

COOLING) 283607

3950 DOUBLES DRIVE SANTA ROSA, CA 95407

WRIGHT

(RRU





ISSUE STATUS CD 90% | I.M. CLIENT REV CD 100% CLIENT REV B.S.

DRAWN BY: DIN

CHECKED BY: J. GRAY

APPROVED BY: J. ANDERSON 08/11/20

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

WRIGHT (RRU COOLING)

3950 DOUBLES DRIVE, SANTA ROSA, CA 95407 LOCATION NUMBER: 283607 PROJECT ID#: 20181854419

PROJECT DESCRIPTION

VERIZON WIRELESS REAL ESTATE:

VERIZON WIRELESS RF ENGINEER:

EPIC WIRELESS GROUP INC - LEASING

EPIC WIRELESS GROUP INC - ZONING

DATE

DATE

DATE

DATE

SITE #:

POWER:

JURISDICTION:

283607

PG&E

CITY OF SANTA ROSA

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A MODIFICATION TO AN (E) VERIZON WIRELESS UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF:

- REMOVING ALL (E) RRUS-32 UNITS & RRUS-11 UNITS W/A2 MODULES FROM INSIDE THE (E) FRP SCREEN ENCLOSURE
- INSTALLING (N) SCREEN TEXTURED & COLORED TO MATCH (E) BUILDING FACADE

DATE

DATE

DATE

DATE

INSTALLING (N) 4X4 COAX ENTRY PORT

VERIZON WIRELESS EQUIPMENT ENGINEER:

EPIC WIRELESS GROUP INC - CONSTRUCTION

VERIZON WIRELESS CONSTRUCTION:

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PROPERTY OWNER:

- INSTALLING (3) (N) RADIO 4449 UNITS
- INSTALLING (3) (N) RADIO 8843 UNITS
- INSTALLING (N) FIBER & POWER JUMPERS FROM (E) SURGE SUPPRESSORS TO (N) RADIOS
- INSTALLING (N) $\frac{1}{2}$ " JUMPERS FROM (N) RADIOS TO (E) ANTENNAS
- INSTALLING (N) CHAIN LINK COVER OVER (E) EQUIPMENT COMPOUND

PROJECT INFORMATION

SITE NAME: WRIGHT (RRU COOLING)

SONOMA

035-700-078

SITE ADDRESS: 3950 DOUBLES DRIVE SANTA ROSA, CA 95407

CURRENT ZONING: PUBLIC

I-B

CONSTRUCTION TYPE:

OCCUPANCY TYPE:

COUNTY:

PROPERTY OWNER: WESTVIEW CHRISTIAN CHURCH OF SANTA ROSA,

A CALIFORNIA CORPORATION

3950 DOUBLES DRIVE SANTA ROSA, CA 95407

U, (UNMANNED COMMUNICATIONS FACILITY)

APPLICANT: VERIZON WIRELESS

2785 MITCHELL DRIVE, BLDG 9

WALNUT CREEK, CA 94598

SITE ACQUISITION COMPANY: EPIC WIRELESS GROUP, INC

605 COOLIDGE DRIVE, SUITE 100 FOLSOM, CA 95630

LEASING CONTACT: CHARLENE SCHLAGER

(773) 732-5497

CHARLENE.SCHLAGER@EPICWIRELESS.NET

ZONING CONTACT: JOSH JORDAN

(916) 704-0897 JOSH. JORDAN@EPICWIRELESS.NET

CONSTRUCTION CONTACT:

S_{DS}: 1.341

JOSH JORDAN (916) 704-0897

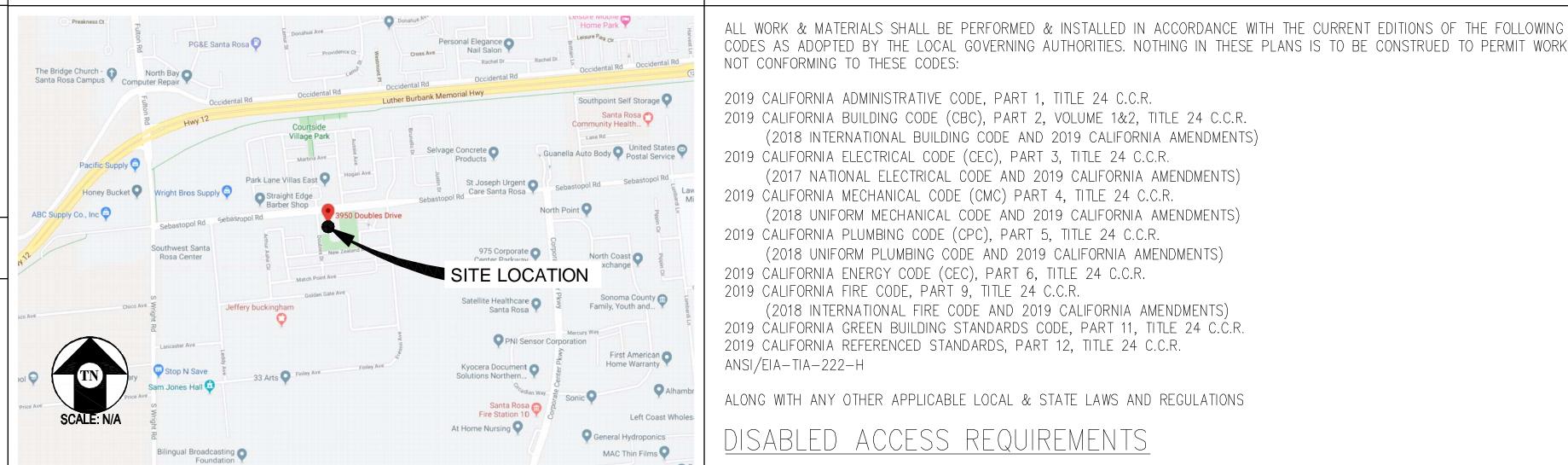
JOSH.JORDAN@EPICWIRELESS.NET

RISK CATEGORY: II ROOF LIVE LOAD: N/A WIND EXPOSURE: B SEISMIC SITE CLASS: D

S_{n1}: N/A

DESIGN WIND SPEED: Vult. 95 MPH SEISMIC DESIGN CATEGORY: E

VICINITY MAP



DRIVING DIRECTIONS

FROM: 2785 MITCHELL DRIVE, BLDG 9, WALNUT CREEK, CA 94598 3950 DOUBLES DRIVE, SANTA ROSA, CA 95407

HEAD NORTHEAST ON MITCHELL DR TOWARD OAK GROVE RD 0.2 MI USE THE LEFT 2 LANES TO TURN LEFT ONTO OAK GROVE RD 0.5 MI2.2 MI USE THE LEFT 2 LANES TO TURN LEFT ONTO TREAT BLVD TURN RIGHT ONTO BUSKIRK AVE 0.2 MI 390 FT USE THE LEFT LANE TO TAKE THE INTERSTATE 680 N RAMP 1.8 MI MERGE WITH I-680 N 5.9 MI KEEP LEFT AT THE Y JUNCTION TO STAY ON I-680 N 0.1 MI KEEP LEFT AT THE Y JUNCTION TO CONTINUE ON I-680 1.8 MI KEEP RIGHT AT THE Y JUNCTION TO STAY ON I-680 USE THE LEFT 2 LANES TO TAKE EXIT 58A FOR INTERSTATE 780 TOWARD BENICIA/VALLEJO 6.0 MI CONTINUE ONTO I-780 W 0.3 MI TAKE EXIT 1B TOWARD SACRAMENTO 2.8 MI MERGE WITH I-80 E TAKE EXIT 33 FOR CA-37 TOWARD NAPA 0.8 MI 15.5 MI CONTINUE ONTO CA-37 W TURN RIGHT ONTO LAKEVILLE HWY 11.1 MI 0.3 MI TURN RIGHT TO MERGE WITH US-101 N 15.5 MI MERGE WITH US-101 N USE THE 2ND FROM THE RIGHT LANE TO TAKE EXIT 488B TO MERGE WITH CA-12 W TOWARD SEBASTOPOL 0.4 MI 3.0 MI MERGE WITH CA-12 W TURN LEFT ONTO N WRIGHT RD 0.2 MI 0.4 MI TURN LEFT ONTO SEBASTOPOL RD TURN RIGHT ONTO DOUBLES DR 180 FT SITE WILL BE ON THE LEFT END AT: 3950 DOUBLES DRIVE, SANTA ROSA, CA 95407

CHEET INDEX

ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B-203.5

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN

(2018 INTERNATIONAL BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)

(2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

CODE COMPLIANCE

| | SHEET INDEX | |
|-------|---------------------------|-----|
| SHEET | DESCRIPTION | REV |
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| T-1 | TITLE SHEET | _ |
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| A-1 | SITE PLAN | _ |
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DESIGN CRITERIA

ALLOW SOIL BEARING: N/A FLOOR LIVE LOAD: N/A GROUND ELEVATION: TOPOGRAPHIC CATEGORY: a_n: 1.0 R_P: 2.5 SEISMIC COMPONENT Ip: 1.0 S₁: 0.634 S_s: 1.676

ESTIMATED TIME: 1 HOUR 12 MINUTES ESTIMATED DISTANCE: 69.9 MILES

RESOLUTION NO. DR20-023

RESOLUTION OF THE ZONING ADMINISTRATOR OF THE CITY OF SANTA ROSA APPROVING A DESIGN REVIEW APPLICATION FOR CELL TOWER MODIFICATION FOR THE PROPERTY LOCATED AT 3950 DOUBLES DRIVE, SANTA ROSA, APN: 035-700-078

The Santa Rosa Zoning Administrator has completed its review of your application. Please be advised that your Design Review to screen six RRUs (Remote Radio Units) on the outside of an existing church steeple and installation of a new chain link cover over the existing outdoor equipment area has been granted based on your project description and official approved exhibit dated May 5, 2020. The Santa Rosa Zoning Administrator has based this action on the following findings:

- The design and layout of the proposed development is of superior quality and is consistent with the General Plan and the City's Design Guidelines and the matter has been properly noticed as required by Section 20-52.050.E.2.a and no request for a public hearing has been received;
- The design is appropriate for the use and location of the proposed development and achieves the goals, review criteria and findings for approval as set forth in the Framework of Design Review;
- The design and layout of the proposed development will not interfere with the use and enjoyment of neighboring existing or future developments in that the exterior addition to the steeple will not be a visual nuisance and the new chain link cover over equipment area will prevent unauthorized entry;
- The architectural design of the proposed development is compatible with the character of the surrounding neighborhood in that the exterior change is well integrated into the design of the existing building, and is of similar color and style to surrounding buildings;
- The design of the proposed development will provide a desirable environment for its occupants, visiting public, and its neighbors through the appropriate use of materials, texture, and color and would remain aesthetically appealing and be appropriately maintained;
- The proposed development will not be detrimental to the public health, safety, or welfare or materially injurious to the properties or improvements in the vicinity;
- The proposed project has been reviewed in compliance with the California Environmental Quality Act (CEQA) and qualifies for a Class 1 exemption under Section 15301 in that the proposed project consist of minor alterations to an existing structure.

