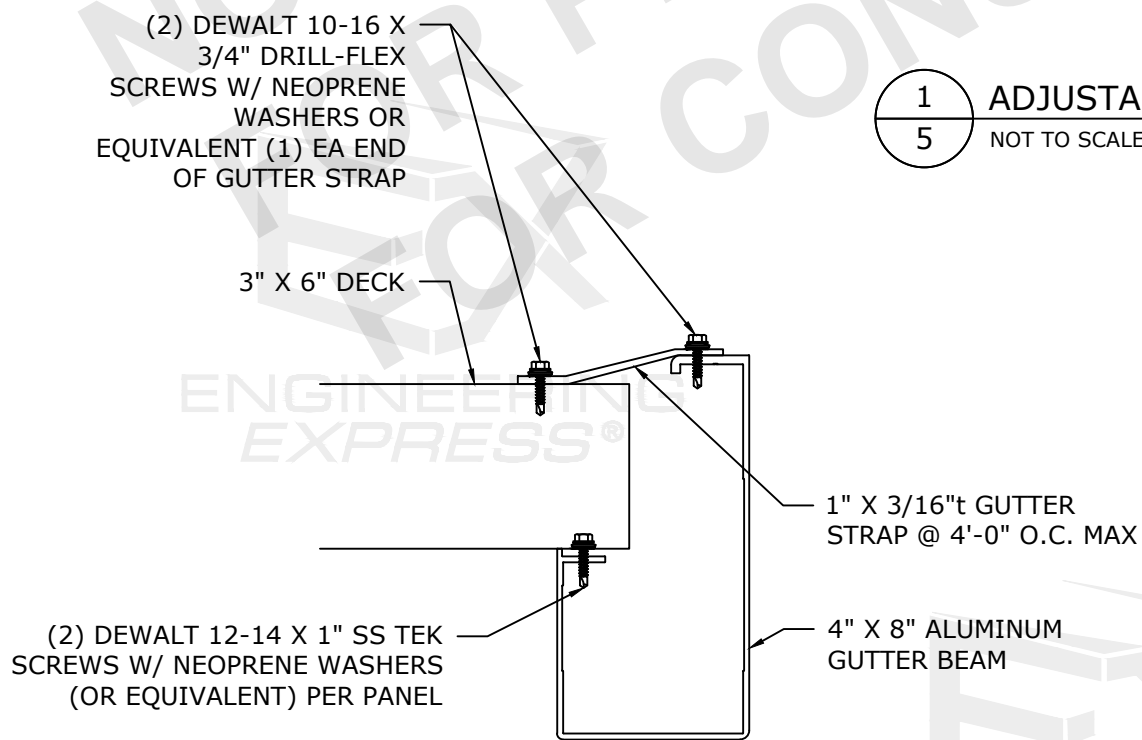
# INTERNAL CONNECTION DETAILS

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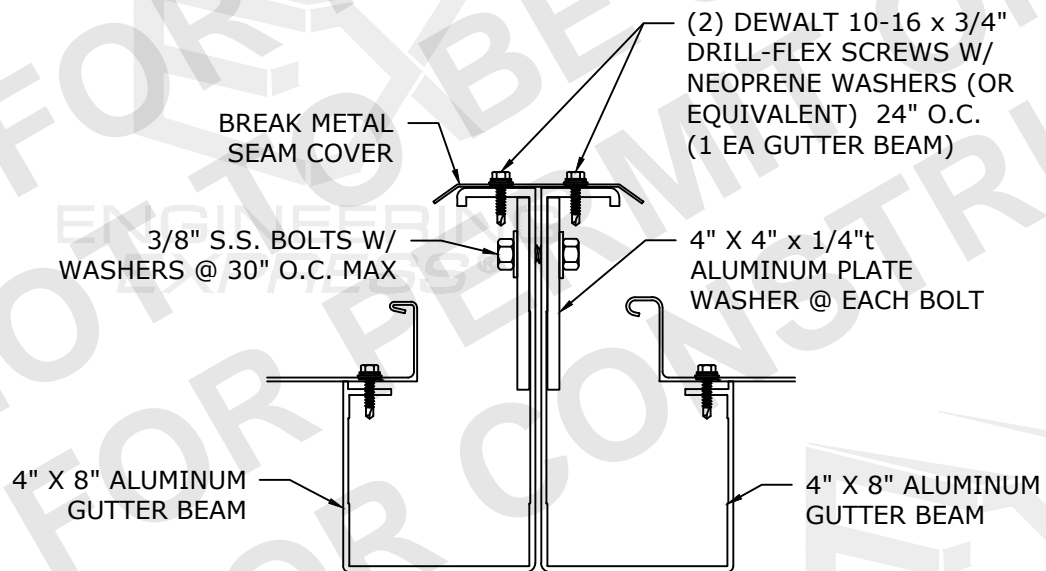
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**1** ADJUSTABLE CLEVIS ASSEMBLY  
 5 NOT TO SCALE  
 DETAIL



