



CITY OF CAMPBELL
Community Development Department

February 2, 2022

NOTICE OF ADMINISTRATIVE ACTION

Notice is hereby given that the Planning Division of the Community Development Department of the City of Campbell has received an application for the following project proposal:

Project Address: 125 E. Sunnyoaks Ave.

Zoning | Area Plan: M-1 | N/A

Neighborhood Association(s): N/A

File No.: PLN-2021-1

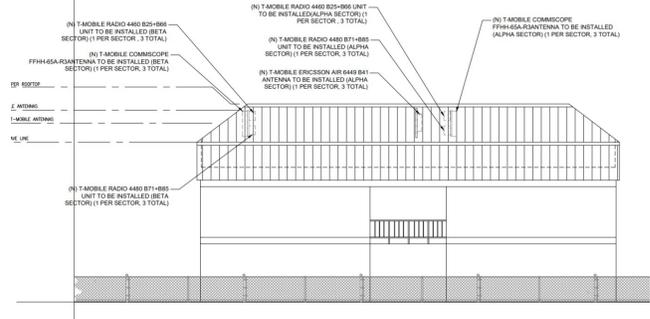
APN: 424-40-003

Applicant: Trish Alexander

Property Owner: Nevada Barrel LLC

Application Type: Administrative Site and Architectural Review Permit

Project Description: Alteration and extension of approval for an existing concealed rooftop T-Mobile wireless telecommunications facility.

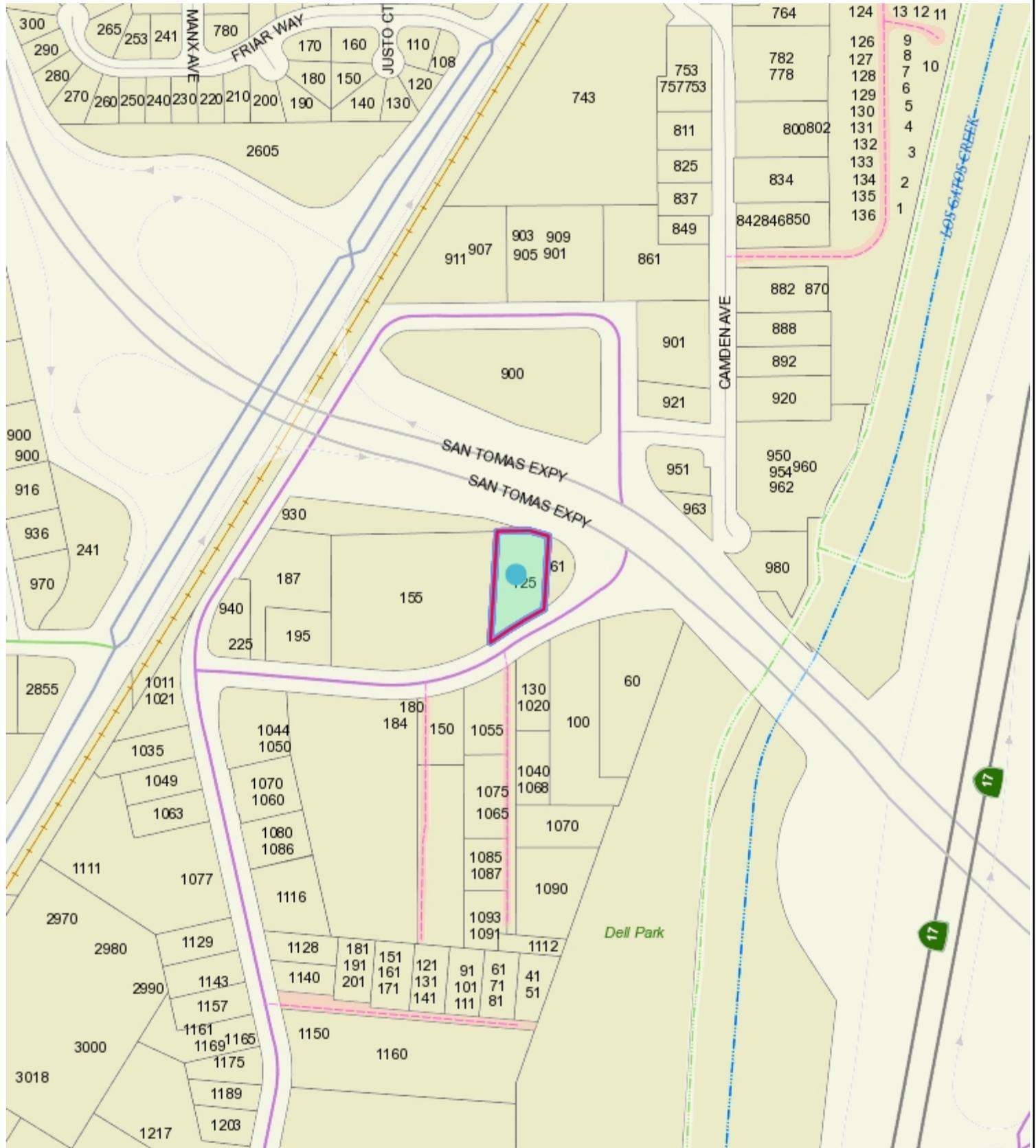


This project will be decided by the Community Development Director and you have the opportunity to provide comment prior to the Director's decision. The ten-day comment period for this application begins on February 2, 2022 and ends on February 12, 2022. Any comments regarding this application must be submitted in writing (including email) to the Planning Division before 5:00 p.m. on **February 14, 2022**. The Director will then consider all comments submitted within this time period prior to a decision. No additional notice will be provided. Please contact the project planner in a timely manner to determine what decision was reached.

Decisions by the Community Development Director are final in 10 calendar days following the date of approval, unless an appeal is received in writing at the City of Campbell Community Development Department, 70 N. First Street, Campbell, prior to the end of the appeal period. A written appeal must be accompanied with the required \$200 appeal filing fee. Plans and architectural drawings may be viewed at the Planning Division office with an appointment during normal business hours (8:00 AM – 5:00 PM) and on the City's 'Public Notices' web page (<http://www.cityofcampbell.com/501/Public-Notices>) under 'Administrative Decisions' or by contacting the project planner. Questions or comments regarding this application may be addressed to Daniel Fama, Senior Planner, in the Community Development Department, at (408) 866-2193 or by email at danielf@campbellca.gov.



Location Map 125 E. Sunnypoaks Ave.



This map is based on GIS Information and reflects the most current information at the time of this printing. The map is intended for reference purposes only and the City and its staff is not responsible for errors.

T-Mobile®

Stick Together®

SITE NUMBER: SF64142S - SPRINT RETAIN CITY: CAMPBELL
SITE NAME: SF64142S COUNTY: SANTA CLARA
SITE TYPE: BUILDING JURISDICTION: CITY OF CAMPBELL



T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214
CLEVELAND, OH 44122

DRAWN BY: AR
CHECKED BY: ZHN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	06/14/21	ISSUED FOR 90% CD REVIEW	AR
B	07/16/21	ISSUED FOR 90% CD REVIEW	BWG
0	07/22/21	100% CDS	BWG

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

CONSTRUCTION DRAWING

IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE

PROJECT SUMMARY:

APPLICANT: T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520

PROPERTY OWNER: ADDRESS: 1275 LINCOLN AVE, STE 12-C
SANJOSE, CA 95122
CONTACT: JAMES BALL
PHONE: TBD

SITE ADDRESS:
125 E SUNNYOAKS AVE
CAMPBELL, CA 95008

PROJECT DESCRIPTION:

REMOVE (1) EXISTING SPRINT BBU CABINET
 REMOVE (1) EXISTING SPRINT MMBTS CABINET
 REMOVE ALL UNUSED HYBRID/COAX CABLE
 REMOVE (6) EXISTING GENERIC DIPLEXERS (2 PER SECTOR)
 REMOVE (3) EXISTING ALPHA WIRELESS AW3266 PANEL ANTENNA (1 PER SECTOR)
 REMOVE (3) EXISTING RFS APXVFR12X PANEL ANTENNA (1 PER SECTOR)
 REMOVE (3) EXISTING SAMSUNG SLS-BD10JQ RRUS (1 PER SECTOR)
 REMOVE (3) EXISTING SAMSUNG SMM-2LD0581900 RRUS (1 PER SECTOR)
 REMOVE (3) EXISTING SAMSUNG SMM-2CR0480800 RRUS (1 PER SECTOR)
 INSTALL (1) NEW 6160 CABINET W/ (1) NRE RBS 6601 WITHIN
 INSTALL (1) NEW B160 CABINET
 INSTALL (3) NEW 6X24 HCS HYBRID TRUNK CABLES (1 - 70M, 2 - 60M)
 INSTALL (3) NEW BB6648
 INSTALL (2) NEW PSU4813 VOLTAGE BOOSTER
 INSTALL (1) DUG20 (GSM)
 INSTALL (1) NEW IXRE ROUTER
 INSTALL (3) NEW COMMSCOPE FFHH-65A-R3 (OCTO) ANTENNAS (1 PER SECTOR)
 INSTALL (3) NEW ERICSSON AIR6449 B41 ANTENNA (1 PER SECTOR)
 INSTALL (3) NEW RADIO 4480 B71+B85 (1 PER SECTOR)
 INSTALL (3) NEW RADIO 4460 B25 B66 (1 PER SECTOR)
 INSTALL STRUCTURAL ROOFTOP MODIFICATION PER SA

APN: 424-40-003
 ZONING: M1-S
 LATITUDE: 37° 16' 21.1296" N (37.27253611°)
 LONGITUDE: 121° 57' 2.739" W (-121.95076110°)
 GROUND ELEVATION: ± 247' AMSL

CONSULTING TEAM:

PROJECT MANAGER: SURESITE CONSULTING GROUP, LLC
3659 GREEN ROAD, SUITE 214
CLEVELAND, OH 44122
CONTACT: HAYLEY BELOZ
PHONE: (310) 493-5568
EMAIL: h.beloz@sure-site.com

PROJECT A&E: SURESITE CONSULTING GROUP, LLC
3659 GREEN ROAD, SUITE 214
CLEVELAND, OH 44122
CONTACT: ZACHARY NESGODA
EMAIL: z.nesgoda@sure-site.com

SITE ACQUISITION: SURESITE CONSULTING GROUP, LLC
3659 GREEN ROAD, SUITE 214
CLEVELAND, OH 44122
CONTACT: TRISH ALEXANDER
EMAIL: t.alexander@sure-site.com

T-MOBILE PROJECT MANAGER: T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520
CONTACT: DOINA FRENTESCU
PHONE: (925) 918-5452
EMAIL: Doina.Frentescu1@T-Mobile.com

T-MOBILE RF ENGINEER: T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520
CONTACT: TBD
PHONE: TBD
EMAIL: TBD

T-MOBILE CONSTRUCTION MANAGER: T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520
CONTACT: AARON AKBARI
PHONE: TBD
EMAIL: Aaron.Akbari@sprint.com

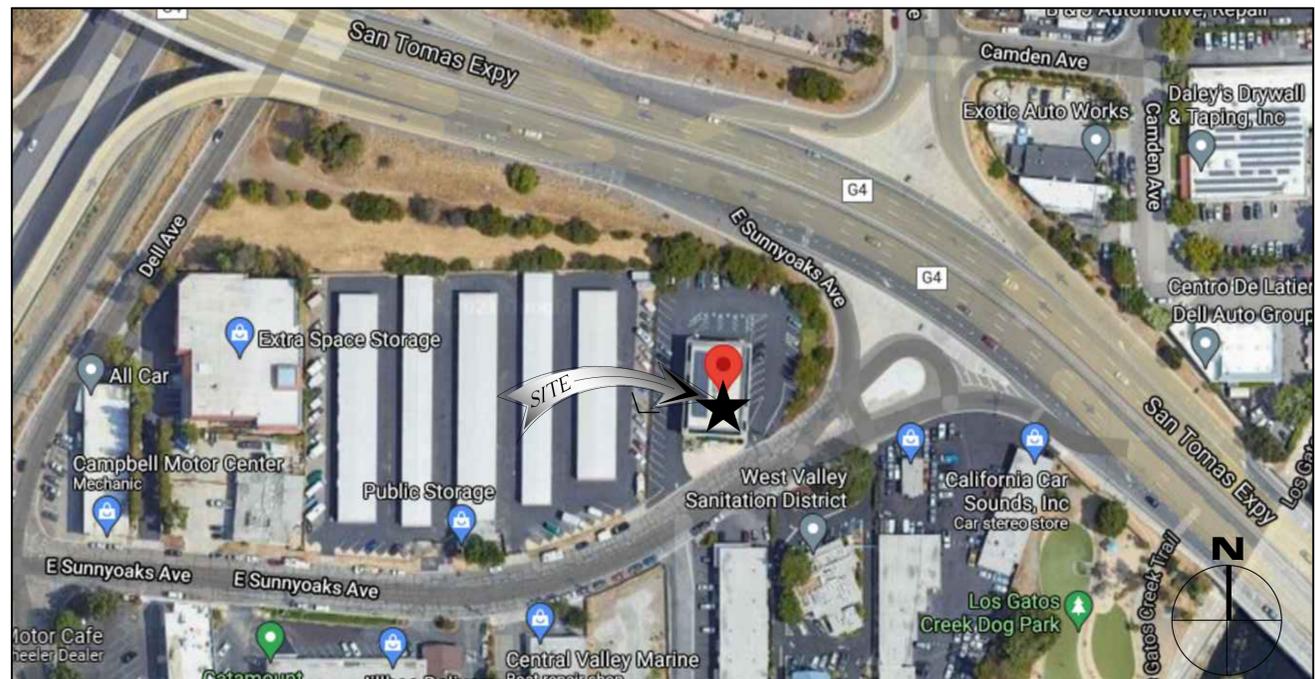
SHEET INDEX:

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T-3	GENERAL NOTES AND SPECIFICATIONS
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APPROVALS:

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD	_____	_____	_____
ZONING REP.	_____	_____	_____
DEVELOP. MGR	_____	_____	_____
CONST. MGR	_____	_____	_____
PROJECT MGR	_____	_____	_____
ZONING MGR.	_____	_____	_____
RF ENGINEER	_____	_____	_____
OPERATIONS	_____	_____	_____
SAC REP.	_____	_____	_____



DIRECTIONS FROM CONCORD T-MOBILE OFFICE:

HEAD WEST TOWARD CLAYTON RD
 TURN LEFT TOWARD CLAYTON RD
 TURN RIGHT ONTO CLAYTON RD
 USE THE RIGHT 2 LANES TO TAKE THE RAMP ONTO CA-242 S
 MERGE WITH CA-242 S, MERGE WITH I-680 S
 TAKE EXIT 12 TO MERGE WITH CA-262 S/MISSION BLVD
 MERGE WITH CA-262 S/MISSION BLVD
 USE THE LEFT 2 LANES TO MERGE WITH I-880 S TOWARD SAN JOSE
 KEEP RIGHT TO STAY ON I-880 S, KEEP LEFT TO STAY ON I-880 S
 CONTINUE ONTO CA-17 S
 USE THE RIGHT LANE TO TAKE THE SAN TOMAS EXPWY EXIT
 MERGE WITH SAN TOMAS EXPY, TAKE THE CAMDEN AVE EXIT
 CONTINUE ONTO DELL AVE
 TURN LEFT ONTO E SUNNYOAKS AVE, TURN LEFT
 DESTINATION WILL BE ON THE LEFT.

APPLICABLE CODES

- 2019 CALIFORNIA ADMINISTRATIVE CODE.
- 2019 CALIFORNIA BUILDING CODE (CBC).
- 2019 CALIFORNIA ELECTRICAL CODE (CEC).
- 2019 CALIFORNIA ENERGY CODE.
- 2019 CALIFORNIA MECHANICAL CODE (CMC).
- 2019 CALIFORNIA PLUMBING CODE (CPC).
- ANSI/TIA-222-G LIFE SAFETY CODE NFPA-101
- LOCAL BUILDING CODE.
- 2019 CALIFORNIA FIRE CODE (CFC)
- 2019 CALIFORNIA GREEN BUILDING CODE

ANSI/TIA-222-G OR LATEST EDITION CURRENT LOCAL CODES AND AMENDMENTS IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.



DIAL TOLL FREE
811
AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

USA NORTH UNDERGROUND SERVICE ALERT SERVING CALIFORNIA AND NEVADA

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

SF64142S
SF64142S
125 E SUNNYOAKS AVE
CAMPBELL, CA 95008



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

FRAMING

1. ALL LUMBER SHALL BE GRADE MARKED DOUGLAS FIR-LARCH AND SHALL HAVE THE FOLLOWING MINIMUM GRADES:

JOISTS AND RAFTERS	#1
BEAMS AND STRINGERS	#1
PLATES	#2
STUDS (2X4, 3X4, 2X6)	#1
POSTS, COLUMNS AND TIMBER	#1

2. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS. WHERE POSSIBLE, ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STD. M4).