This entitlement would not be granted but for the applicability and validity of each and every one of the below conditions and that if any one or more of the below conditions is invalid, this entitlement would not have been granted without requiring other valid conditions for achieving the purposes and intent of such approval. The approval of the project is contingent upon compliance with all the conditions listed below. Use shall not commence until all conditions of approval have been complied with. Additional permits and fees are/may be required. It is the responsibility of the applicant to pursue and demonstrate compliance.

- 1. Obtain a building permit for the proposed project.
- 2. Construction hours shall be limited to 7:00 a.m. to 7:00 p.m. Monday through Friday and 8:00 a.m. to 6:00 p.m. Saturdays. No construction is permitted on Sundays and
- 3. Comply with all applicable federal, state, and local codes. Failure to comply may result in issuance of a citation and/or revocation of approval.
- 4. Comply with the latest adopted ordinances, resolutions, policies, and fees adopted by the City Council at the time of building permit review and approval.
- 5. Comply with Santa Rosa Engineering and Development Services conditions attached hereto and incorporated here as Exhibit "A", dated July 7, 2020.
- 6. The Building Permit application shall be revised, subject to the project planner's approval, to
 - a. Relocate the RRU box to the south side of the tower.
 - b. Increase the equipment enclosure wall height so that it will screen the chain link cover from public view from the street.

This Design Review for minor modification to an existing steeple is hereby approved on this 16th day of July 2020. If conditions have not been met or if work has not commenced within two years from approval date, this approval shall automatically expire and shall be invalid unless an application for extension is filed prior to expiration. The approval is subject to appeal within ten calendar days from the date of approval.

APPROVED:

ANDY GUSTAVSON, ZONING ADMINISTRATOR

Resolution No. Page 2 of 2

ZA_RES_DR20-023

Final Audit Report

Created: 2020-07-16

Kimberly Hopwood (khopwood@srcity.org)

Status:

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"ZA_RES_DR20-023" History

- Document created by Kimberly Hopwood (khopwood@srcity.org) 2020-07-16 - 7:27:15 PM GMT- IP address: 12.249.238.210
- Document emailed to Andy Gustavson (agustavson@srcity.org) for signature
- 2020-07-16 7:27:45 PM GMT
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Adobe Sign

WRIGHT (RRU COOLING)

283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407







| ISSUE STATUS | | | S |
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| Δ | DATE | DESCRIPTION | REV. |
| | 01/30/20 | CD 90% | I,M. |
| | 02/28/20 | CLIENT REV | J.S. |
| | 04/30/20 | CD 100% | B.S. |
| | 08/11/20 | CLIENT REV | B.S. |
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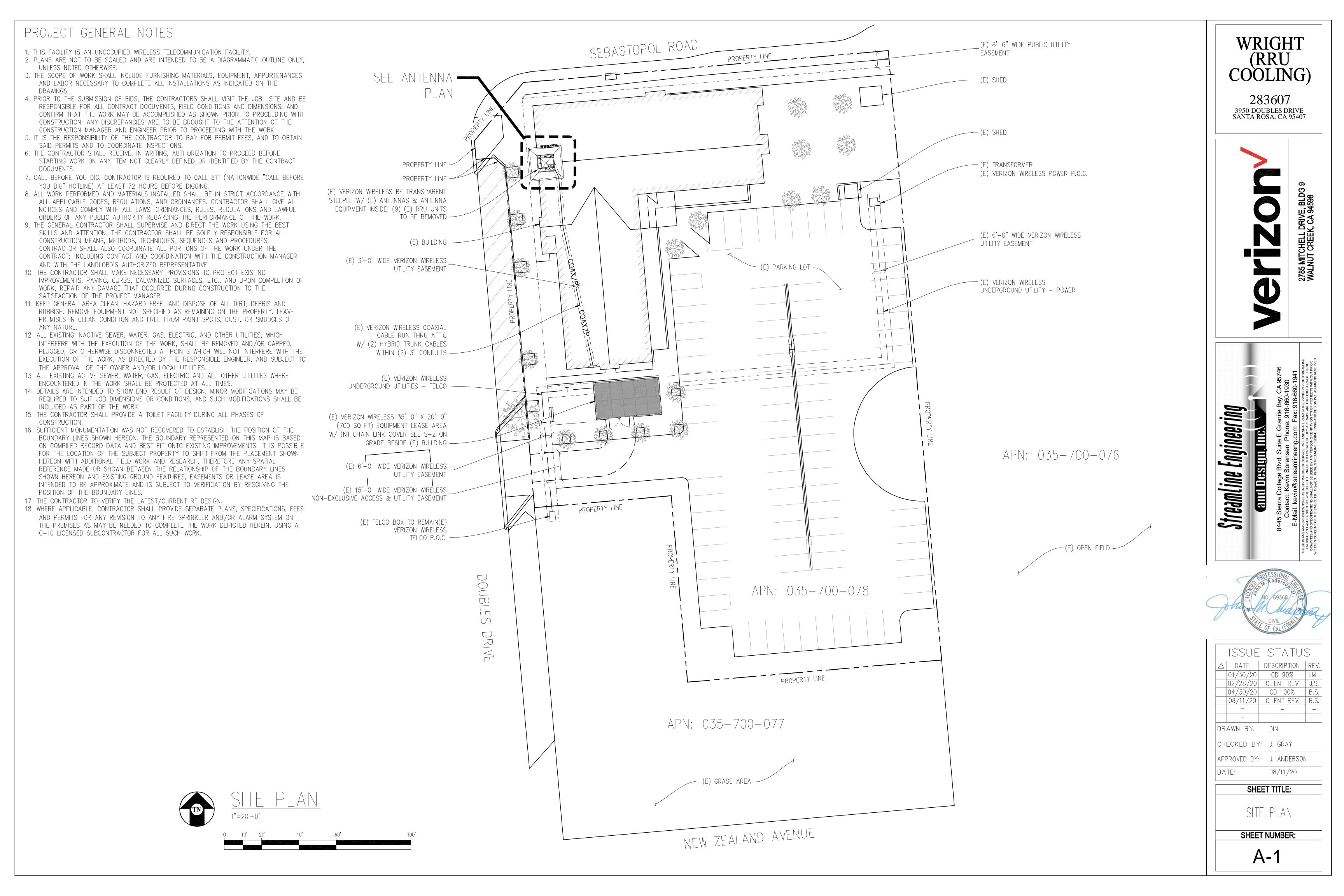
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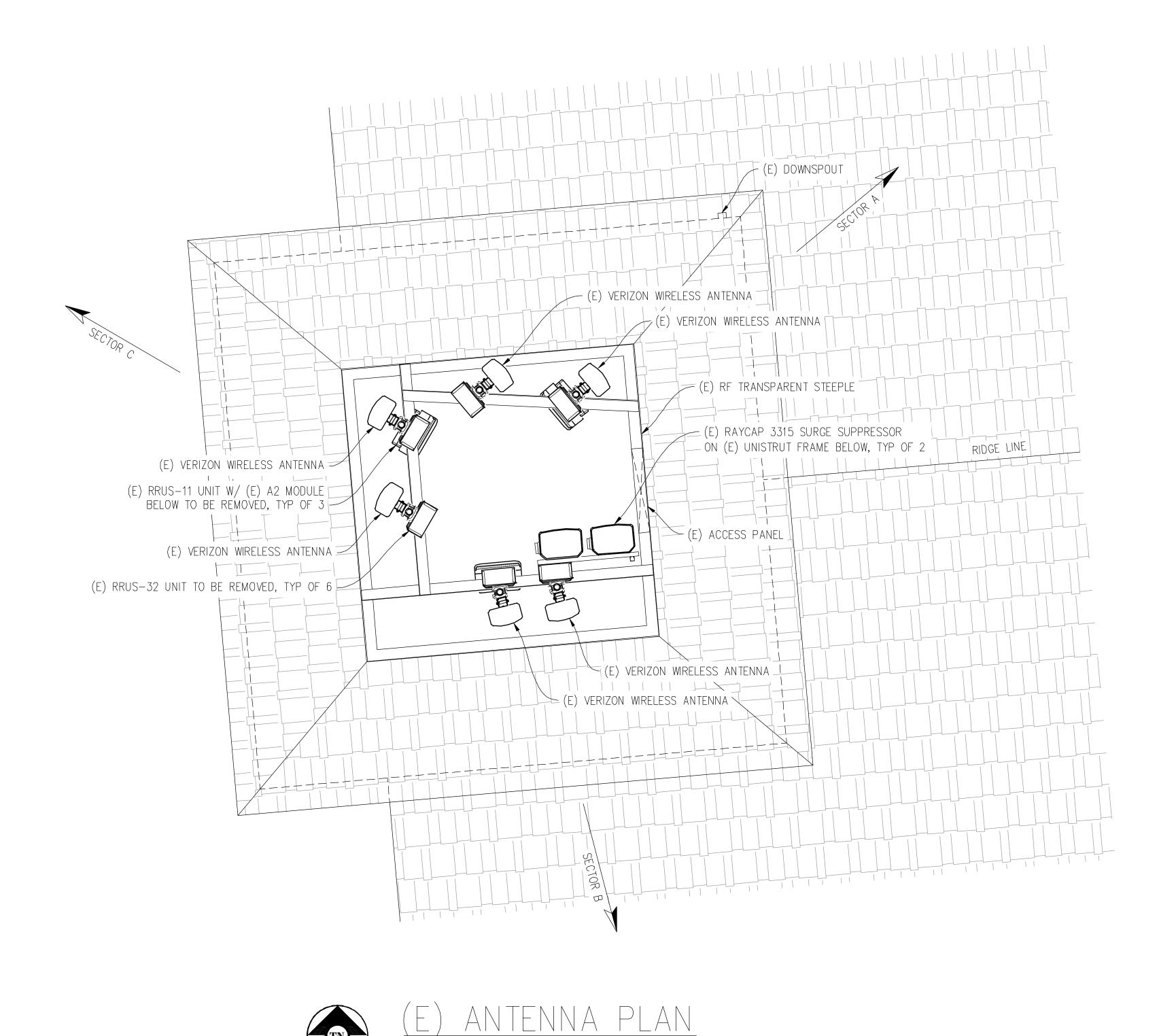
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T-2

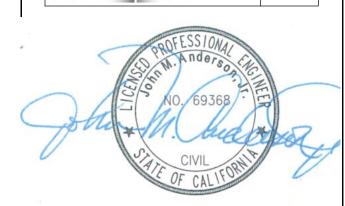




283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407



Engineering sign, mex and Desi Streamline .