**2** GUTTER STRAP DETAIL  
 5 NOT TO SCALE



**3** GUTTER BEAM SEAM  
 5 NOT TO SCALE  
 SECTION

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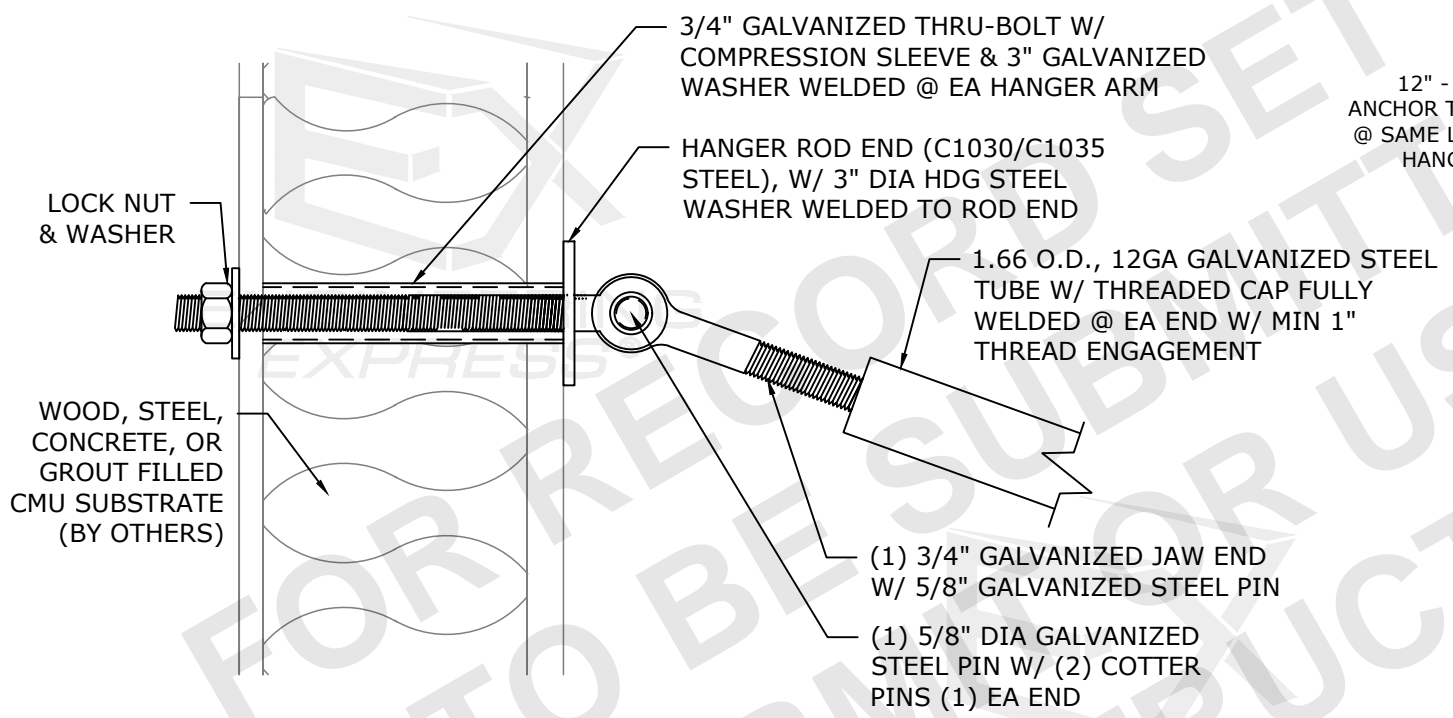
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# HOST CONNECTION DETAILS (STANDARD LOADING)