3. CUTTING OR NOTCHING OF WOOD STUDS OR PLATES SHALL NOT EXCEED 25% OF THE STUD/PLATE WIDTH AT EXTERIOR OR BEARING WALLS AND SHALL NOT EXCEED 40% OF THE STUD/PLATE WIDTH IN NONBEARING PARTITIONS. BORED HOLE DIAMETERS ARE LIMITED TO 40% OF THE STUD WIDTH IN ANY STUD AND MAY BE 60% IN NONBEARING PARTITIONS OR WHEN THE BORED STUD IS DOUBLED.

4. DO NOT NOTCH JOISTS, RAFTERS, OR BEAMS EXCEPT WHERE SHOWN ON THE DETAILS. BORED HOLES THROUGH JOISTS SHALL NOT EXCEED 1/3 OF MEMBER DEPTH AND BE LOCATED AT LEAST 2" FROM THE TOP AND BOTTOM OF THE MEMBER.

5. ALL BLOCKING AND BRIDGING SHALL BE PROVIDED AS REQUIRED PER GOVERNING CODE OR STANDARD OF PRACTICE.

6. ALL JOIST, RAFTER & MISC. FRAMING SHALL HAVE FULL-DEPTH (OR METAL) BRIDGING AT ALL SUPPORTS, MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O/C IN BETWEEN UNLESS NOTED OTHERWISE.

7. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS THAT ARE PARALLEL TO JOISTS. USE 2-16D NAILS AT 16" O.C. TO NAIL DOUBLE JOISTS TOGETHER.

8. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.

9. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE WASHERS BETWEEN BOLT HEADS OR NUTS AND WOOD. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.

10. ALL BOLTS SHALL BE RE-TIGHTENED PRIOR TO APPLICATION OF PLASTER, PLYWOOD, ETC. AND BEFORE CLOSING IN COMPLETION OF THE JOB.

11. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF 0.04 INCHES (PER ASTM A446, GRADE A) AND BE GALVANIZED (COATING G60).

12. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED.

13. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE THAT ARE EXPOSED OR IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIP GALVANIZED.

14. BOLTS IN WOOD SHALL BE A MINIMUM OF 7 BOLT DIAMETERS FROM THE ENDS AND 4 BOLT DIAMETERS FROM THE EDGES.

15. ALL SILL BOLTS SHALL BE PLACED STARTING 9" FROM THE ENDS OF A BOARD OR FROM A NOTCH AND SPACED AT INTERVALS AS NOTED ON THE PLANS.

16. ALL SILL PLATE ANCHOR BOLTS AND HOLD-DOWN CONNECTOR BOLTS AT ALL PLYWOOD SHEAR PANELS SHALL HAVE THE FOLLOWING PLATE WASHERS.

BOLT SIZE	PLATE WASHER SIZE (ASTM A-36)
5/8"	0.229" X 3" X 3"
3/4"	5/16" X 3" X 3"
7/8"	5/16" X 3" X 3"
1"	3/8" X 3-1/2" X 3-1/2"

17. TOP PLATES FOR ALL STUD WALLS SHALL BE 2-2X. MINIMUM TOP PLATE LAP SHALL BE 48" WITH 16d NAILS AT 4" O.C. EACH SIDE OF SPLICE U.N.O. SPLICES IN UPPER AND LOWER PLATES SHALL BE STAGGERED 10" MINIMUM.

18. ALL WOOD STUD WALLS SHALL HAVE 2X4 STUDS AT 16" O.C. WHEN HEIGHT BETWEEN LATERAL SUPPORTS IS LESS THAN 10'-0". WHEN HEIGHT BETWEEN LATERAL SUPPORTS MORE THAN 10'-0", USE 2X6 STUDS AT 16" O.C. WITH FULL DEPTH BLOCKING AT NOT MORE THAN 8' VERTICAL INTERVAL.

19. ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O. SEE FRAMING PLANS OR DETAILS FOR NAIL SIZES AND SPACING. NAILS THAT ARE NOT DETAILED OR NOTED SHALL BE IN ACCORDANCE WITH IBC TABLE 2304.9.1. FASTENING SCHEDULE. HOLES FOR NAILS SHALL BE DRILLED AT A SMALLER DIAMETER THAN THE NAIL WHERE NECESSARY TO PREVENT SPLITTING.

20. LAG BOLTS SHALL HAVE LEAD HOLES BORED AS FOLLOWS:

SHANK PORTION	SAME DIAMETER AND LENGTH AS SHANK
THREADED PORTION	0.6-0.75 OF DIAMETER OF THREAD

PLYWOOD SHEATHING NOTES

1. ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH (APA) AMERICAN PLYWOOD ASSOCIATION SPECIFICATIONS AND COMPLY WITH PS1-07 OR PS2-04.

2. ALL ROOF PANEL SHEATHING SHALL BE 5/8" (NOM.) TYPE CDX. EXP. 1 APA RATED SHEATHING. SUITABLE EDGE SUPPORT SHALL BE PROVIDED BY USE OF PANEL CLIPS OR BLOCKING BETWEEN FRAMING. CONNECT ROOF SHEATHING WITH 8d COMMON NAILS AT 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS U.N.O.

3. ALL WALL PANEL SHEATHING SHALL BE 1/2" (NOM.) TYPE CDX. EXP. 1 APA RATED SHEATHING ATTACHED WITH 10d COMMON NAILS SPACED 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS U.N.O.

4. INSTALL ALL PLYWOOD SHEATHING WITH THE LONG DIMENSION OF THE PANEL ACROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER.

5. ALL NAILING SHALL BE CAREFULLY DRIVEN AND NOT OVERDRIVEN. THE USE OF STAPLES AND PNEUMATIC NAIL GUNS ARE PROHIBITED FROM USE.

6. ALL EXTERIOR EXPOSED PLYWOOD SHALL BE MARINE GRADE.

FIRE RESISTANCE REQUIREMENTS

1. CONTRACTOR TO PROVIDE FLAME STOP I-DS (OR OTHER APPROVED METHOD OF FIRE PREVENTION) TO TOWER, BRANCHES, AND/OR OTHER COMBUSTIBLE MATERIALS AS OUTLINED IN SECTIONS 602 & 603 OF 2016 CBC.

MASONRY

1. ALL MASONRY SHALL HAVE MINIMUM COMPRESSIVE STRENGTH fm OF 1,500 PSI.

2. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, GRADE N, TYPE 1, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI. CONCRETE MASONRY UNITS MUST BE TESTED IN ACCORDANCE WITH ASTM C140.

3. MORTAR SHALL BE MACHINE MIXED CONFORMING TO ASTM C270, TYPE S. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED AND SHALL BE PROPORTIONED PER BUILDING CODE TABLE 2103.8(1) AND 2103.8(2).

4. GROUT SHALL CONFORM TO ASTM C476 AND BE PROPORTIONED PER BUILDING CODE TABLE 2103.12. MINIMUM GROUT COMPRESSIVE STRENGTH SHALL EQUAL OR EXCEED THE GREATER OF 2,000 PSI OR THE REQUIRED fm.

5. REINFORCING BARS SHALL CONFORM TO ASTM A706 OR ASTM A615, GRADE 60 U.N.O.

6. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS OR LADDER TYPE FORMED FROM 9 GAUGE COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A82.

7. ALL MASONRY BLOCKS SHALL CONFORM WITH EACH OTHER IN COLOR, TEXTURE AND SIZE WHERE APPLICABLE. BLOCK SIZE, COLOR, TYPE AND TEXTURE SHALL BE AS INDICATED ON THE DRAWINGS. PROVIDE ACCESSORY BLOCKS AS INDICATED AND REQUIRED. WHERE CUTTING IS REQUIRED, BLOCKS SHALL BE SAWCUT.

8. COURSING SHALL BE COMMON RUNNING BOND (UNLESS NOTED OTHERWISE), WITH 3/8" GROUT JOINT. JOINTS SHALL BE TOOLED CONCAVE AND BE UNIFORM IN SIZE. USE CARE TO PREVENT MORTAR AND GROUT SPILLAGE ON THE FACE OF THE MASONRY. CLEAN SUCH SPILLAGE IMMEDIATELY. REPAIR ANY DAMAGE OR INTERSTICES BETWEEN BLOCKS AND REMOVE STAINS AT THE COMPLETION OF WORK.

9. THE INTERSECTING WALLS BY OVERLAPPING UNITS IN ALTERNATE COURSES. ROUGHEN AND CLEAN CONCRETE BEARING SURFACES FOR THE PLACEMENT OF THE FIRST COURSE. VERTICAL HEAD JOINTS SHALL BE FILLED SOLID AND SHOVED TIGHTLY TO PROVIDE BOND TO BOTH BLOCKS.

10. AT VERTICAL REINFORCING LOCATIONS, PROVIDE DOWELS FROM FOOTING TO MATCH SIZE AND SPACING OF VERTICAL WALL REINFORCING. DOWELS SHALL BE EMBEDDED INTO THE FOOTING A MINIMUM OF 9" AND SHALL HAVE A 90 DEGREE HOOK. DEEPEN FOOTING WHERE REQUIRED FOR DOWEL. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL.

11. SPLICED BARS (INCLUDING DOWELS) SHALL BE LAPPED 48 BAR DIAMETERS MINIMUM OR 24", WHICHEVER IS GREATER. SPLICED BARS SHALL BE WIRE-TIED.

12. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM THE MASONRY AND NOT LESS THAN ONE DIAMETER BETWEEN BARS.

13. BOND BEAMS WITH A HORIZONTAL BAR OR BARS SHALL BE PROVIDED AT 48 INCHES ON CENTER AND AT ALL FLOOR AND ROOF LINES AND AT THE TOP OF THE WALL. PROVIDE A BOND BEAM WITH A HORIZONTAL BAR OR BARS OVER ALL OPENINGS, AND EXTEND THESE BARS 2'-0" PAST THE OPENING AT EACH SIDE. PROVIDE A BAR OR BARS VERTICALLY FOR THE FULL HEIGHT OF THE WALL AT EACH SIDE OF OPENINGS, WALL ENDS AND INTERSECTIONS. PROVIDE CORNER BARS TO MATCH THE HORIZONTAL WALL REINFORCING AT WALL INTERSECTIONS.

14. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING BEGINS. VERTICAL BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING BAR, NOR 10 FEET.

15. SEE DRAWINGS FOR LOCATION OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS.

16. ALL CELLS SHALL BE GROUTED SOLID. GROUTING OF MASONRY BEAMS AND LINTELS SHALL BE DONE IN ONE CONTINUOUS OPERATION. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT. FILL CELLS WITH GROUT WITH MAXIMUM 4'-0" LIFTS. VERTICAL CELLS SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3'x4".

17. ALL ISOLATED BOLTS EMBEDDED IN MASONRY SHALL BE GROUTED SOLIDLY IN PLACE WITH NOT LESS THAN 2" OF GROUT SURROUNDING THE BOLT.

18. PROVIDE BOND BEAM LINTELS AND BRICK SHELFL ANGLES ABOVE ALL WALL OPENINGS PER DETAILS. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL OPENINGS.

19. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION

20. ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE-DRAINING GRANULAR BACKFILL, FULL HEIGHT OF WALL. PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED. SEAL RETAINING FACE OF WALL AND FOOTING WITH 2 COATS OF HENRY'S 502 ASPHALTIC MASTIC. PROVIDE CONTINUOUS INSPECTION.

FOUNDATIONS - GENERAL

1. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 18" BELOW FINAL GRADE AND BEAR ON FIRM NATIVE OR PROPERLY COMPACTED SOILS.

2. FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.

3. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

4. FOUNDATION CONCRETE SHALL HAVE REACHED A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI BEFORE BEING LOADED. STRENGTHS SHALL BE VERIFIED BY TEST.

5. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL THE SLABS AT TOP AND BOTTOM ARE IN PLACE AND CURED AS REQUIRED.

6. WHERE WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, SIMULTANEOUSLY PLACE FILL SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF WALL.

7. CONTRACTOR SHALL PROVIDE ALL SHORING AS REQUIRED.

8. ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE-DRAINING GRANULAR BACKFILL FULL HEIGHT OF WALL. SEAL RETAINING FACE OF WALL AND FOOTING WITH 2 COATS OF HENRY'S 502 ASPHALTIC MASTIC. PROVIDE CONTINUOUS INSPECTION.

9. CONTRACTOR SHALL PROVIDE TEMPORARY AND PERMANENT DEWATERING FOR SURFACE WATER, GROUND WATER AND SEEPAGE WATER AS REQUIRED.

10. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC ENCOUNTERED DURING EXCAVATIONS AND BACKFILLING. ALL BACKFILL SHALL BE PROPERLY COMPACTED.

11. ALL FOOTINGS HAVE BEEN DESIGNED BASED UPON AN ASSUMED SOIL BEARING PRESSURE OF 1,000 PSF UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, WHICH INCLUDES SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, CODE OF STANDARD PRACTICE AND AWS STRUCTURAL WELDING CODE. IDENTIFY AND MARK STEEL PER CBC 2203.

2. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER/ ARCHITECT PRIOR TO FABRICATION.

3. GROUTING OF COLUMN BASE PLATES: BASE PLATES SHALL BE DRYPACKED OR GROUTED WITH NON-SHRINK, NON-FERROUS GROUT. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS. ALL SURFACES SHALL BE PROPERLY CLEANED OF FOREIGN MATERIAL PRIOR TO GROUTING.

4. ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC.

5. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THIS ENGINEER. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.

6. WELDING: CONFORM TO AWS D1.1. WELDERS SHALL BE CERTIFIED

7. BOLTING: ASTM A307 BOLTS SHALL BE INSTALLED "SNUG TIGHT" PER AISC SECTION RCSC 8(C), ASTM A325 BOLTS SHALL CONFORM TO RCSC SECTION 8 (D).

8. FABRICATION: CONFORM TO AISC SPECIFICATION SEC M2 "FABRICATION" AND AISC CODE SEC 6 "FABRICATION AND DELIVERY" PERFORM WORK ON PREMISES OF A FABRICATOR APPROVED BY THE BUILDING OFFICIAL.

9. GALVANIZING: ALL EXPOSED STEEL OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT-DIPPED GALVANIZED, APPLY FIELD TOUCH-UPS PER ASTM A153.

10. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAPS, HANGER AND OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUAL.

11. ALL STRUCTURAL STEEL EXPOSED TO EARTH SHALL HAVE 3" CONCRETE COVER.

12. MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

ANCHOR BOLTS/ RODS: ASTM F1554, GRADE 36

BARS & PLATES: ASTM A36

BOLTS IN WOOD: ASTM A307
BOLTS - HIGH STRENGTH: ASTM A325SC OR A325N

C-, M-, AND ANGLE SHAPES: ASTM A36

DEFORMED WELDED WIRE FABRIC: ASTM A497

GROUT: EMBECO OR EQUIVALENT

OTHER STRUCTURAL SHAPES: ASTM A36

REINFORCING BARS (WELDED): ASTM A706, GRADE 60, DEFORMED BARS
REINFORCING BARS (REGULAR): ASTM A615, GRADE 60, DEFORMED BARS

SMOOTH WELDED WIRE FABRIC: ASTM A185

STEEL GRATING: ANSINAAM MBG 531-00

STEEL PIPE: ASTM A53, GRADE B

TIE WIRE: 16.5 GAGE OR HEAVIER, BLACK ANNEALED

TUBE STEEL & PIPE COLUMNS: ASTM A500, GRADE B

W - SHAPES: ASTM A992, GRADE 50

WELDING ELECTRODES: E70XX FOR STRUCTURAL STEEL
E80XX FOR REINFORCING BARS
E60XX FOR LIGHT GAUGE AND METAL DECK

EPOXY AND EXPANSION ANCHORS

1. EPOXY OR EXPANSION ANCHORS SHALL NOT BE USED EXCEPT WHERE SPECIFICALLY SHOWN ON THE PLANS OR WHEN APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.

2. DRILLED HOLES SHALL BE PREPARED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE CURRENT ICC REPORT.

3. SPECIAL INSPECTION SHALL BE DONE IN ACCORDANCE WITH BUILDING CODE AND THE SPECIFIC INSPECTION REQUIREMENTS SET FORTH IN THE CURRENT ICC REPORT.