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CHECKED BY: J. GRAY

APPROVED BY: J. ANDERSON

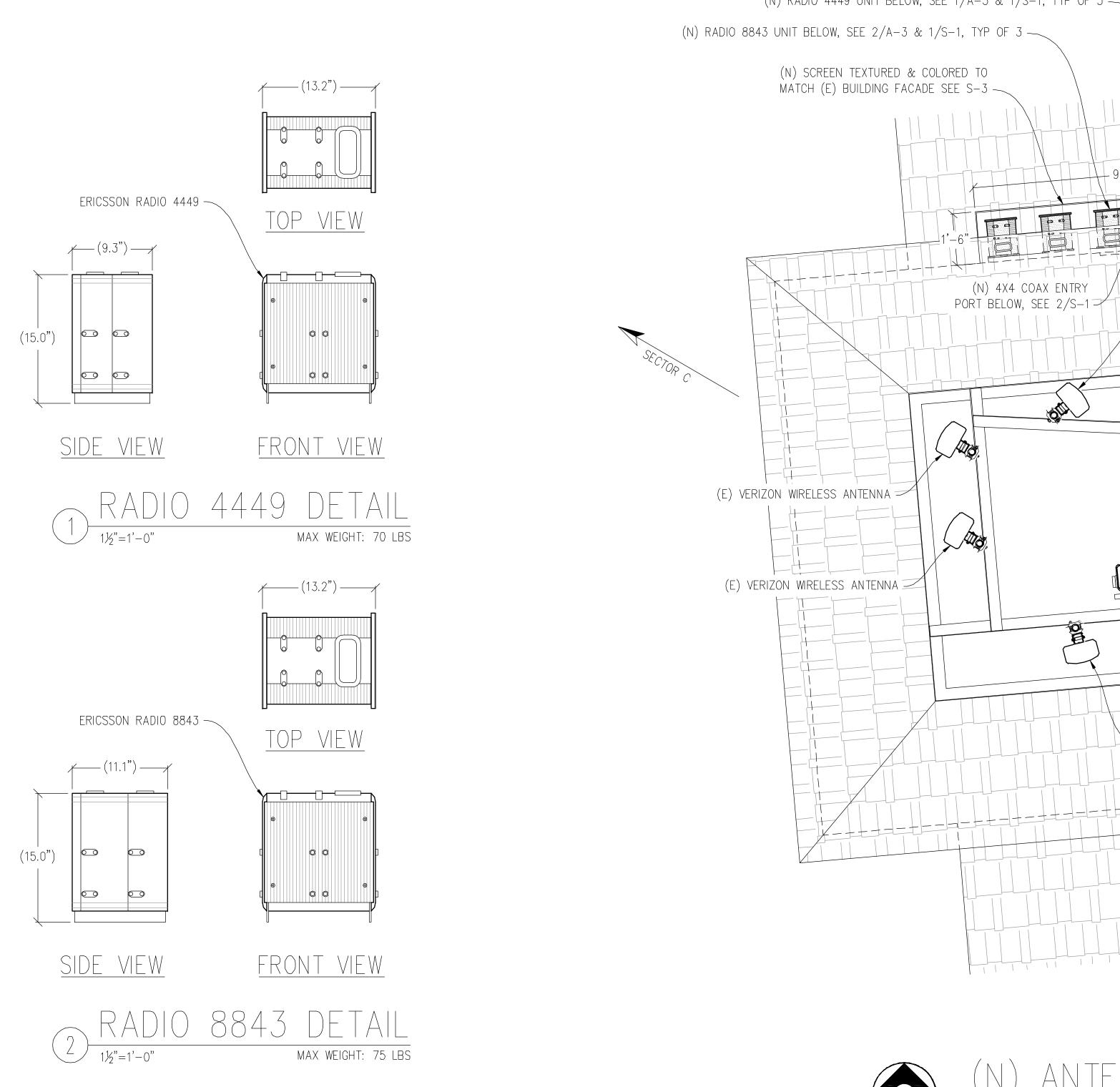
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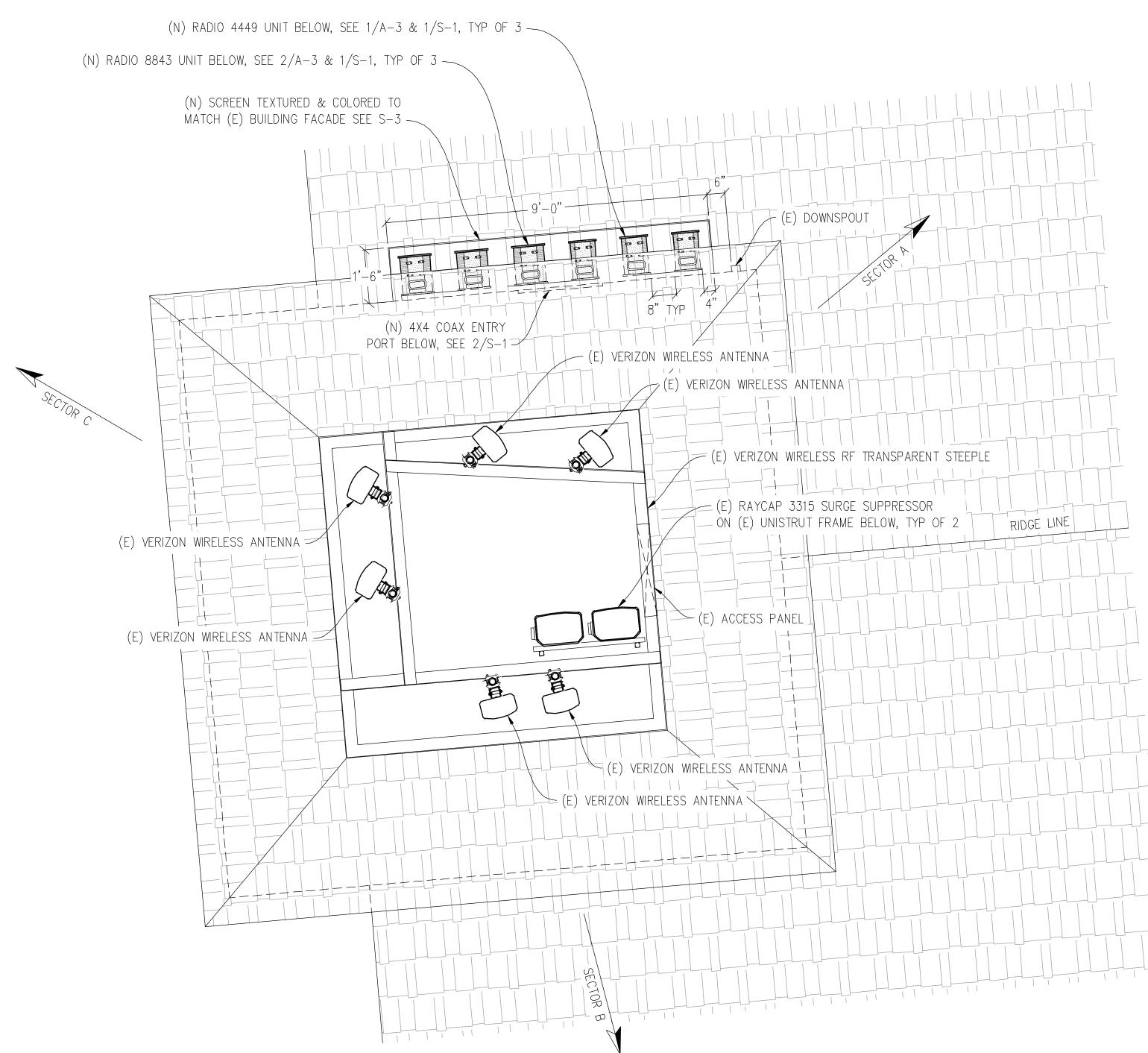
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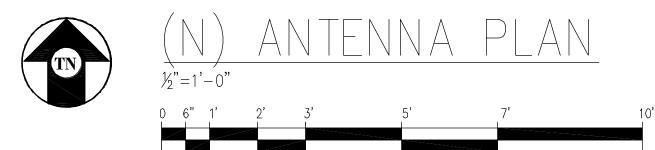
ANTENNA PLAN

SHEET NUMBER:

