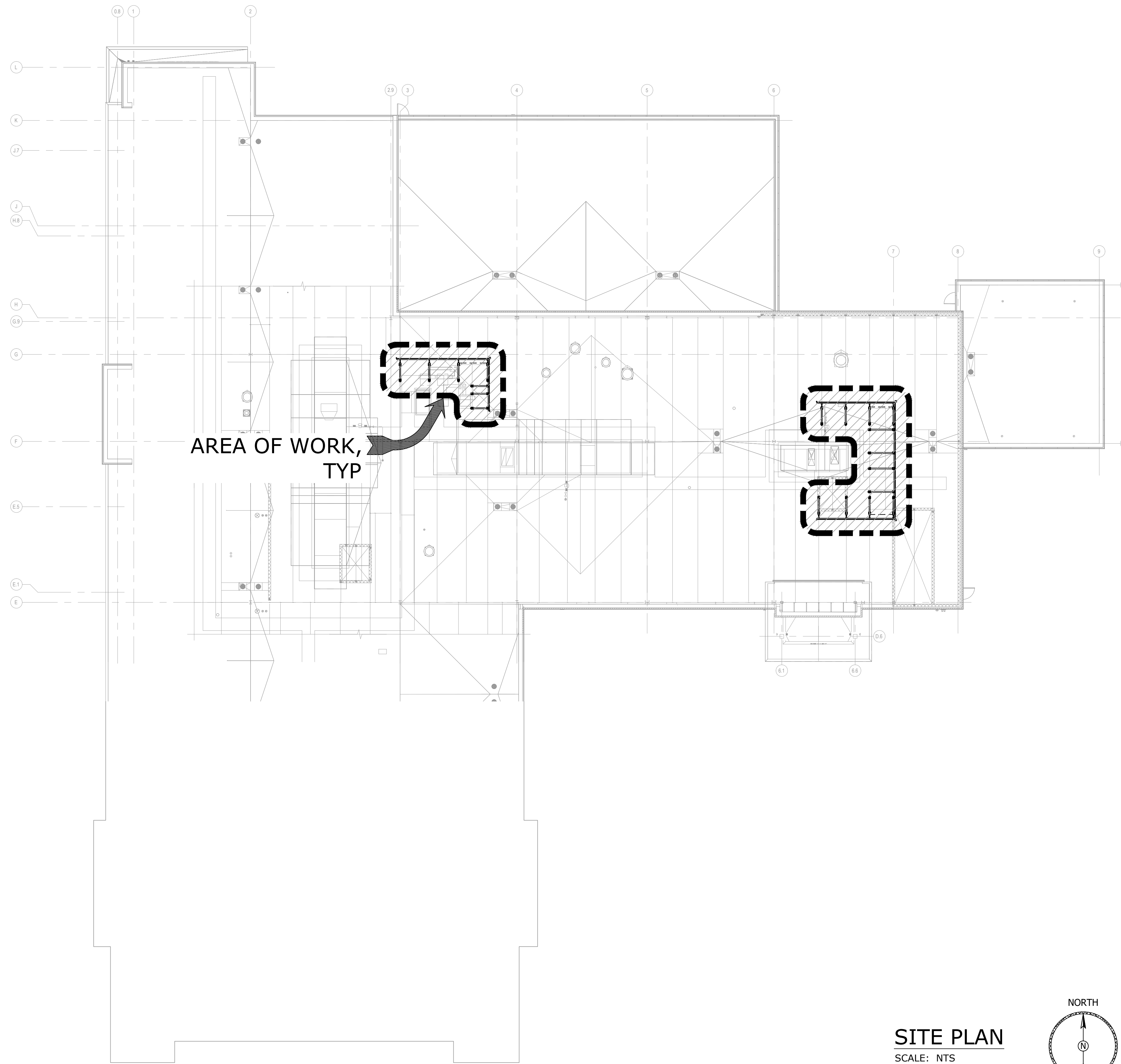


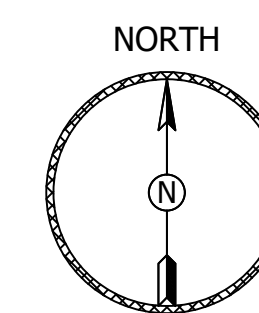
ROOFSCREEN CONSTRUCTION DOCUMENTS:

HYBRID FRAME SAMPLE DRAWINGS

CONSTRUCTION DOCUMENT DATED: 11/16/23
 LOCATION: 347 CORAL ST
 SANTA CRUZ, CA 95060



SITE PLAN
SCALE: NTS



CODE ANALYSIS

ALL WORK SHALL COMPLY WITH THE 2015 INTERNATIONAL BUILDING CODE (IBC)

RISK CATEGORY.....(ASCE 7, TABLE 1.5-1)	IV
WIND DESIGN CRITERIA.....(ASCE 7, SEC. 26.5)	120 MPH
WIND EXPOSURE.....(ASCE 7, SEC. 26.7.3)	C
WIND PRESSURE.....(ASCE 7, SEC. 29.4-1)	37.24 PSF (ASD)
SEISMIC DESIGN CRITERIA	
IMPORTANCE FACTOR.....(ASCE 7, TABLE 1.5-2)	1.50
SITE CLASS.....(ASCE 7, SEC 11.4.3)	D
S _s(ASCE 7, FIG 22-1)	0.153
S ₁(ASCE 7, FIG 22-2)	0.085
S _{0.5}(ASCE 7, EQ. 11.4-3)	0.163
SD1.....(ASCE 7, EQ. 11.4-4)	0.104
SEISMIC DESIGN CATEGORY.....(ASCE 7, TABLE 11.6-1, 11.6-2)	C
SEISMIC DESIGN FORCE (F _p).....(ASCE 7, SEC. 13.3.1)	0.082W (ASD)
COMPONENT AMPLIFICATION FACTOR, a _p(ASCE 7, TABLE 13.5-1)	1.00
RESPONSE MODIFICATION FACTOR, R.....(ASCE 7, TABLE 13.5-1)	2.50

MATERIAL SPECIFICATIONS

STRUCTURAL STEEL & MISCELLANEOUS IRON:

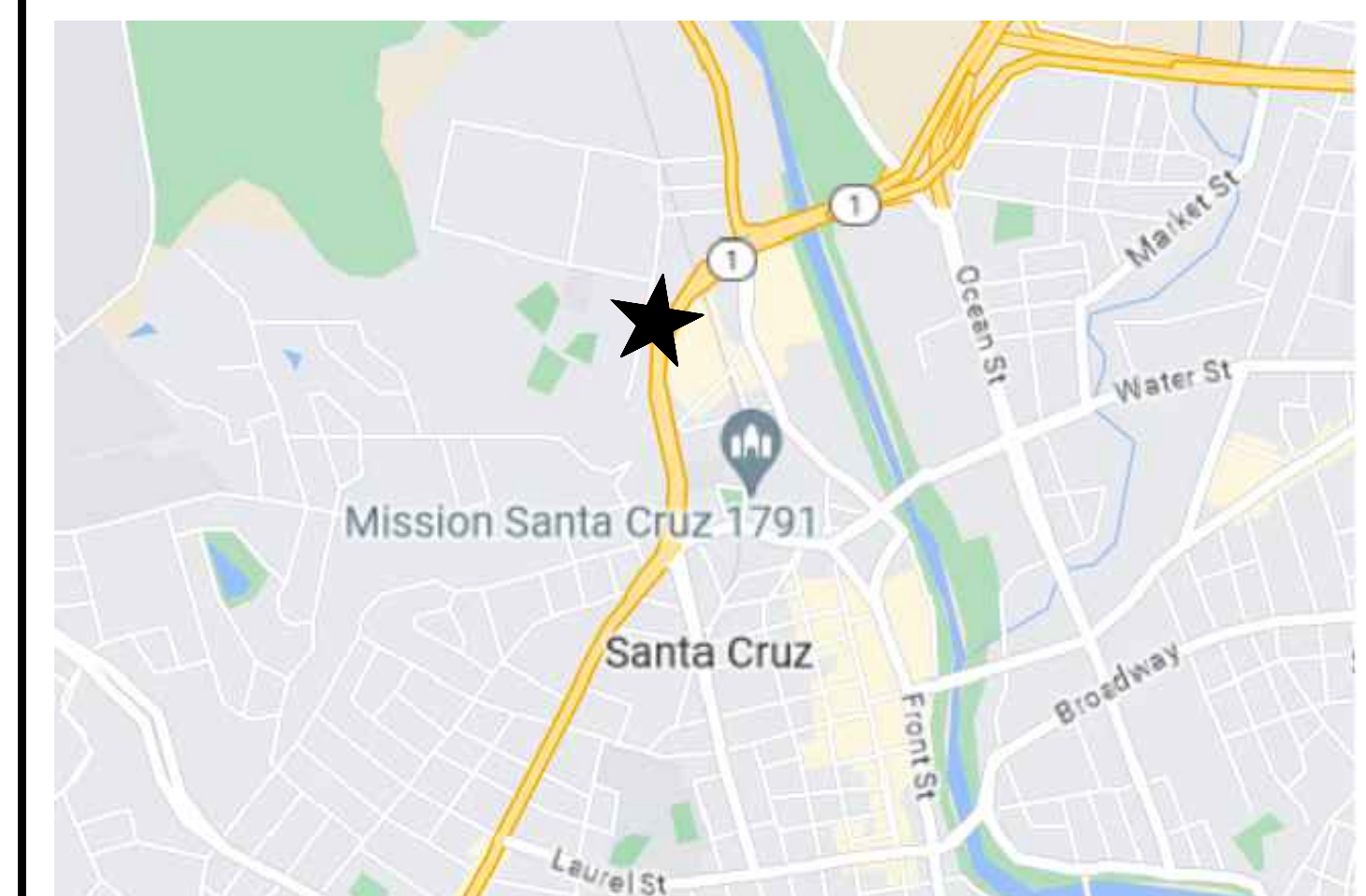
ROUND TUBING:	GALVANIZED 16 GA ASTM A500 GRADE B, MIN F _y = 40 KSI
PROPRIETARY PARTS	GALVANIZED 11 GA ASTM A500 GRADE C, MIN F _y = 50 KSI
	POLYESTER POLYURETHANE POWDER COATED
	ASTM A1008-CS TYPE A, F _y = 34 KSI
	BASE SUPPORT BASE PLATE, ASTM A36, F _y = 36 KSI
	STAINLESS STEEL AISI TYPE 304, F _y = 31.2 KSI
EXTRUDED ALUMINUM:	6063 T6, F _u = 30 KSI
STAINLESS STEEL BOLTS	ASTM F593C/G (AISI 18-8)
STAINLESS STEEL NUTS AND WASHERS	AISI 18-8
WELDING ELECTRODES	E70XX
SELF DRILLING SELF TAPPING SCREWS	ITW BUILDEX W/ CLIMASEAL (ESR 1976) OR APPROVED EQUAL

SCOPE OF WORK

NEW ROOFSCREEN

NOTE: EVALUATION OF EXISTING ROOF SHEATHING, ROOF FRAMING, AND BUILDING FOR NEW MECHANICAL EQUIPMENT AND SCREEN LOADS (INCLUDING SNOW DRIFT LOADING EFFECTS) SHALL BE PROVIDED BY OTHERS. LOAD REACTIONS AT BASE SUPPORTS ARE LISTED ON FRAME SPECIFICATIONS.

AREA MAP



VICINITY MAP

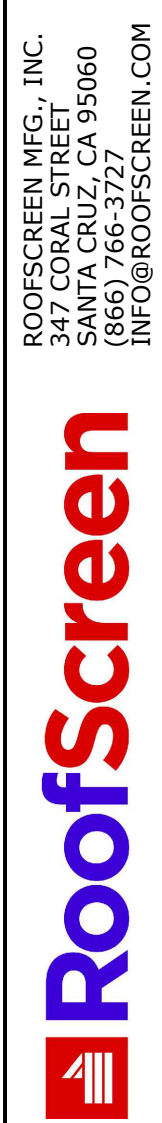


SHEET INDEX

SHEET	CONTENTS
RS-0	CODE ANALYSIS, SITE PLAN, SHEET INDEX, AREA MAP, VICINITY MAP, SCOPE OF WORK
RS-1	ROOFSCREEN FRAMING PLAN
RS-2	ROOFSCREEN FRAME DETAILS & SPECIFICATIONS
RS-3	ROOFSCREEN PART/ASSEMBLY DETAILS