4. ANCHOR RODS USED FOR EPOXY ANCHORS SHALL BE THE TYPE SPECIFIED IN THE REFERENCED ICC REPORT.

5. THE ANCHOR SIZE AND EMBEDMENT SHALL BE AS INDICATED ON THE PLANS.

6. WHERE PERMITTED, EPOXY ANCHORING SHALL BE COMPLETED WITH THE FOLLOWING ALLOWED PRODUCTS(S):
HILTI RE-500 SD (ICC# ESR-2322, LARR-25700) - CONCRETE ONLY
HILTI HIT-HY 150 (ICC# ER-5193, LARR-25652M) - MASONRY WALL ONLY.
HILTI HIT-HY 20 (ICC# ER-4815, LARR-24564) - BRICK WALL ONLY.
SIMPSON SET-XP (ICC# ESR-1722, LAR#25744) CONCRETE ONLY

7. WHERE PERMITTED, THE FOLLOWING EXPANSION ANCHORS MAY BE USED: CONCRETE ONLY.
HILTI KWIK BOLT TZ STAINLESS STEEL (ICC# ESR-1917, LARR-25701) -
SIMPSON STONG-BOLT (ICC# ESR-1771, LARR-25705) - CONCRETE ONLY.
HILTI KWIK BOLT 3 (ICC# ESR-1385, LARR-25577) GROUT FILLED MASONRY ONLY
SIMPSON WEDGE-ALL (ICC# ESR-1396, LARR-24682) - GROUT FILLED MASONRY ONLY.

SEISMIC GAS SHUT-OFF VALVE

1. WHEN THE LOCAL JURISDICTION REQUIRES, THE CONTRACTOR SHALL SUPPLY A "GAS SHUTOFF DEVICE" DOWNSTREAM OF GAS UTILITY METER(S) OR LIQUID PETROLEUM GAS STORAGE TANK(S) AT NO ADDITIONAL CHARGE TO THE OWNER.

2. "GAS SHUTOFF DEVICE" MAY CONSIST OF A "SEISMIC GAS SHUTOFF DEVICE" OR AN "EXCESS FLOW GAS SHUTOFF DEVICE". CONSULT WITH LOCAL JURISDICTION FOR THEIR REQUIREMENTS.

3. GAS SHUTOFF DEVICES SHALL BE CERTIFIED BY THE STATE ARCHITECT AND BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY SUCH AS IAS, IAMPO, UL OR THE OFFICE OR THE STATE ARCHITECT. THE GAS SHUTOFF DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND HAVE A THIRTY (30) YEAR WARRANTY WHICH WARRANTS THAT THE VALVE OR DEVICE IS FREE FROM DEFECT AND WILL CONTINUE TO PROPERLY OPERATE FOR THIRTY (30) YEARS FROM THE DATE OF INSTALLATION.

4. IN THE CASE OF SEISMIC GAS-SHUT-OFF DEVICES (MOTION SENSITIVE) ONLY, SUCH DEVICES MUST BE MOUNTED RIGIDLY TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. THIS REQUIREMENT NEED NOT APPLY IF THE BUILDING AND SAFETY DIVISION DETERMINES THAT THE SEISMIC GAS SHUTOFF DEVICE (MOTION SENSITIVE) HAS BEEN TESTED AND LISTED FOR AN ALTERNATE METHOD OF INSTALLATION.

REINFORCING STEEL

1. ALL REINFORCING SHALL BE NEW DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR ASTM A706, GRADE 60. ALL WELDED REINFORCING BARS SHALL CONFORM TO ASTM A706.

2. REINFORCING STEEL SPLICE/DEVELOPMENT LENGTHS SHALL CONFORM TO THE FOLLOWING MINIMUM LENGTHS UNLESS NOTED OTHERWISE: SPLICED BARS SHALL BE WIRED TOGETHER.

BAR SIZE	TOP BAR	OTHER BAR
#3	28	22
#4	37	29
#5	47	36
#6	56	43
#7	81	63
#8	93	72
#9	105	81
#10	116	89

TOP BAR LENGTHS APPLY TO HORIZONTAL REINFORCEMENT PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE SPLICE OR DEVELOP LENGTH. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS. LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".

3. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:
UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 2"
#6 BARS AND LARGER: 1.5"
#5 BARS AND SMALLER:
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: 1.5"
BEAMS, GIRDERS AND COLUMNS:
SLABS, WALLS AND JOISTS:
#11 BARS AND SMALLER: 0.75"

4. BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING.

5. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO INSPECTIONS, PLACING CONCRETE, OR GROUTING MASONRY.

6. WELDING: BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301 SEC 3.2, 2.2, AND AWS D1.4 "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.

7. FIELD BENDING: CONFORM TO ACI 301 SEC 3.3.2.8 "FIELD BENDING OR STRAIGHTENING". BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COL THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS

8. SPLICE ALL BARS IN MASONRY WITH A MINIMUM OF 48 BAR DIAMETER LAPS (2'-0" MINIMUM).

9. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DETAILS.

CONCRETE

1. MIX DESIGN REQUIREMENTS: (UNLESS NOTED OTHERWISE)
A. CEMENT SHALL CONFORM TO ASTM C-150, TYPE V.
B. COMPRESSIVE STRENGTH = 3,000 PSI
C. CONCRETE SLUMP SHALL BE 3"+-1" FOR SLABS AND 4"+-1" FOR ALL OTHER WORK.
D. WATER CEMENT RATIO = 0.45 MAX

2. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (1" MAXIMUM SIZE), AND ASTM C-330 FOR STRUCTURAL LIGHT WEIGHT CONCRETE.

3. WHERE CONCRETE WILL BE IN CONTACT WITH NATIVE OR IMPORTED SOIL WHICH HAS A VERY SEVERE SULFATE CONTENT, POZZOLAN SHALL BE ADDED AS REQUIRED.

4. EXTERIOR CONCRETE EXPOSED TO FREEZING TEMPERATURES AND/OR SALT OR DEICING CHEMICALS SHALL HAVE AIR ENTRAINMENT AND THE CEMENT CONTENT APPROPRIATE FOR THE EXPECTED EXPOSURE.

5. WATER SHALL BE POTABLE OR CLEAN, FREE FROM DELETERIOUS AMOUNTS OF ACIDS, ALKALIS OR ORGANIC MATERIALS, OILS, AND SALTS.

6. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94.

7. FLOOR SLABS SHALL CONFORM TO ASTM C-38 STANDARDS AND SHALL BE AT LEAST 3 1/2 INCHES THICK- SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.

8. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET.

9. PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.

10. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.

11. ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.

12. FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RESHORING.

13. PROVIDED CONCRETE SLABS OVER A 10 MIL POLYETHYLENE VAPOR BARRIER OVER 4" OF POROUS FILL UNLESS NOTED OTHERWISE.

14. ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL. POROUS FILL SHALL BE COMPACTED TO 90% MAX. DRY DENSITY .

15. WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS REINFORCED WITH 6x6 - W4.4xW4 WWF UNLESS OTHERWISE NOTED.

16. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19 OF THE CBC AND TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS SPECIFIED HEREIN.

17. ALL FOOTINGS SHALL REST ON FIRM NATURAL SOIL OR APPROVED COMPACTED FILL.

18. MONOPOLE CAISSONS ARE DESIGNED BY OTHERS. PROVIDE ADEQUATE SEPARATION AND/OR COMPRESSIBLE MATERIAL AROUND THE TOP OF THE CAISSON AS DIRECTED BY THE CAISSON ENGINEER TO PROTECT ADJACENT NEW AND EXISTING FOUNDATIONS AND OTHER ELEMENTS.

19. CONTROL JOINTS SHALL BE PLACED IN ALL CONCRETE SLABS PER THE SCHEDULE BELOW. SAWCUT WITHIN 4 HOURS AFTER THE POUR USING THE "SOFF-CUT" PROCEDURE.

SLAB THICKNESS	MAXIMUM SPACING
4"	10'-0"
5"	12'-0"
6" AND LARGER	15'-0"



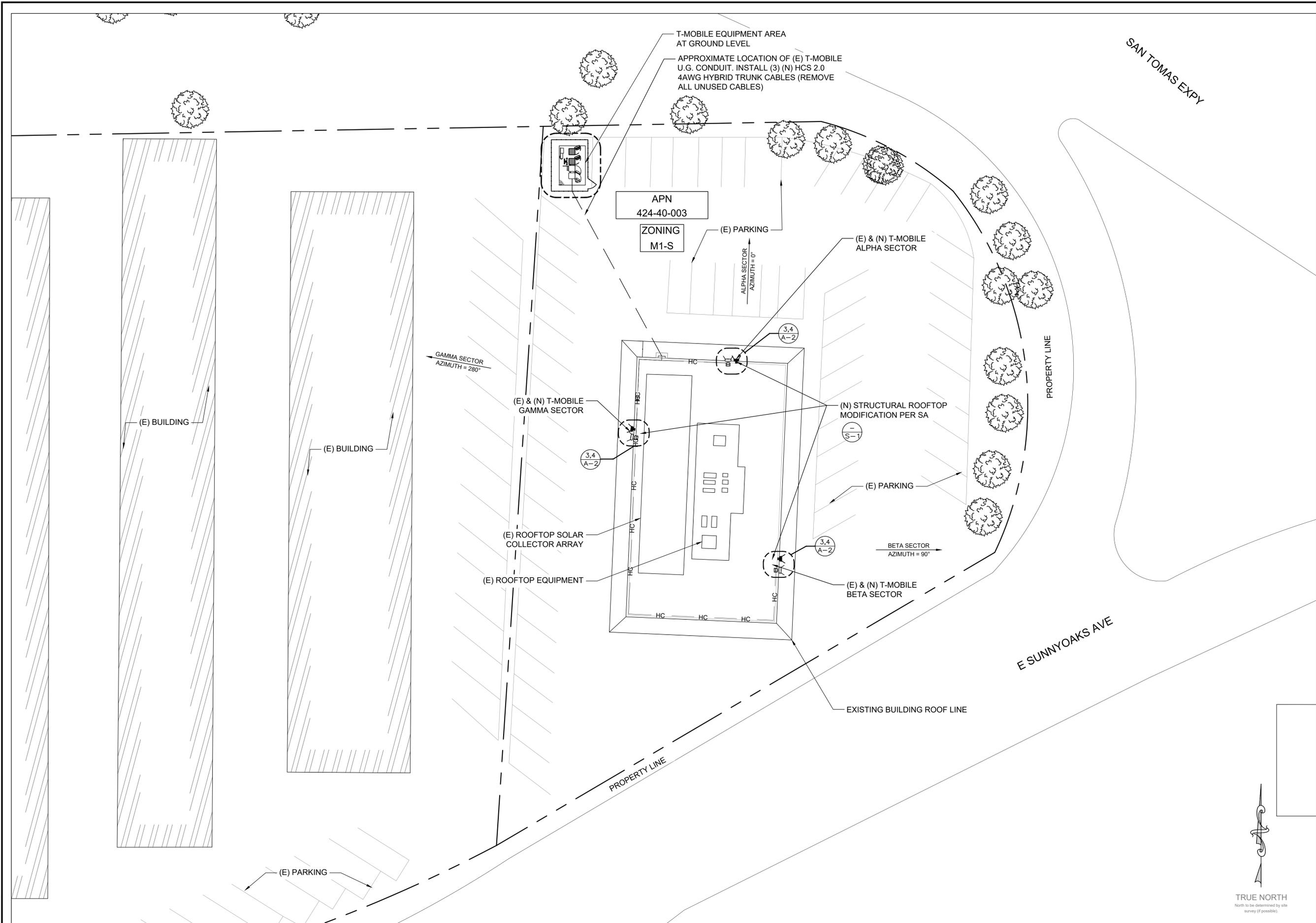
T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214
CLEVELAND, OH 44122

DRAWN BY: AR

CHECKED BY: ZHN



DRAWN BY: AR
 CHECKED BY: ZHN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	06/14/21	ISSUED FOR 90% CD REVIEW	AR
B	07/16/21	ISSUED FOR 90% CD REVIEW	BWG
0	07/22/21	100% CDS	BWG

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

SF64142S
SF64142S
 125 E SUNNYOAKS AVE
 CAMPBELL, CA 95008

Alan E. Money
 REGISTERED PROFESSIONAL ENGINEER
 ALAN E. MONEY
 46989
 Aug 11, 2021
 CIVIL
 STATE OF CALIFORNIA

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SHEET TITLE
 OVERALL SITE PLAN