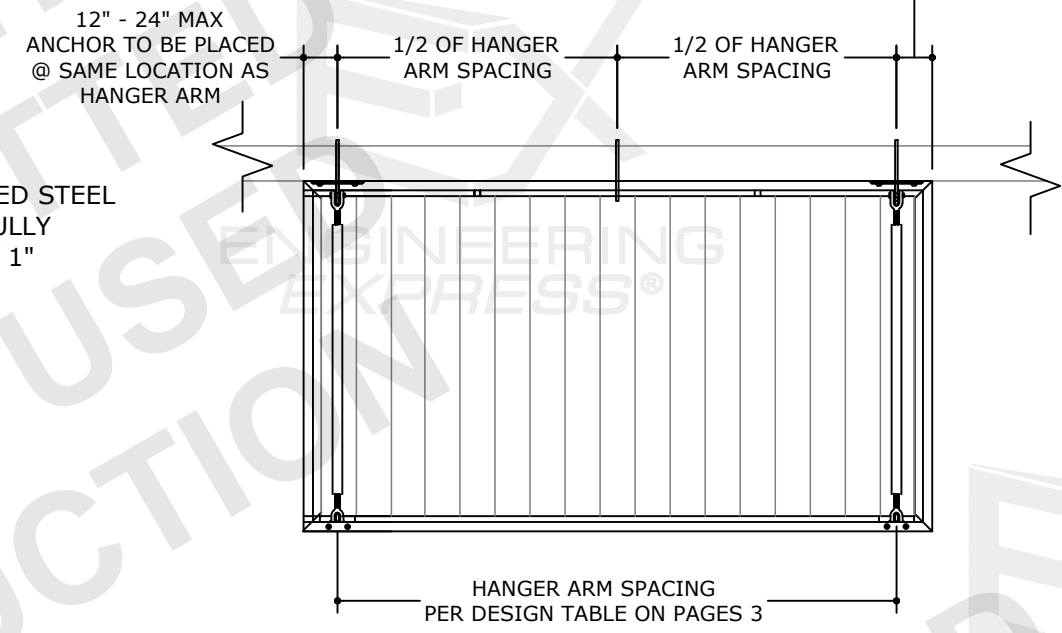
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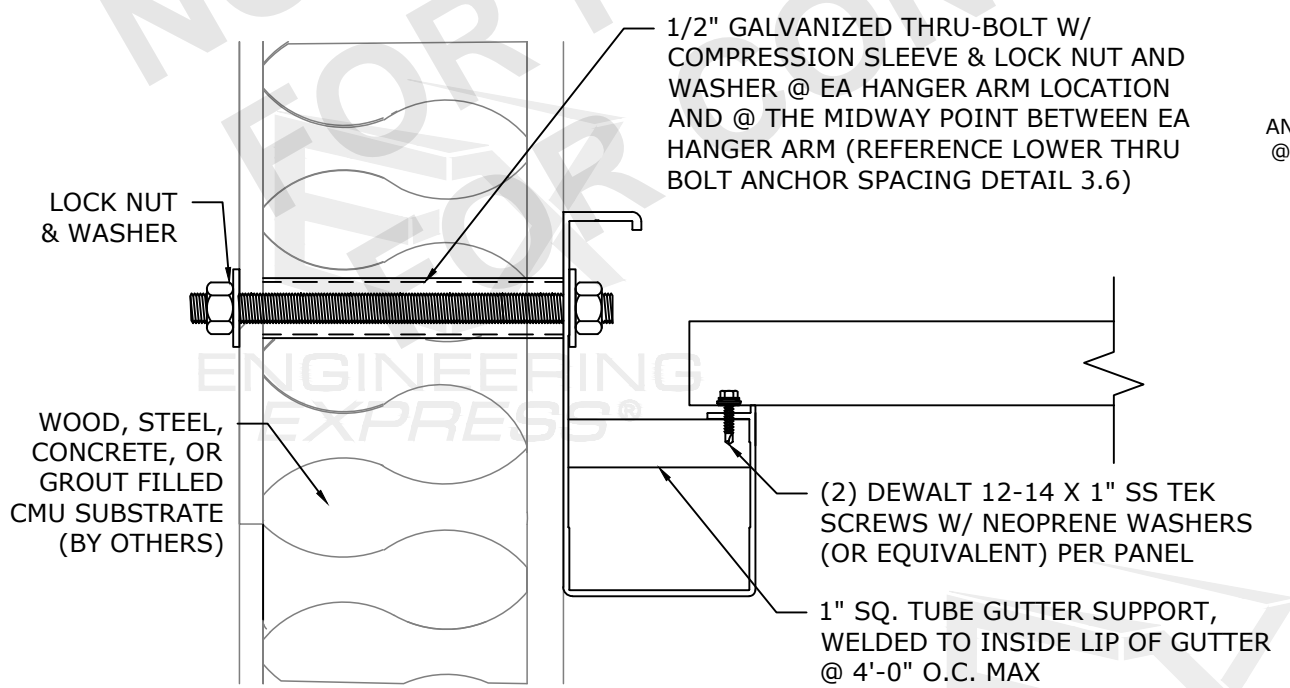
