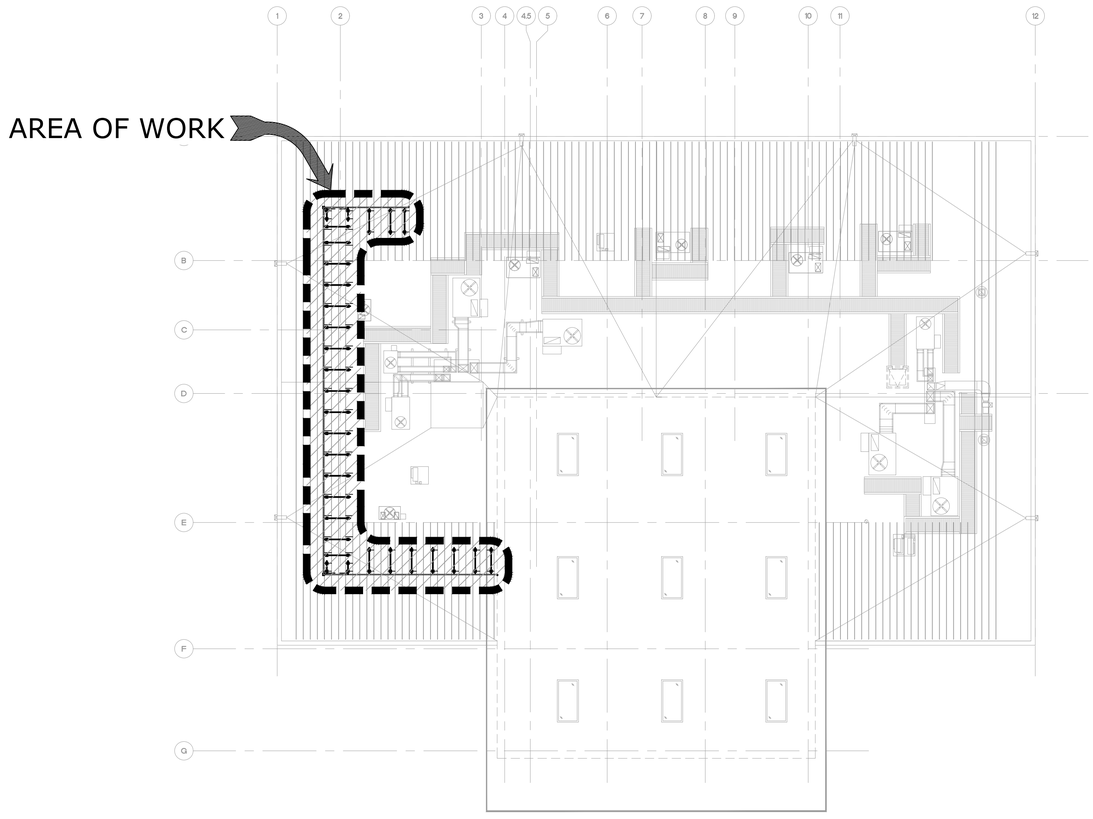
ROOFSCREEN CONSTRUCTION DOCUMENTS:

RS LT SAMPLE PLANS

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



SHEET INDEX

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RS-1	ROOFSCREEN FRAMING PLAN
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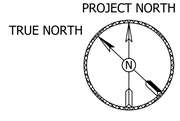
RS-3	ROOFSCREEN FRAME DETAILS & SPECIFICATIONS
RS-4	ROOFSCREEN PART/ASSEMBLY DETAILS

SITE PLAN
SCALE: NTS



CODE ANALYSIS

ALL WORK SHALL COMPLY WITH THE 2019 CALIFORNIA BUILDING CODE (CBC)

RISK CATEGORY.....(ASCE 7, TABLE 1-1) II

WIND DESIGN CRITERIA:
WIND SPEED.....(IBC FIG.1609) 92 MPH
WIND EXPOSURE.....(IBC 1609.4.3) C
C&C WIND PRESSURE.....(ASCE 7 6.4.1.2) XX PSF

SEISMIC DESIGN CRITERIA:
BY INSPECTION SEISMIC FORCES DO NOT GOVERN OVER WIND.