REVISION	DATE
1	11/16/23

HYBRID FRAME SAMPLE DRAWINGS
 347 CORAL ST, SANTA CRUZ, CA 95060



ROOFSCREEN COVER SHEET

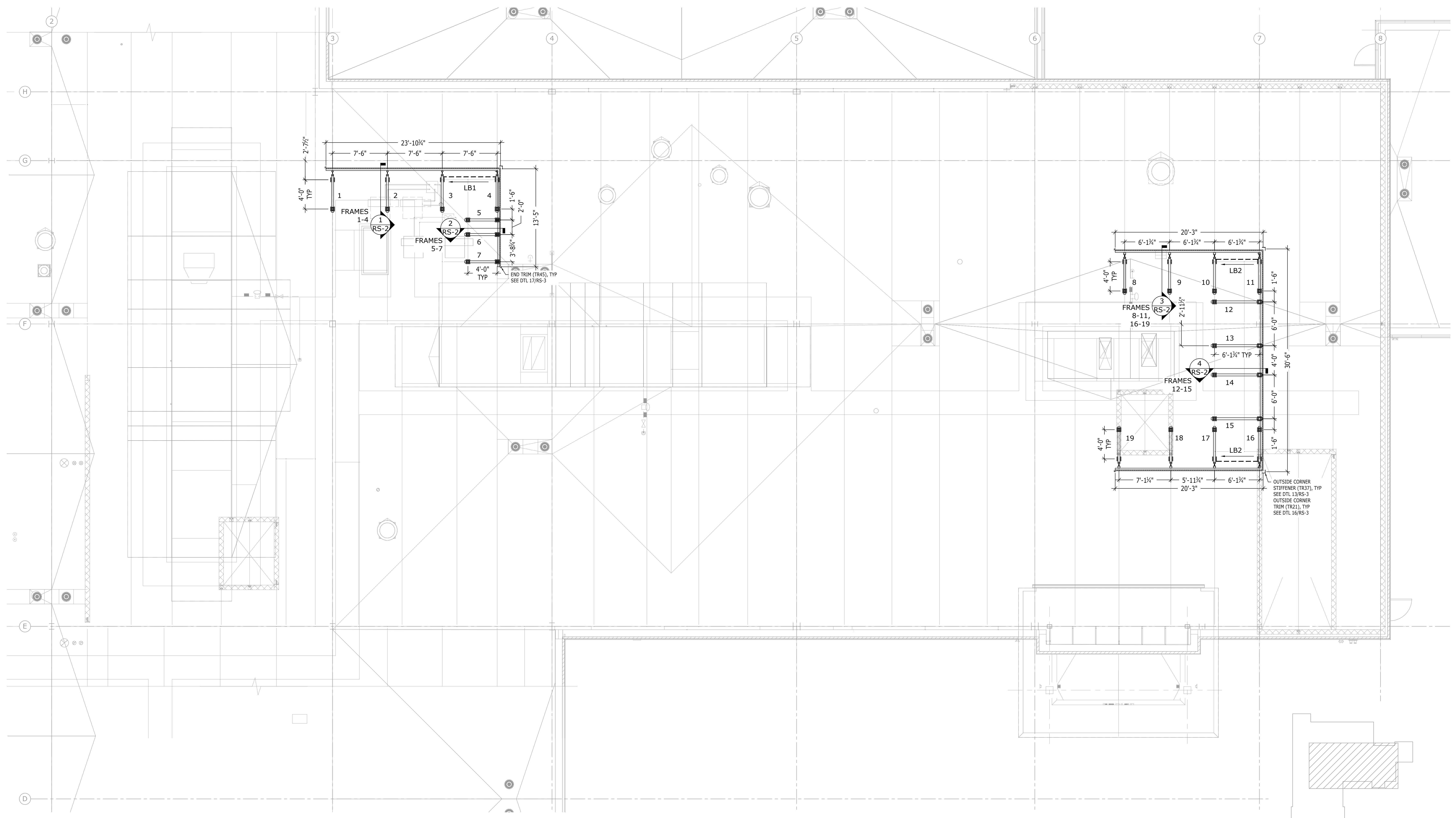
DRAWN BY:	SS
CHECKED BY:	KS
JOB NUMBER:	P5555

SHEET
RS-0

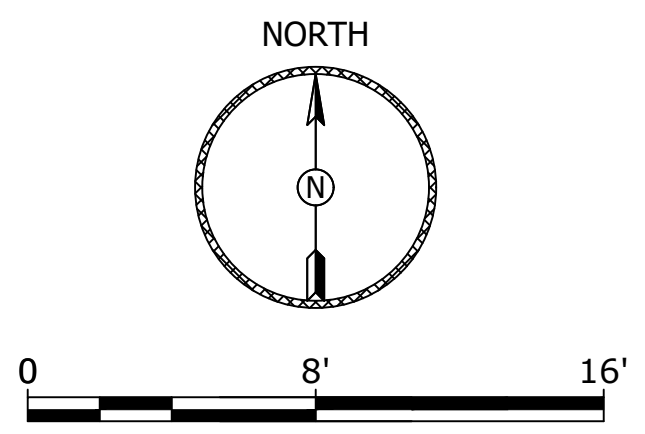
APPROVAL / REVIEW AUTHORITY:
 PLEASE REVIEW THIS DRAWING CAREFULLY. IT REPRESENTS OUR INTERPRETATION OF THE CONTRACT DOCUMENTS HOWEVER, ROOFSCREEN MFG. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SHOWN ON THE DESIGN DRAWINGS. THIS IS THE RESPONSIBILITY OF THE BUYER.

UNLESS NOTED OTHERWISE ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL, IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN HEREIN HAS THE AFFIRMATION OF THE APPROVAL AUTHORITY. SUBSEQUENT CHANGES TO INFORMATION SHOWN ON THESE DRAWINGS AFTER FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES.

REVISION	DATE	DESCRIPTION
1	11/16/23	CONSTRUCTION DOCUMENTS



ROOFSCREEN PLAN
 SCALE: 3/16" = 1'



KEY PLAN
 SCALE: NTS

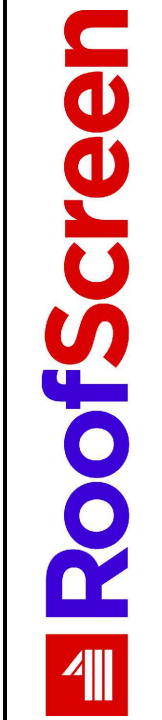
NOTES:
 1. THE ACCURACY OF THE DATA USED TO CREATE THIS LAYOUT HAS NOT BEEN FIELD VERIFIED. THE AS-BUILT LOCATIONS OF ROOF FRAMING MEMBERS AND MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH WORK.

2. NOTIFY THE ENGINEER IF FIELD VERIFIED DIMENSIONS VARY MORE THAN ±3".

- LEGEND
- # ROOFSCREEN FRAME W/ FRAME #
 - LB# LATERAL BRACE W/ BRACE # (DTL 10/RS-3 @ LB1, DTL 11/RS-3 @ LB2)
 - OFFSET ON PLAN FOR CLARITY ONLY
 - ARROW INDICATES DOWN SLOPE PANELS
 - HAT CHANNEL (H13) AND SPLICE (H14) AS REQUIRED (DTL 12/RS-3)

HYBRID FRAME SAMPLE DRAWINGS

347 CORAL ST. SANTA CRUZ, CA 95060
 ROOFSCREEN MFG., INC.
 SANTA CRUZ, CA 95060
 (831) 436-3333
 WWW.ROOFSCREEN.COM



ROOFSCREEN PLAN

DRAWN BY:	SS
CHECKED BY:	KS
JOB NUMBER:	P5555
SHEET	

RS-1

ROOFSCREEN INSTALLATION NOTES:

- ALL WORK SHALL BE PERFORMED EXCLUSIVELY BY TRAINED COMPETENT PERSONNEL AND SHALL COMPLY WITH ALL APPLICABLE SAFETY LAWS, REGULATIONS, PROGRAMS AND PRACTICES TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE.
- TOP OF SCREEN ELEVATION SHALL BE UNIFORM ALONG FULL LENGTH OF WALL AND SHALL NOT EXCEED MAX ELEVATION SHOWN.
- FRAME DIMENSIONS SHOWN ARE FOR THE TALLEST FRAME WHERE THE ROOF IS AT ITS LOWEST ELEVATION. FRAME TUBES WILL BE PRE-CUT AND DELIVERED TO THESE DIMENSIONS. FRAMES INSTALLED WHERE ROOF IS AT HIGHER ELEVATIONS MAY REQUIRE FIELD TRIMMING OF THE VERTICAL AND DIAGONAL TUBE LENGTHS TO KEEP TOP OF SCREEN ELEVATION LEVEL.
- LASER MEASURING IS RECOMMENDED PRIOR TO FIELD CUTTING.
- ENSURE BASE SUPPORTS ARE CENTERED ON EXISTING FRAMING.
- WHEN USING SELF-DRILLING TEK SCREWS TO FASTEN BASE SUPPORTS THROUGH METAL DECKING TO STEEL STRUCTURAL MEMBERS BELOW, IT IS NECESSARY TO DRILL A CLEARANCE HOLE, LARGER THAN THE DIAMETER OF THE TEK SCREW, IN THE HIGH FLUTE OF THE METAL DECKING TO ALLOW THE SCREW TO SPIN AT THE PROPER SPEED TO DRILL INTO THE STEEL BELOW. IT IS NOT NECESSARY OR RECOMMENDED TO DRILL A PILOT HOLE IN THE STEEL MEMBER.
- TO REDUCE THE POSSIBILITY OF CONDENSATION, FILL BASE SUPPORTS WITH UNFACED BATT INSULATION (SUPPLIED BY OTHERS) DURING INSTALLATION.
- STAINLESS STEEL BOLT WITH SEALING WASHER, P/N B11 CONNECTING THE C10.1 BASE CAP TO THE BASE SUPPORT SHALL NOT BE RE-USED IF REMOVED AFTER TIGHTENING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATER-TIGHTNESS OF THE EXISTING ROOF DECK. FLASHING AND ROOFING OF BASE SUPPORTS SHALL BE PER ROOFING SYSTEM MANUFACTURER'S REQUIREMENTS. VERIFICATION OF COMPLIANCE WITH ROOF WARRANTY AND PRE-APPROVAL FROM ROOFING SYSTEM MANUFACTURER, IF REQUIRED, SHALL BE PERFORMED BY OTHERS.
- ROOF FLASHING BOOTS SHALL TERMINATE FLUSH WITH TOP OF BASE SUPPORTS WHEN POSSIBLE BUT NOT MORE THAN 1/2" BELOW.
- APPROPRIATE CARE SHALL BE TAKEN TO ELIMINATE THE POSSIBILITY OF DAMAGE TO EXISTING DECK AND ROOFING SYSTEM. CONSTRUCTION MATERIALS SHALL NOT BE STORED ON THE ROOF DECK UNLESS APPROPRIATE MEASURES ARE TAKEN TO PROTECT THE ROOF FROM DAMAGE.
- MANY OF THE FRAME CONNECTOR FITTINGS HAVE EXTRA SCREW HOLES. SEE ROOFSCREEN SPECIFICATIONS ON THIS SHEET FOR THE CORRECT NUMBER OF SCREWS PER FITTING.
- AFTER ROOFSCREEN PANELS ARE INSTALLED, ATTACH TRIM TO PANELS WITH COLOR-MATCHED SELF-DRILLING SCREWS AT 12" O.C. ALONG EACH LEG OF TRIM AT CORNERS AND ALONG SINGLE LEG AT ENDS, AND AT 3'-0" O.C. ALONG CAP TRIM PER DTL 15/RS-3.
- APPLY ANTI-SEIZING LUBRICANT TO ALL STAINLESS BOLTS DURING INSTALLATION TO PREVENT GALLING.
- AFTER INSTALLATION IS COMPLETE, DUST OFF AND REMOVE ALL METAL SHAVINGS FROM BASE CAPS AND FINISHED ROOF SURFACE TO PREVENT SURFACE RUST AND STAINING.
- TEK SCREWS ARE FULLY SEATED WHEN THE HEAD IS FLUSH WITH THE WORK SURFACE. OVERDRIVING MAY RESULT IN TORSIONAL FAILURE OF TEK SCREWS OR STRIP OUT OF THE SUBSTRATE. SCREW GUN SHOULD BE A MINIMUM OF 6 AMPS AND HAVE AN RPM RANGE OF 0-2500.

ROOFSCREEN SPECIFICATIONS:

- (P)** PANEL: 3" DEEP RIB, 24 GA., THREE HORIZONTAL ROWS, FASTEN TO VERTICAL TUBE SECTION W/ COLOR-MATCHING #12-14 X 1" LONG T/3 "TEK" SCREW W/ NEOPRENE WASHER - ROOFSCREEN P/N "S16", (1) TOTAL PER DOWN FLUTE, PER DTL 14/RS-3, AND PER MANUFACTURER'S SPECS. DEFLECTION LIMIT = L/180
- HAT CHANNEL:** ASTM A653, FY = 55 ksi
- (H13)** HAT CHANNEL: 3" DEEP, 16ga, CUSTOM PROFILE, ORIENT HORIZONTAL, FASTEN TO TUBE FRAMES W/ #12-14 X 1" LONG T/3 "TEK" SCREW - ROOFSCREEN P/N "S10", (1) EA LEG. SPLICE IN FIELD WITH "H14" PER DTL 12/RS-3. SPLICE AT CORNERS WITH "TR37", PER DTL 13/RS-3 AT OUTSIDE CORNERS.
- TUBE STEEL:** ASTM A500.
- (T16)** HSS 2.500 OD X 0.065 (16ga), Fy= 40ksi
- (T11)** HSS 2.500 OD X 0.120 (11ga), Fy= 50ksi
- (HSS)** HSS3 1/2 X 3 1/2 X 1/8", Fy= 40ksi.
- PROPRIETARY CONNECTORS:**
- (C15)** END CONNECTOR: CONN TO TUBE W/ #12-14 X 1" LONG T/3 "TEK" SCREWS - ROOFSCREEN P/N "S10", (2) EA SIDE TYP. (4) TOTAL
CONN TO T-BRACKET OR FIELD CONN W/ Ø 5/8" X 1 1/4" LONG ANSI 18-8 STAINLESS STEEL BOLT - ROOFSCREEN P/N "B13", LOCKWASHER - P/N "W10" AND NUT - P/N "N10".
- (C12)** FIELD CONNECTOR: CONN TO TUBE W/ #12-14 X 1" LONG T/3 "TEK" SCREWS - ROOFSCREEN P/N "S10", (2) EA SIDE TYP. (4) TOTAL
- (C34.2)** T-BRACKET: CONN TO "HSS" W/ #14-20 X 1 1/2" LONG T/5 SDS "TEK" SCREWS - ROOFSCREEN P/N "S18", (6) TOTAL PER T-BRACKET DTL 8/RS-3.
- (C34.3)** T-BRACKET DOUBLE FIN: CONN TO "HSS" W/ #14-20 X 1 1/2" LONG T/5 SDS "TEK" SCREWS - ROOFSCREEN P/N "S18", (8) TOTAL PER T-BRACKET DOUBLE FIN.
- (C40)** END CONNECTOR HSS: CONN TO HSS W/ #14-20 X 1 1/2" LONG T/5 SDS "TEK" SCREWS - ROOFSCREEN P/N "S18", (8) TOTAL PER DTL 9/RS-3.
CONN TO T-BRACKET DOUBLE FIN "C34.3" W/ Ø 3/4" X 2 1/2" LONG ANSI 18-8 STAINLESS STEEL BOLT, LOCKWASHER AND NUT.
- (C10.1)** BASE CAP: CONN TO BASE SUPPORT W/ Ø 5/8" X 1" LONG A36 GALV BIN BOLT W/ POLY WASHER - ROOFSCREEN P/N "B11". (8) TOTAL
CONN TO "HSS" W/ #14-20 X 1 1/2" LONG T/5 SDS "TEK" SCREWS - ROOFSCREEN P/N "S18" (4) PER SIDE, (8) TOTAL PER C10.1 DTL 3/RS-3
- (BS12)** BASE SUPPORT: 12" HIGH
CONN TO <E> WFB TOP CHORD OR STEEL BLOCKING (DESIGNED AND SUPPLIED BY OTHERS, 1/4" MIN THICK, 4" MIN WIDTH) W/ #14-20 X 4" T/5 SELF-DRILLING "TEK" SCREW - ROOFSCREEN P/N "S13", (4) TOTAL PER BS12 DTL 2/RS-3. ALIGN BASE SUPPORT W/ CENTERLINE OF EXISTING FRAMING.