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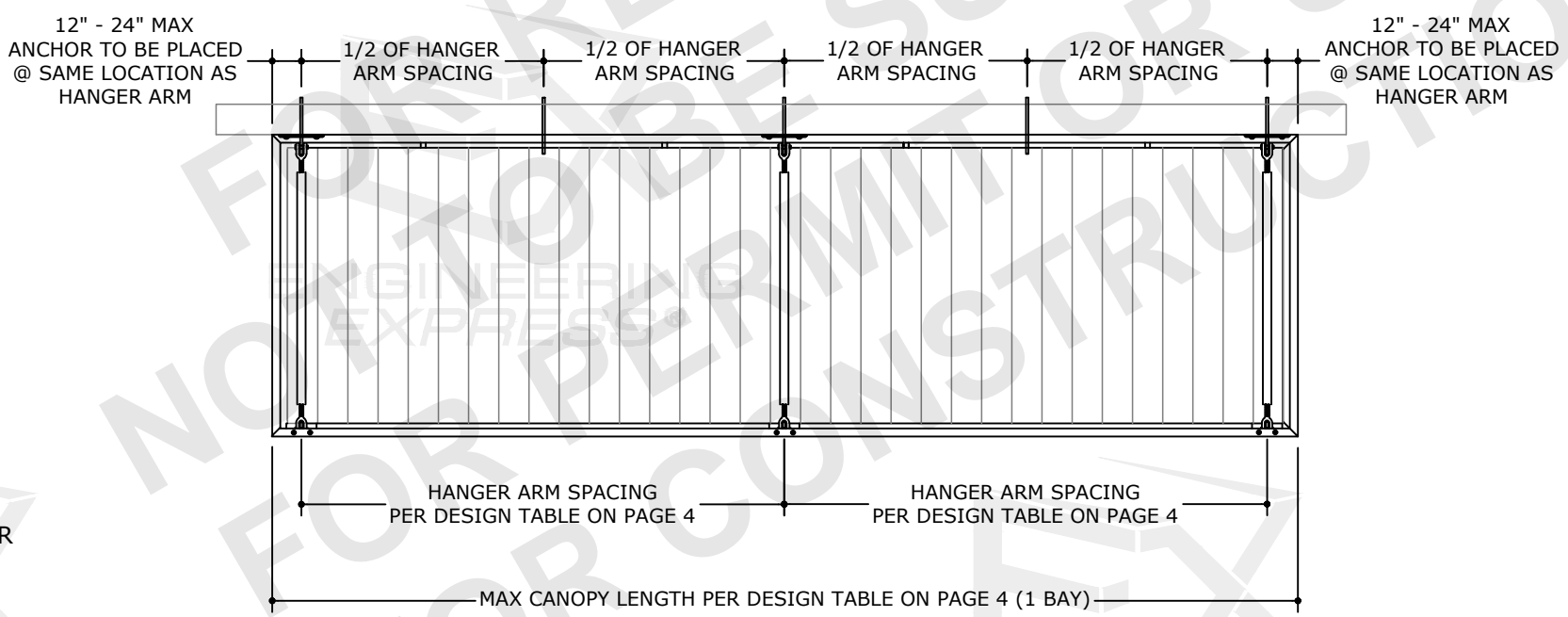
**1** UPPER CONNECTION DETAIL  
 6 NOT TO SCALE  
 DETAIL