MATERIAL SPECIFICATIONS

STRUCTURAL STEEL & MISCELLANEOUS IRON:

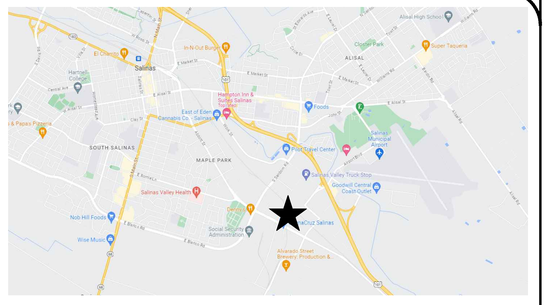
ROUND TUBING:	GALVANIZED 16 GA ASTM A500 GRADE B, MIN Fy = 40 KSI GALVANIZED 11 GA ASTM A500 GRADE C, MIN Fy = 50 KSI
PROPRIETARY PARTS	POLYESTER POLYURETHANE POWDER COATED ASTM A1008-CS TYPE A, Fy = 34 KSI BASE SUPPORT BASE PLATE, ASTM A36, Fy = 36 KSI STAINLESS STEEL AISI TYPE 304, Fy = 31.2 KSI
EXTRUDED ALUMINUM:	6063 T6, Ftu = 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

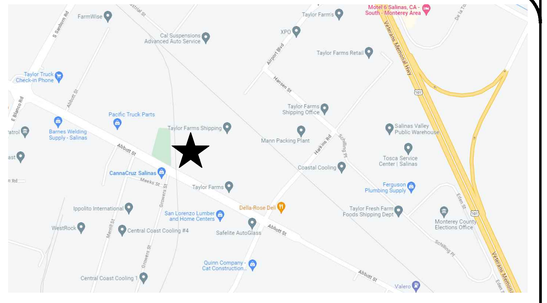
NEW ROOFSCREEN

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



REV	DESCRIPTION	BY	DATE
1	CONSTRUCTION DOCUMENTS	KS	11/16/23

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(866) 766-3727
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RoofScreen

ROOFSCREEN COVER SHEET

DRAWN BY:	ML
CHECKED BY:	KS
JOB NUMBER:	5555

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.

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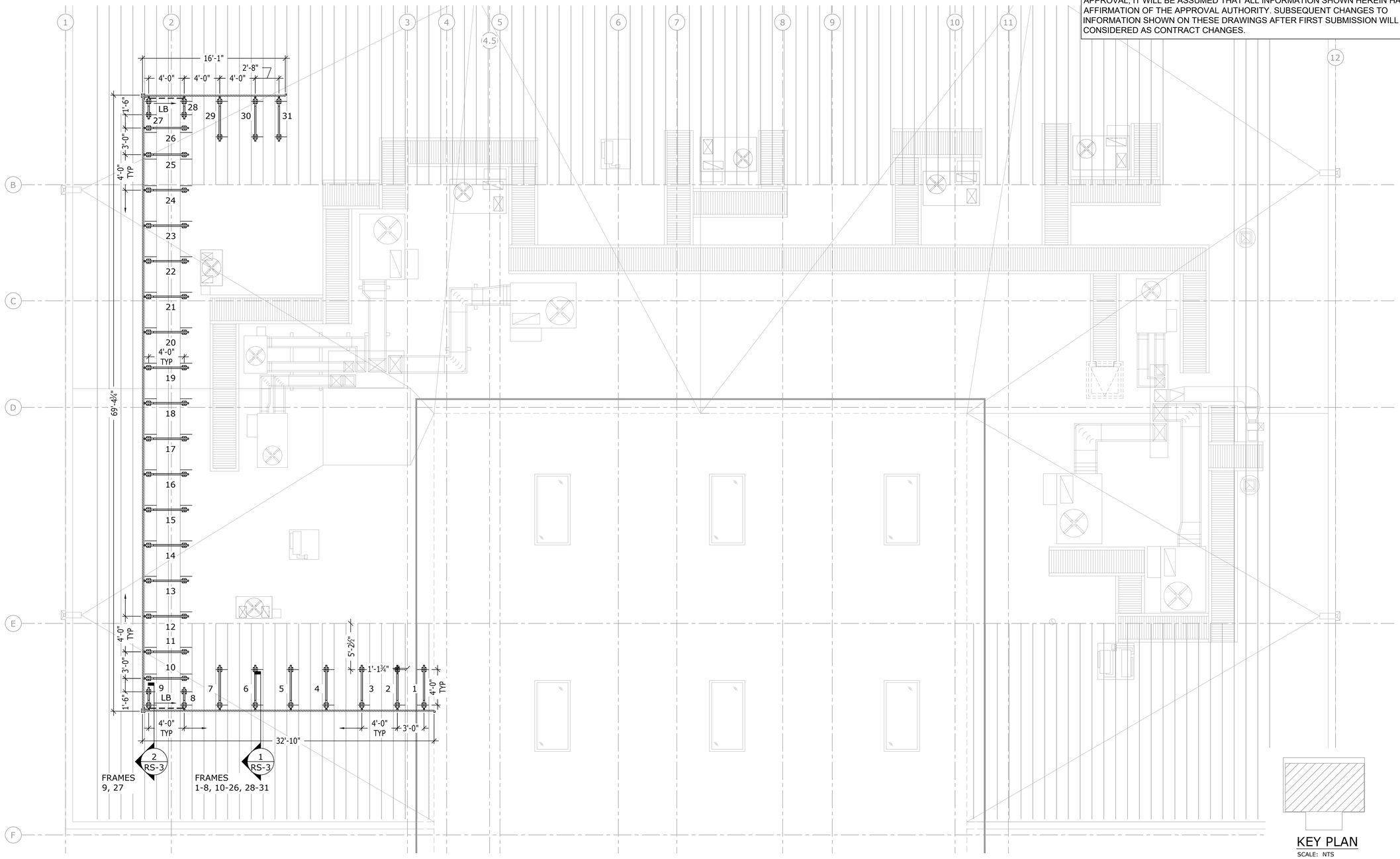