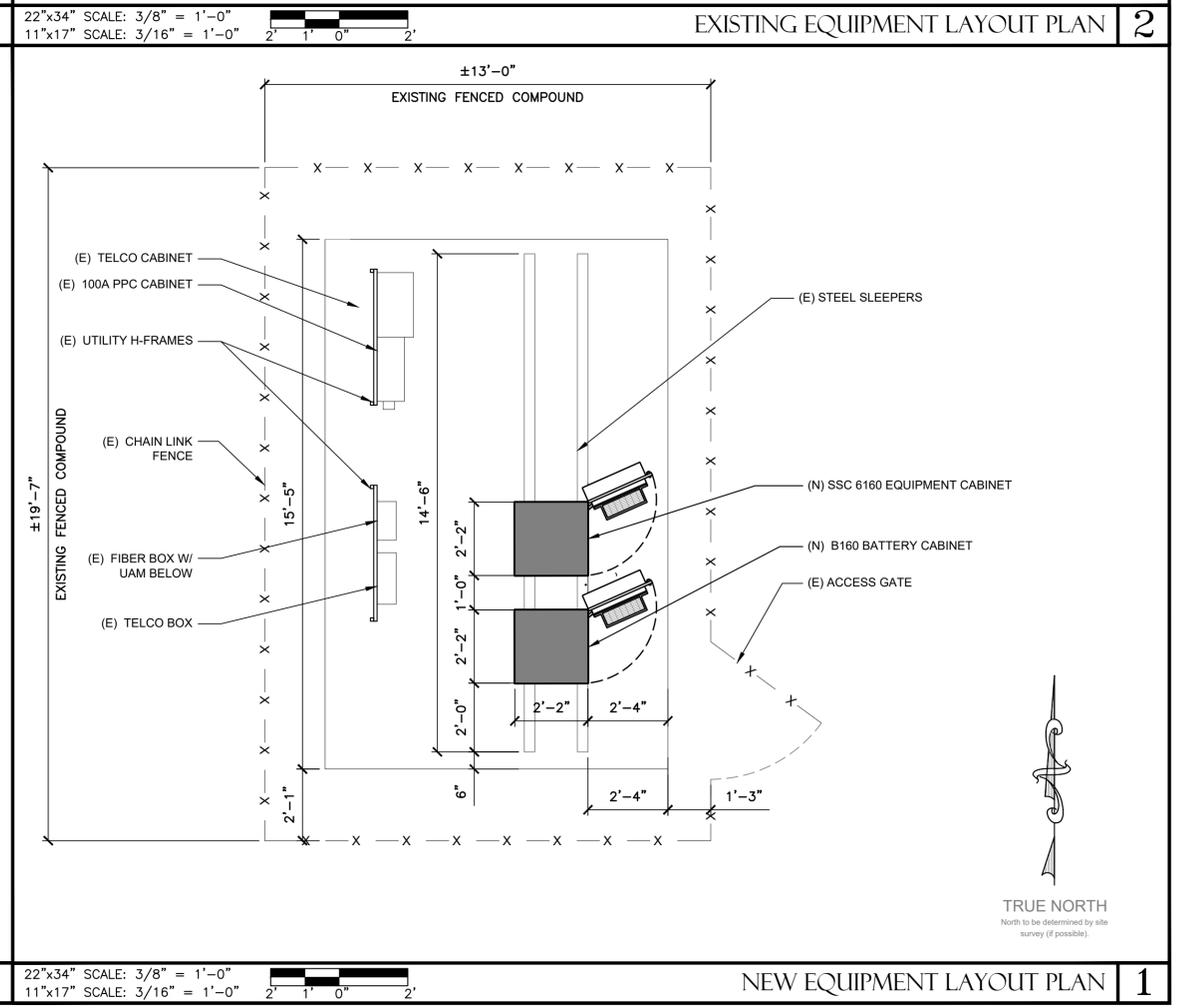
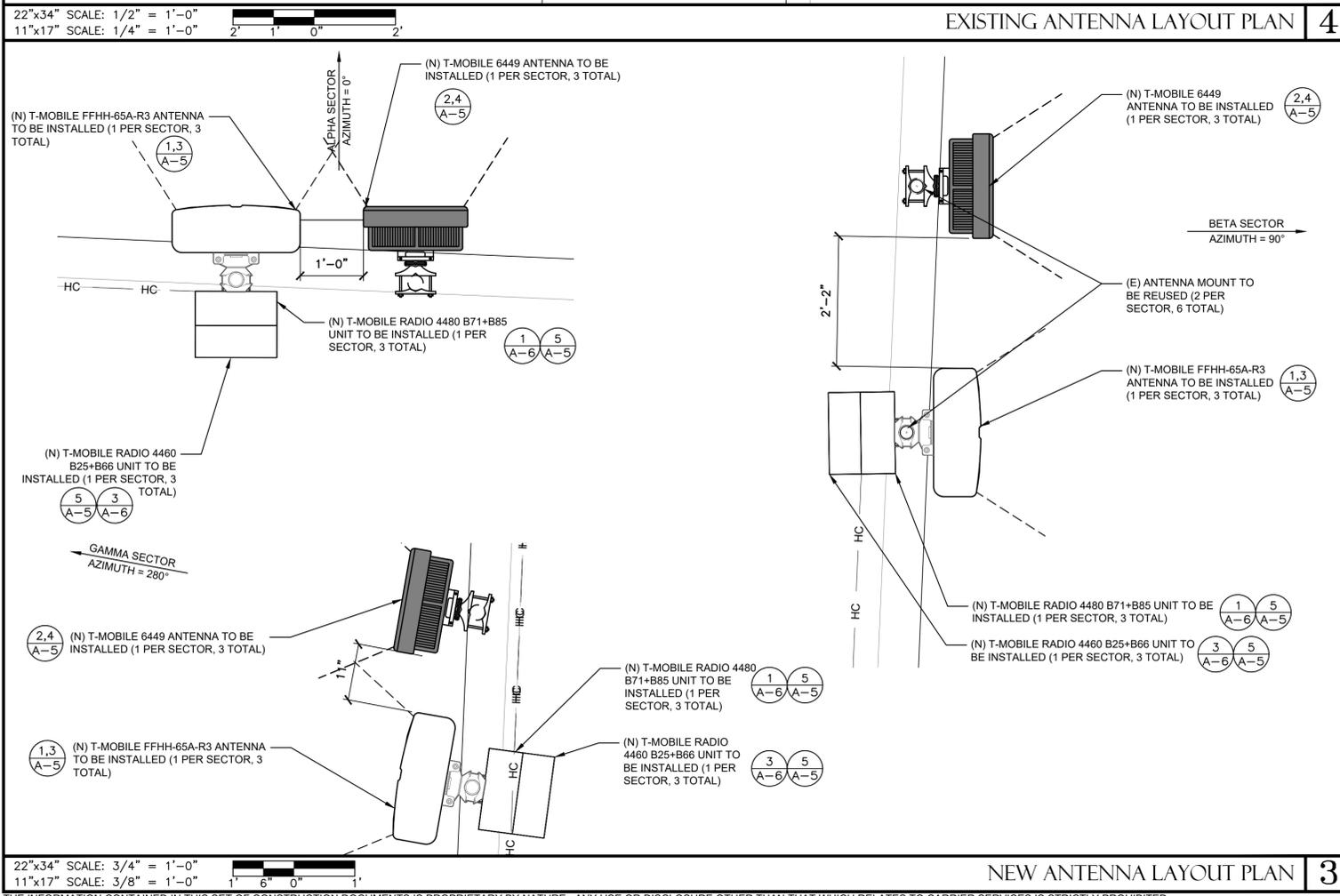
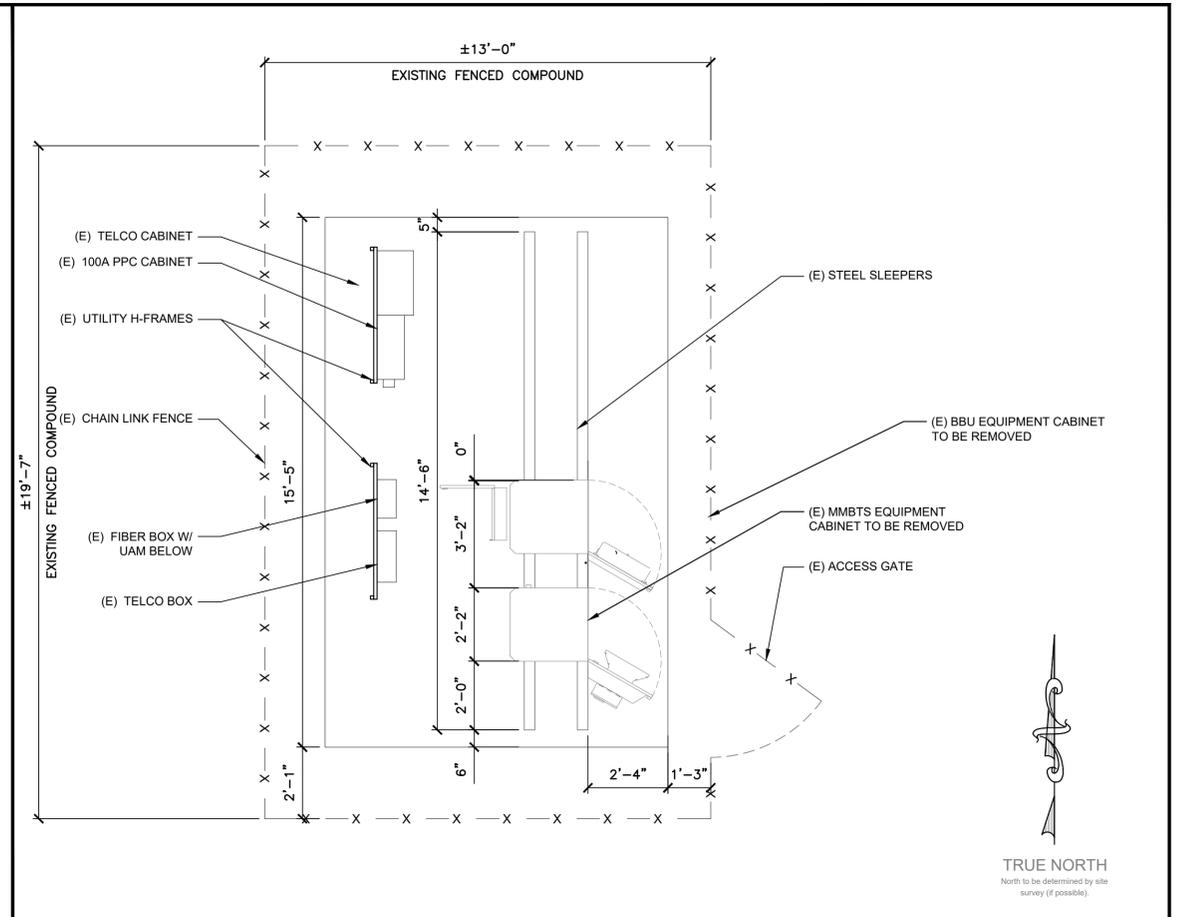
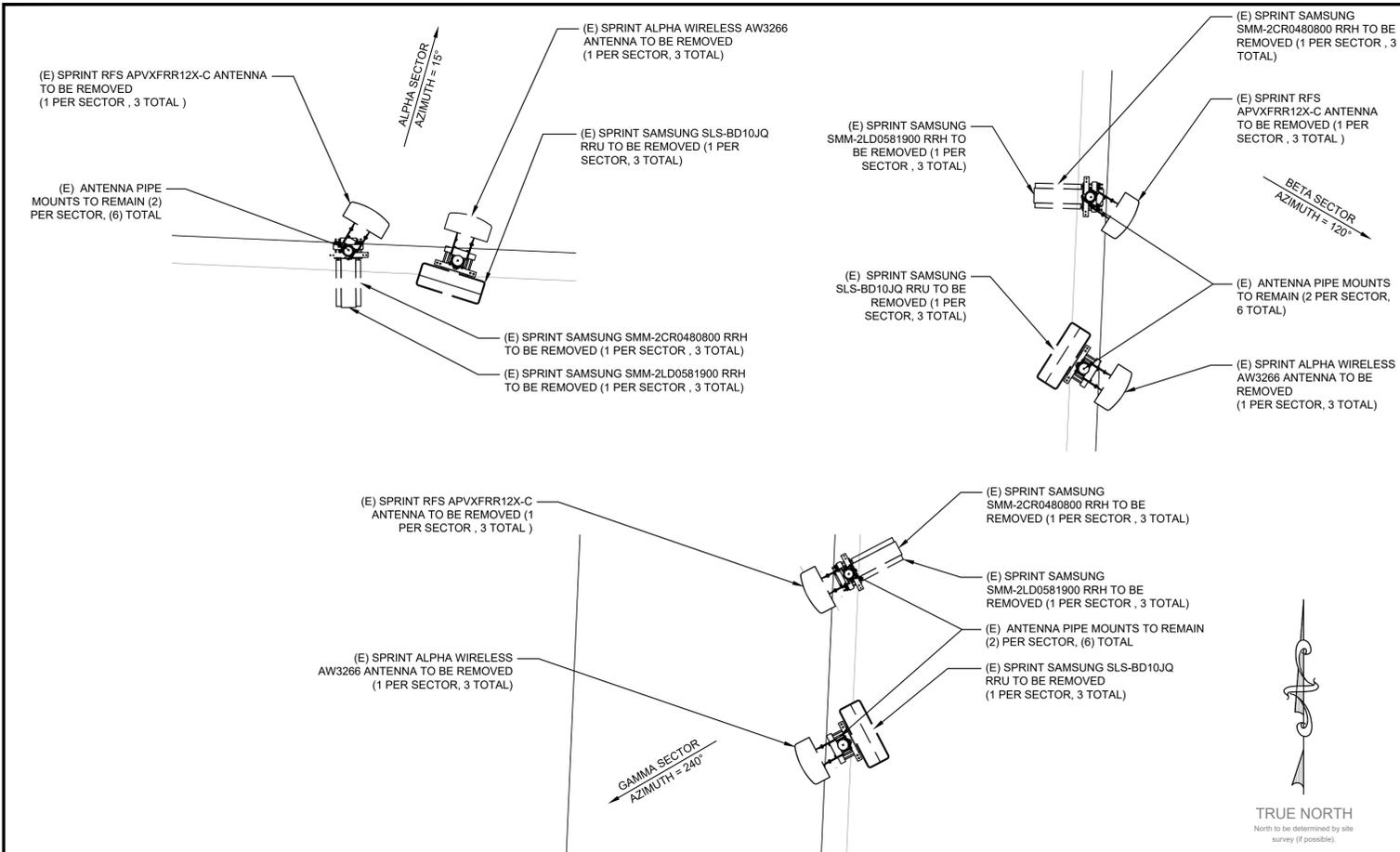
SHEET NUMBER
A-1

22"x34" SCALE: 1/16" = 1'-0"
 11"x17" SCALE: 1/32" = 1'-0"
 16' 12' 8' 4' 0" 16'

TRUE NORTH
 North to be determined by site survey (if possible)

OVERALL SITE PLAN 1

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.



REVISIONS			
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A	06/14/21	ISSUED FOR 90% CD REVIEW	AR
B	07/16/21	ISSUED FOR 90% CD REVIEW	BWG
0	07/22/21	100% CDS	BWG

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SF64142S
SF64142S
125 E SUNNYOAKS AVE
CAMPBELL, CA 95008



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SHEET TITLE
ANTENNA AND EQUIPMENT LAYOUT PLANS

SHEET NUMBER
A-2

DRAWN BY: AR
 CHECKED BY: ZHN

REVISIONS			
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B	07/16/21	ISSUED FOR 90% CD REVIEW	BWG
0	07/22/21	100% CDS	BWG

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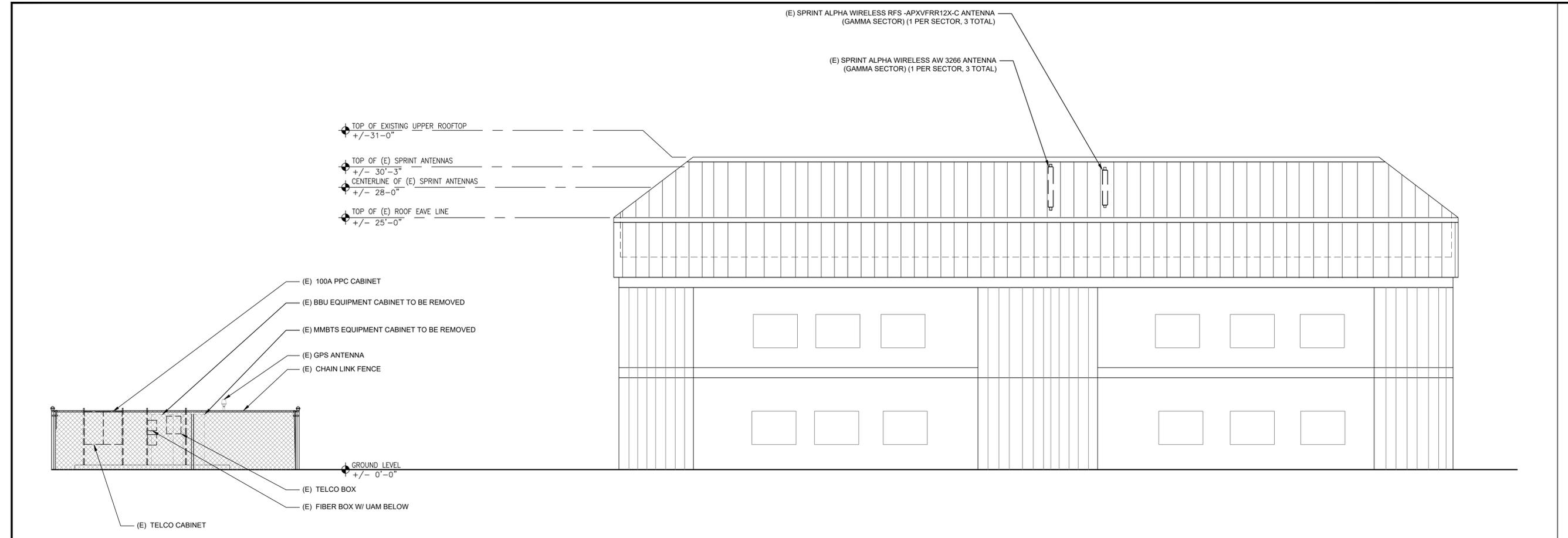
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 SF64142S
 125 E SUNNYOAKS AVE
 CAMPBELL, CA 95008



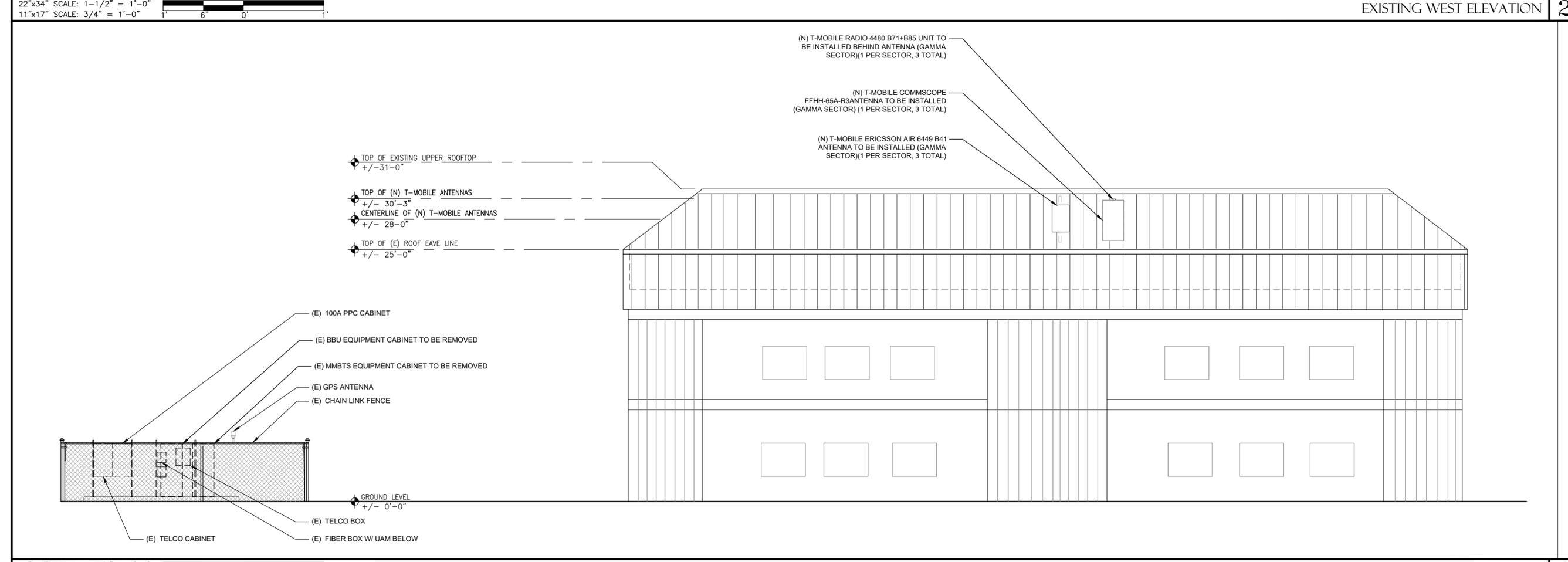
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SHEET TITLE
 ARCHITECTURAL ELEVATIONS