**3** SINGLE-BAY SYSTEM  
 LOWER THRU-BOLT ANCHOR LAYOUT  
 6 NOT TO SCALE  
 DETAIL



**2** LOWER CONNECTION DETAIL  
 6 NOT TO SCALE  
 DETAIL



**4** MULTI-BAY SYSTEM  
 LOWER THRU-BOLT ANCHOR LAYOUT  
 6 NOT TO SCALE  
 DETAIL

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# SUSPENDED CANOPY COMPONENTS

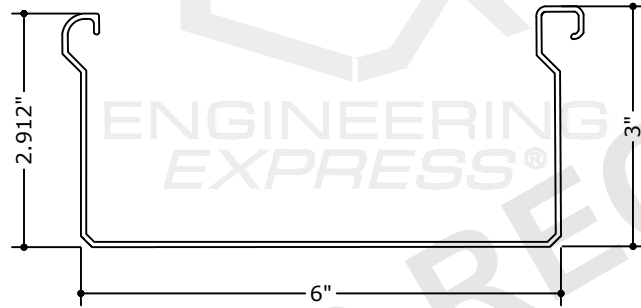
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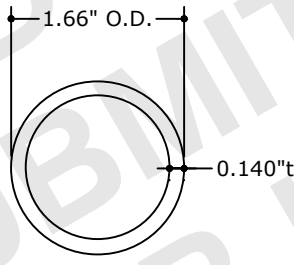
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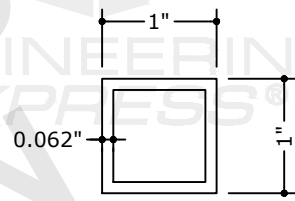
ALTERNATE DECKING  
 REQUIRES SITE SPECIFIC  
 ENGINEERING



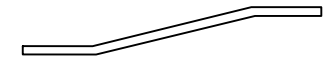
**1** MI METALS 3" X 6" DECKING  
 7 N.T.S. 6063-T6 ALUMINUM



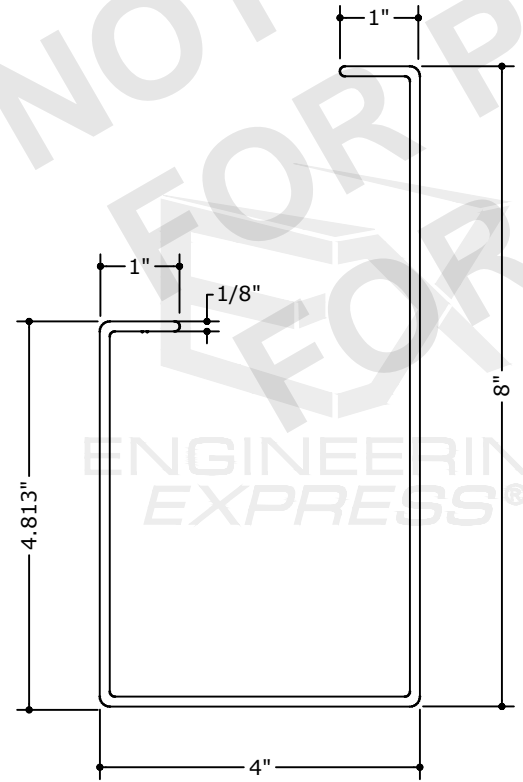
**2** HANGER ROD  
 7 N.T.S. 1.66" O.D. STEEL TUBE  
 A36 GRADE STEEL