A-2







283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407



2785 MITCHELL DRIVE, BLDG 9 WALNUT CREEK, CA 94598

Streamline Engineering

8445 Sierra College Blvd, Suite E Granite Bay, CA 95746
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941



| | ISSUE | STATUS | S |
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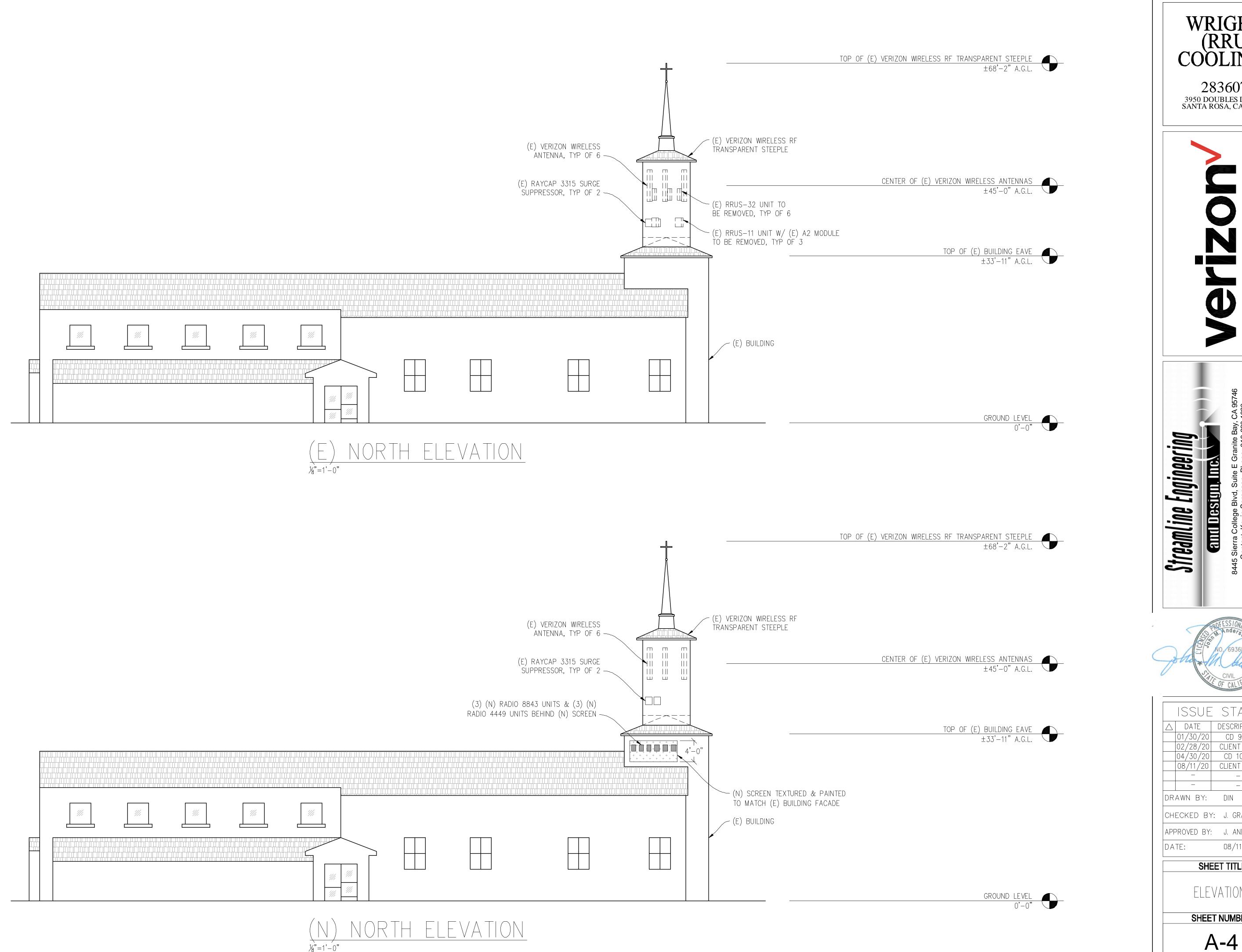
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SHEET TITLE:

ANTENNA PLAN & DETAILS

SHEET NUMBER:

A-3



283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407

2785 MITCHELL DRIVE, BLDG 9 WALNUT CREEK, CA 94598

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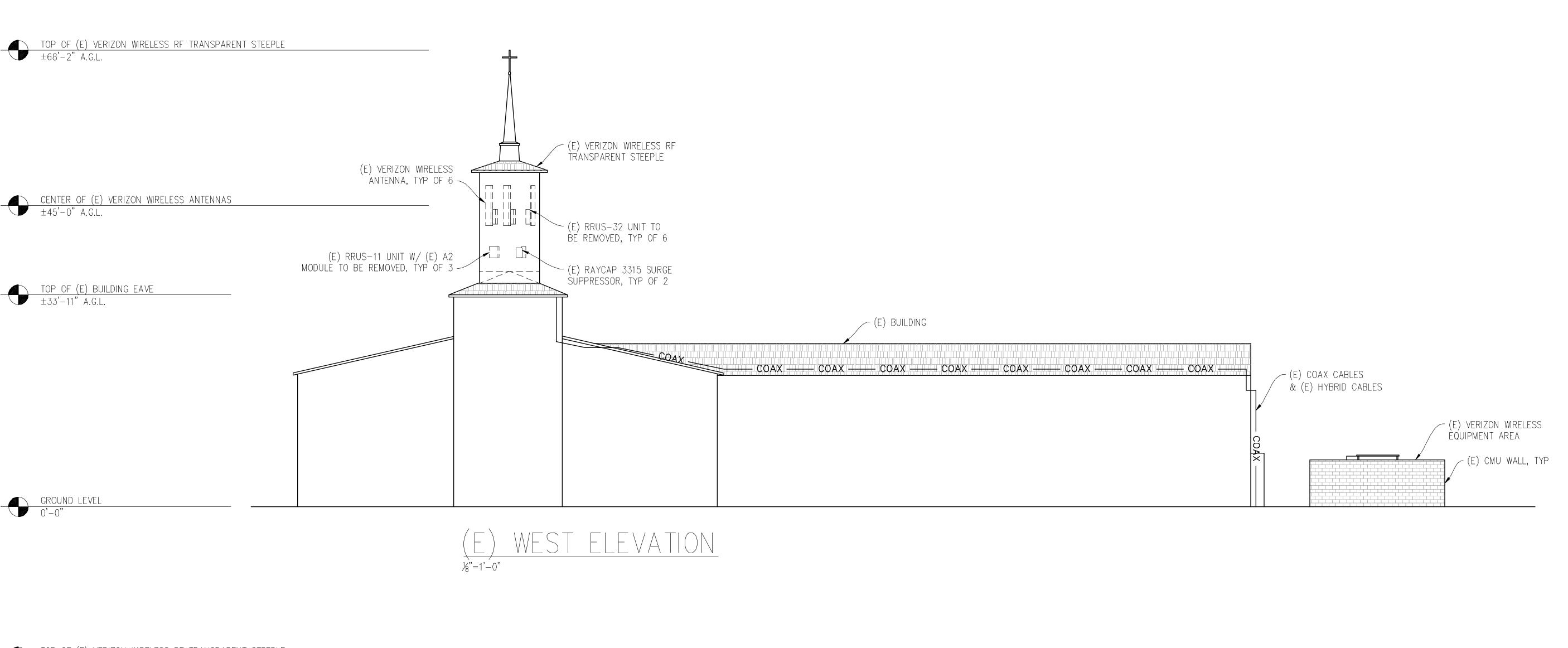
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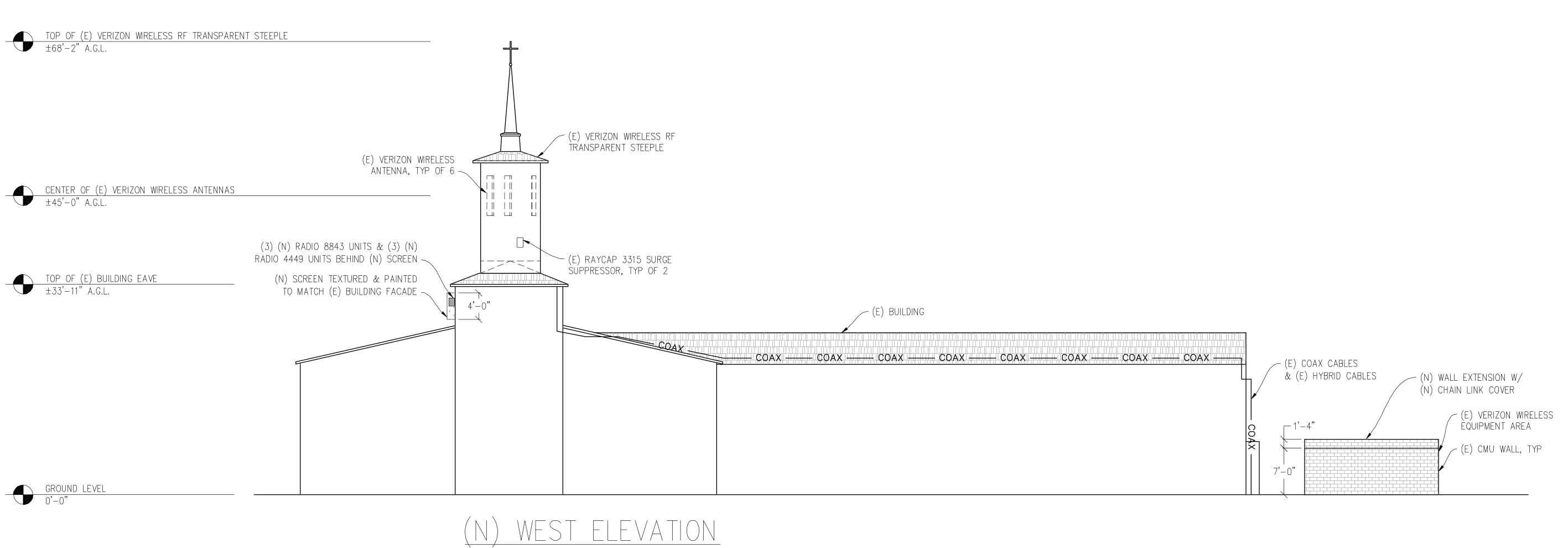
APPROVED BY: J. ANDERSON

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283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407

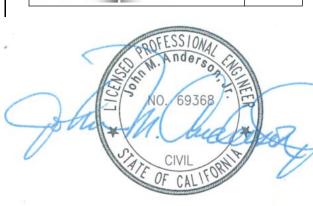
2785 MITCHELL DRIVE, BLDG 9
WALNUT CREEK, CA 94598

Sierra College Blvd, Suite E Granite Bay, CA 95746

Contact: Kevin Sorensen Phone: 916-660-1930

E-Mail: kevin @ streamlineeng.com Fax: 916-660-1941

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A-5

CONSTRUCTION NOTES

- 1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED, MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
- 2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
- 3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2019 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
- 4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
- 5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
- 6. ALL WEATHER PROOFING. INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
- 7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
- 8. CONTRACTOR SHALL ENSURE ALL ROOF AREAS HAVE POSITIVE SLOPE TO ALL EXISTING ROOF DRAINS. PROVIDE ADDITIONAL CRICKETS OR BUILD UP ROOFING AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AROUND ALL NEW CONSTRUCTION INCLUDING ANY CURBS, SLEEPERS, SUPPORT BASES, ETC.