ROOFSCREEN REACTIONS:

EVALUATION OF THE EXISTING ROOF SHEATHING, ROOF FRAMING AND BUILDING FOR NEW MECHANICAL EQUIPMENT AND SCREEN LOADS (INCLUDING SNOW DRIFT LOADING EFFECTS) SHALL BE PERFORMED BY OTHERS. AS REQUIRED PER EVALUATION, REINFORCEMENT SHALL BE PROVIDED BY OTHERS. ANALYSIS SHALL BE DONE BY A LICENSED PROFESSIONAL ENGINEER. ROOFSCREEN REACTIONS PROVIDED ARE BASED ON THE DESIGN CRITERIA ON SHEET RS-0. THE MAXIMUM ALLOWABLE STRESS DESIGN (0.6 FACTOR APPLIED TO WIND LOAD) REACTIONS AT THE BASE ARE AS FOLLOWS:

WIND:

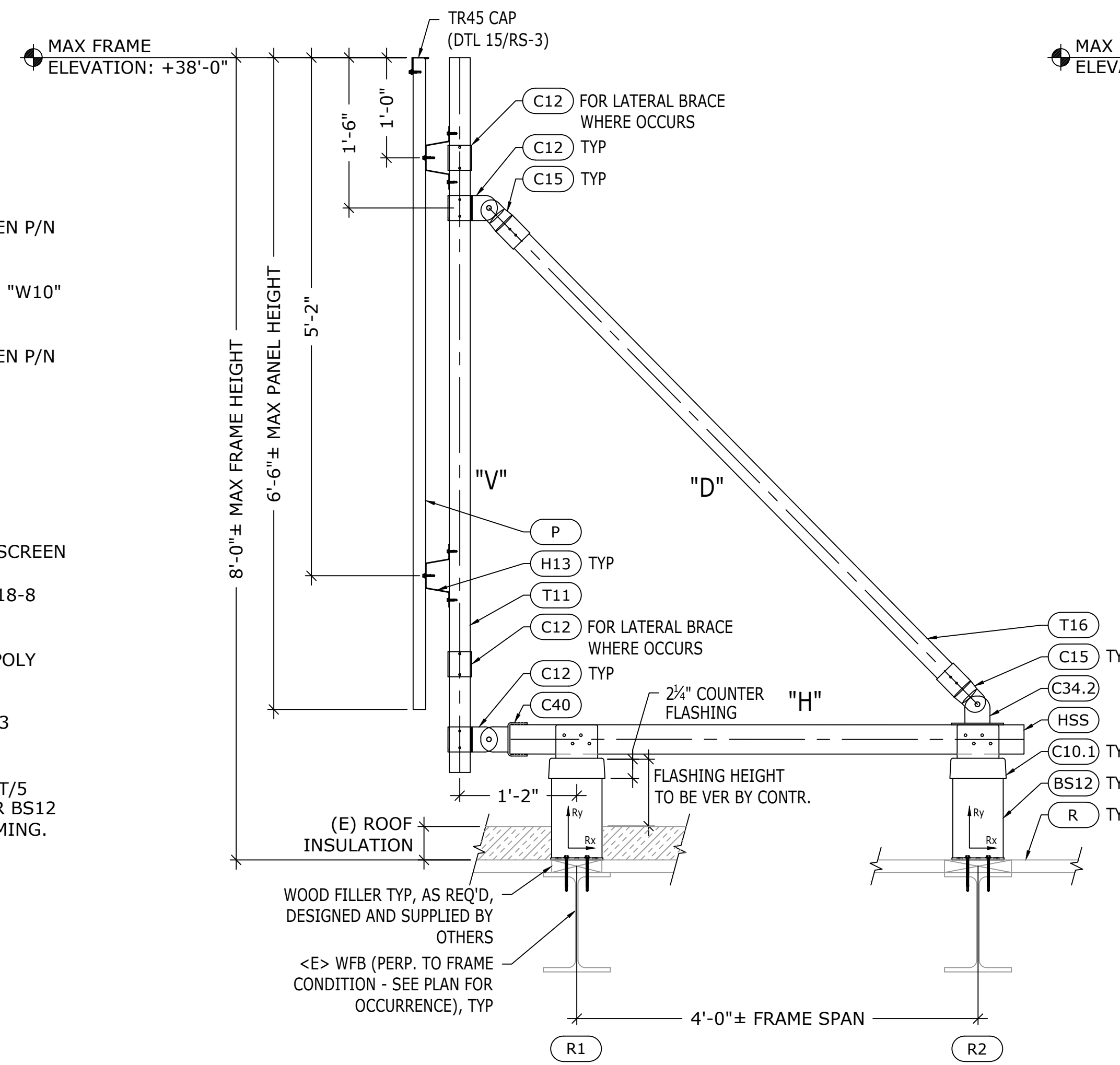
- (R1)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION
- (R2)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION
- (R3)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION
- (R4)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION
- (R5)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION
- (R6)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION
- (R7)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION
- (R8)** Rx=XXXX lbs SHEAR AND Ry=XXXX lbs TENSION/COMPRESSION

DEAD:

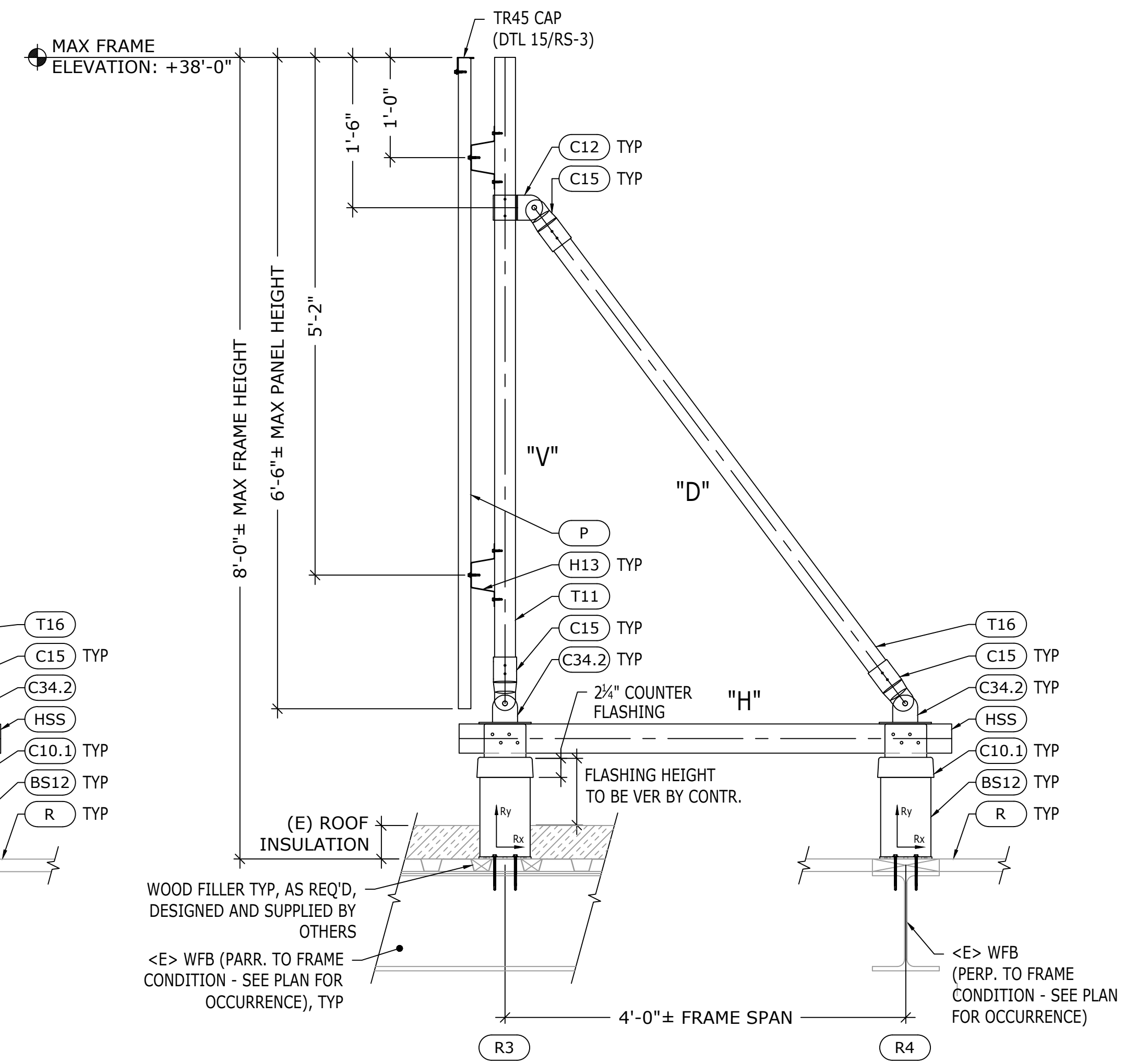
- (R1)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs COMPRESSION
- (R2)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs TENSION
- (R3)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs COMPRESSION
- (R4)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs TENSION
- (R5)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs COMPRESSION
- (R6)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs TENSION
- (R7)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs COMPRESSION
- (R8)** Rx=XXXX lbs SHEAR AND Ry =XXXX lbs TENSION
- (R)** EXISTING ROOF FRAMING: 1 1/2" 22ga METAL "B" DECK OVER WFB PER PLAN.

MAXIMUM HEIGHT REFERS TO MAXIMUM HEIGHT ABOVE AVERAGE LEVEL OF ADJOINING GROUND ADJACENT TO THE BUILDINGS.

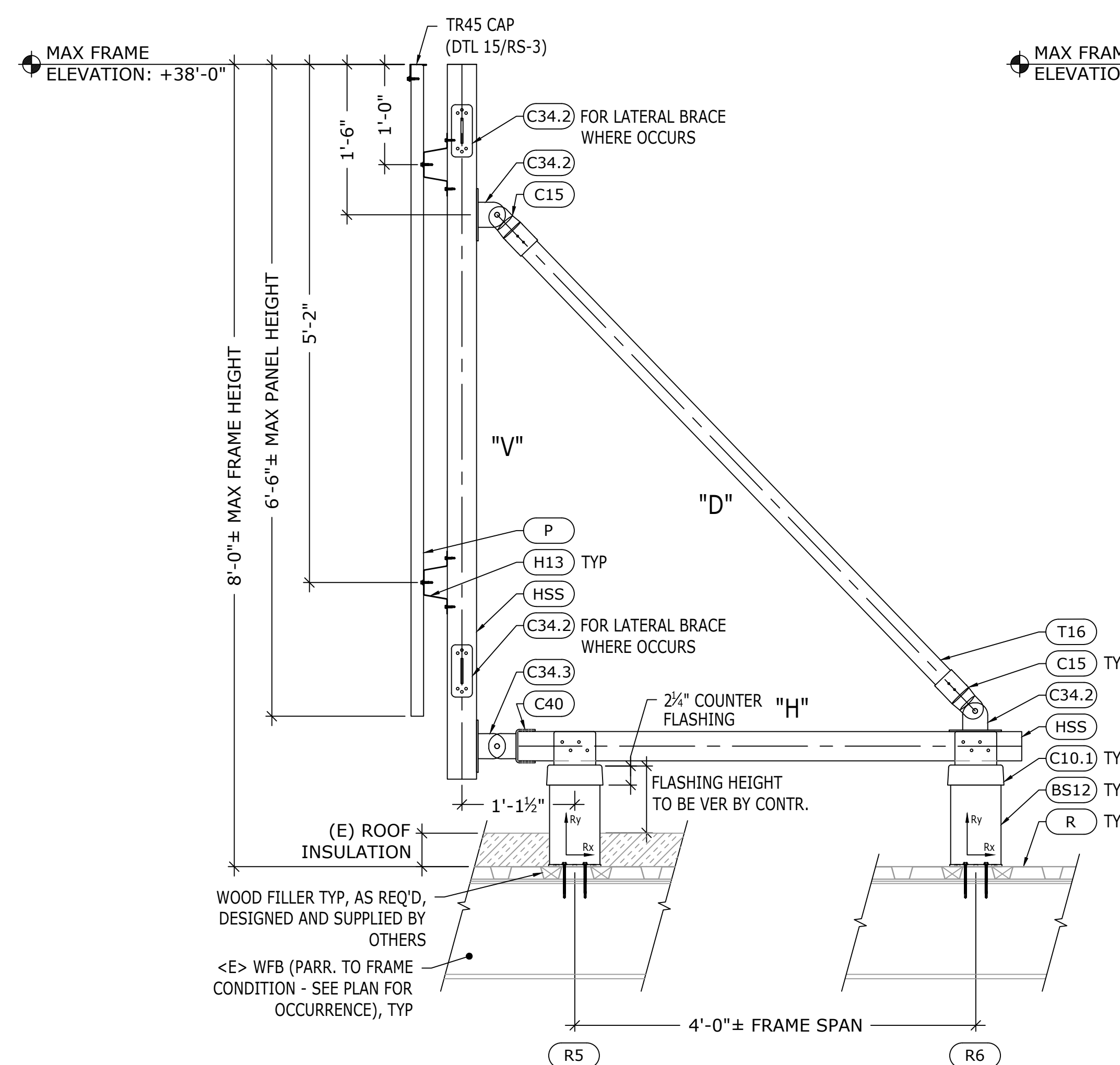
ALL OTHER ARRANGEMENTS REQUIRE ENGINEER'S APPROVAL.