SHEET NUMBER
A-4



EXISTING WEST ELEVATION 2



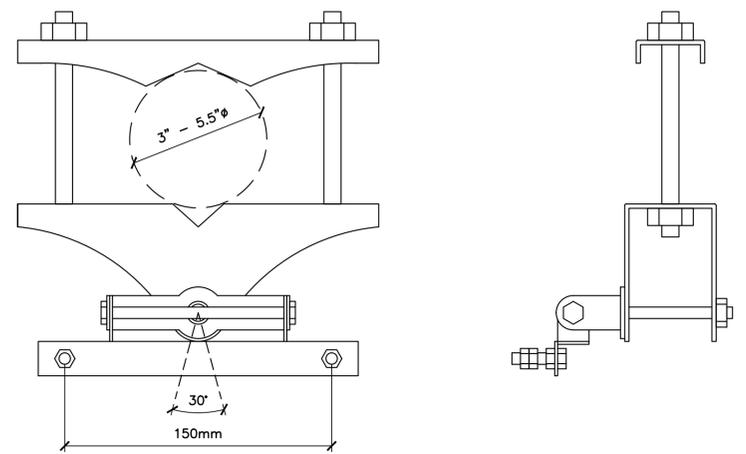
NEW WEST ELEVATION 1

DRAWN BY: AR
 CHECKED BY: ZHN

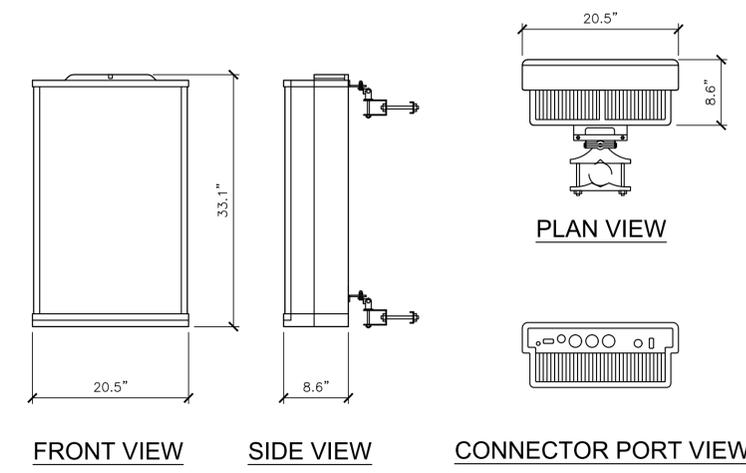
REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
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B	07/16/21	ISSUED FOR 90% CD REVIEW	BWG
0	07/22/21	100% CDS	BWG

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

TYPE NO.	SXK 109 2064/1
NAME	AIR BRACKET MEDIUM
SUITABLE FOR MAST DIAMETER	3"-5.5" (76-114 MM)
ANTENNA - MAST DISTANCE F	128-132 MM
COMPATABILITY	AIR UNITS W/ 150MM INTERFACE
NUMBER OF PIECES	2 PIECES
MATERIAL - CLAMP	HOT-DIP GALVANIZED STEEL
-SCREWS	HOT-DIP GALVANIZED STEEL
-NUTS	STAINLESS STEEL
WEIGHT	9 LBS (4.4 KG)



ANTENNA SPECIFICATIONS	
MANUFACTURER:	ERICSSON
MODEL:	AIR 6449
HEIGHT:	33.1"
WIDTH:	20.5"
DEPTH:	8.6"
WEIGHT:	104 LBS



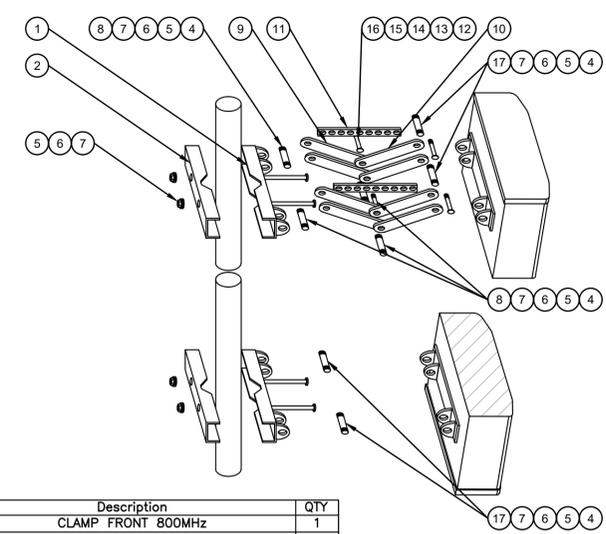
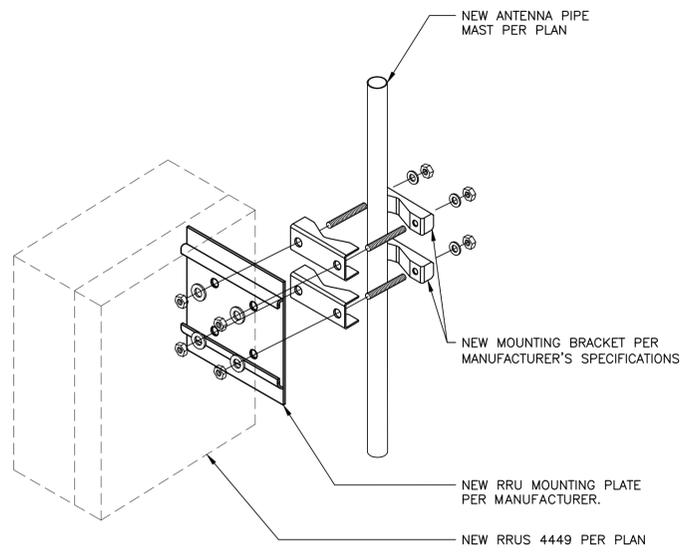
NOT USED 6

N.T.S.

'AIR' BRACKET MEDIUM DETAIL 4

N.T.S.

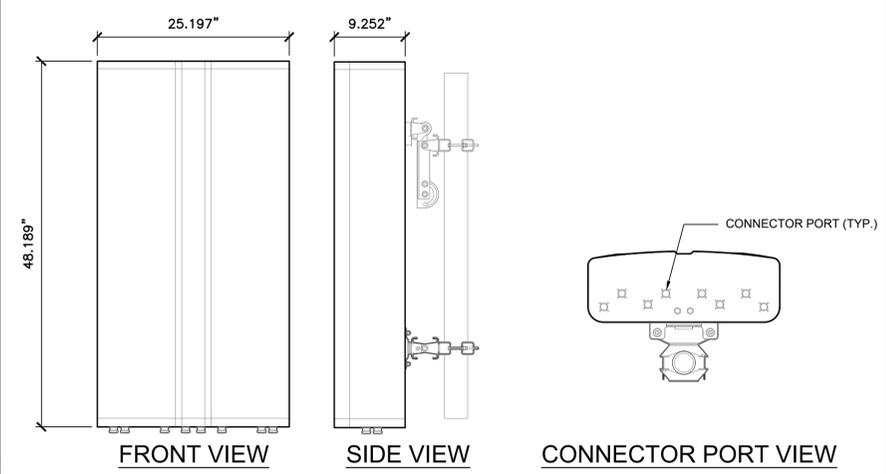
ERICSSON AIR 6449 ANTENNA DETAILS 2



Item	Description	QTY
1	CLAMP FRONT 800MHz	1
2	CLAMP REAR 800MHz	1
3	M12-200, GALV. DIN603/ISO8677, CLASS 8.8	1
4	SCREW H M12X110 CS 35K 8.8 GVRO ISO4017	4
5	WASHER FL 13X24X2.5 CS 200HV GVRO GB97	4
6	WASHER SP 12X3.5 65Mn 200HV GVRO GB7244	2
7	NUT H M12X19X10 CS 35K 8 GVRO DIN934	2
8	STUB FOR SCISSOR	1
9	DOWNTILT SCISSOR	1
10	DOWNTILT BEAM	1
11	MECHANICAL DOWNTILT INDICATOR 800MHz 2.6M	4
12	STUB SPACER 3mm	4
13	M8-100 GALV. ISO8677, CLASS 4.8	2
14	SPRING LOCK WASHER A8 DIN127 A2	2
15	FLAT WASHER DIN125 8.4 A2 (FRTR)	4
16	M8X1, 25 HEX NUT STL GALV.	2
17	SPACER FOR BOTTOM MOUNTING	2

MANUFACTURER:	RFS
MODEL:	AMP40-5E MOUNTING KIT
WEIGHT:	22 LBS

ANTENNA SPECIFICATIONS	
MANUFACTURER:	COMMSCOPE
MODEL:	FFHH-65A-R3
LENGTH:	48.189"
WIDTH:	25.197"
DEPTH:	9.252"
WEIGHT:	109.129 lbs



N.T.S.

RADIO MOUNTING BRACKET 5

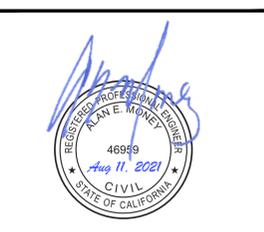
N.T.S.

RFS AMP40-5E ANTENNA MOUNT KIT DETAIL 3

N.T.S.

COMMSCOPE FFHH-65A-R3 ANTENNA DETAILS 1

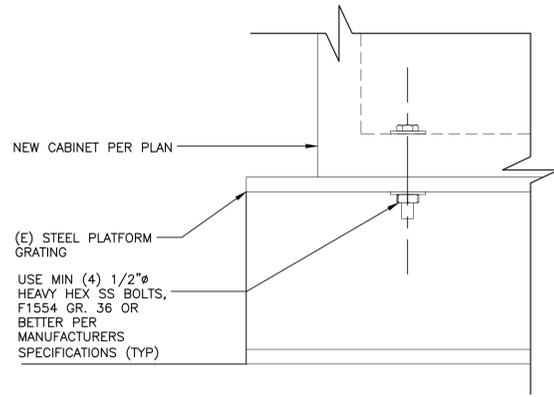
SF64142S
 SF64142S
 125 E SUNNYOAKS AVE
 CAMPBELL, CA 95008



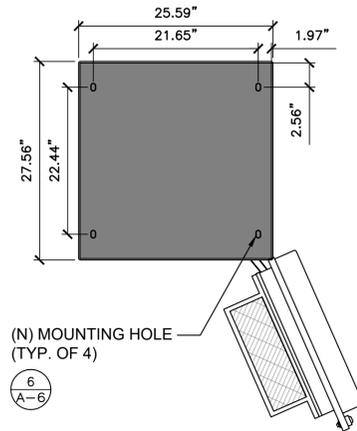
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SHEET TITLE
 EQUIPMENT DETAILS

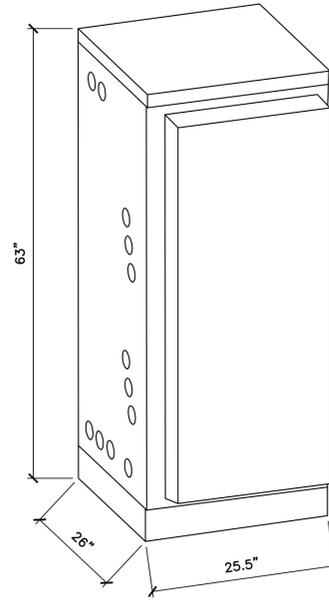
SHEET NUMBER
A-5



B160 SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: B160
 HEIGHT: 63"
 WIDTH: 25.5"
 DEPTH: 26"
 WEIGHT: 295 LBS (EMPTY)
 WEIGHT: 1883 LBS MAX. (W/
 3 BATTERY STRINGS)

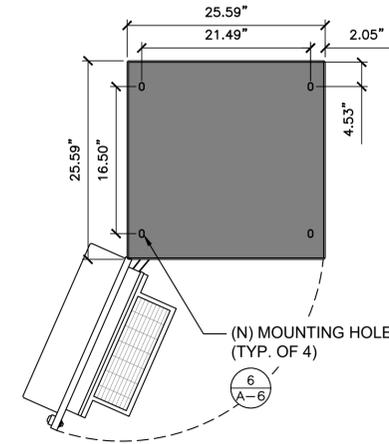


PLAN VIEW

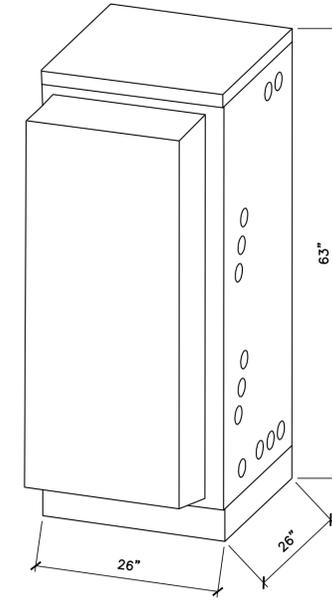


ISOMETRIC VIEW

SSC 6160 SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: 6160
 HEIGHT: 63"
 WIDTH: 26"
 DEPTH: 26"
 WEIGHT: 320 LBS (EMPTY)
 EQUIP: 120 LBS
 TOTAL: 440 LBS



PLAN VIEW

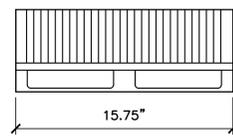


ISOMETRIC VIEW

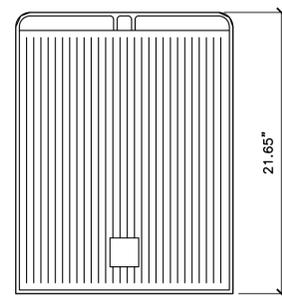
N.T.S. CABINET AT STEEL PLATFORM **6**

N.T.S. ERICSSON B160 DETAIL **4**

N.T.S. ERICSSON SSC 6160 DETAIL **2**



TOP VIEW

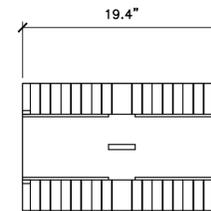


FRONT VIEW

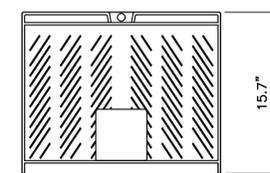


SIDE VIEW

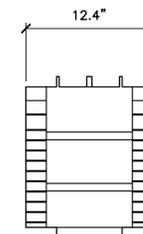
RADIO SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: DUAL-BAND 4480
 HEIGHT: 1'-9.65"
 WIDTH: 1'-3.75"
 DEPTH: 5.71"
 WEIGHT: 70.55 LBS (±4LBS)



TOP VIEW



FRONT VIEW



SIDE VIEW

RADIO SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: DUAL-BAND 4460
 HEIGHT: 1'-3.7"
 WIDTH: 1'-7.4"
 DEPTH: 1'-.4"
 WEIGHT: 108 LBS (±4LBS)

NOT USED **5**

N.T.S. ERICSSON DUAL BAND RADIO 4480 DETAIL **3**

N.T.S. ERICSSON DUAL BAND RADIO 4460 DETAIL **1**

DRAWN BY: AR
 CHECKED BY: ZHN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	06/14/21	ISSUED FOR 90% CD REVIEW	AR
B	07/16/21	ISSUED FOR 90% CD REVIEW	BWG
0	07/22/21	100% CDS	BWG

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SF64142S
SF64142S
 125 E SUNNYOAKS AVE
 CAMPBELL, CA 95008

Alan E. Money
 REGISTERED PROFESSIONAL ENGINEER
 ALAN E. MONEY
 46959
 Aug 11, 2021
 CIVIL
 STATE OF CALIFORNIA

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SHEET TITLE
 EQUIPMENT DETAILS

SHEET NUMBER
A-6

EXISTING ANTENNA SCHEDULE										
POSITION	ANTENNA			ANTENNA AZIMUTH	RAD CENTER	TMA/RRU	CABLE TYPE	CABLE LENGTH	JUMPERS	
	TECH	MODEL	SIZE							
ALPHA SECTOR	A1	U1900 L1900 L2100	RFS- APXVFRR12X-C	4'-0"	0°	35'-0"	(1) SAMSUNG SLS-B010JQ (1) SAMSUNG SMM-2LD0581900 (1) SAMSUNG SMM-2CR0480800	(1) HCS 3X6	40M	-
	A2	L700	ALPHA WIRELESS AW3266	4'-7"	0°	35'-0"	-	-	-	-
BETA SECTOR	B1	U1900 L1900 L2100	RFS- APXVFRR12X-C	4'-0"	120°	42'-0"	(1) SAMSUNG SLS-B010JQ (1) SAMSUNG SMM-2LD0581900 (1) SAMSUNG SMM-2CR0480800	(1) HCS 3X6	70M	-
	B2	L700	ALPHA WIRELESS AW3266	4'-7"	120°	42'-0"	-	-	-	-
GAMMA SECTOR	C1	U1900 L1900 L2100	RFS- APXVFRR12X-C	4'-0"	240°	42'-0"	(1) SAMSUNG SLS-B010JQ (1) SAMSUNG SMM-2LD0581900 (1) SAMSUNG SMM-2CR0480800	(1) HCS 3X6	140M	-
	C2	L700	ALPHA WIRELESS AW3266	4'-7"	240°	42'-0"	-	-	-	-
TOTAL		(3) RFS- APXVFRR12X-C (3) ALPHA WIRELESS AW3266			(3) SAMSUNG SLS-B010JQ (3) SAMSUNG SMM-2LD0581900 (3) SAMSUNG SMM-2CR0480800		(3) HCS 3X6		-	