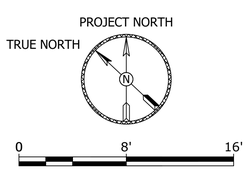
KEY PLAN
SCALE: NTS

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".

3. SEE SHT RS-2 FOR ROOFSCREEN HORIZONTAL PANEL LAYOUT.

ROOFSCREEN FRAMING PLAN
SCALE: 3/16" = 1'



LEGEND

####	ROOFSCREEN LITE FRAME W/ FRAME #
LB	LATERAL BRACE (DTL 12/RS-4) OFFSET ON PLAN FOR CLARITY ONLY ARROW INDICATES DOWN SLOPE
	HORIZONTAL PANELS
	BLOCKING BY OTHERS UNDER CENTER LINE OF BASE SUPPORT. OFFSET ON PLAN FOR CLARITY ONLY

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ROOFSCREEN FRAMING PLAN

DRAWN BY:	ML
CHECKED BY:	KS
JOB NUMBER:	5555
SHEET	

RS-1

APPROVAL / REVIEW AUTHORITY:
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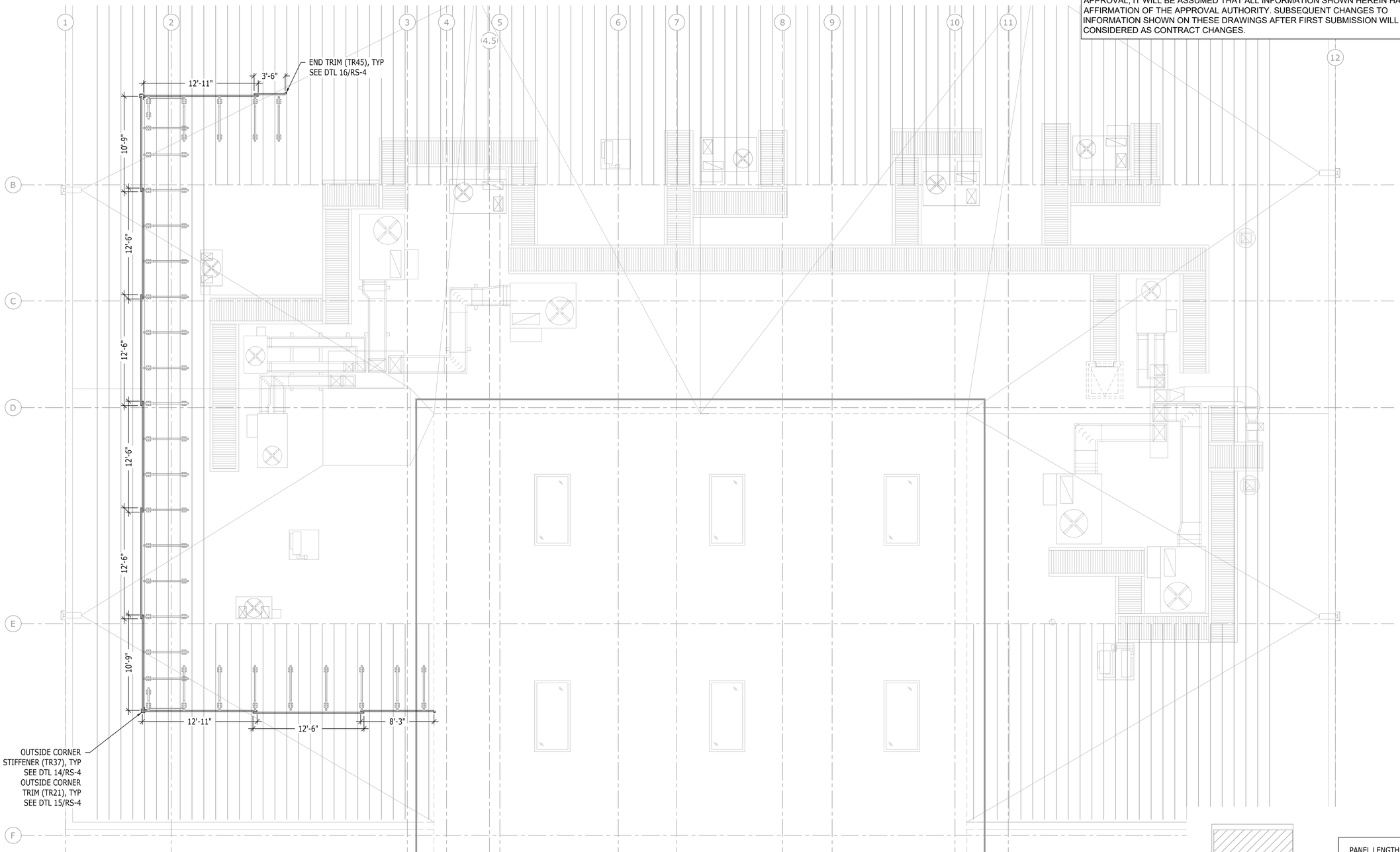