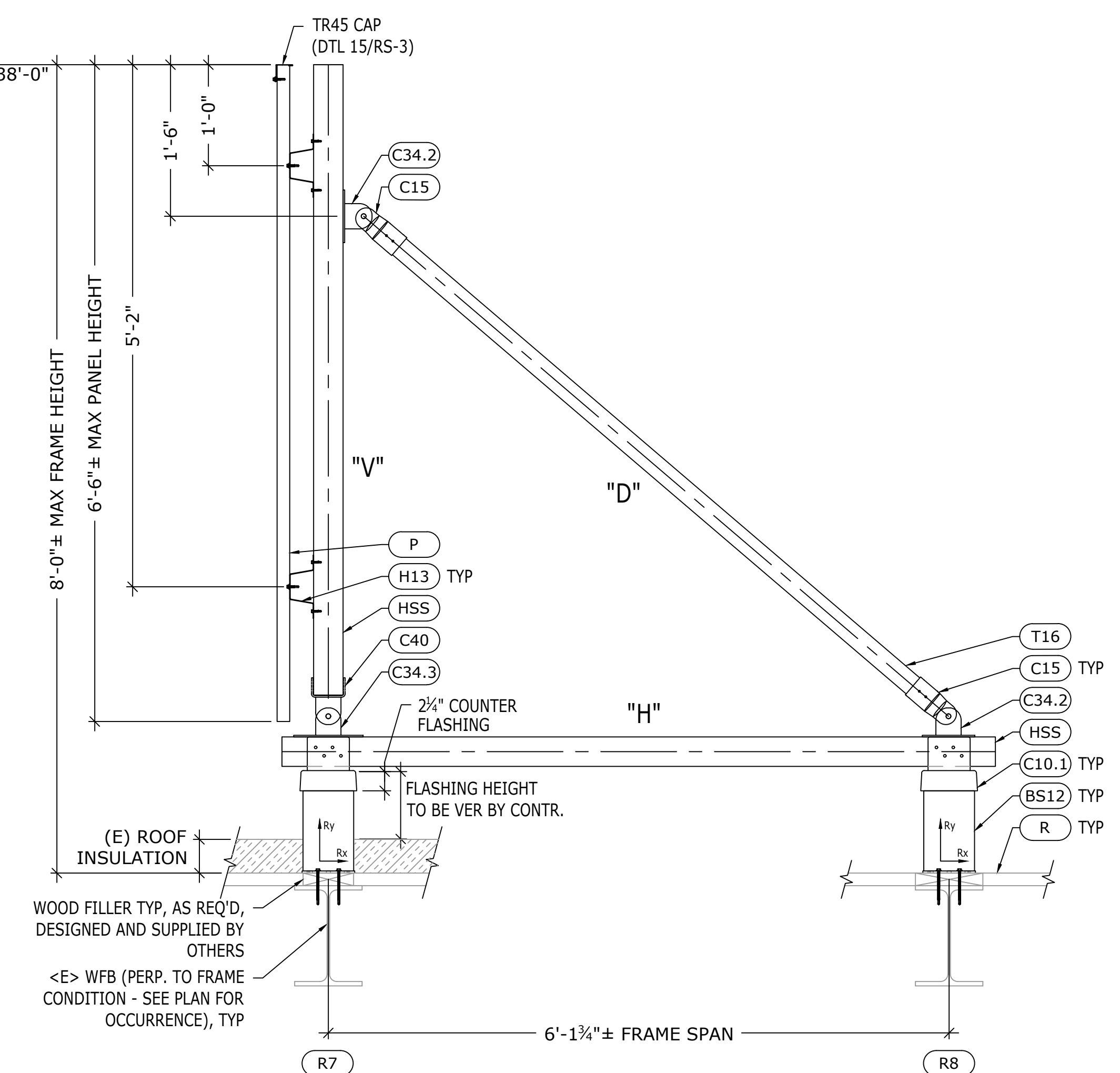
TUBE FRAME AT SPACING PER PLAN 1
SCALE: NTS
FRAMES 1-4



TUBE FRAME AT SPACING PER PLAN 2
SCALE: NTS
FRAMES 5-7



TUBE FRAME AT SPACING PER PLAN 3
SCALE: NTS
FRAMES 8-11, 16-19



TUBE FRAME AT SPACING PER PLAN 4
SCALE: NTS
FRAMES 12-15

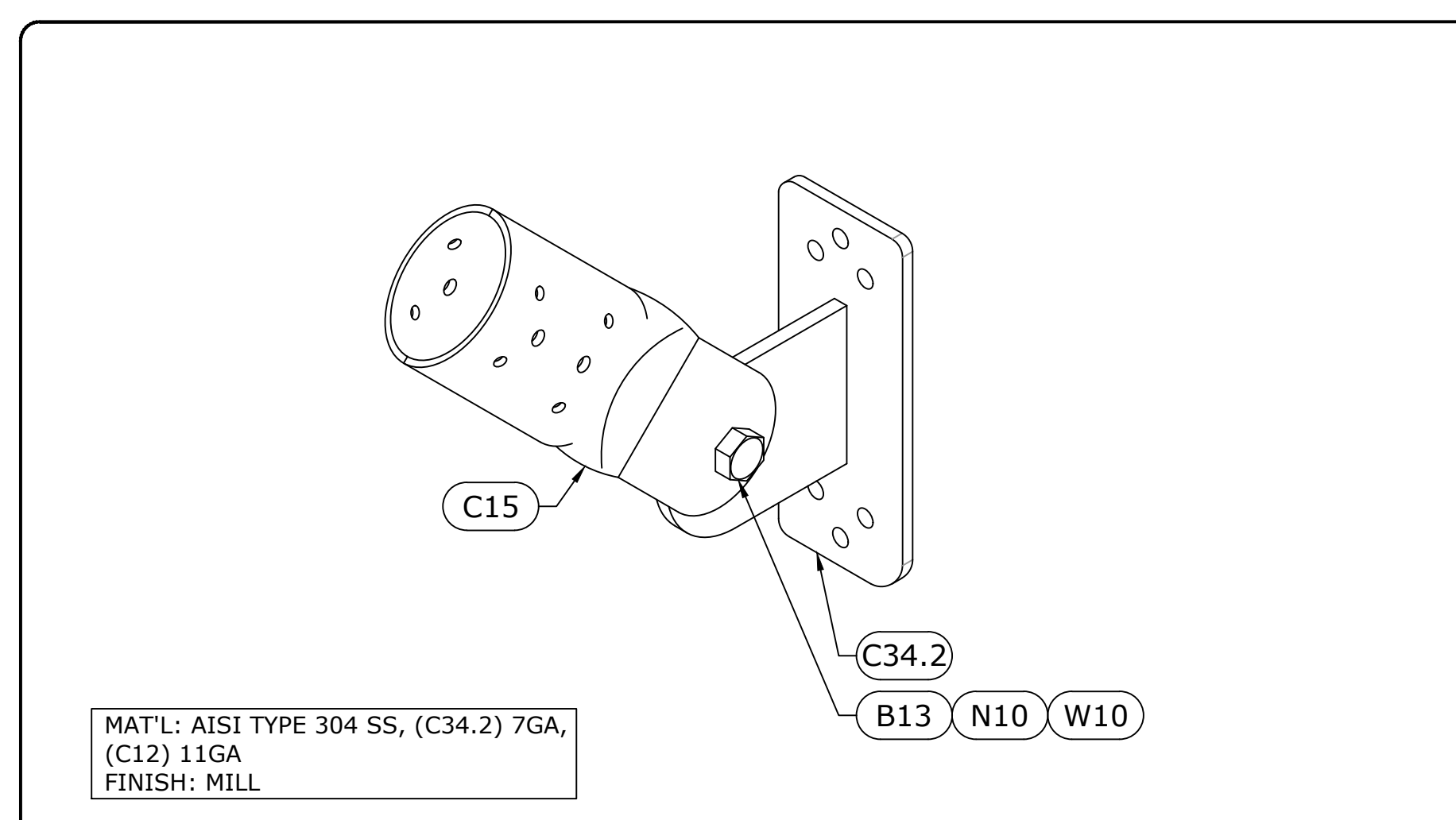
NO.	REVISION	DATE
1	CONSTRUCTION DOCUMENTS	11/16/23

HYBRID FRAME SAMPLE DRAWINGS
347 CORAL ST. SANTA CRUZ, CA 95060
RoofScreen
ROOFSCREEN MFG., INC.
SANTA CRUZ, CA 95060
(855) 800-ROOFSCREEN.COM

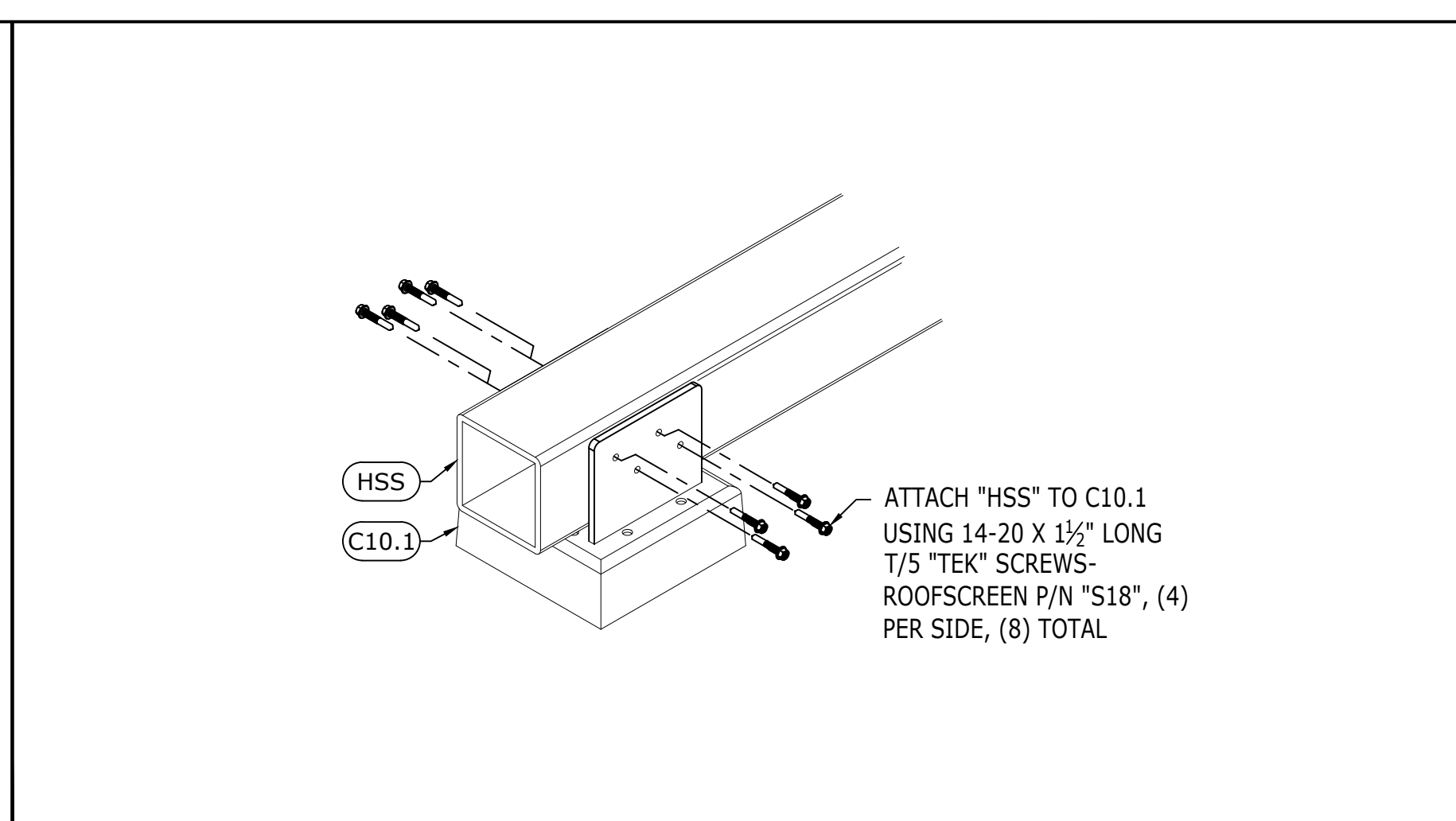
ROOFSCREEN FRAME DETAILS & SPECIFICATIONS