NEW ANTENNA SCHEDULE										
POSITION	ANTENNA			ANTENNA AZIMUTH	RAD CENTER	TMA/RRU	CABLE TYPE	CABLE LENGTH	JUMPERS	
	TECH	MODEL	SIZE							
ALPHA SECTOR	A1	L700 L600 N600 G1900 L1900 L2100	COMMSCOPE FFHH-65A-R3	4'-2"	0°	28'-0"	(1) RRU 4480 B71+B85 (1) RRU 4460 B25+B66	HCS 6X24 4AWG HYBRID TRUNK CABLE	60m	(4) 6' SUREFLEX 4.3-10 TO 4.3-10 (4) 10' SUREFLEX 4.3-10 TO 4.3-10 (6) FIBER
	A2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	0°	28'-0"	-			(4) FIBER
BETA SECTOR	B1	L700 L600 N600 G1900 L1900 L2100	COMMSCOPE FFHH-65A-R3	4'-2"	90°	28'-0"	(1) RRU 4480 B71+B85 (1) RRU 4460 B25+B66	HCS 6X24 4AWG HYBRID TRUNK CABLE	70m	(4) 6' SUREFLEX 4.3-10 TO 4.3-10 (4) 10' SUREFLEX 4.3-10 TO 4.3-10 (6) FIBER
	B2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	90°	28'-0"	-			(4) FIBER
GAMMA SECTOR	C1	L700 L600 N600 G1900 L1900 L2100	COMMSCOPE FFHH-65A-R3	4'-2"	280°	28'-0"	(1) RRU 4480 B71+B85 (1) RRU 4460 B25+B66	HCS 6X24 4AWG HYBRID TRUNK CABLE	60m	(4) 6' SUREFLEX 4.3-10 TO 4.3-10 (4) 10' SUREFLEX 4.3-10 TO 4.3-10 (6) FIBER
	C2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	280°	28'-0"	-			(4) FIBER
TOTAL		(3) COMMSCOPE FFHH-65A-R3 (3) ERICSSON AIR6449 B41			(3) RRU 4480 B71+B85 (3) RRU 4460 B25+B66		(3) HCS 6X24 4AWG HYBRID TRUNK CABLES		(12) 6' SUREFLEX 4.3-10 TO 4.3-10 (12) 10' SUREFLEX 4.3-10 TO 4.3-10 (30) FIBER	

NOTE:
1. DO NOT USE RFDS COAX/CAB/E/FIBER LENGTHS FOR CUT LENGTHS: ESTIMATES ONLY.
2. CONFIRM THAT THE GENERAL CONTRACTOR IS USING LATEST VERSION OF RFDS



T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214
CLEVELAND, OH 44122

DRAWN BY: AR

CHECKED BY: ZHN

REVISIONS

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0	07/22/21	100% CDS	BWG

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SF64142S

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CAMPBELL, CA 95008



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SHEET TITLE

ANTENNA SCHEDULES

SHEET NUMBER

RF-1

7/13/2021 SF64142S_Sprint Retain_1_2021-07-13 SF64142S_Sprint Retain_1

RAN Template: 67E5A998E_6160 A&L Template: 67E5998E_1AIR+1OP Print Name: Standard (1) PORA: New Build_Sprint Keep

Section 5 - RAN Equipment

Existing RAN Equipment
---- This section is intentionally blank. ----

Proposed RAN Equipment

Template: 67E5A998E 6160

Enclosure	1	2	3
Enclosure Type	Enclosure 6160	RBS 6601	B160
Baseband	BB 6640 (L700, L2500, L2100, L1900, L600, N2500, N1900)	DUO20 (G1900)	
Hybrid Cable System	Ericsson Hybrid Trunk 624 4MWG 60m (x 2) Ericsson Hybrid Trunk 624 4MWG 70m		
Transport System	CSR WRe V2 (Gen2)		

RAN Scope of Work:

6/24 updated acmuth to 090280 as approved by performance team

SF64142S - 67E5A998E (2 antenna per sector sol.) - Octo Antenna

- 1) Add (3) commscope - FFH4 (4 ft), Octo port antenna (1) per sector
- 2) Add (3) AIR6449 LTE 2500-NR2500 (1) per sector
- 3) Add (3) Radio 4460 B71+B85 (near antenna - (1) per sector)(L6L7M) - connect to Octo port
- 4) Add (3) Radio 4460 B86+B25 (near antenna - (1) per sector)(L6L7M) - connect to Octo port
- 5) Add (1) enclosure 6160 site support cabinet & (1) B160 battery cabinet
- 6) Add (1) DUO20 (GSM) RBS 6601 include 6160
- 7) Add (2) BBS648 inside 6160 cabinet: (1) for L19L21, (1) for L600L700/N600 inside enclosure 6160
- 8) Add (1) BBS648 for AIR6449 NR200L2500 inside enclosure 6160
- 9) Add (3) Radio 6904 6904 70M 4MWG
- 10) Add (2) PSU 4813 voltage booster
- 11) Add (1) new WRE router

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7/13/2021 SF64142S_Sprint Retain_1_2021-07-13 SF64142S_Sprint Retain_1

RAN Template: 67E5A998E_6160 A&L Template: 67E5998E_1AIR+1OP Print Name: Standard (1) PORA: New Build_Sprint Keep

Section 6 - A&L Equipment

Existing Template: Custom
Proposed Template: 67E5998E_1AIR+1OP

Sector 1 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Commscope - FFH4-65A-R3 (Octo)			Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		
Antenna Azimuth	0			0		
M. Tilt	0			0		
Height	28			28		
Ports	P1	P2	P3	P4	P5	P6
Active Tech.	L700 (L600, N600)	L700 (L600, N600)	L2100 (L1900, G1900)	L2100 (L1900, G1900)	L2500 (N2500)	L2500 (N2500)
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt	0	0	0	0	0	0
Cables	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 - 6 R. (x2) Fiber Jumper	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 - 6 R. (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 - 10 R. (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 - 10 R. (x2) Fiber Jumper	Fiber Jumper (x2)	Fiber Jumper (x2)
TMA's						
Diplexers / Combiners						
Radio	Radio 4460 B71+B85 (At Antenna)		Radio 4460 B25+B66 (At Antenna)			

Unconnected Equipment:

Scope of Work:

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7/13/2021 SF64142S_Sprint Retain_1_2021-07-13 SF64142S_Sprint Retain_1

RAN Template: 67E5A998E_6160 A&L Template: 67E5998E_1AIR+1OP Print Name: Standard (1) PORA: New Build_Sprint Keep

Sector 2 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Commscope - FFH4-65A-R3 (Octo)			Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		
Antenna Azimuth	90			90		
M. Tilt	0			0		
Height	28			28		
Ports	P1	P2	P3	P4	P5	P6
Active Tech.	L700 (L600, N600)	L700 (L600, N600)	L2100 (G1900, L1900)	L2100 (G1900, L1900)	L2500 (N2500)	L2500 (N2500)
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt	0	0	0	0	0	0
Cables	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 - 6 R. (x2) Fiber Jumper	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 - 6 R. (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 - 10 R. (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 - 10 R. (x2) Fiber Jumper	Fiber Jumper (x2)	Fiber Jumper (x2)
TMA's						
Diplexers / Combiners						
Radio	Radio 4460 B71+B85 (At Antenna)		Radio 4460 B25+B66 (At Antenna)			

Unconnected Equipment:

Scope of Work:

https://rfd-prod-web-core-secure.geo.cf.t-mobile.com/DataSheet/Printout?id=145868d-0dfa-4835-b2b-e4232072b21&layoutid=6123048c-430b-4aa... 6/8

7/13/2021 SF64142S_Sprint Retain_1_2021-07-13 SF64142S_Sprint Retain_1

RAN Template: 67E5A998E_6160 A&L Template: 67E5998E_1AIR+1OP Print Name: Standard (1) PORA: New Build_Sprint Keep

Sector 3 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1			2		
Antenna Model	Commscope - FFH4-65A-R3 (Octo)			Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		
Antenna Azimuth	280			280		
M. Tilt	0			0		
Height	28			28		
Ports	P1	P2	P3	P4	P5	P6
Active Tech.	L700 (L600, N600)	L700 (L600, N600)	L2100 (G1900, L1900)	L2100 (G1900, L1900)	L2500 (N2500)	L2500 (N2500)
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt	0	0	0	0	0	0
Cables	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 - 6 R. (x2) Fiber Jumper	JUMPER 6 FT SUREFLEX 4.3-10 TO 4.3-10 - 6 R. (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 - 10 R. (x2) Fiber Jumper	JUMPER 10 FT SUREFLEX 4.3-10 TO 4.3-10 - 10 R. (x2) Fiber Jumper	Fiber Jumper (x2)	Fiber Jumper (x2)
TMA's						
Diplexers / Combiners						
Radio	Radio 4460 B71+B85 (At Antenna)		Radio 4460 B25+B66 (At Antenna)			

Unconnected Equipment:

Scope of Work:

https://rfd-prod-web-core-secure.geo.cf.t-mobile.com/DataSheet/Printout?id=145868d-0dfa-4835-b2b-e4232072b21&layoutid=6123048c-430b-4aa... 7/8



T-MOBILE WEST LLC
1855 GATEWAY BLVD, STE 900
CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214
CLEVELAND, OH 44122

DRAWN BY: AR
CHECKED BY: ZHN

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0	07/22/21	100% CDS	BWG

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SF64142S
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125 E SUNNYOAKS AVE
CAMPBELL, CA 95008



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SHEET TITLE
RFD'S INFORMATION

SHEET NUMBER
RF-2

KEY NOTES

- 1 MECHANICAL CONNECTION
- 2 NEW T-MOBILE EQUIPMENT CABINET
- 3 MASTER GROUND BUS BAR AT EQUIPMENT (DETAIL 7/G-2) (CONTRACTOR TO FIELD VERIFY LOCATION)
- 4 ANTENNA GROUND BUS BAR NEAR ANTENNAS (CONTRACTOR TO FIELD VERIFY LOCATION)
- 5 (2) #2 BARE TINNED COPPER WIRES FROM NEW CABINET TO NEW MASTER GROUND BAR
- 6 AWG 2 INSULATED COPPER GROUND WIRE TO GROUND RING.
- 7 AWG 6 INSULATED COPPER GROUND WIRE FROM ANTENNA GROUND KIT TO ANTENNA BUS BAR (TYP.)
- 8 AWG 2 INSULATED COPPER GROUND FROM RRU, PIPE MOUNT TO ANTENNA BUS BAR
- 9 AWG 2 INSULATED COPPER GROUND WIRE CONNECTED TO MASTER GROUND BUS BAR.
- 10 AWG 2 TO BUILDING STEEL OR (E) BUILDING SERVICE GROUND
- 11 COPPER CLAD GROUND ROD SEE DETAIL 8, G-2
- 12 GROUND TEST WELL SEE DETAIL 6, G-2

LEGEND

- MECHANICAL CONNECTION
- EXOTHERMIC WELD (CADWELD/THERMOWELD) CONNECTION.
- G — #2 AWG INSULATED, COPPER WIRE (UNLESS OTHERWISE SPECIFIED).

GENERAL NOTES:

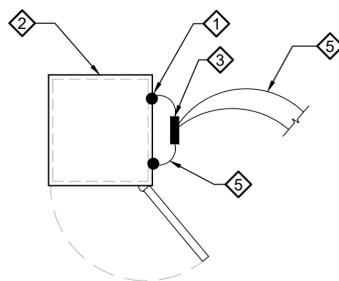
1. PLAN DRAWINGS SHOWN HEREIN ARE DIAGRAMMATIC AND DO NOT NECESSARILY DEPICT THE EXACT EQUIPMENT QUANTITIES, LOCATION, LAYOUT AND CONFIGURATION. REFER TO ARCHITECTURAL PLANS FOR EXACT EQUIPMENT LOCATION, LAYOUT AND CONFIGURATION.
2. PLAN DRAWINGS SHOWN HEREIN DO NOT NECESSARILY DEPICT ELECTRICAL REQUIREMENTS OF INDIVIDUAL EQUIPMENT AND DEVICES SUCH AS THE EQUIPMENT GROUNDING REQUIREMENTS, POWER REQUIREMENTS AND TELCO RACEWAY REQUIREMENTS.
3. REFER TO A-1 FOR THE LOCATION OF POWER AND TELCO POINT OF CONNECTIONS, THE DISTANCE OF THE RUN AND THE SUGGESTED CONDUIT ROUTING. FIELD VERIFY EXISTING CONDITIONS SPECIFICALLY FOR CONDUIT ROUTING PRIOR TO BID.

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURER'S PRACTICES. ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
3. ALL GROUND CONNECTIONS SHALL BE #2 AWG U.N.O. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 5 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE T-MOBILE REPRESENTATIVE.
5. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
6. BARE GROUNDING CONDUCTOR SHALL BE HARD DRAWN TINNED COPPER SIZES AS NOTED ON PLAN.
7. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED MINIMUM 12" BELOW GRADE/FROST-LINE IN TRENCH, U.N.O., AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT.
8. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
9. ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" (OR DIRECTLY TO GROUND-RING).
10. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
 - a. BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR INDOOR USE OR AS APPROVED BY T-MOBILE PROJECT MANAGER.
 - b. CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
 - c. TWO (-2) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS (BUS BAR CONNECTIONS).
11. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES).
12. PRIOR TO ANY LUG-BUSSBAR CONNECTIONS, THE BUS BAR SHALL BE CLEANED BY USE OF "SCOTCH-BRITE" OR PLAIN STEEL WOOL AS TO REMOVE ALL SURFACE OXIDATION AND CONTAMINANTS. A COATING OF "NO-OX-ID" SHALL BE APPLIED TO THE CONNECTION SURFACES.
13. ALL CONNECTION HARDWARE SHALL BE TYPE 316 SS (NOT ATTRACTED TO MAGNETS).
14. THE GROUND RING SHALL BE INSTALLED 24" MINIMUM BEYOND ANY BUILDING DRIP LINE.
15. ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250 AND SHALL BOND ALL EXISTING AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS, GROUND RING IF SERVICE IS WITHIN THE RADIO EQUIPMENT LOCATION, BUILDING STEEL IF APPLICABLE, COLD WATER CONNECTIONS MUST BE MADE ON THE STREET SIDE OF MAIN SHUT-OFF VALVE.