NOTES:
1. THE ACCURACY OF THE DATA USED TO CREATE THIS LAYOUT HAS NOT BEEN FIELD VERIFIED. THE AS-BUILT LOCATIONS OF ROOF FRAMING MEMBERS AND MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH WORK.

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

3. SEE SHT RS-1 FOR ROOFSCREEN FRAMING PLAN.

ROOFSCREEN PANEL PLAN

SCALE: 3/16" = 1'

PROJECT NORTH
TRUE NORTH

0 8' 16'

KEY PLAN
SCALE: NTS

LEGEND

ROOFSCREEN LITE FRAME

HORIZONTAL PANELS AND LENGTH "X" PER PLAN, SEE PANEL LENGTH TABLE. OFFSET FOR CLARITY ONLY.

PANEL LENGTHS	
QTY	LENGTHS
4	12'-11"
10	12'-6"
4	10'-9"
2	8'-3"
2	3'-6"

REV	DESCRIPTION	BY	DATE
1	CONSTRUCTION DOCUMENTS	KS	11/16/23
2			
3			
4			
5			

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RoofScreen

ROOFSCREEN PANEL PLAN

DRAWN BY: ML
CHECKED BY: KS
JOB NUMBER: 5555
SHEET
RS-2

ROOFSCREEN INSTALLATION NOTES:

1. 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.
2. TOP OF SCREEN ELEVATION SHALL BE UNIFORM ALONG FULL LENGTH OF WALL AND SHALL NOT EXCEED MAX ELEVATION SHOWN.
3. 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.
4. LASER MEASURING IS RECOMMENDED PRIOR TO FIELD CUTTING.
5. ENSURE SQUARE POST SUPPORTS ARE CENTERED ON EXISTING BLOCKING (BY OTHERS).
6. INSTALL FRONT SQUARE POST SUPPORTS IN A STRAIGHT LINE USING LASER LEVEL OR STRING LINE. THERE IS NO FRONT TO BACK ADJUSTMENT FOR THE FRAME CONFIGURATION USED ON THIS PROJECT.
7. WHEN USING SELF-DRILLING TEK SCREWS TO FASTEN BASE SUPPORTS THROUGH WOOD DECKING TO STEEL STRUCTURAL MEMBERS BELOW, IT IS NECESSARY TO DRILL A CLEARANCE HOLE, LARGER THAN THE DIAMETER OF THE TEK SCREW, IN THE WOOD 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.
8. TO REDUCE THE POSSIBILITY OF CONDENSATION, FILL SQUARE POST SUPPORTS WITH UNFACED BATT INSULATION (SUPPLIED BY OTHERS) DURING INSTALLATION.
9. 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.
10. ROOF FLASHING BOOTS SHALL TERMINATE 4" MIN FROM TOP OF SQUARE POST SUPPORTS.
11. 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.
12. MANY OF THE FRAME CONNECTOR FITTINGS HAVE EXTRA SCREW HOLES. SEE ROOFSCREEN SPECIFICATIONS ON THIS SHEET FOR THE CORRECT NUMBER OF SCREWS PER FITTING.
13. OVERLAP PANEL RIBS AS REQUIRED TO ACHIEVE CORRECT PANEL HEIGHT AS SHOWN IN FRAME DETAIL(S) 1, 2/RS-3.
14. 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 16/RS-4.
15. APPLY ANTI-SEIZING LUBRICANT TO ALL STAINLESS BOLTS DURING INSTALLATION TO PREVENT GALLING.
16. AFTER INSTALLATION IS COMPLETE, DUST OFF AND REMOVE ALL METAL SHAVINGS FROM BASE CAPS AND FINISHED ROOF SURFACE TO PREVENT SURFACE RUST AND STAINING.
17. 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: 7.2 RIB 1½" DEEP, 24ga, TWO 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 13/RS-4, AND PER MANUFACTURER'S SPECS. DEFLECTION LIMIT = L/180

TUBE STEEL: ASTM A500.