DRAWN BY:	SS
CHECKED BY:	KS
JOB NUMBER:	PS555

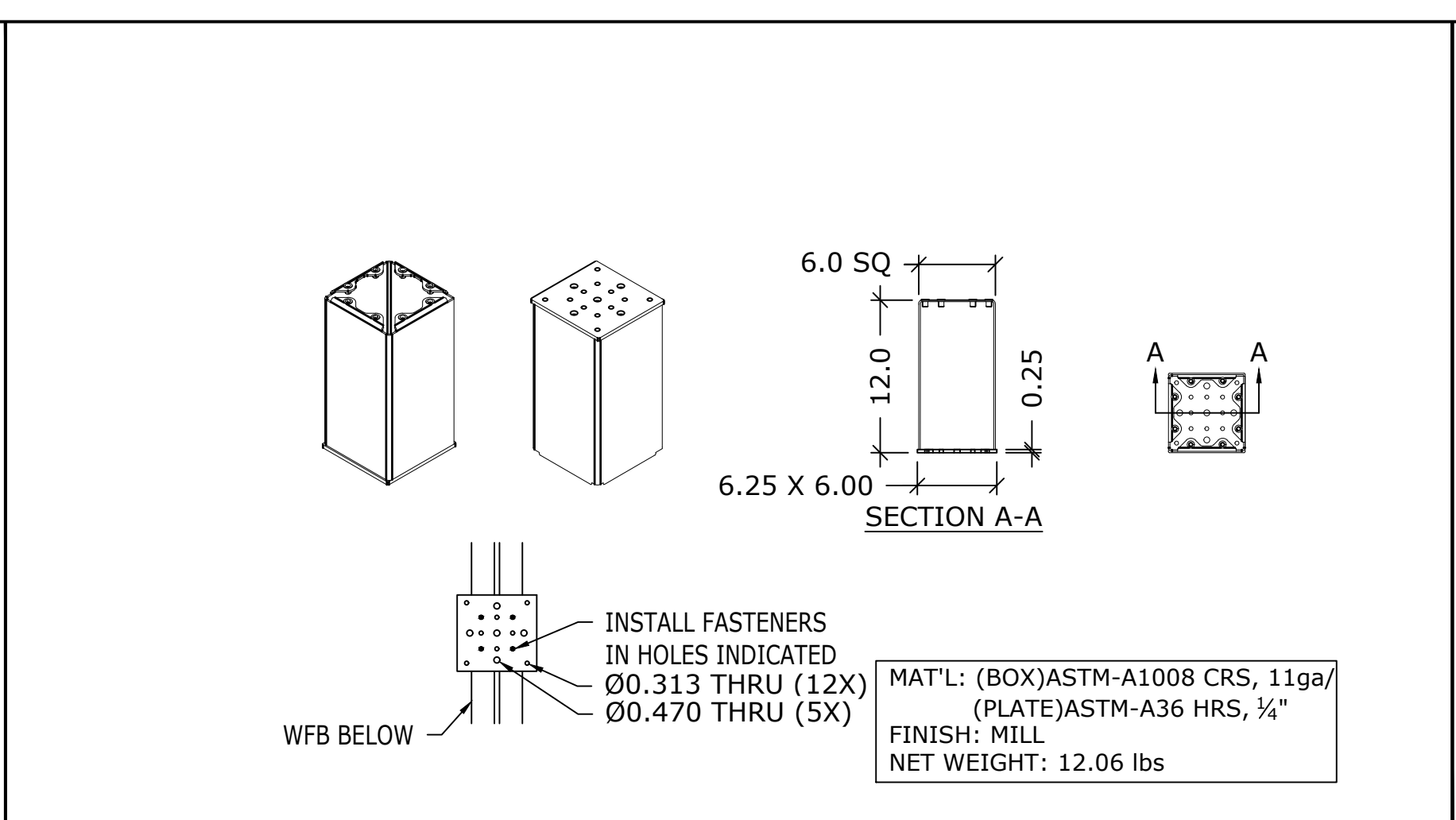
SHEET
RS-2



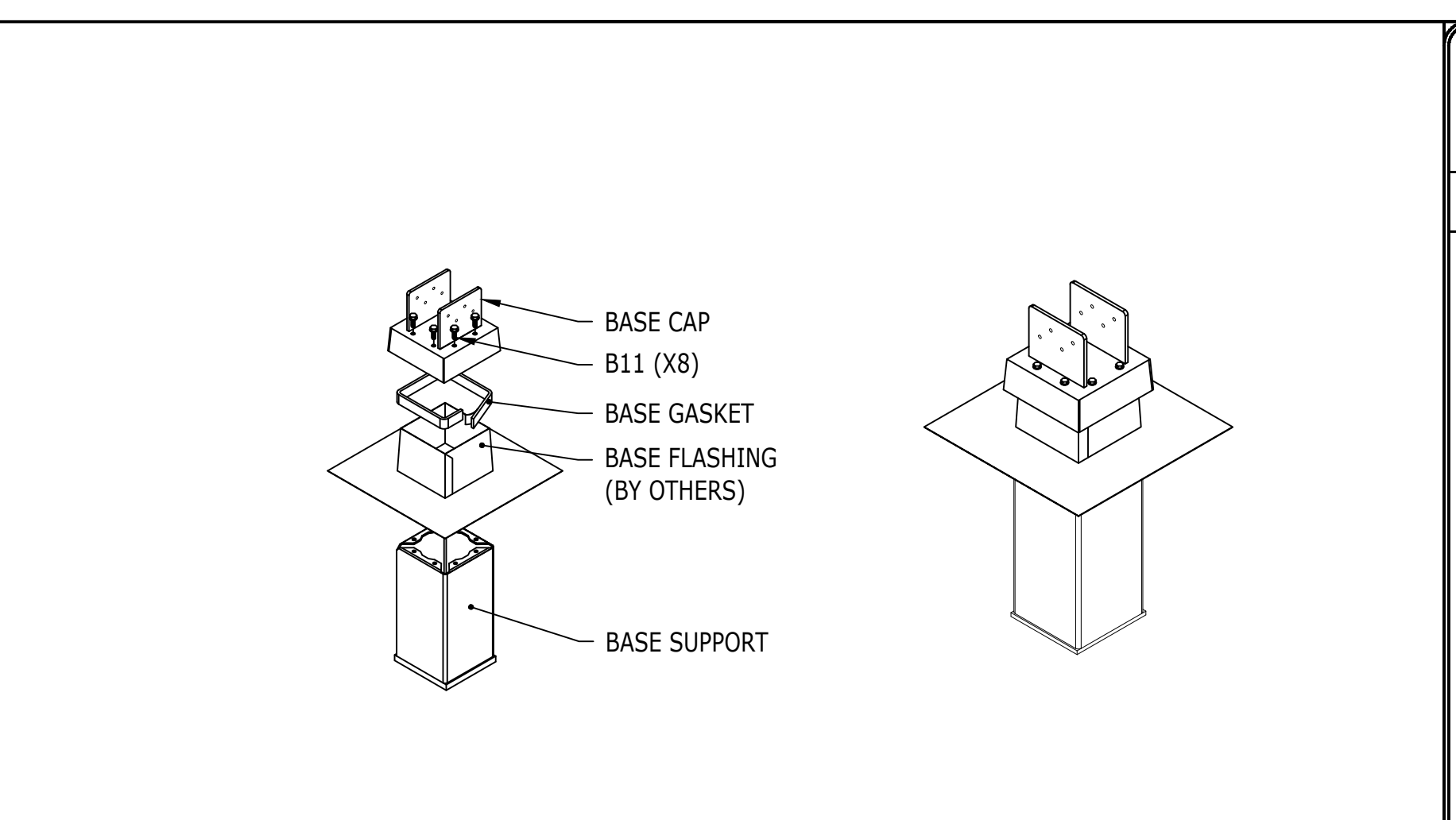
4 A78 T-BRACKET 2 1/2" X 6 1/4", 2 1/2" END SCALE: NTS