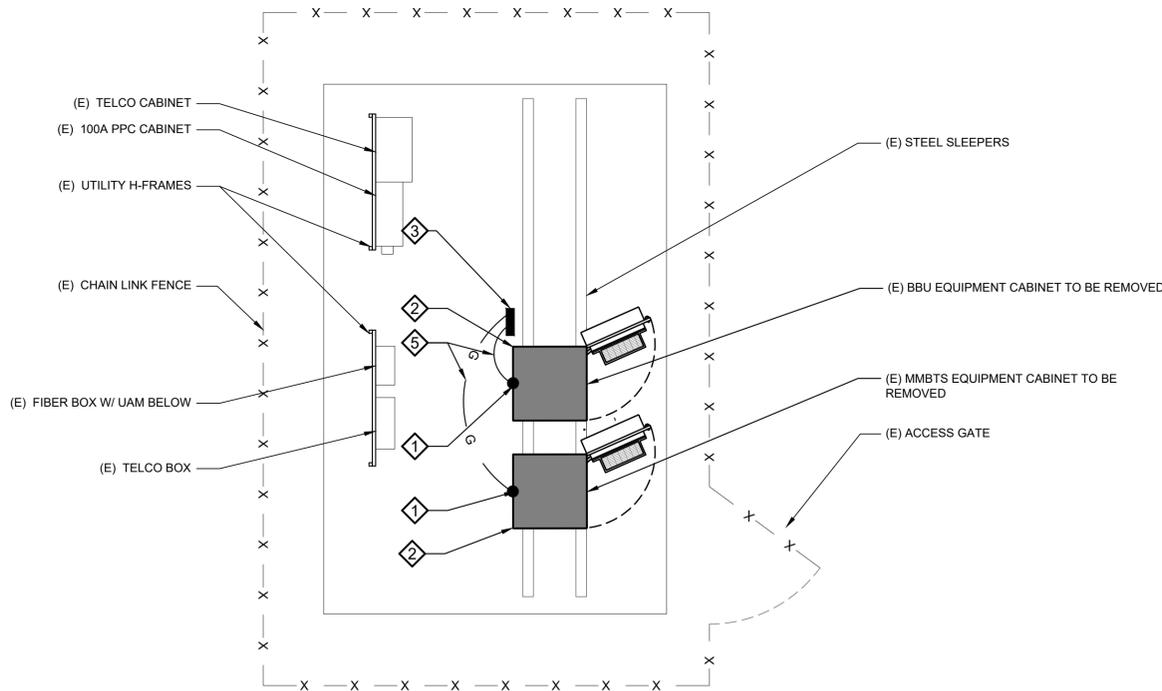
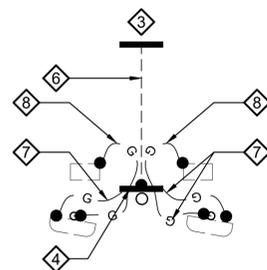
GROUNDING NOTES 2

NOTE: THIS PLAN IS NOT INTENDED TO SHOW ALL EXISTING GROUNDING. ONLY PROPOSED GROUNDING AND MAIN GROUND BARS ARE DEPICTED

EQUIPMENT GROUNDING



TYP. ANTENNA GROUNDING

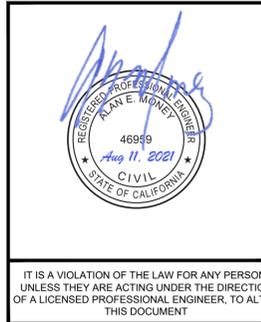


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CAMPBELL, CA 95008



SHEET TITLE
GROUNDING SCHEMATIC & NOTES

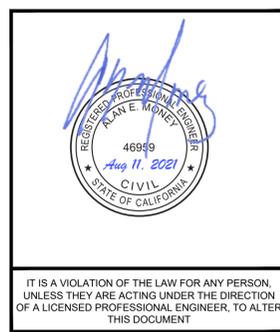
SHEET NUMBER
G-1

DRAWN BY: AR
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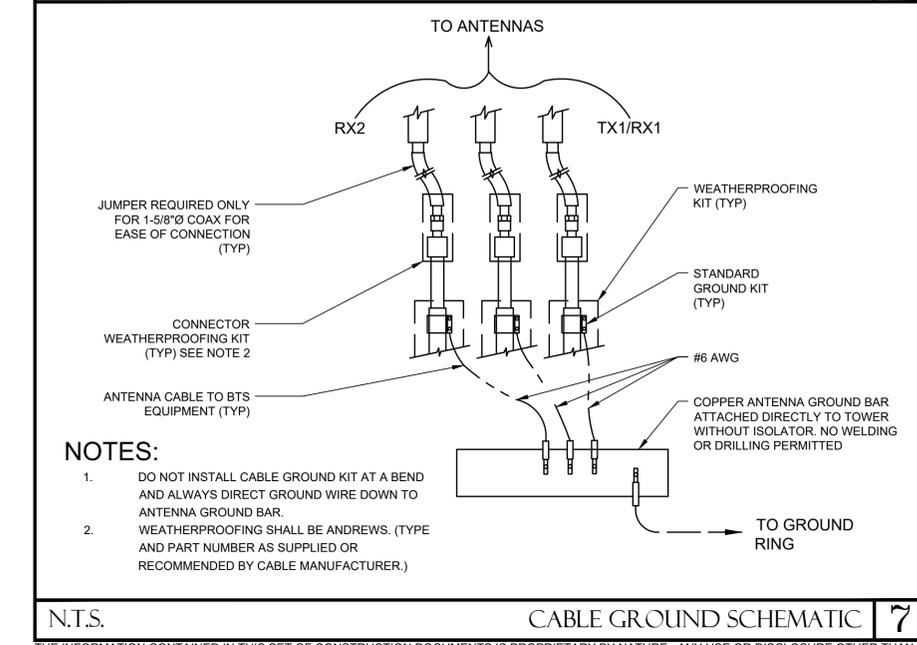
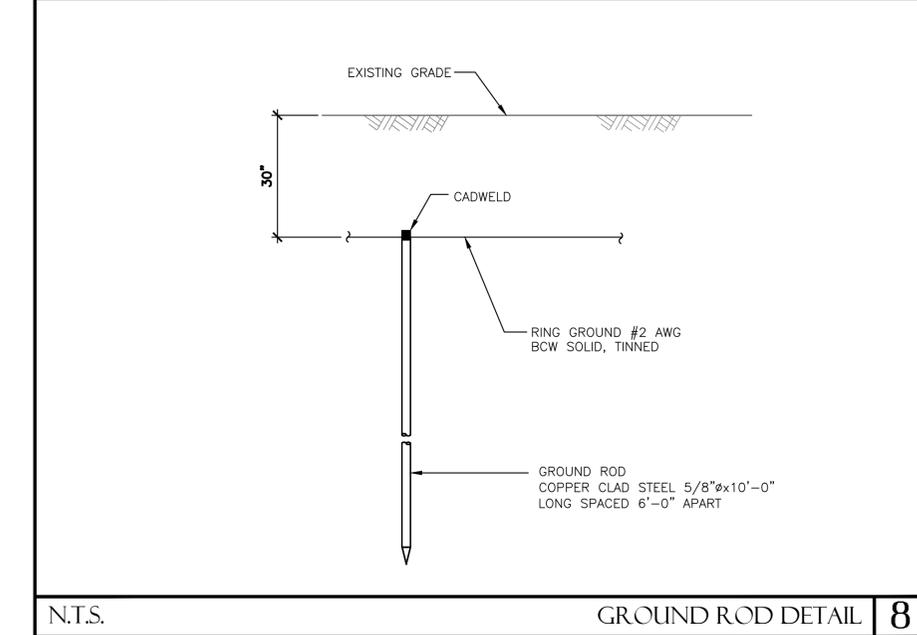
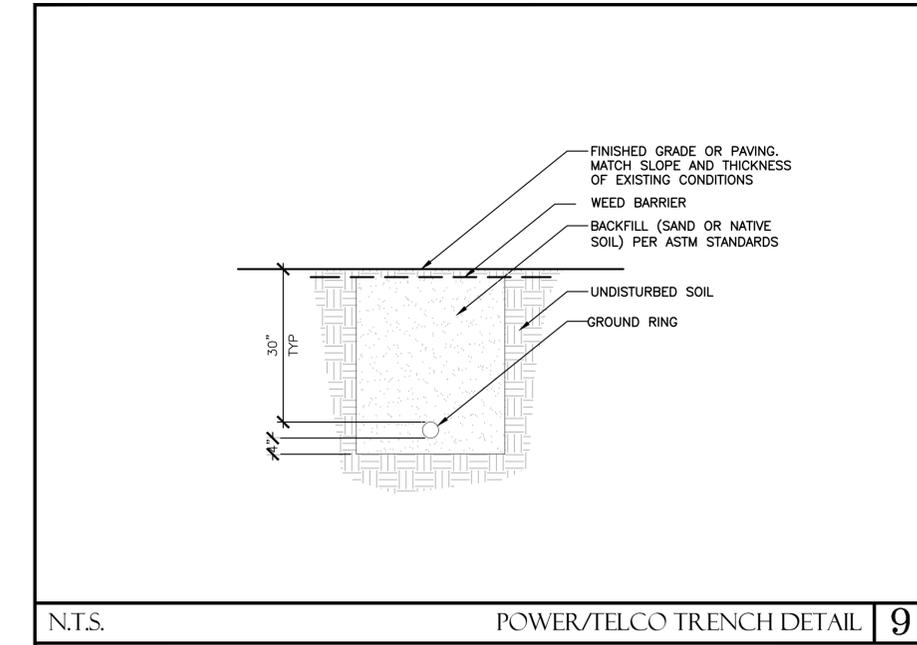
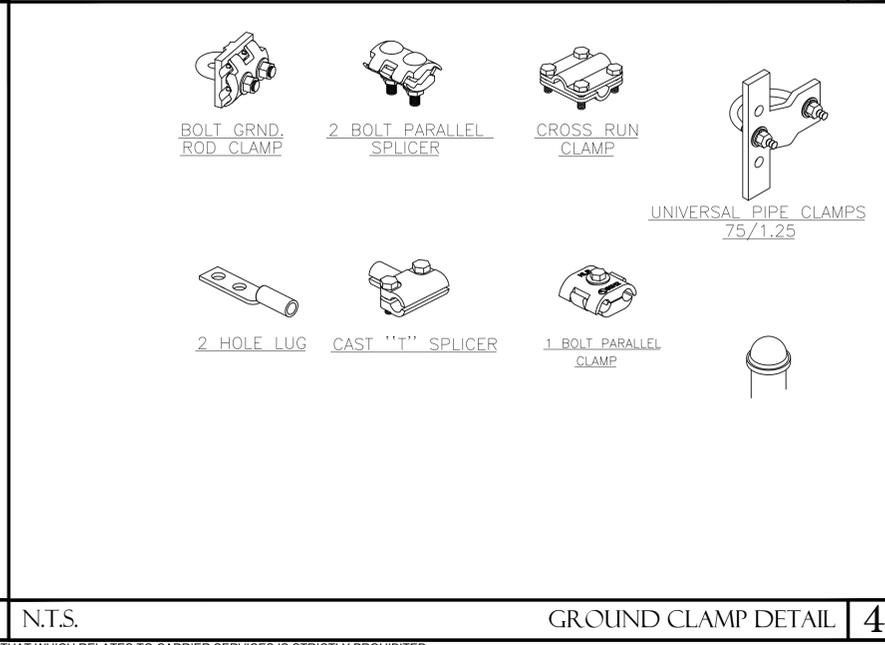
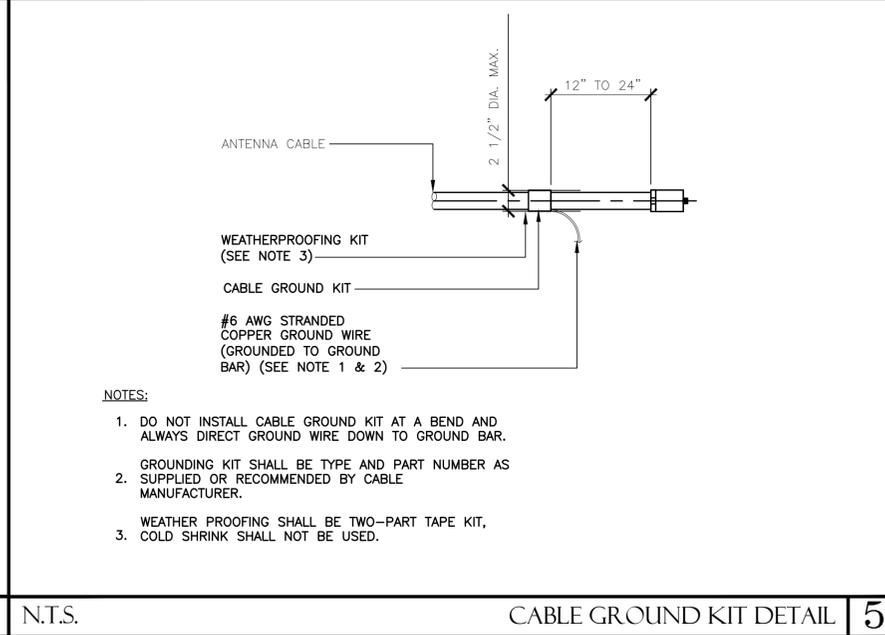
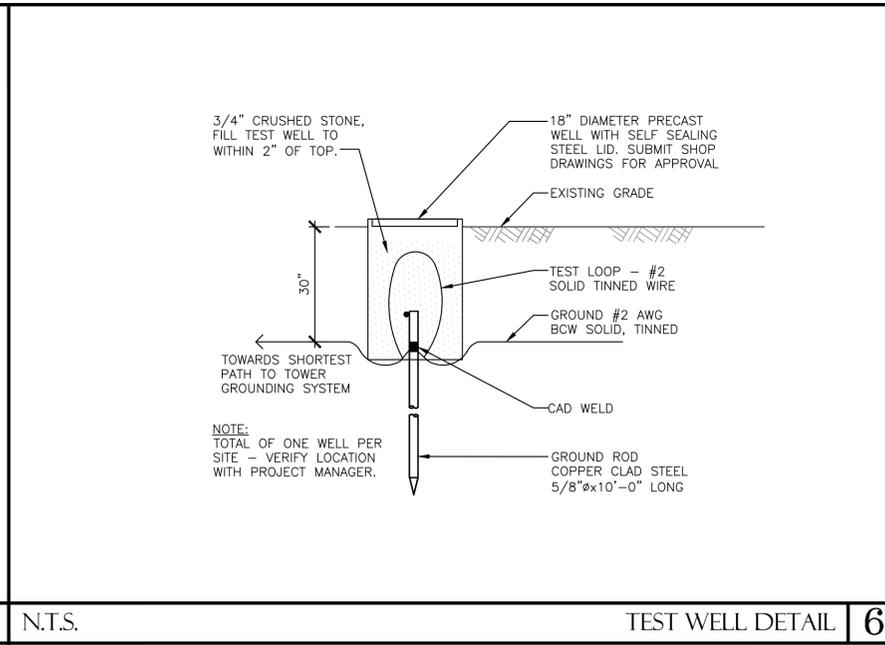
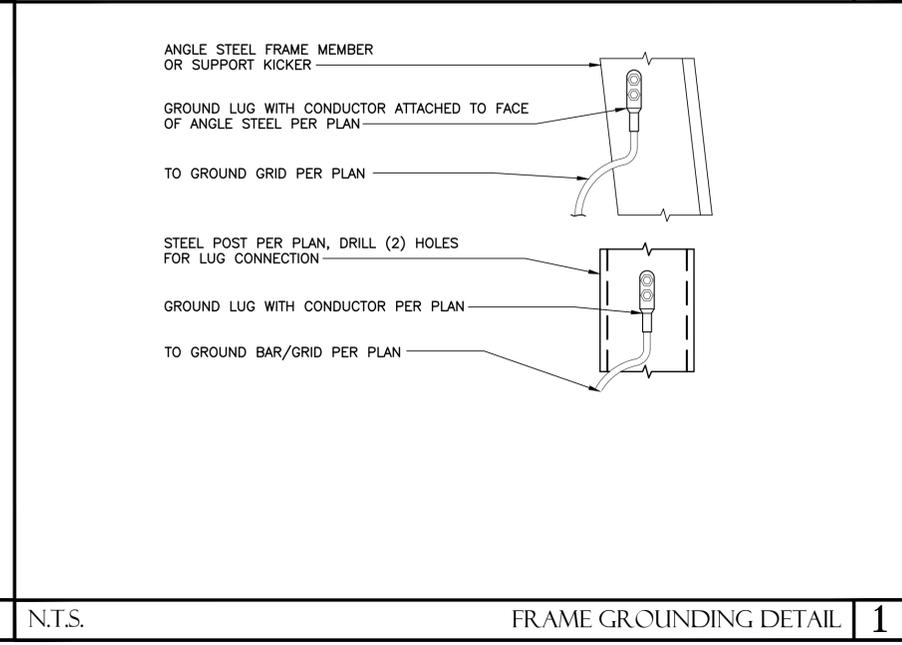
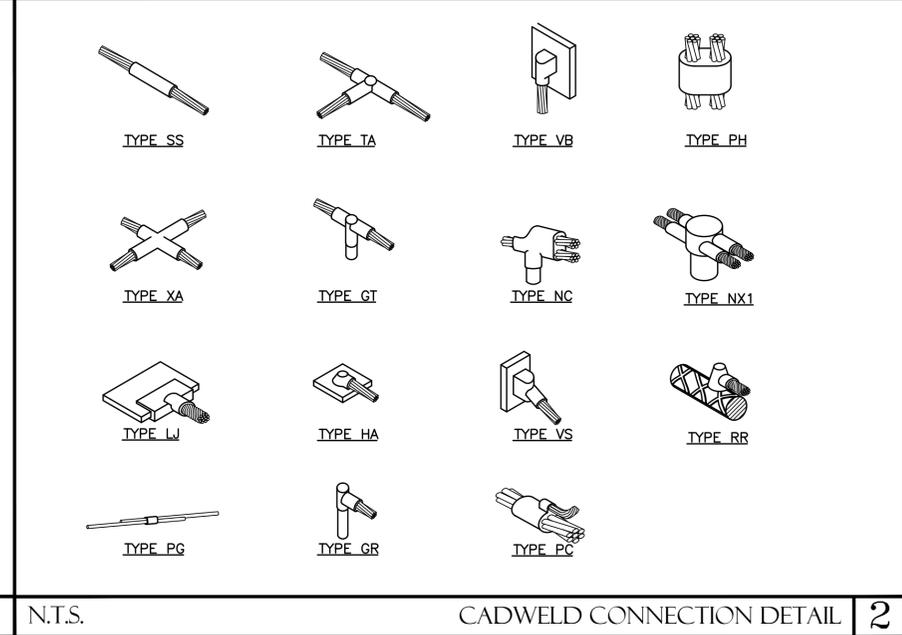
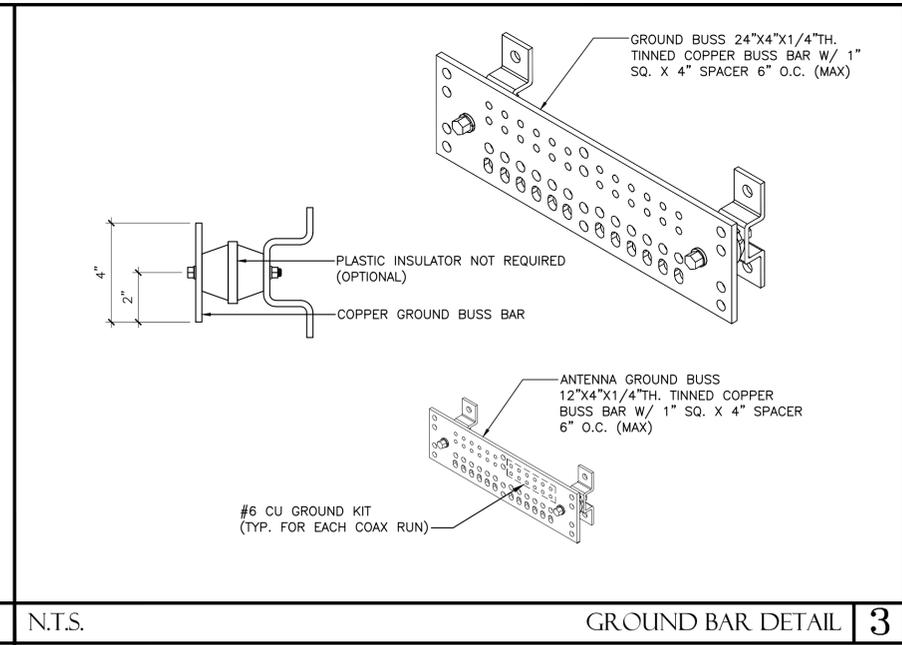
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SHEET TITLE
 GROUNDING DETAILS