STRUCTURAL STEEL NOTES

- 1. ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2016 AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2019 CBC.
- 2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_{γ} =50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_{γ} =46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_{γ} =35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED
- 3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES UNLESS OTHERWISE NOTED AND SHALL CONFORM TO AISC & AWS D1.4. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- 4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- 5. BOLTS SHALL BE GALVANIZED ASTM F3125/F3125M GRADE A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION IS REQUIRED FOR HIGH STRENGTH BOLTS.
- 6. THREADED RODS SHALL BE ASTM F1554, GR 36 U.O.N. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
- 7. ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HOT DIPPED GALVANIZED WASHERS.
- 8. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- 9. ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- 10. AT ALL WEB STIFFENER PLATES LEAVE ¾"ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.
- 11. BOLTS AND NUTS AT ANTENNA & RRU MOUNTS TO BE ASTM F3125/F3125M GRADE A325 WITH A194M NUTS U.O.N.
- WITH A194M NUTS U.O.N.

 12. ALL NUTS SHALL BE ASTM A563/A563M ALL WASHERS SHALL BE ASTM F436/ F436M.

 13. ALL STRUT MEMBERS USED IN EXTERIOR APPLICATIONS SHALL BE HOT DIPPED GALVANIZED.
- PER ASTM A123 OR ASTM A153.

 14. ALL STAINLESS STEEL BOLTED CONNECTIONS SHALL BE ASTM F593-17 ALLOY GROUP 1 OR 2 AND STAINLESS STEEL NUTS SHALL BE ASTM F594-09 (2015).

FRP NOTES

- 1. FRAMING MEMBERS IN FRONT OF ANTENNA HORIZONTAL BEAM WIDTH SHALL BE ASSEMBLED W/ FRP STRUCTURAL MEMBERS & FASTENERS ONLY.
- 2. FRP STRUCTURAL FRAMING MEMBERS ARE TO HAVE THE FOLLOWING MINIMUM DESIGN SPECIFICATIONS:

F_b LONGWISE FLEXURAL STRESS W/ F.S.=3.0 10 KSI E MODULUS OF ELASTICITY 2600 KSI 3. FRP PANELS ARE TO HAVE THE FOLLOWING MINIMUM SPECIFICATIONS:

FRP PANELS ARE TO HAVE THE FOLLOWING MINIMUM SPECIFICATIONS:

F_b CROSSWISE FLEXURAL STRESS W/ F.S.=3.0 5 KSI

CROSSWISE FLEXURAL MODULUS 1100 KSI

4. FRP BOLTING MINIMUM SINGLE SHEAR ALLOWABLE VALUES: $\emptyset \frac{1}{4}$ " $\frac{6}{6}$ NYLON BOLT; V=67# FS=3.0 $\frac{6}{2}$ " FRP THREADED ROD & NUT; V=650# FS=4.0

- Ø% FRP THREADED ROD & NUT; V=950# FS=4.0
 5. PRIME & PAINT ALL FRP SURFACES PER THE FOLLOWING PROCESS:
 - A. CLEAN SCREEN W/ DENATURED ALCOHOL

 B. APPLY BONDZ BONDING PRIMER OR EQUIV. LET CURE 24 HRS.

 C. APPLY DRYVIT DRR FINISH TO MATCH (F) BLOG FINISH TEXTURE
 - C. APPLY DRYVIT DPR FINISH TO MATCH (E) BLDG FINISH TEXTURE.

 D. PAINT TO MATCH EXISTING BLDG FINISH COLOR.

CONCRETE NOTES

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318—14. CONCRETE MIX DESIGN SHALL BE REVIEWED BY AN INDEPENDENT TESTING LABORATORY AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW
- FOR REVIEW.

 2. CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
- 3. ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- 4. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
- 5. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
- 6. ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
- 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
- 8. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
- 9. MINIMUM LAP SPLICE SHALL BE 56 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- 10. MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED 11. MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.
- 12. CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED NON EXPANSIVE SOIL AT DEPTH SHOWN.
 WHERE OTHER CONDITIONS ARE ENCOUNTERED DURING EXCAVATION THE ENGINEER SHALL BE
 NOTIFIED AND REMEDIAL MEASURES PRESCRIBED PRIOR TO PROCEEDING WITH WORK.
- 13. BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL. REMOVE ALL DEBRIS BEFORE PLACING ANY CONCRETE.
- 14. ALL ANCHOR BOLTS & THREADED ROD SHALL BE ASTM F1554, GR.36 MINIMUM UNLESS OTHERWISE NOTED, NEW, & WITHOUT SIGNIFICANT RUST.
- 15. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
- 16. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
- 17. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS

CONCRETE CORE/DRILLING NOTES

- 1. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED OR POST-TENSIONED REINFORCED CONCRETE (MILD REINFORCED), USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. WHEN INSTALLING ANCHORS INTO (E) PRE-STRESSED OR POST-TENSIONED CONCRETE LOCATE THE PRE-STRESSED OR POST-TENSIONED TENDONS BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, AT POINT OF PENETRATION, PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- 2. WHEN CORING EXISTING REINFORCED CONCRETE OF ANY CONSTRUCTION TYPE (PRE-STRESSED, POST-TENSIONED OR MILD REINFORCED), LOCATE THE EXISTING REINFORCING BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, PRIOR TO CORING. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING ANY REINFORCING DURING CORING. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE CORE. THE MAXIMUM SIZE OF ANY CORE IS TO BE 6" DIAMETER AND THE MINIMUM SPACING BETWEEN CORES IS TO BE TWICE THE CORE DIAMETER (I.E. 12" SPACING FOR A 6" DIAMETER CORE).
- 3. INSPECTOR IS TO BE PRESENT DURING ALL CORE DRILLING OPERATIONS TO VERIFY THAT NO REINFORCING CABLES, TENDONS, OR REBAR HAVE BEEN CUT. (SEE NOTE 5 BELOW)
- 4. THE INSPECTOR SHALL SUBMIT A WRITTEN REPORT TO THE OWNER.
- 5. THE INSPECTIONS INDICATED IN NOTES 3 AND 4 ABOVE ARE NOT REQUIRED FOR A CONCRETE FILL OVER METAL DECK APPLICATION WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.

EXPANSION & EPOXY ANCHORS

- 1. EXPANSION AND EPOXY ANCHORS SHALL BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE (CBC).
- 2. ALL ANCHORS PROVIDED SHALL BE INCLUDED IN EVALUATION REPORTS OF THE INTERNATIONAL CODE COUNCIL (ICC), AND SHALL BE EVALUATED FOR 2018 IBC MINIMUM REQUIREMENTS IN THE ICC REPORT
- 3. CONCRETE EXPANSION ANCHORS SHALL BE KWIK BOLT TZ BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR—1917 OR APPROVED EQUIVALENT.
- 4. CMU EXPANSION ANCHORS SHALL BE KWIK BOLT TZ BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3785 OR APPROVED EQUIVALENT. ANCHORS SHALL BE INSTALLED A MINIMUM OF 13/8" FROM ANY VERTICAL MORTAR JOINT TYPICAL. ANCHORS TO BE SPACED 8 INCHES ON CENTER MINIMUM AND LIMITED TO ONE ANCHOR PER CELL.
- 5. CONCRETE ADHESIVE EPOXY ANCHORS SHALL BE HIT RE-500 V3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3814 OR APPROVED EQUIVALENT.
- 6. GROUT FILLED CMU ADHESIVE EPOXY ANCHORS SHALL BE HIT—HY 200 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR—3963 OR APPROVED EQUIVALENT.
- 7. INSTALL EXPANSION AND EPOXY ANCHORS WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE 2019 CBC, TABLE 1705.3, AND ALL REQUIREMENTS OF THE MANUFACTURER, THE MANUFACTURER'S ICC APPROVAL AND THESE DRAWINGS.
- 8. EXPANSION ANCHORS SHALL BE 304/316 STAINLESS STEEL U.O.N. EPOXY ANCHOR THREADED ROD SHALL BE ASTM F593 CW1 (316) (¼" TO %") OR F593 CW2 (316) (¾" TO 1½") STAINLESS STEEL
- U.O.N.

 9. LOCATE AND AVOID REINFORCEMENT AND OTHER EMBEDDED ITEMS WHEN INSTALLING ANCHORS, TYPICAL. SEE CONCRETE CORE DRILLING NOTES FOR ADDITIONAL INFORMATION.
- 10. THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE AND DIMENSIONS, CONCRETE MEMBER THICKNESS, ANCHOR SPACING, EDGE DISTANCES, TIGHTENING TORQUE, HOLE DIAMETER, DEPTH AND CLEANLINESS, ANCHOR EMBEDMENT AND ADHERENCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE NOTE 11 BELOW FOR FREQUENCY OF INSPECTIONS.
- 11.50% OF ALL ANCHORS, INCLUDING ALTERNATE BOLTS IN A GROUP OF ANCHORS, SHALL BE INSPECTED PER NOTE 10 ABOVE AND TORQUE TESTED PER THE ICC REPORT TEST VALUES NOTED BELOW:

KB TZ:

CONCRETE TORQUE TEST VALUES:

3/8"=25 FT LB ½"=40 FT LB 5/8"=60 FT LB 3/4"=110 FT LB

CMU TORQUE TEST VALUES:

½"=25 FT LB

EPOXY ANCHOR:

CONCRETE TORQUE TEST VALUES:

 $\frac{3}{8}$ "=15 FT LB

(CONCRETE TENSION TEST VALUES TO BE DETERMINED AS NEEDED. A RFI WILL BE ISSUED IF NEEDED DURING CONSTRUCTION TO ESTABLISH THE REQUIRED TENSION TEST VALUES)

 $\frac{1}{2}$ "=35 FT LB $\frac{3}{4}$ "=70 FT LB

<u>LIGHT GAUGE</u> METAL FRAMING

- 1. ALL LIGHT GAUGE METAL FRAMING SHALL BE PER THE REQUIREMENTS OF THE 2019 CBC AND THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI \$100-16/\$1-18 PER CBC CHAPTER 35)
- 2. ALL METAL FRAMING SHALL BE FORMED FROM GALVANIZED STEEL CONFORMING TO ASTM A653 OR ASTM A1011 WITH MINIMUM YIELD STRENGTH OF 33KSI FOR 43 MILS (18GA) AND LIGHTER 50KSI FOR 54 MILS (16 GA) AND HEAVIER, U.O.N. FULLY ENCLOSED WORK OF 14GA OR THICKER MAY BE ASTM A653 SHOP COAT.
- 3. GALVANIZED COATING MUST MEET THE ASTM C955 SPECIFICATION.
- 4. METAL TRACKS SHALL BE THE SAME GAUGE AS FRAMING WHICH IT SUPPORTS, UNLESS NOTED OTHER WISE WITH MINIMUM FLANGE WIDTH OF 1½" AND MINIMUM PROPERTIES AS SHOWN IN THE LIGHT GAUGE METAL FRAMING SCHEDULE.
- 5. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CBC AND THE STRUCTURE WELDING CODE-SHEET STEEL OF THE AMERICAN WELDING SOCIETY (AWS D1.4/D1.4M-2017 PER CBC CHAPTER 35).
- 6. FACTORY PUNCH-OUTS FOR STUDS TO BE LOCATED ONLY ALONG THE CENTERLINE OF THE WEBS OF THE MEMBERS AND HAVE A MINIMUM CENTER-TO-CENTER SPACING OF 24".