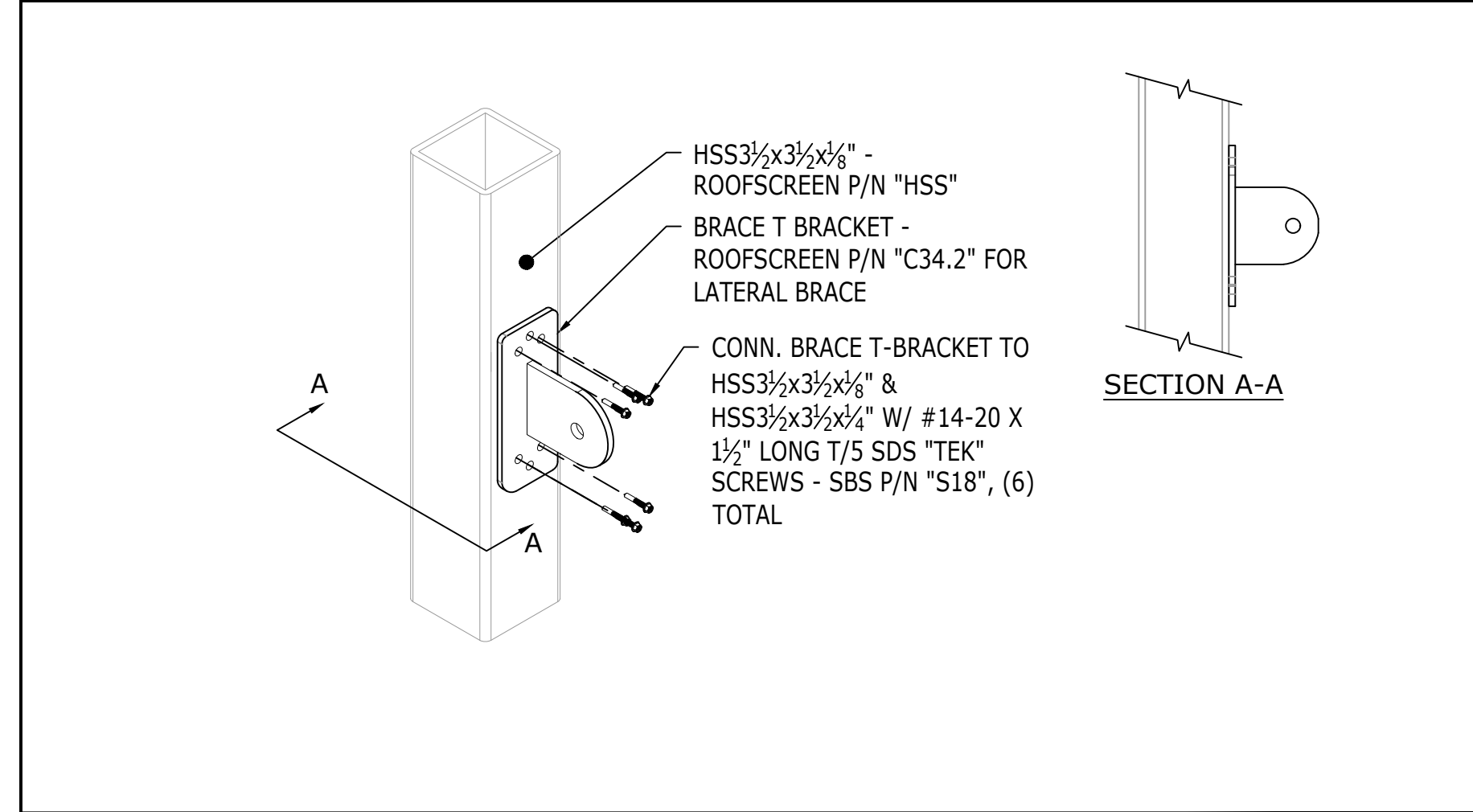
3 C10.1 TO HSS ATTACHMENT SCALE: NTS



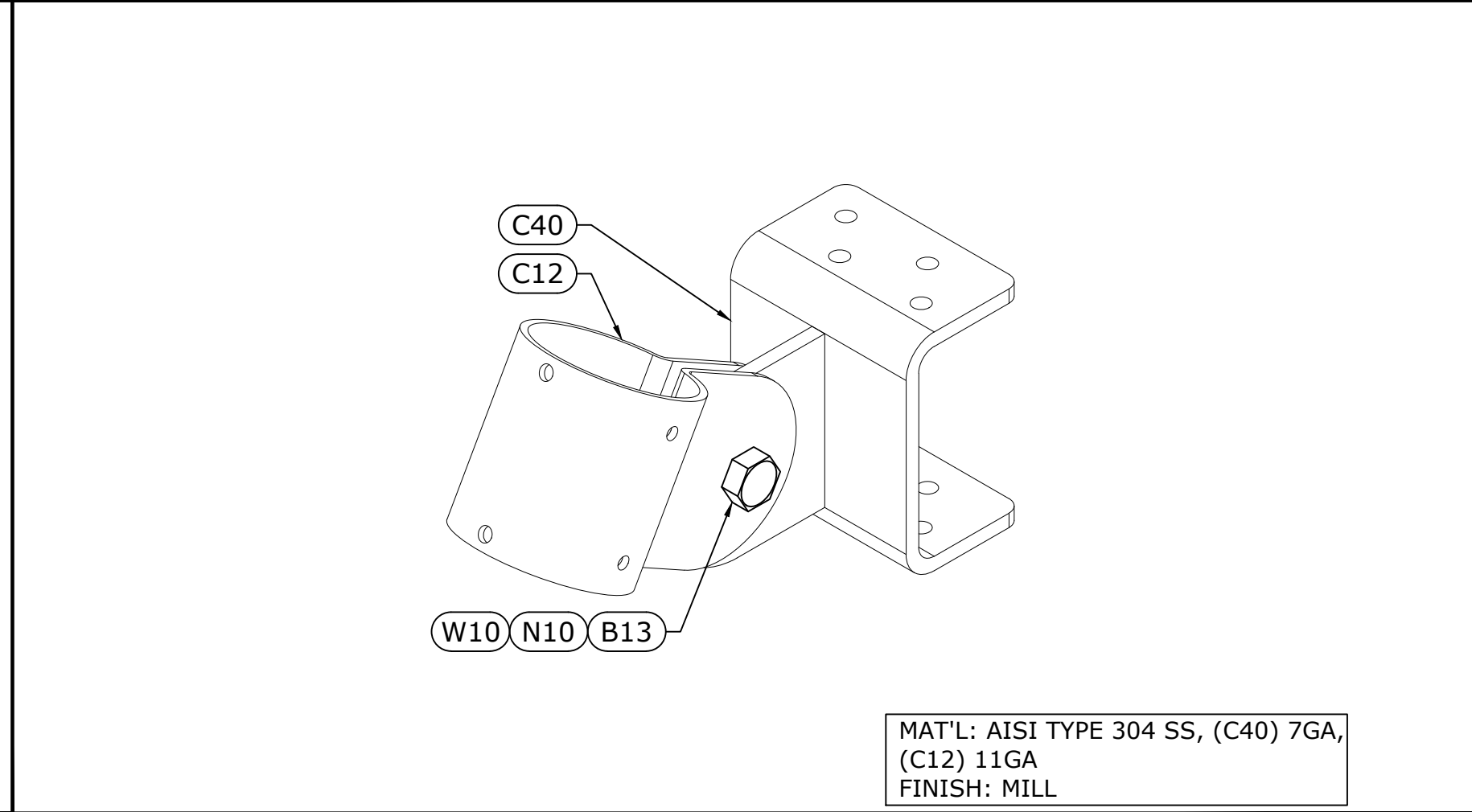
2 BS12 BASE SUPPORT (12") SCALE: NTS



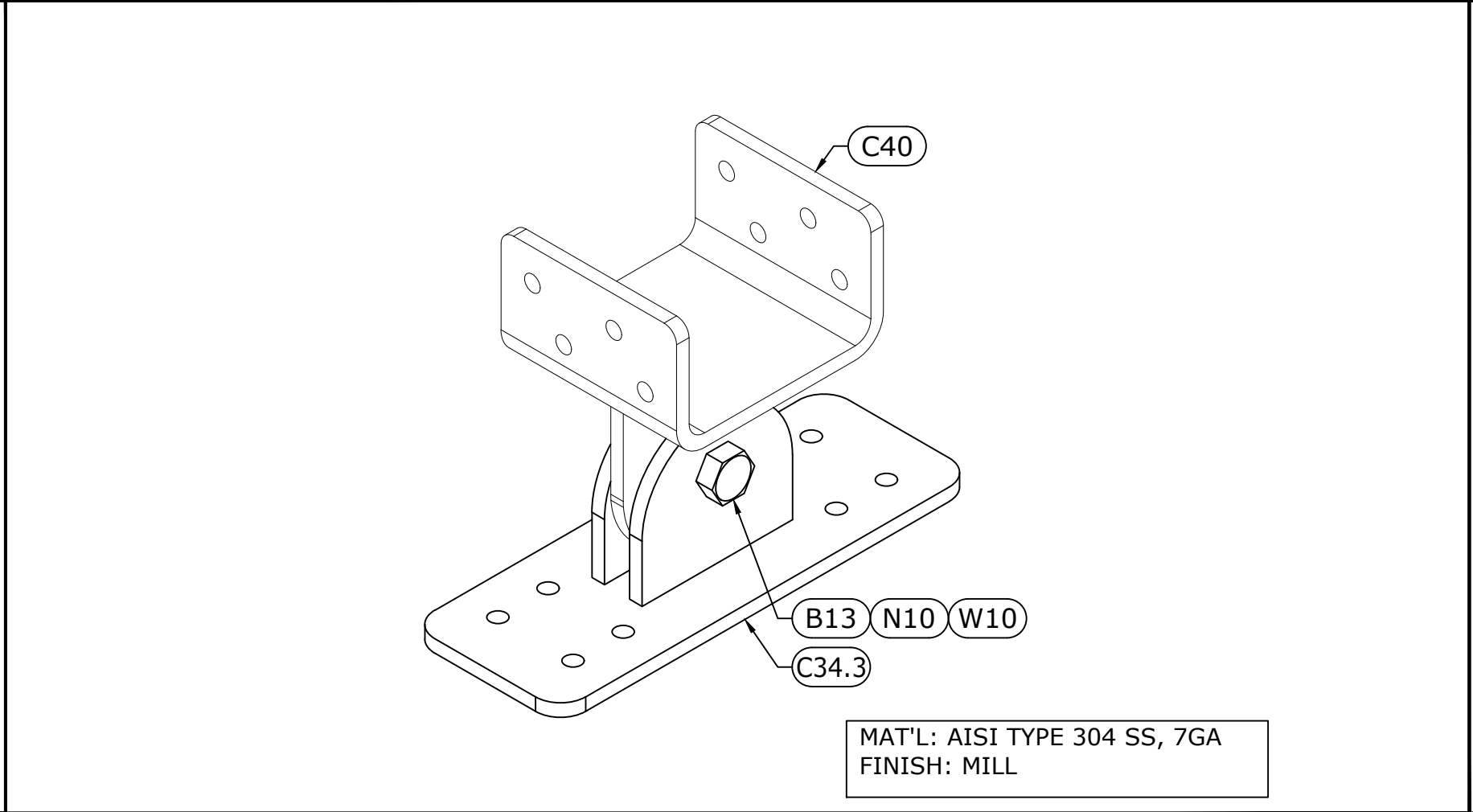
1 BASE SUPPORT ASSEMBLY INSTALLATION SCALE: NTS



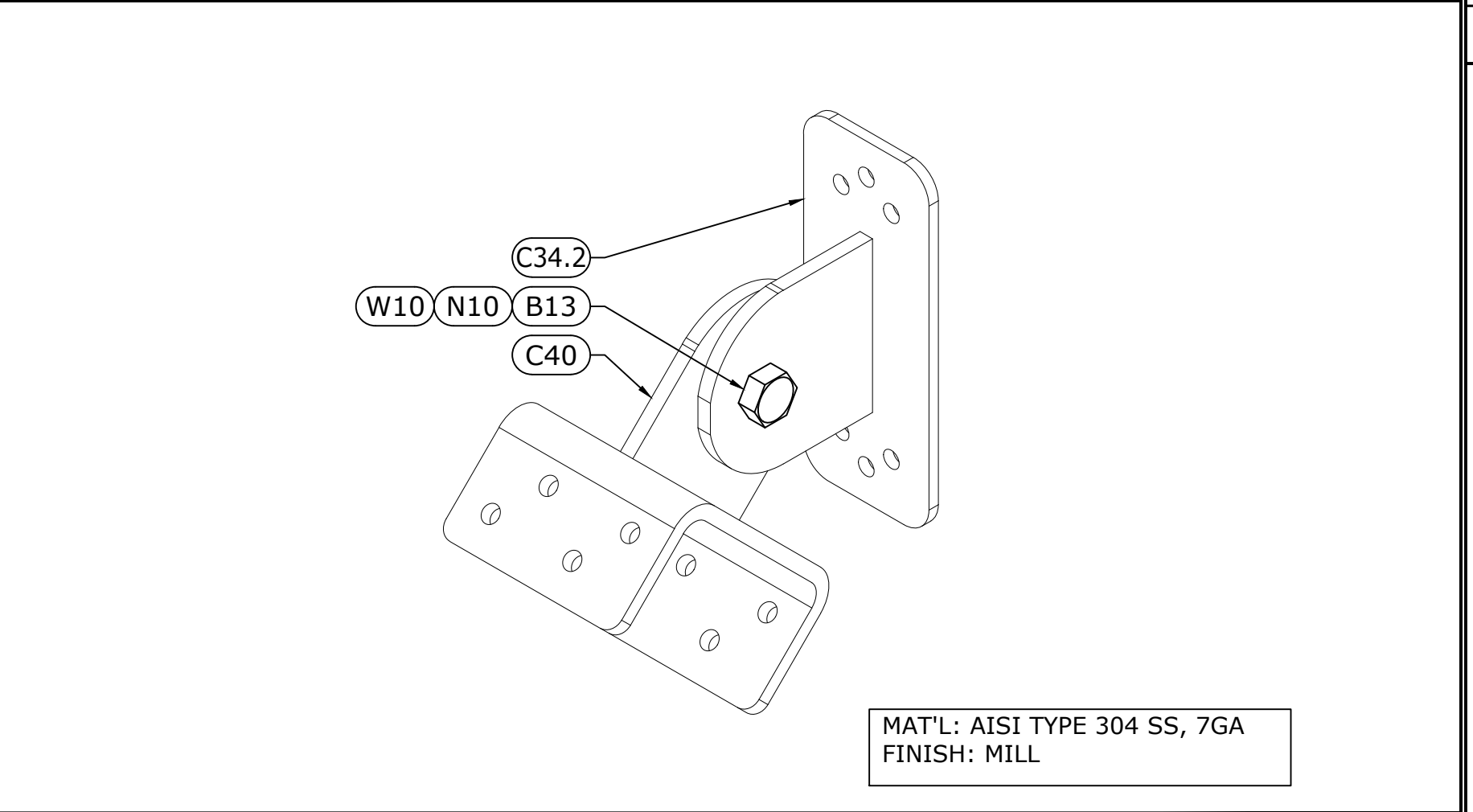
8 BRACE T- BRACKET (C34.2) SCALE: NTS



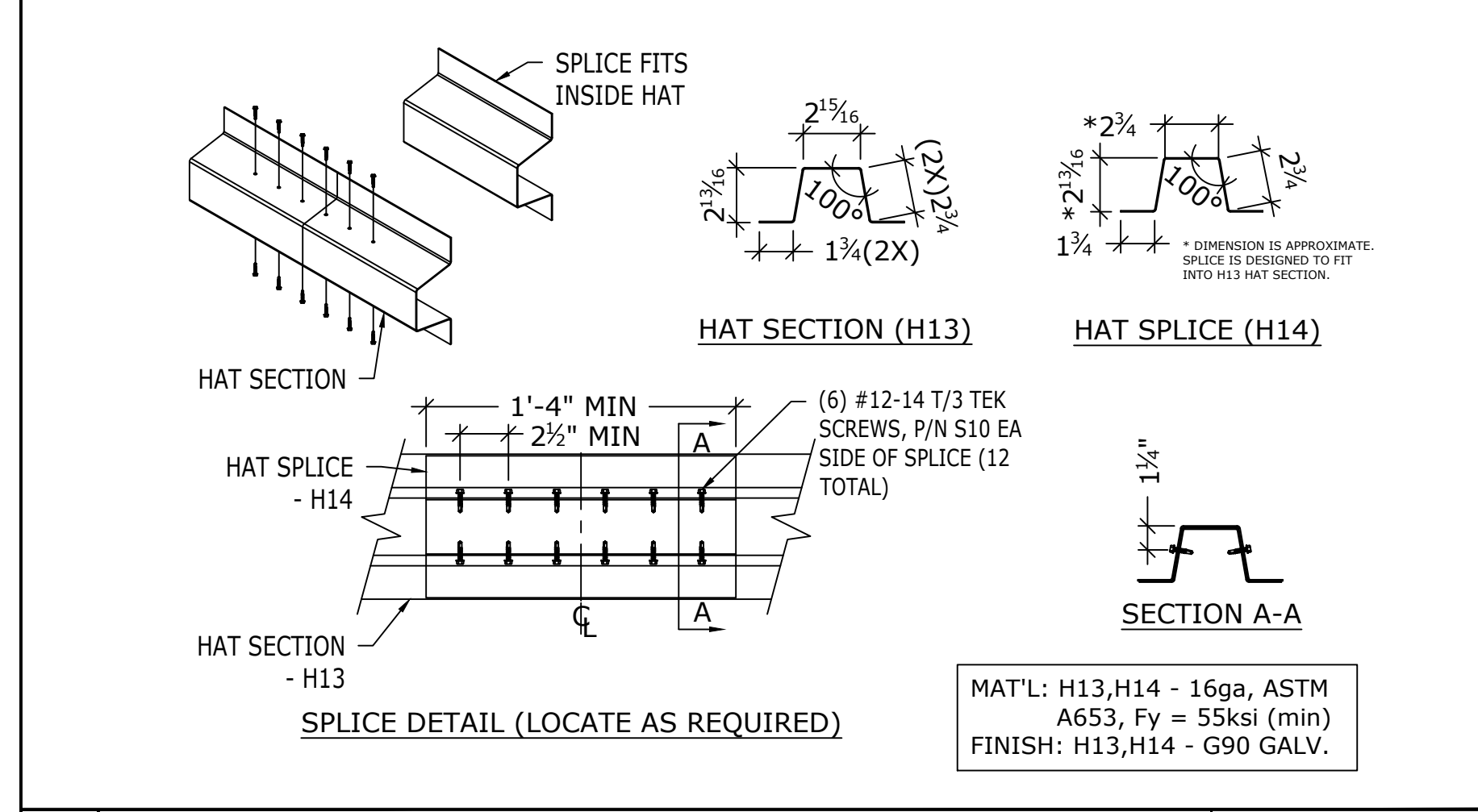
7 A81 2 1/2" FIELD, 3 1/2" HSS END SCALE: NTS



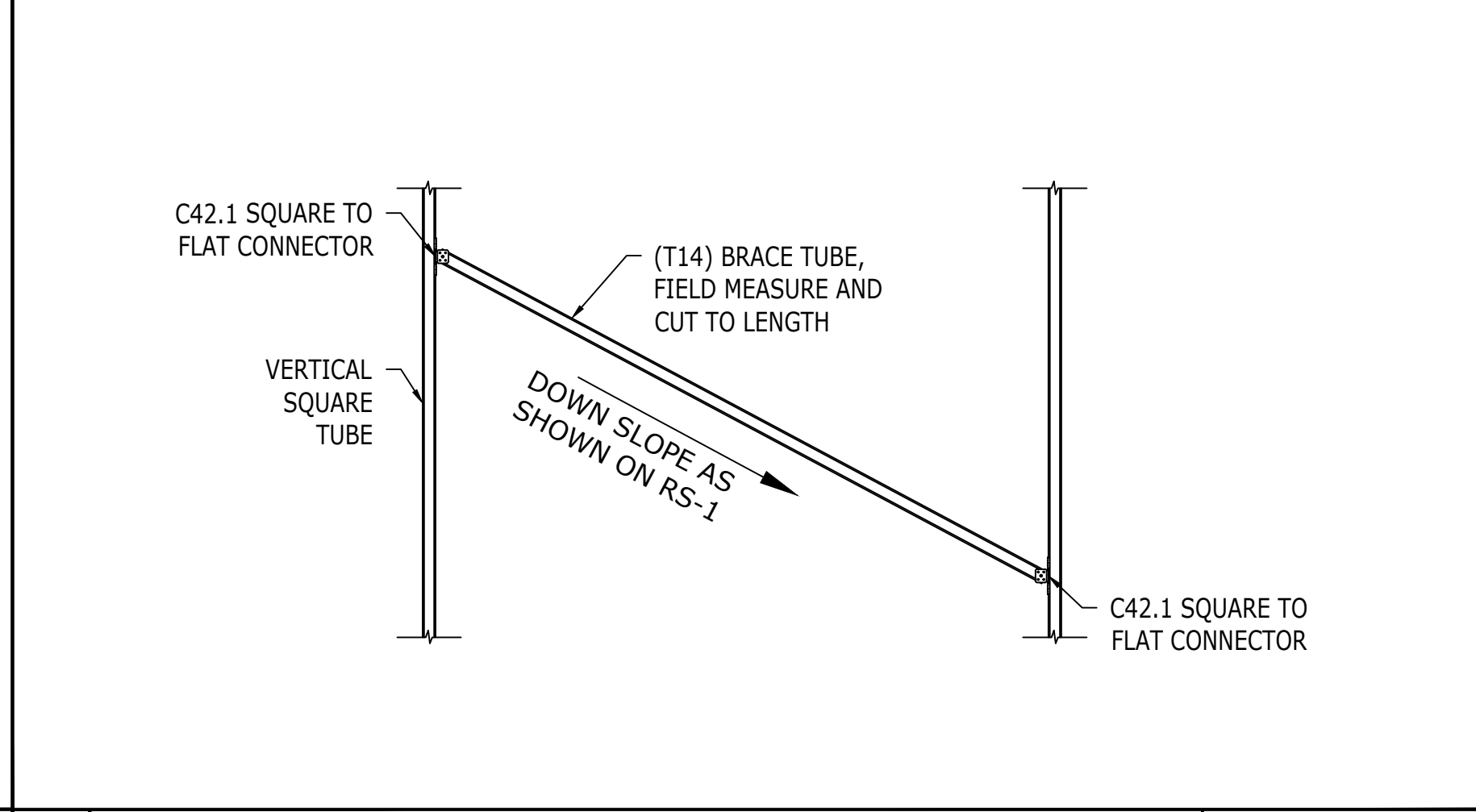
6 A80 T-BRACKET 3" X 8 1/4", 3 1/2" HSS END SCALE: NTS