(T14.1) HSS 1.75 OD X 1.75 (14ga), Fy= 50ksi

(T14) HSS 2.0 OD X 2.0 (14ga), Fy= 50ksi

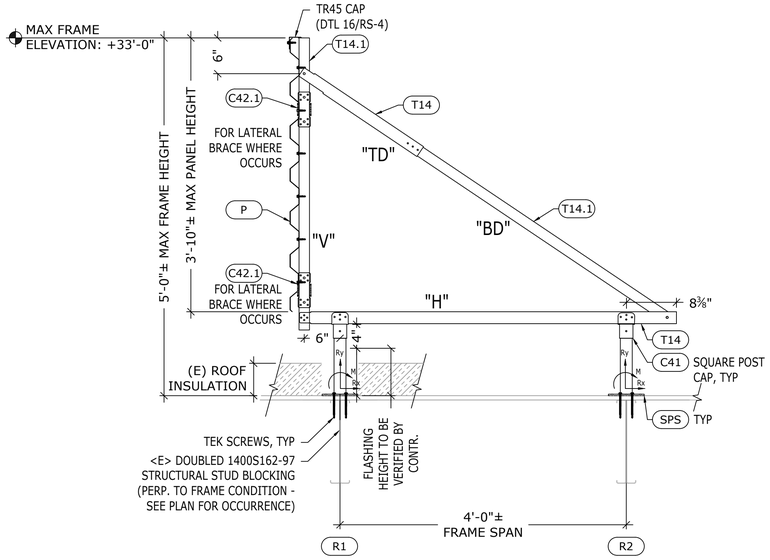
PROPRIETARY CONNECTORS:

(C42.1) SQUARE TO FLAT CONNECTOR:
CONN TO SIDE OF SQUARE VERT TUBE W/ #12-14 X 1" LONG T/3 "TEK" SCREWS - ROOFSCREEN P/N "S10", (2) PER FLANGE MIN, MINIMUM (8) TOTAL.
CONN TO END OF SQUARE LATERAL BRACE TUBE W/ #12-14 X 1" LONG T/3 "TEK" SCREWS - ROOFSCREEN P/N "S10", (2) PER FLANGE MIN, MINIMUM (8) TOTAL.

(C42.1) SQUARE TO FLAT CONNECTOR:
CONN TO SQUARE HORIZ TUBE W/ #12-14 X 1" LONG T/3 "TEK" SCREWS - ROOFSCREEN P/N "S10", (2) PER FLANGE MIN, MINIMUM (8) TOTAL.
CONN TO END OF SQUARE DIAGONAL TUBE THRU PRE-DRILLED HOLE W/ Ø5⁄16" X 3" SS BOLT - P/N B38, Ø5⁄16" SS FLAT WASHER - P/N W18, Ø5⁄16" SS LOCKWASHER - P/N W24, AND SS NUT - P/N N12. (1) TOTAL PER DTL 17/RS-4.

(C41) SQUARE POST SUPPORT CAP:
CONN TO "SPS" W/ #12-14 X 1" LONG T/3 TEK SCREW - ROOFSCREEN P/N "S37", (1) EACH SIDE TYP, (4) TOTAL
CONN TO HORIZONTAL TUBE W/ #12-14 X 1" LONG T/3 TEK SCREW - ROOFSCREEN P/N "S10", (4) EACH SIDE TYP, (8) TOTAL

(SPS) SQUARE POST SUPPORT: 28" HIGH
CONNECT TO <E> DOUBLED 1400S162-97 STRUCTURAL STUD BLOCKING (DESIGNED AND SUPPLIED BY OTHERS) W/ #14-20 x 4" T/5 SELF-DRILLING "TEK" SCREW - ROOFSCREEN P/N "S13", (4) TOTAL PER SPS DTL 2/RS-4. ALIGN BASE SUPPORT W/ CENTERLINE OF EXISTING BLOCKING.