 PUNCH-OUTS TO HAVE A MAXIMUM WIDTH=HALF THE MEMBER DEPTH (D/2) OR 2½",

 WHICHEVER IS LESS, AND A MAXIMUM LENGTH=4½". LIGHT GAUGE FRAMING MEMBERS SHALL BE CUT SUCH THAT THE MINIMUM DISTANCE BETWEEN THE END OF THE MEMBER AND THE NEAR EDGE OF THE WEB PUNCH-OUT=10".
- 7. ALL HEADER, JOIST & BEAM MEMBERS SHALL BE UN-PUNCHED.

 8. ALL SCREWS SHALL BE TEKS/TRAXX SELF-DRILLING SCREWS BY ITW BUILDX, OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURES INSTRUCTIONS AND RECOMMENDATIONS FOR
- MAXIMUM RATED LOADING CAPACITIES.

 9. ALL SCREWS SHALL BE HOT DIPPED GALVANIZED.

CONCRETE BLOCK MASONRY NOTES

- 1. CONCRETE BLOCK UNITS SHALL CONFORM TO ASTM C-90. COMPRESSIVE STRENGTH OF UNITS TO BE 1000 PSI FOR GROSS AREA AND 1900 PSI FOR NET AREA. F'm = 1500 PSI. F'm SHALL BE VERIFIED IN ACCORDANCE WITH SECTION 2105.1 OF THE 2019 CBC. CONCRETE BLOCK UNITS SHALL BE LIGHTWEIGHT, FULLY GROUTED CONCRETE BLOCK UNITS NOT TO EXCEED 115 PCF.
- 2. MORTAR SHALL BE TYPE S PER CBC SECTION 2103.2 AND ASTM C270 PROPORTIONED TO ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI. USE A MINIMUM OF 1 PART PORTLAND CEMENT TO 1/4-1/2 PART HYDRATED LIME WITH SAND AT 21/2 TO 3 TIMES COMBINED VOLUME OF CEMENT AND LIME. 2" CUBES SHALL TEST 1800 PSI IN 28 DAYS.

 3. GROUT SHALL BE PER CBC SECTION 2103.3 PROPORTIONED TO ATTAIN A 28 DAY
- COMPRESSIVE STRENGTH OF 2500 PSI. USE A MINIMUM OF 1 PART PORTLAND CEMENT TO 3 PARTS SAND. ADD 1 LB. OF SIKA GROUT AIDE TYPE II, OR EQUAL, PER 100 LB. OF CEMENTITIOUS MATERIAL. 1 TO 2 PARTS OF PEA GRAVEL SHALL BE USED WHERE THE LEAST CLEAR CELL DIMENSION EXCEEDS 2 INCHES. NOT MORE THAN 5% OF THE PEA GRAVEL SHALL PASS THE NO. 8 SIEVE AND 100% SHALL PASS THE 3/8" SIEVE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A−615 GRADE 60 FOR #4 AND LARGER.
 MINIMUM REBAR CLEARANCE TO SHELL FACE IS ONE BAR DIAMETER OR ½", WHICHEVER IS GREATER.
- 6. BEFORE BLOCK IS PLACED ON CONCRETE, THOROUGHLY CLEAN CONCRETE OF ALL
- LAITANCE AND ALL LOOSE MATERIAL. ROUGHEN AS IN A CONCRETE CONSTRUCTION JOINT.

 7. CONCRETE BLOCK MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS. ALL HEAD AND END JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. BOND SHALL BE PROVIDED BY LAPPING
- SUCCESSIVE COURSES OR BY EQUIVALENT MECHANICAL ANCHORAGE.

 8. VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL.
- 9. CLEAN OUT OPENINGS AT THE BOTTOMS OF ALL CELLS TO BE FILLED AT EACH LIFT OR POUR OF GROUT WHERE SUCH LIFT OR POUR OF GROUT IS IN EXCESS OF 4'-0" IN HEIGHT. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM INSIDE OF SUCH CELLS. THE CLEAN OUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING. MECHANICALLY VIBRATE ALL GROUT POURS.
- INSPECTION AND BEFORE GROUTING. MECHANICALLY VIBRATE ALL GROUT POURS.

 10. VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT TO EXCEED 192 BAR DIAMETERS.
- 11. THOROUGHLY CLEAN ALL CELLS AND BOND BEAMS OF MORTAR BEFORE GROUTING.

 12. ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT. ALL GROUTING SHALL BE DONE UNDER
- THE CONTINUOUS OBSERVATION OF A QUALIFIED INSPECTOR WHERE INDICATED ON PLANS.

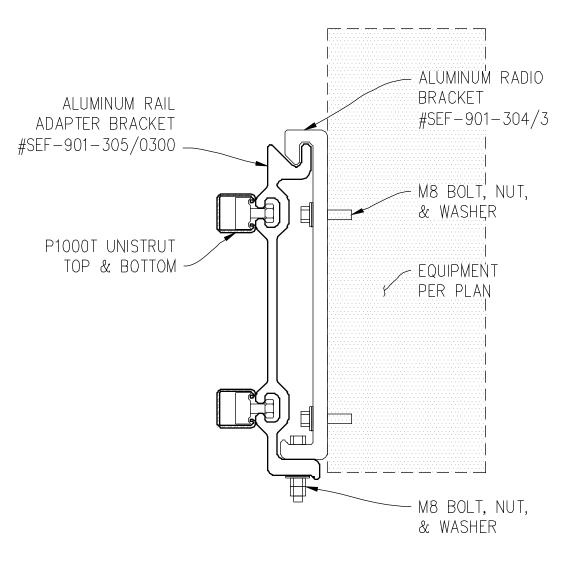
 13. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION

 JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT 1½" BELOW THE TOP OF
- THE UPPERMOST UNIT.

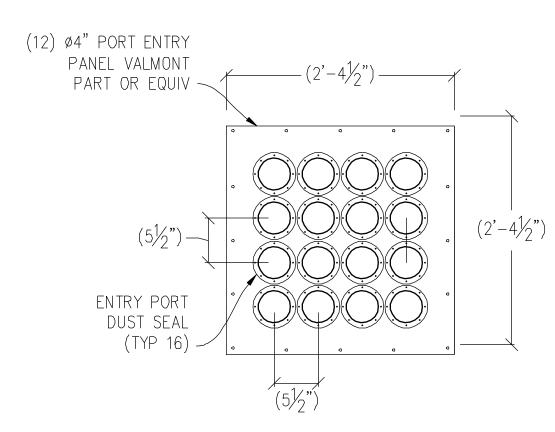
 14. EVERY VERTICAL BAR IN WALLS SHALL BE LAPPED PER #20 BELOW WITH A DOWEL OF THE SAME SIZE EXTENDING FROM THE FOUNDATION. LOCATE VERTICAL REINFORCING AT CENTERLINE OF WALL UNLESS SHOWN OR NOTED OTHERWISE. CARRY EACH DOWEL TO WITHIN 3" OF THE BOTTOM OF THE FOUNDATION AND TERMINATE WITH 90 DEGREE HOOK.
- DOWELS SHALL BE STRAIGHT AND PLUMB.

 15. PLACE ALL HORIZONTAL BARS IN BOND BEAM UNITS. WHEN 2 BARS ARE USED, STAGGER LAPS MINIMUM OF 5'-0".
- 16. PROVIDED 2 #5 BARS WITH MATCHING FOOTING DOWELS (FULL HEIGHT OF WALL AT JAMBS AND EXTENDING A MINIMUM OF 2'-0" PAST EDGES OF OPENINGS AT HEAD AND SILL) EACH SIDE OF ALL OPENINGS AND EACH END OF ALL WALLS, UNLESS NOTED OTHERWISE ON DRAWINGS.
- 17. ALL EMBEDDED ITEMS (BOLTS, STRAPS, ETC.) SHALL BE SECURED IN PLACE PRIOR TO GROUTING. CUT A HOLE IN THE FACE SHELL TO ATTAIN A MINIMUM OF 1" GROUT ALL AROUND EMBEDDED ITEMS.
- 18. SINGLE CONDUITS (34" MAX) MAY BE PLACED IN VERTICAL CELLS NOT CONTAINING VERTICAL REBAR. NO HORIZONTAL CONDUITS ALLOWED IN WALL CONSTRUCTION.
- 19. ANCHOR BOLTS CAST IN MASONRY SHALL BE HEADED BOLTS WITH CUT THREADS CONFORMING TO ASTM A307, ASTM A36, OR ASTM A572 GRADE 50 AS INDICATED ON DRAWINGS
- 20. ALL REBAR SHALL BE LAP SPLICED AS FOLLOWS (U.N.O):

| , , , , , , , , , , , , , , , , , , , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 21020 110 1 0220 110 10 | · · · · · · · · · · · · · · · · · · · |
|---------------------------------------|--|---------------------------|---------------------------------------|
| BAR TYPE | | LAP LENGTH | <u>NOTES</u> |
| VERTICAL B | ARS | 48d | SPLICES FOR MULTIPLE |
| | 5.155 | | BARS IN THE SAME CELL |
| HORIZONTAL | _ BARS | 48d | MUST BE STAGGERED |
| | | | 24" OR LAPPED 62d |
| JAMB BARS | | 72d | SPLICES FOR MULTIPLE |
| | N.C. | 701 | BARS IN THE SAME CELL |
| CHORD BAR | (5 | 72d | MUST BE STAGGERED 24" |
| \/FDTIA | ADC @ | 70.1 | OR LAPPED 94d |
| VERTICAL B | | 72d | |
| ENDS & CC | バいドスク | | |