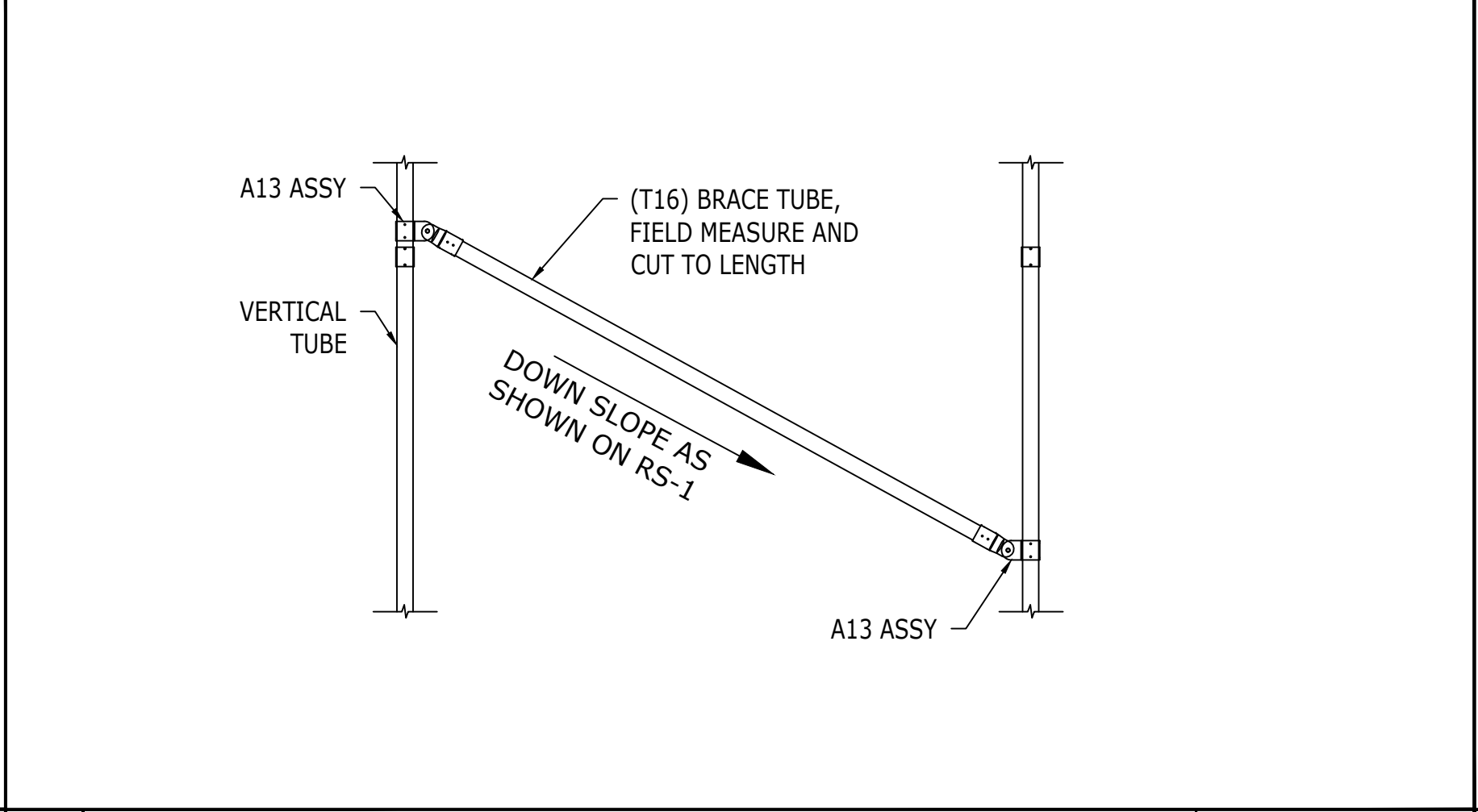
5 A79 T-BRACKET 2 1/2" X 6 1/4", 3 1/2" HSS END SCALE: NTS



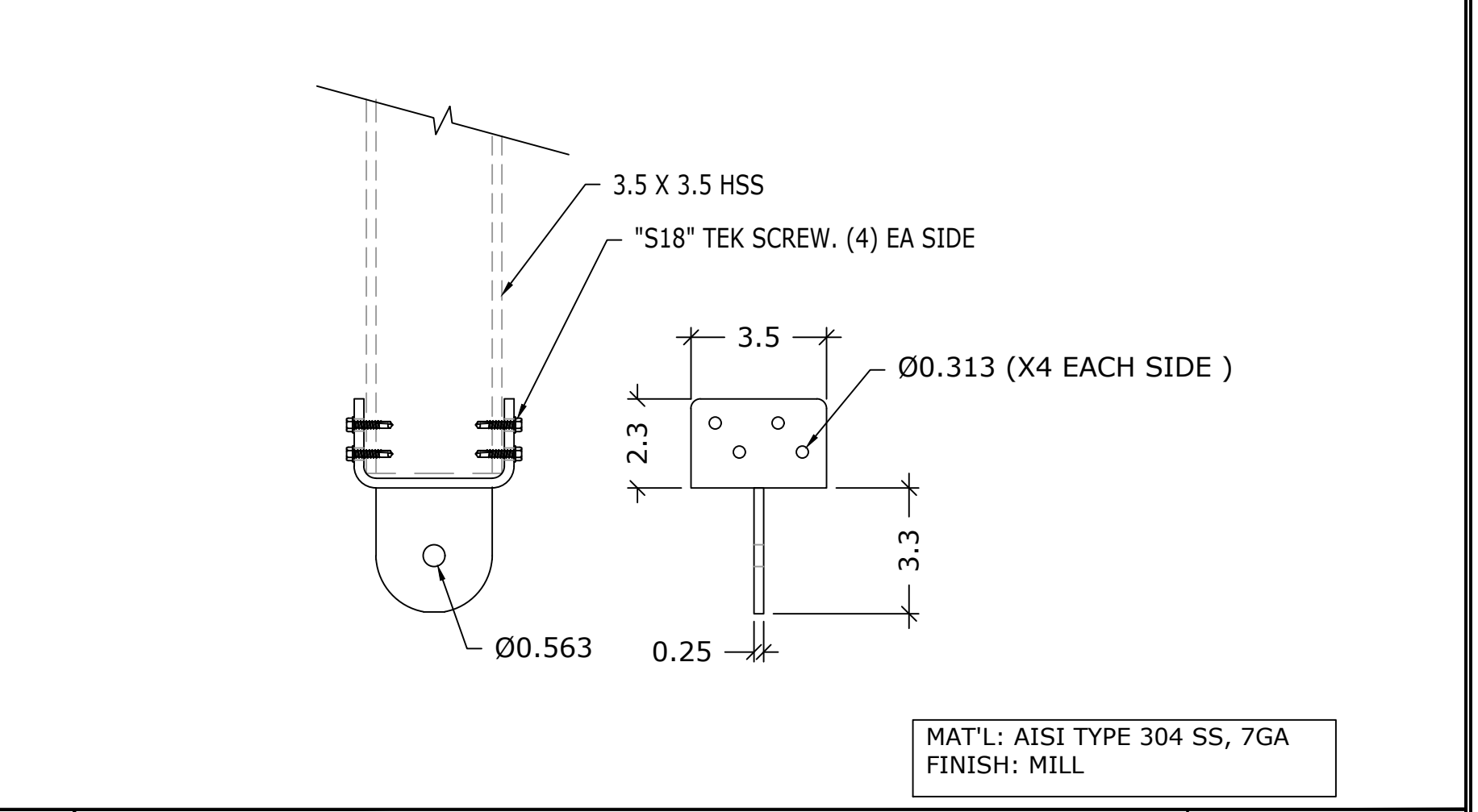
12 HAT AND SPLICE DETAIL 12 SCREW, H13/H14 SCALE: NTS