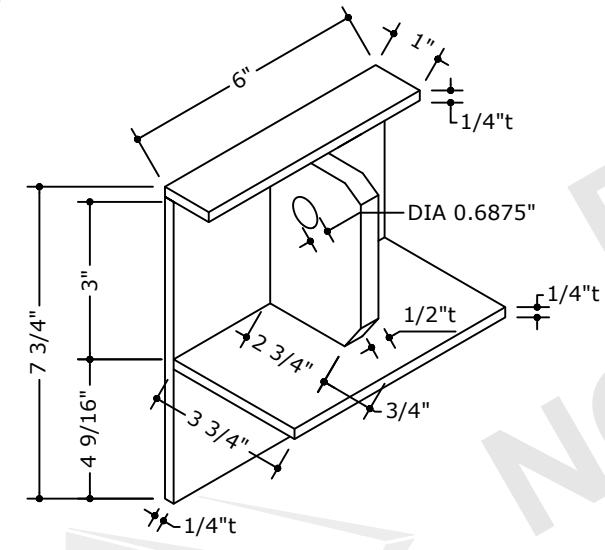
**3** 1" SQ SUPPORT TUBE  
 7 N.T.S. 6063-T6 ALUMINUM



**4** 1" X 3/16"t GUTTER STRAP  
 7 N.T.S. 6061-T6511 ALUMINUM



**5** 4" X 8" X 0.125"t GUTTER BEAM  
 7 N.T.S. 6063-T5 ALUMINUM

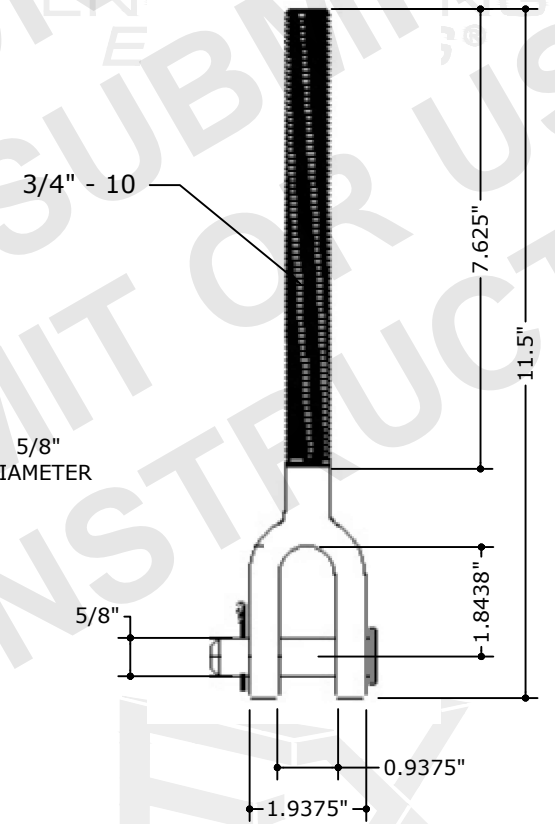


**6** WELDED CLEVIS PIN ASSEMBLY  
 7 N.T.S. DETAIL

PART # 3001T512 (RH) 712 (LH)  
 INCLUDES JAW END WITH 5/8"  
 CLEVIS PIN AND COTTER



**7** 5/8" CLEVIS PIN W/ COTTER PIN  
 7 NOT TO SCALE THROUGH 3/4" GALVANIZED JAW END  
 GALVANIZED STEEL



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