 $\frac{\text{EQUIPMENT MOUNTING}}{3"=1'-0"}$



NOTE: MOUNTING HARDWARE PROVIDED BY MANUFACTURER





283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407

2785 MITCHELL DRIVE, BLDG WALNUT CREEK, CA 94598



NO. 69368 TESTONAL CIVIL OF CALIFORNIA

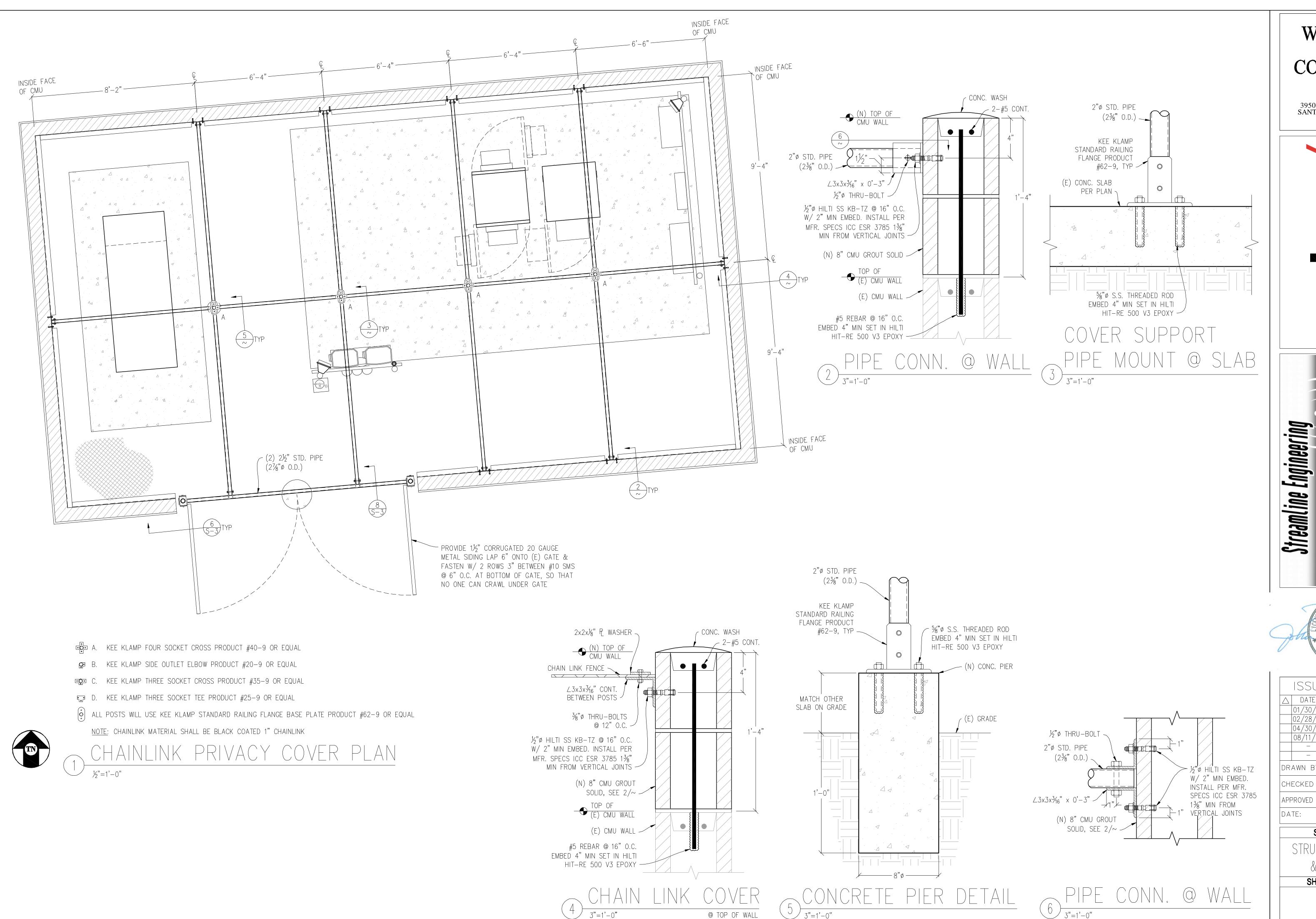
APPROVED BY: J. ANDERSON
DATE: 08/11/20

STRUCTURAL NOTES & DETAILS

SHEET TITLE:

SHEET NUMBER:

S-1



283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407

2785 MITCHELL DRIVE, BLDG 9 WALNUT CREEK, CA 94598

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| | DATE | DESCRIPTION | REV. |
| 01, | /30/20 | CD 90% | LM. |
| 02, | /28/20 | CLIENT REV | J.S. |
| 04, | /30/20 | CD 100% | B.S. |
| 08 | /11/20 | CLIENT REV | B.S. |
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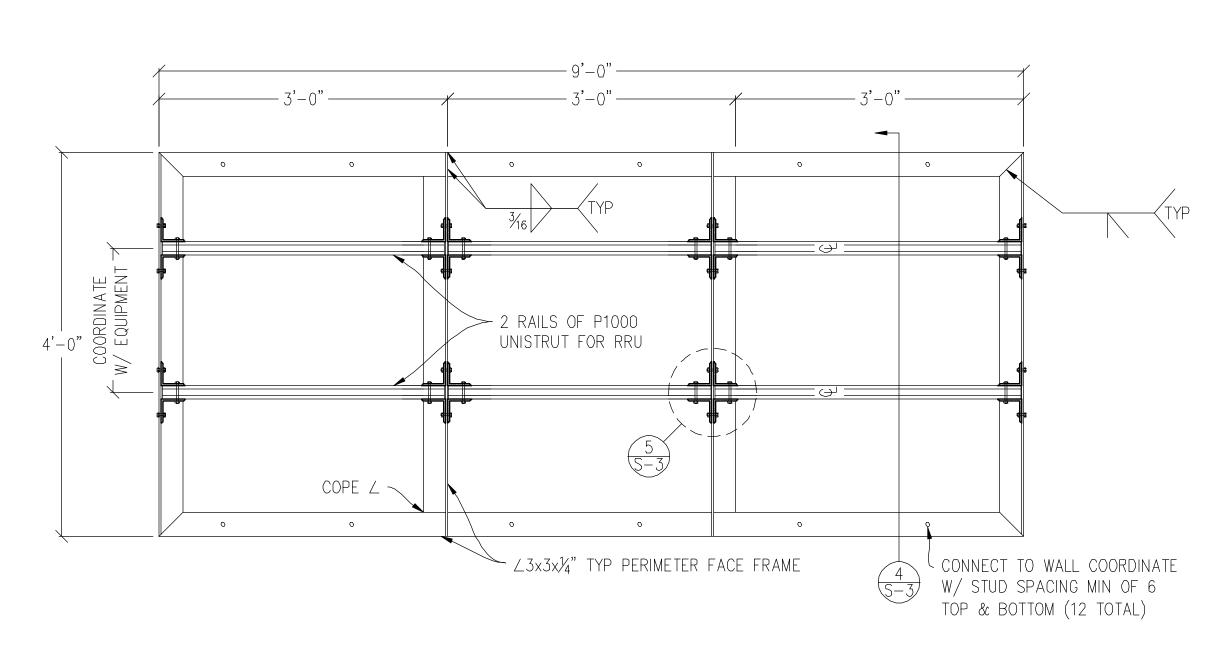
CHECKED BY: J. GRAY

APPROVED BY: J. ANDERSON 08/11/20

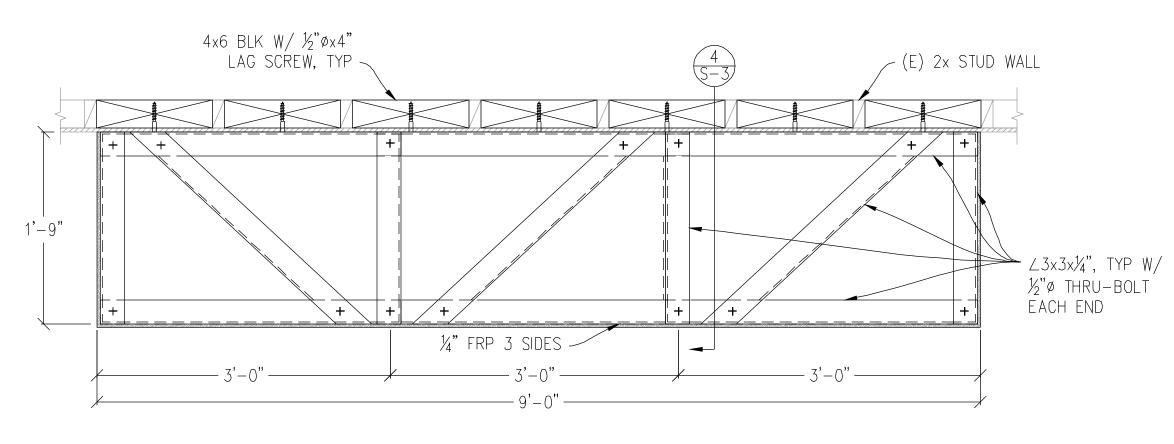
> SHEET TITLE: STRUCTURAL PLAN

& DETAILS SHEET NUMBER:

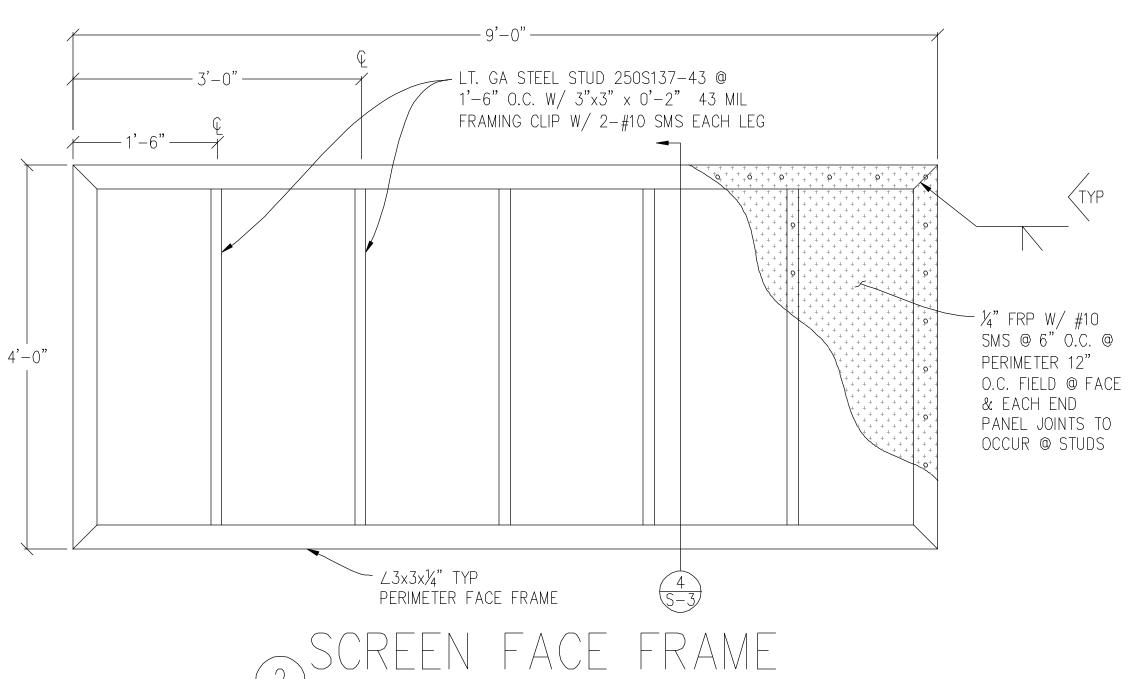
S-2

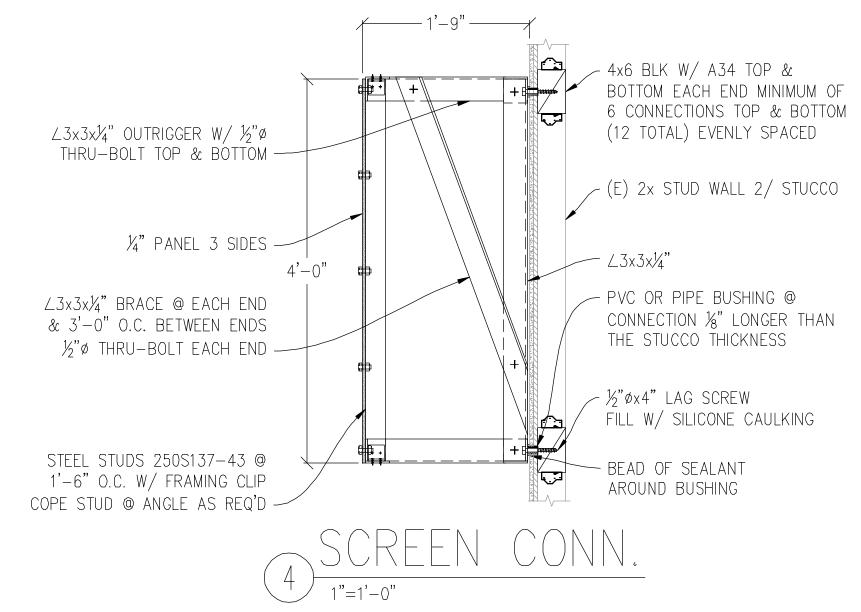


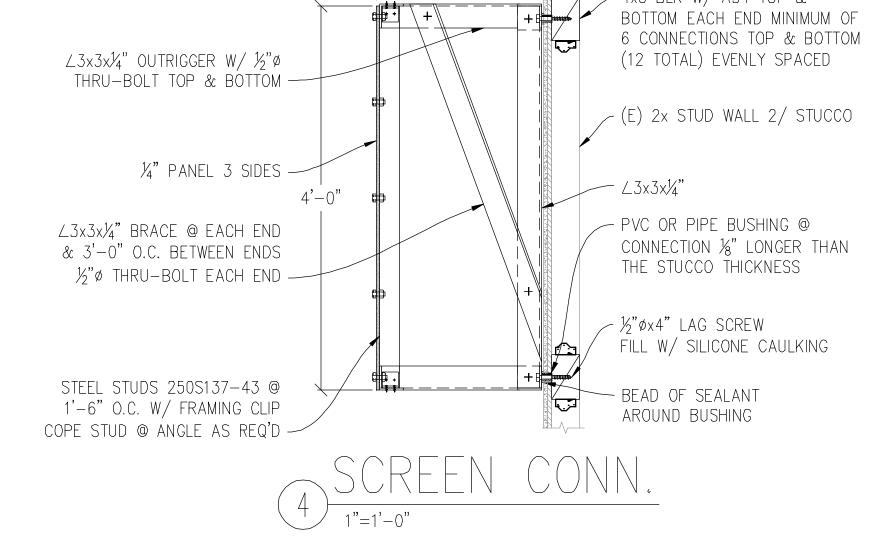
SCREEN WALL FRAME

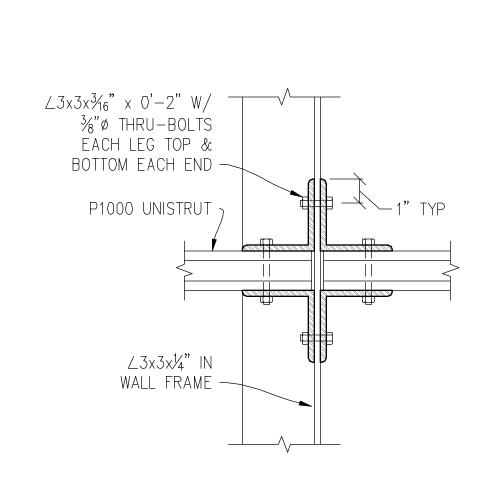


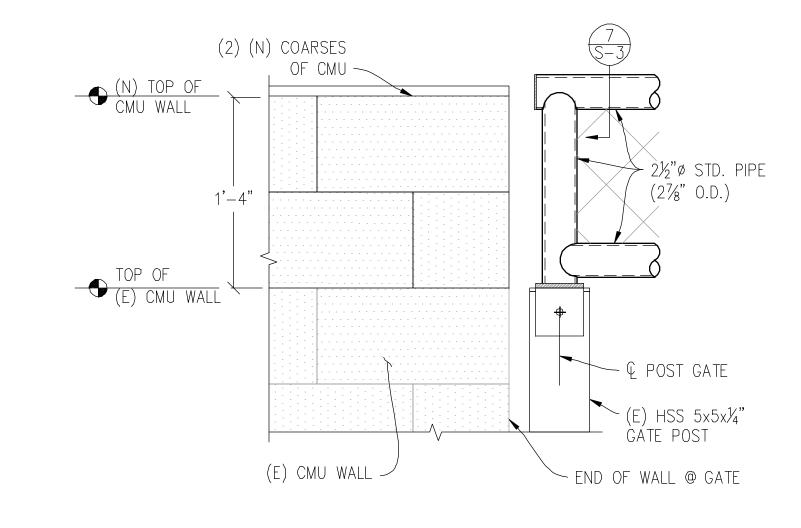
FRAME TOP & BOTTOM



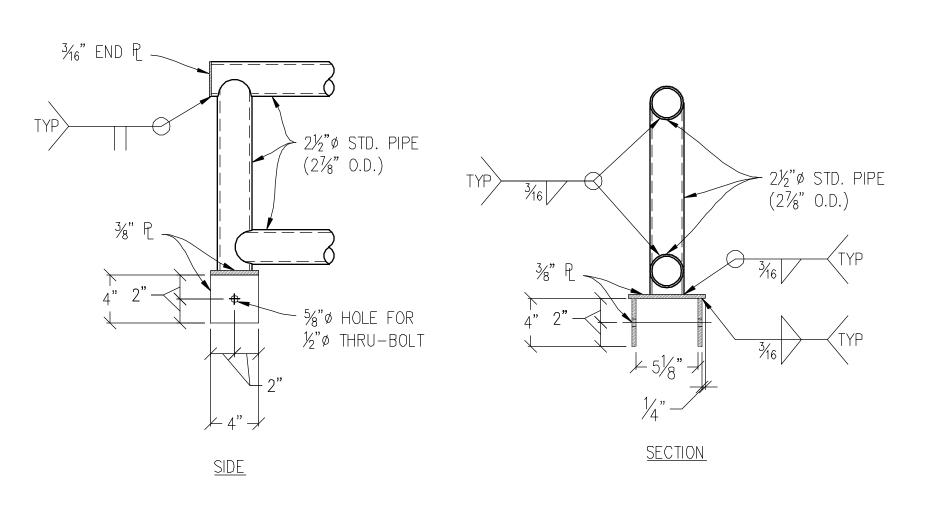




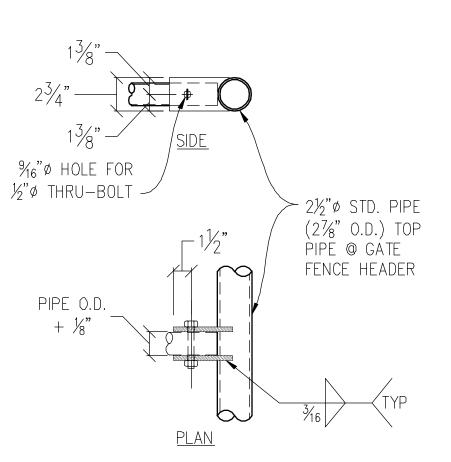












WRIGHT (RRU COOLING)

283607 3950 DOUBLES DRIVE SANTA ROSA, CA 95407

2785 MITCHELL DRIVE, BLDG 9 WALNUT CREEK, CA 94598

Engineering Sign, Inc. and Des Streamline



| ISSUE STATUS | | | | |
|--------------------------|----------|-------------|------|--|
| \triangle | DATE | DESCRIPTION | REV. | |
| | 01/30/20 | CD 90% | LM. | |
| | 02/28/20 | CLIENT REV | J.S. | |
| | 04/30/20 | CD 100% | B.S. | |
| | 08/11/20 | CLIENT REV | B.S. | |
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| | _ | _ | _ | |
| DRAWN BY: DIN | | | | |
| CHECKED BY: J. GRAY | | | | |
| APPROVED BY: J. ANDERSON | | | | |
| | | | | |

08/11/20 DATE:

SHEET TITLE: STRUCTURAL PLAN & DETAILS

> SHEET NUMBER: S**-**3

UNISTRUT CONN.