TUBE FRAME AT SPACING PER PLAN (1)
SCALE: NTS FRAMES 1-7, 10-26, 29-31

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=±xxx lbs SHEAR AND Ry=±xxx lbs TENSION/COMPRESSION AND Mz=±xxx ft-lbs MOMENT

(R2) Rx=±xxx lbs SHEAR AND Ry=±xxx lbs TENSION/COMPRESSION AND Mz=±xxx ft-lbs MOMENT

(R3) Rx=±xxx lbs SHEAR AND Ry=±xxx lbs TENSION/COMPRESSION AND Mz=±xxx ft-lbs MOMENT

(R4) Rx=±xxx lbs SHEAR AND Ry=±xxx lbs TENSION/COMPRESSION AND Mz=±xxx ft-lbs MOMENT

DEAD:

(R1) Rx=xxx lbs SHEAR AND Ry =xxx lbs COMPRESSION

(R2) Rx=xxx lbs SHEAR AND Ry =xxx lbs COMPRESSION

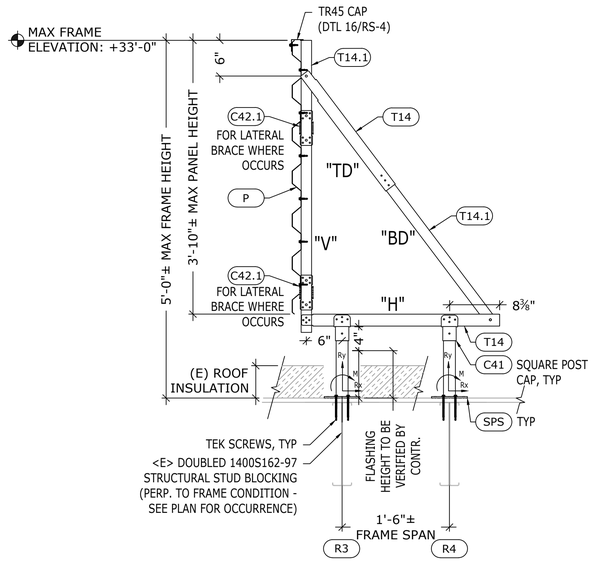
(R3) Rx=xxx lbs SHEAR AND Ry =xxx lbs COMPRESSION

(R4) Rx=xxx lbs SHEAR AND Ry =xxx lbs COMPRESSION

(R) EXISTING ROOF FRAMING: 23⁄32" PLYWOOD DECK OVER DOUBLED 1400S162-97 STRUCTURAL STUDS.

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 (2)
SCALE: NTS FRAMES 8, 9, 27, 28

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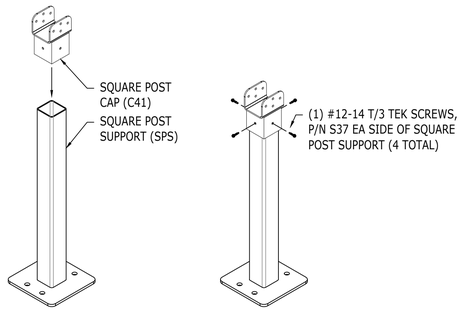
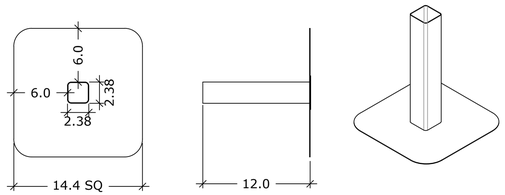
ROOFSCREEN FRAME DETAILS & SPECIFICATIONS