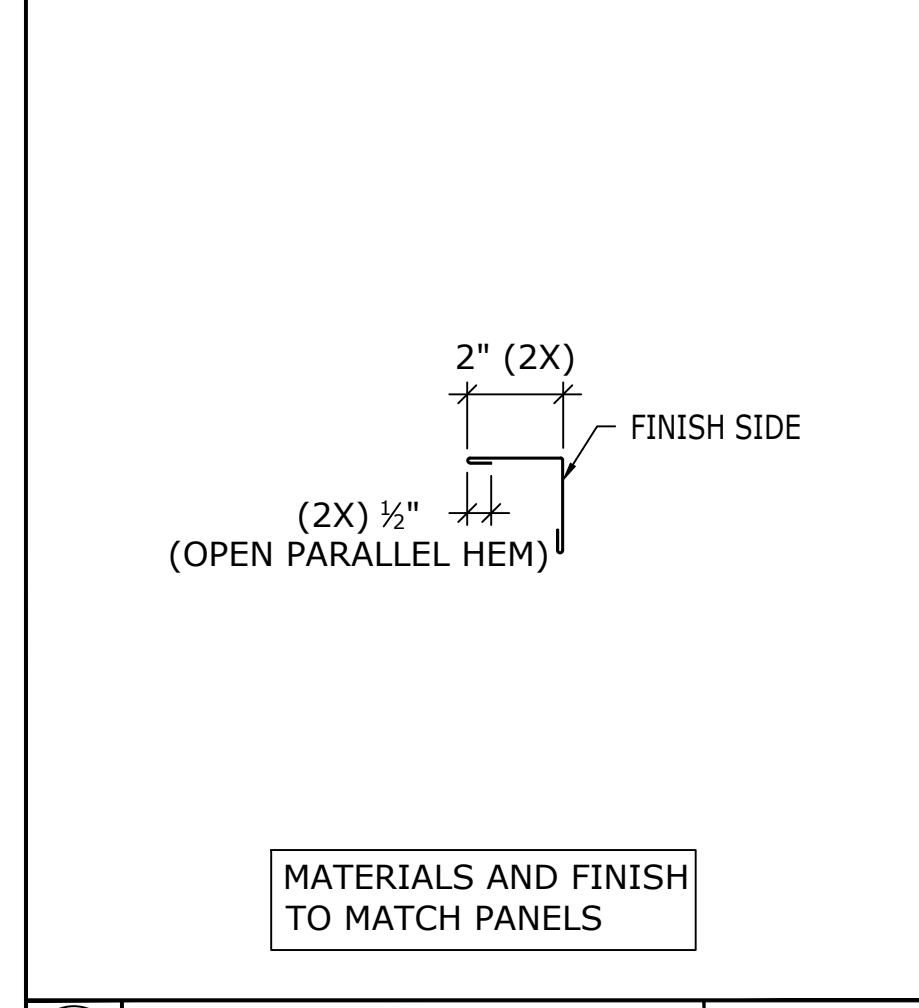
11 LATERAL BRACE ASSEMBLY SCALE: NTS



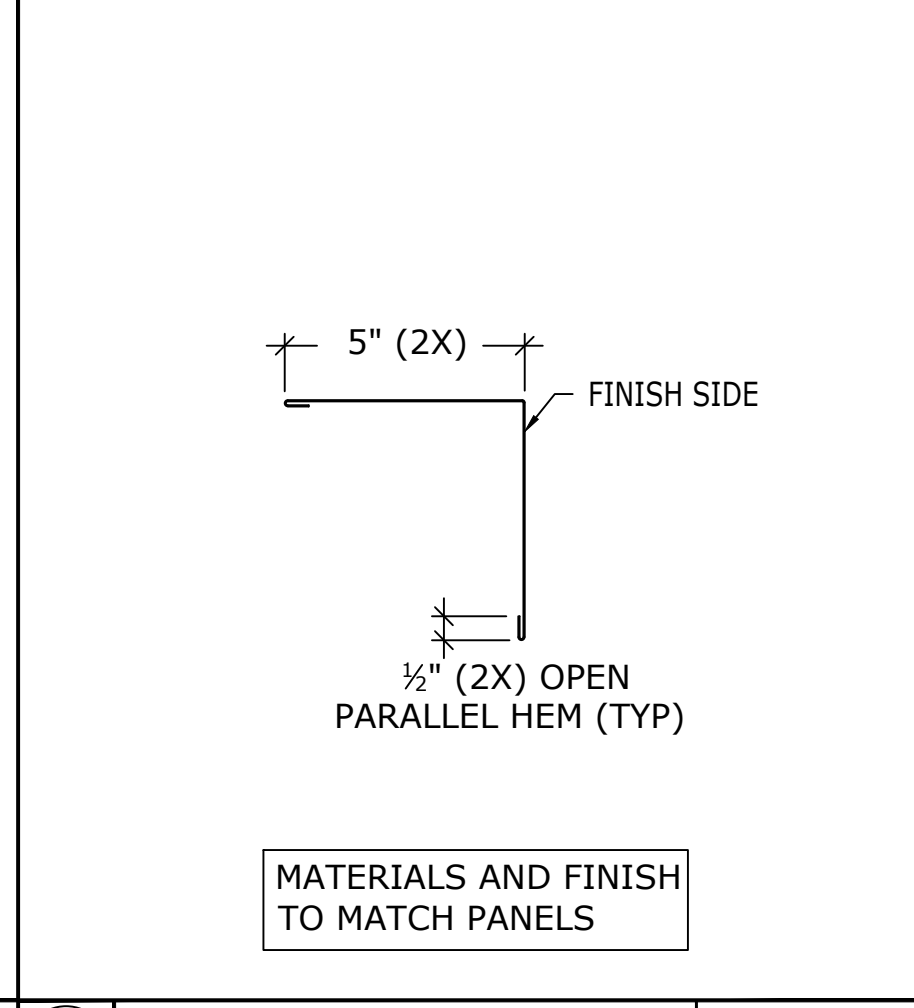
10 LATERAL BRACE ASSEMBLY SCALE: NTS



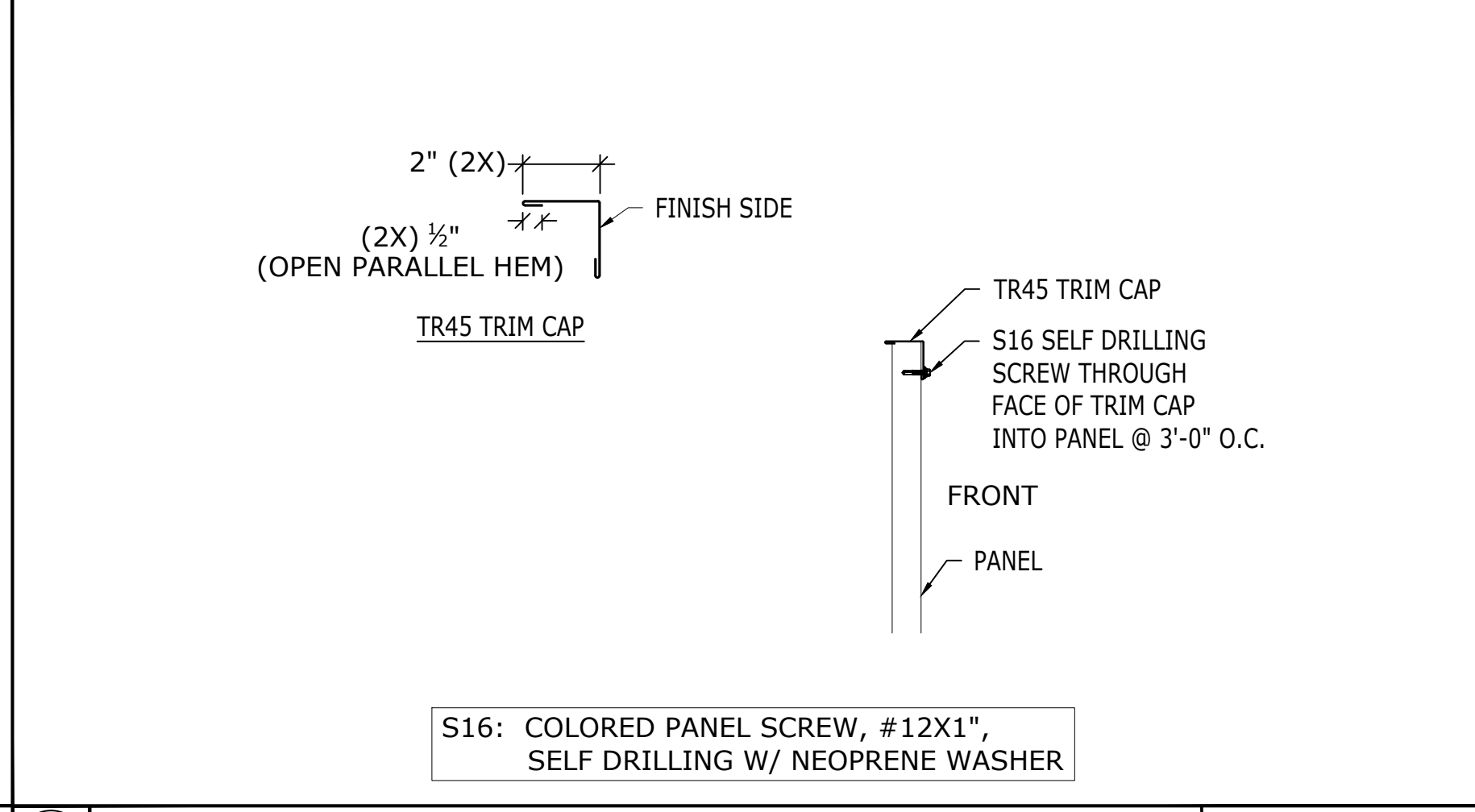
9 "C40" HSS END CONNECTOR SCALE: NTS



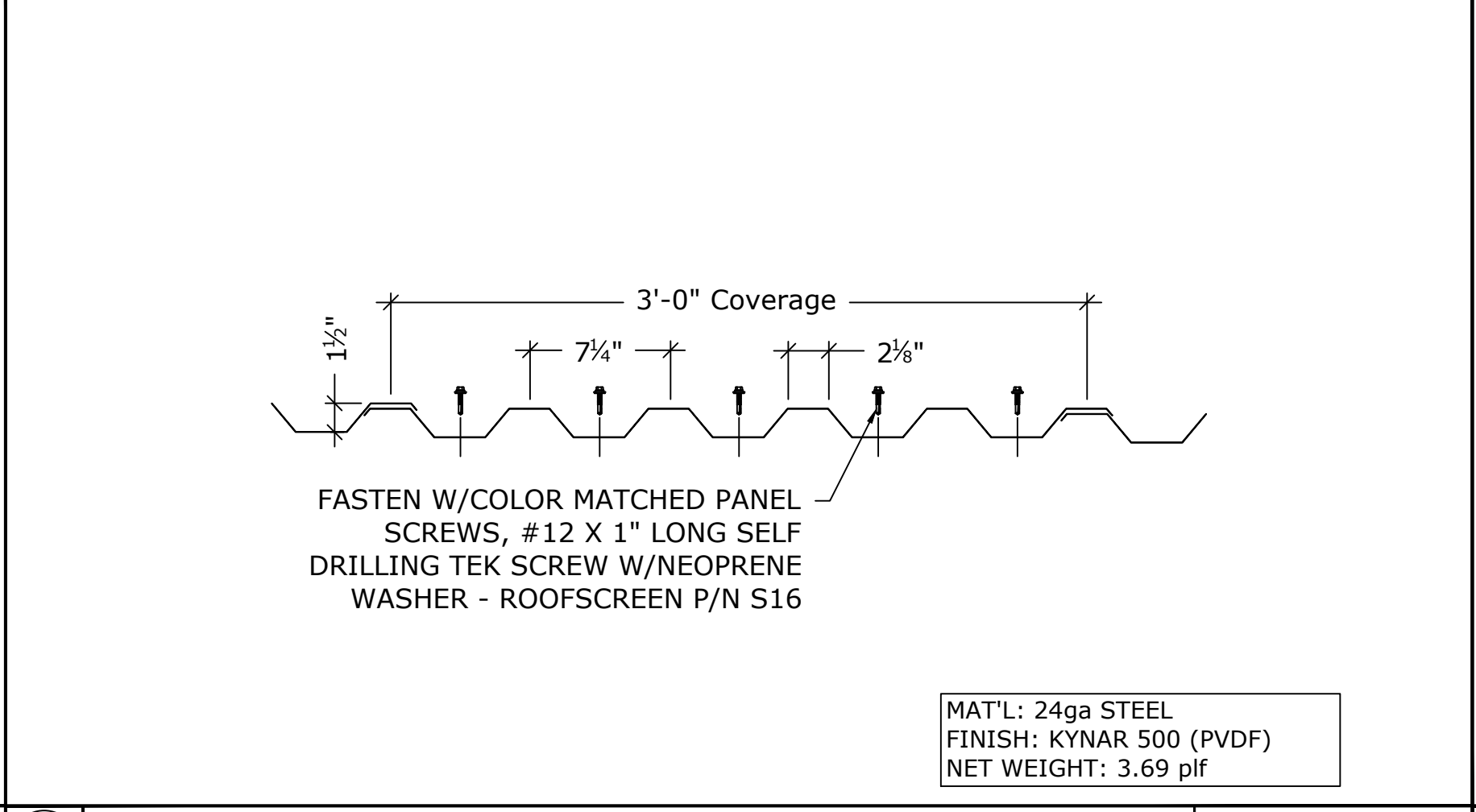
17 END TRIM 2' X 2' (TR45) SCALE: NTS



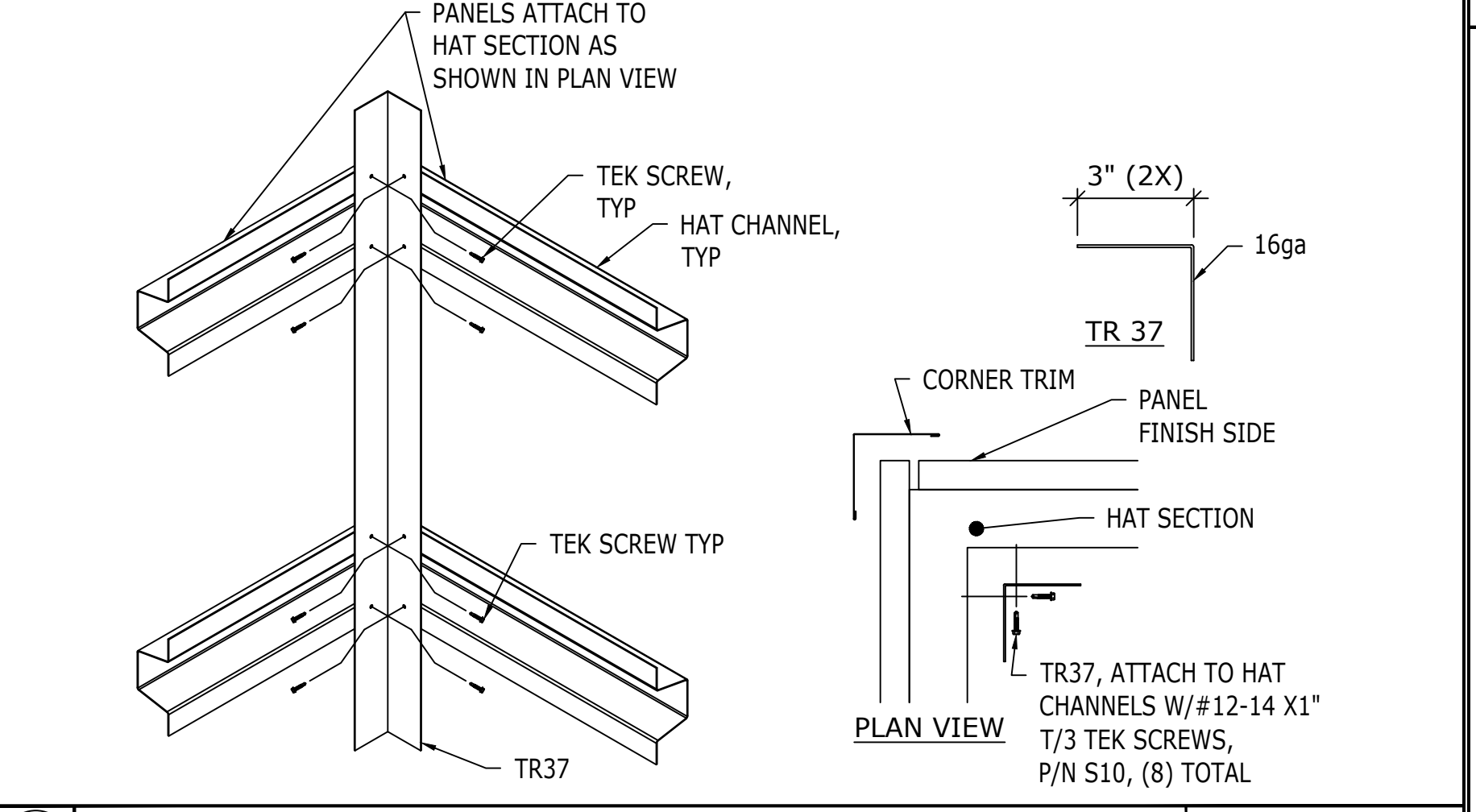
16 OUTSIDE CORNER 5' X 5' (TR21) SCALE: NTS



15 TRIM CAP (TR45), 7.2 RIB (P10) ATTACHMENT SCALE: NTS



14 P10 7.2 RIB PANEL SCALE: NTS



13 TR37 STIFFENER AT OUTSIDE CORNER SCALE: NTS



17 END TRIM 2' X 2' (TR45) SCALE: NTS



16 OUTSIDE CORNER 5' X 5' (TR21) SCALE: NTS



15 TRIM CAP (TR45), 7.2 RIB (P10) ATTACHMENT SCALE: NTS



14 P10 7.2 RIB PANEL SCALE: NTS

REV	DESCRIPTION	DATE
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REV	DESCRIPTION	DATE
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HYBRID FRAME SAMPLE DRAWINGS
 347 CORAL ST, SANTA CRUZ, CA 95060
 ROOFSCREEN MFG., INC.
 SANTA CRUZ, CA 95060
 (855) 960-5555
 WWW.ROOFSCREEN.COM

ROOFSCREEN PART/ASSEMBLY DETAILS

PARTS/ASSEMBLY DETAIL
 DIMS IN INCHES U.N.D.
 DRAWN BY: SS
 CHECKED BY: KS
 JOB NUMBER: P5555
 SHEET
RS-3