DRAWN BY:	ML
CHECKED BY:	KS
JOB NUMBER:	5555

SHEET
RS-3

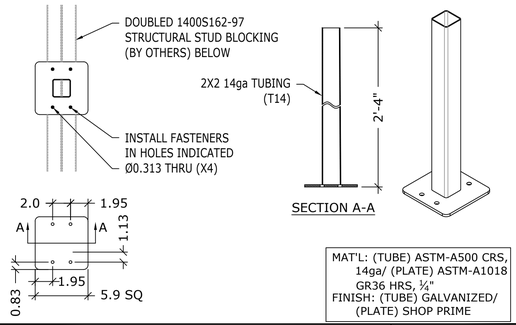


4 SQUARE POST CAP CONN — SCALE: NTS



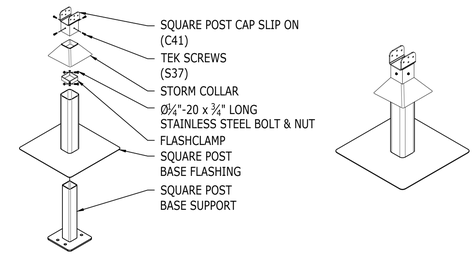
MAT'L: 60mil, TPO POLYESTER REINFORCED

3 F31 TPO FLASHING FOR 2x2" SQUARE TUBE — SCALE: NTS

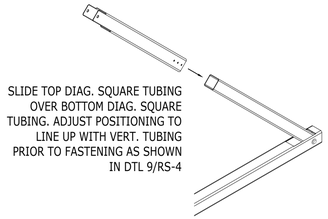


MAT'L: (TUBE) ASTM-A500 CRS, 14ga/ (PLATE) ASTM-A1018 GR36 HRS, ¼" FINISH: (TUBE) GALVANIZED/ (PLATE) SHOP PRIME

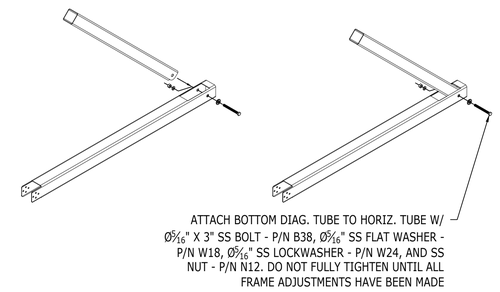
2 "SPS" 2'-7" SQUARE POST SUPPORT — SCALE: NTS



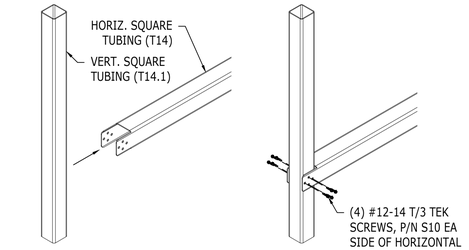
1 SQUARE POST SUPPORT ASSEMBLY EXPLODED — SCALE: NTS



8 TOP DIAG. TUBE TO BOTTOM CONN — SCALE: NTS

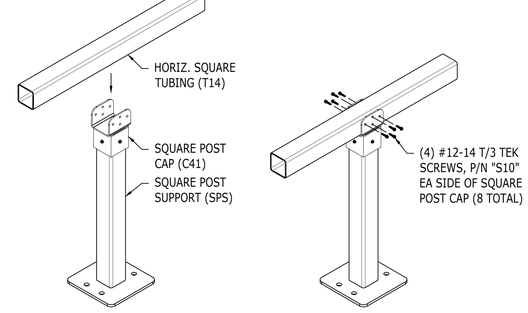


7 BOTTOM DIAG. TUBE TO HORIZ. CONN — SCALE: NTS

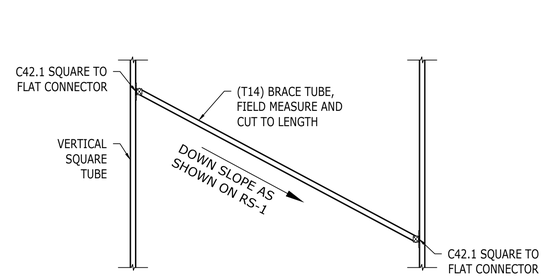


NOTE: INSTALLER MAY WANT TO PIN THE VERTICAL TUBE WITH ONLY ONE TEK SCREW PER SIDE AT THIS TIME TO ALLOW FOR ROTATION & FURTHER ADJUSTMENT DURING FRAME ASSEMBLY. REMAINING TEK SCREWS CAN BE INSTALLED ONCE FRAME ADJUSTMENTS ARE COMPLETE.

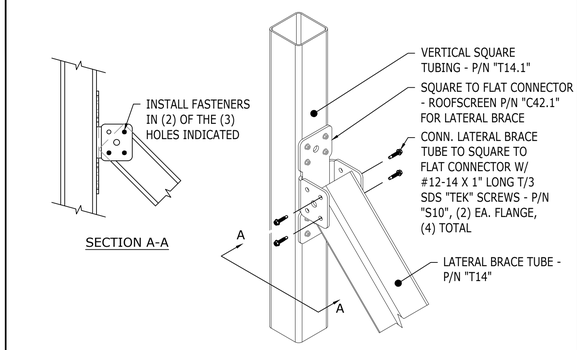
6 HORIZ. SQUARE TUBE TO VERT. CONN — SCALE: NTS



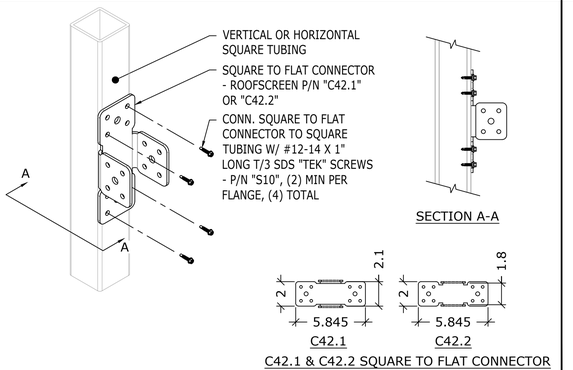
5 SQUARE POST CAP CONN — SCALE: NTS



12 LATERAL BRACE ASSEMBLY — SCALE: NTS

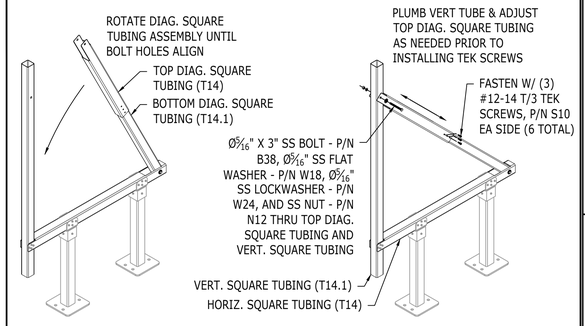


11 LATERAL BRACE ATTACHMENT W/C42.1 — SCALE: NTS

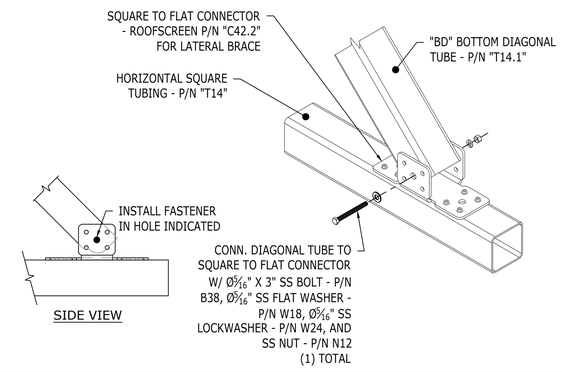


C42.1 & C42.2 SQUARE TO FLAT CONNECTOR

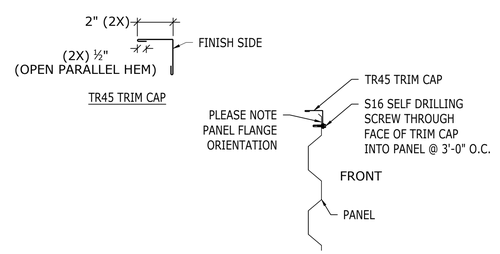
10 SQUARE TO FLAT CONNECTOR (C42.1 & C42.2) — SCALE: NTS



9 DIAG. TUBING ADJUSTMENT — SCALE: NTS

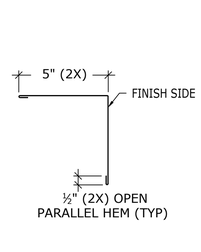


17 DIAGONAL TO HORIZONTAL ATTACH (C42.2) — SCALE: NTS



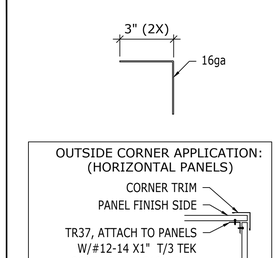
S16: COLORED PANEL SCREW, #12X1", SELF DRILLING W/ NEOPRENE WASHER

16 TRIM END & CAP (TR45), 7.2 RIB (P10) ATTACHMENT — SCALE: NTS

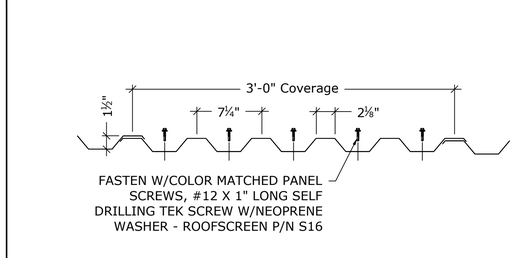


MATERIALS AND FINISH TO MATCH PANELS

15 OUTSIDE CORNER 5" X 5" (TR21) — SCALE: NTS



14 TR37 STIFFENER, HORIZONTAL PANELS — SCALE: NTS



MAT'L: 24ga STEEL
FINISH: KYNAR 500 (PVDF)
NET WEIGHT: 3.69 plf

13 P10 7.2 RIB PANEL — SCALE: NTS

REV	DESCRIPTION	BY	DATE
1	CONSTRUCTION DOCUMENTS	KS	11/16/23

RS LT SAMPLE PLANS
347 CORAL ST, SANTA CRUZ, CA 95060

ROOFSCREEN MFG., INC.
347 CORAL STREET
SANTA CRUZ, CA 95060
(866) 766-3727
INFO@ROOFSCREEN.COM

RoofScreen

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PARTS/ASSEMBLY DETAIL DIMS IN INCHES U.N.O.

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SHEET
RS-4