SHEET NUMBER
G-2



N.T.S. POWER/TELCO TRENCH DETAIL 9

N.T.S. TEST WELL DETAIL 6

N.T.S. GROUND BAR DETAIL 3

N.T.S. GROUND ROD DETAIL 8

N.T.S. CABLE GROUND KIT DETAIL 5

N.T.S. CADWELD CONNECTION DETAIL 2

N.T.S. CABLE GROUND SCHEMATIC 7

N.T.S. GROUND CLAMP DETAIL 4

N.T.S. FRAME GROUNDING DETAIL 1

ELECTRIC NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE CEC AS WELL AS ALL APPLICABLE STATE & LOCAL CODES.
- CONTRACTOR SHALL FURNISH & INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, & PERFORM ALL TRENCHING & BACKFILLING REQUIRED IN THE PLANS
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED & PROCURED PER PLAN SPECIFICATIONS.
- ALL CIRCUIT BREAKERS, FUSES, & ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED W/ A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- ELECTRICAL WIRING SHALL BE COPPER #12 MIN W/ TYPE XHHW, THWN, OR THHN INSULATION
- ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
- A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE & HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.

ELECTRICAL NOTES 2

EXISTING PANELBOARD SCHEDULE "PPC"		LOCATION: EQUIPMENT LEASE AREA	
C.B. RATING 10,000 A.I.C.		C.B. RATING 10,000 A.I.C.	
VOLTAGE: 120/240 V., 1Ø, 3 W.		MAINS: 100A	
MOUNTING: SURFACE		TYPE: GE A.O. OR EQUAL	
USE and/or AREA SERVED	C/B	CIR NO	LOAD
		ØA	ØB
BBU	15/2	1	-
		3	-
		4	-
MMBS	100/2	5	8460
		7	8460
		8	-
REFRIGERATION CONTROL	20/1	9	700
BLANK	10/1	11	1200
		12	-
		13	-
-	-	14	-
-	-	15	-
-	-	16	-
-	-	17	-
-	-	18	-
-	-	19	-
-	-	20	-
-	-	21	-
-	-	22	-
-	-	23	-
-	-	24	-
TOTAL LOAD PER PHASE		9160	9660
		18820 VA ±240V = 78.416AMPS	

* LOAD AT 125% PER N.E.C. ○ LOCK ON DEVICES ON C.B.'s

EXISTING PANEL SCHEDULE 3

NEW PANELBOARD SCHEDULE "PPC"		LOCATION: EQUIPMENT LEASE AREA	
C.B. RATING 10,000 A.I.C.		C.B. RATING 10,000 A.I.C.	
VOLTAGE: 120/240 V., 1Ø, 3 W.		MAINS: 100A	
MOUNTING: SURFACE		TYPE: GE A.O. OR EQUAL	
USE and/or AREA SERVED	C/B	CIR NO	LOAD
		ØA	ØB
EMPTY	15/2	1	-
		3	-
		4	-
E6160	100/2	5	8640
		7	8640
		8	-
REFRIGERATION CONTROL	20/1	9	700
BLANK	10/1	11	1200
		12	-
		13	-
-	-	14	-
-	-	15	-
-	-	16	-
-	-	17	-
-	-	18	-
-	-	19	-
-	-	20	-
-	-	21	-
-	-	22	-
-	-	23	-
-	-	24	-
TOTAL LOAD PER PHASE		9340	9840
		19180 VA ±240V = 79.916AMPS	

* LOAD AT 125% PER N.E.C. ○ LOCK ON DEVICES ON C.B.'s

NEW PANEL SCHEDULE 4

3.4.2 FUSE RECOMMENDATIONS FOR AC INPUT

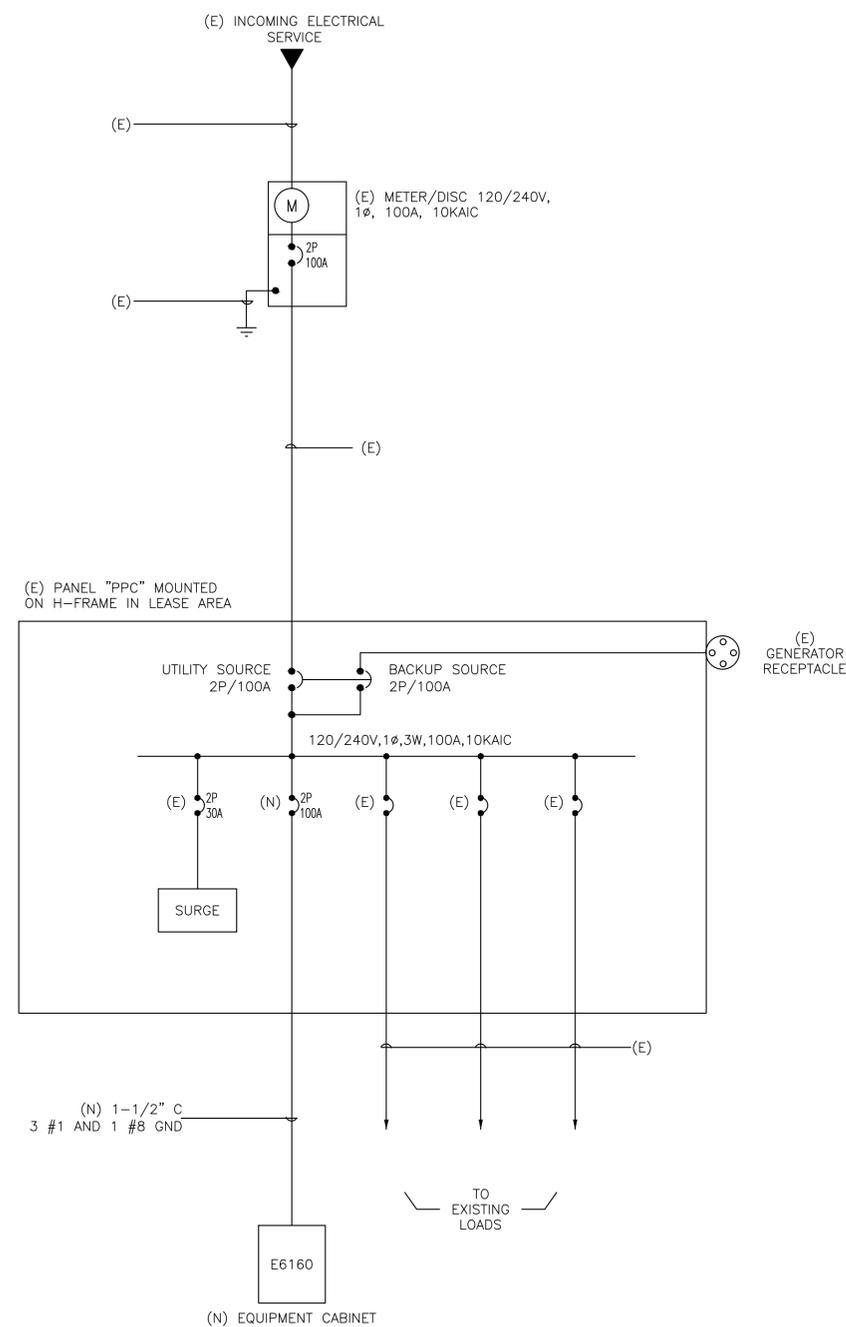
THE TABLE LISTS THE RECOMMENDED FUSE VALUES FOR DIFFERENT AMOUNT OF INSTALLED RECTIFIERS.

Amount of Rectifiers	Input Current (A)	Recommended AC Fuses (A)
1	18	25
2	36	50
3	54	80
4	72	100
5	90	125
6	108	125
7	126	150
8	144	175
9	162	200

ERICSSON 6160 CABINET, TABLE 7 5

ELECTRIC LEGEND:

- MECHANICAL INTERLINK
- METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF



DRAWN BY: AR
CHECKED BY: ZHN

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	06/14/21	ISSUED FOR 90% CD REVIEW	AR
B	07/16/21	ISSUED FOR 90% CD REVIEW	BWG
0	07/22/21	100% CDS	BWG

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IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

SHEET TITLE
ELECTRICAL SITE PLAN,
PANEL SCHEDULE & 1-LINE

SHEET NUMBER
E-1

ONE LINE DIAGRAM 1

PROJECT DESCRIPTION:

MODIFICATION DRAWINGS FOR SF64142S MOUNT

SITE NAME:

SF64142S - SPRINT RETAIN

SITE ADDRESS:

125 E SUNNYOAKS AVE CAMPBELL, CA 95008

COORDINATES:

LAT: 37° 16' 21.1296" N,

LONG: -121° 57' 2.739" W

THIS REPORT WAS BASED ON A SPECIFIC ANTENNA AND COAX CONFIGURATION PROVIDED BY THE TOWER OWNER. ANY CHANGE TO THIS INFORMATION MUST BE REVIEWED BY AMMTEC Consultants.

ALL CONSTRUCTION SHALL COMPLY WITH THE ANSI/ASSE A10.48 AND ANSI/TIA-222 STANDARDS.

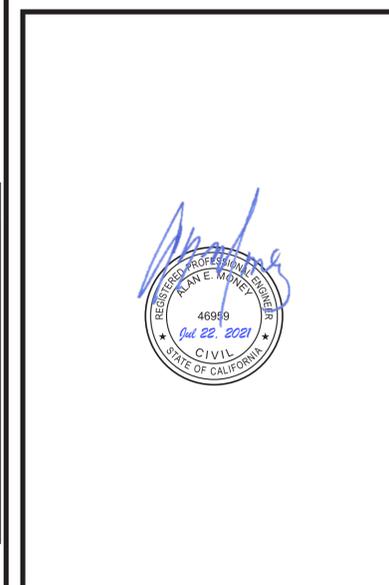
PROJECT DATA	
CODES AND STANDARDS	
BUILDING CODE	2019 CALIFORNIA BUILDING CODE
TIA STANDARD	ANSI/TIA-222-H
ULTIMATE SPEED WITHOUT ICE (MPH)	102
BASIC WIND SPEED (MPH)	91
EXPOSURE CATEGORY	C
SS (G)	1.787
S1 (G)	0.632

SHEET INDEX		
SHEET	DESCRIPTION	REV
G-1	TITLE SHEET	0
N-1	MODIFICATION INSPECTION CHECKLIST	0
N-2	GENERAL NOTES 1	0
S-1	ALPHA/BETA/GAMMA SECTOR MODIFICATION SCHEDULE	0

ISSUED FOR:			



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Sheet G1

MI CHECKLIST

INSPECTIONS AND TESTING REQUIRED	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
N/A	EOR APPROVED SHOP DRAWINGS
N/A	FABRICATION INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
N/A	FABRICATOR NDE INSPECTION
N/A	NDE REPORT OF MONOPOLE BASE PLATE
N/A	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMPRESSIVE STRENGTH AND SLUMP TESTS
N/A	POST INSTALLED ANCHOR ROD VERIFICATION
N/A	BASE PLATE GROUT VERIFICATION
N/A	CONTRACTOR'S CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZATIONS
N/A	GUY WIRE TENSION REPORT
X	GC AS BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	MI INSPECTOR REDLINE
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PMI REPORT
 N/A DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PMI REPORT

MODIFICATION INSPECTION NOTES:

GENERAL:

- 1.) THE POST CONSTRUCTION MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MOUNT MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO DOCUMENT THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
- 2.) THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN.
- 3.) TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR T-MOBILE POINT OF CONTACT (POC)

MI INSPECTOR:

- 1.) (AT A MINIMUM)THE MI INSPECTOR IS REQUIRED TO:
 - CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO
 - REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTION, INCLUDING FOUNDATION INSPECTIONS
- 2.) THE PCI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO T-MOBILE.

CORRECTION OF FAILING MI'S:

- 1.) IF THE MODIFICATION INSTALLATION WOULD FAIL, THE MI ("FAILED MI"), THE GC SHALL WORK WITH T-MOBILE TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.
 - OR, WITH T-MOBILE APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

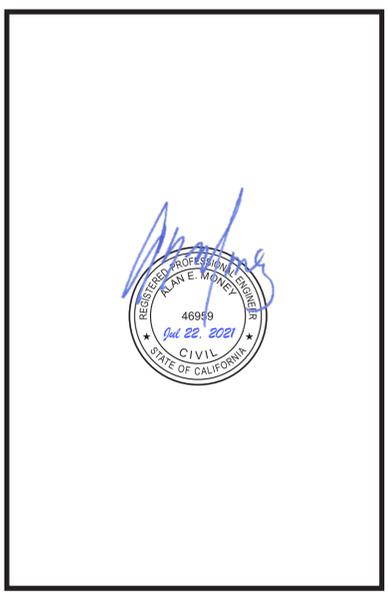
REQUIRED PHOTOS:

- 1.) BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - FINAL INSTALLED CONDITION
 - FINAL INFIELD CONDITION
- 2.) PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE

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Sheet N1
 Notes

GENERAL NOTES:

- 1.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE PROJECT AND ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 2.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO T-MOBILE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
- 3.) INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO T-MOBILE FOR ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE T-MOBILE APPROVAL.
- 4.) IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
- 5.) CONTRACTORS SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION CONDITION.
- 6.) THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL PARTS THEREOF SHALL NOT BE IMPEDED, MODIFIED OR ALTERED WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE ENGINEER RECORD.
- 7.) ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE GC AND/OR FABRICATOR.

CONTRACTOR QUALIFICATION NOTES:

- 1.) ALL INSTALLATIONS SHALL BE PERFORMED BY A CONTRACTOR WITH A MINIMUM 5 YEARS EXPERIENCE IN RETROFIT AND WITH WORKING KNOWLEDGE OF THE ANSI/TIA-222-H "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS".
- 2.) CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. SHOULD THE CONTRACTOR REQUIRE DIRECT CONSULTATION, T-MOBILE IS WILLING TO OFFER SERVICES BASED UPON AN AGREED FEE FOR THE WORK REQUIRED.
- 3.) ALL SUBMITTAL INFORMATION MUST BE SENT TO T-MOBILE. ANY VARIATION OF THESE SPECIFICATIONS OR DRAWINGS WITHOUT CONSENT FROM T-MOBILE WILL VOID ANY RESPONSIBILITY OR LIABILITY FOR DAMAGE (MATERIAL OR PHYSICAL) TOWARDS T-MOBILE.
- 4.) ALL CONSTRUCTION TO BE IN ACCORDANCE WITH TH ANSI/ASSE A10.48 AND ANSI/TIA-322 STANDARDS.

JOB SITE SAFETY AND NOTES:

NEITHER THE PROFESSIONAL ACTIVITIES OF T-MOBILE NOR THE PRESENCE OF T-MOBILE OR EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, AND WARRANTS THAT THIS INTENT IS EVIDENT BY ACCEPTING THIS WORK.

STEEL:

- 1.) ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LAST AISC CODE AND ASTM SPECIFICATIONS.
- 2.) ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES NOTED IN THE STEEL GRADE SCHEDULE OR SPECIFIED HEIGHT STRENGTH BOLTS TO BE ASTM A325N, THREAD INCLUDED WITH SHEAR PLANE (UNLESS OTHERWISE NOTED).
- 3.) ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC 13 PART 16.2, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", SECTION 8.1, UNLESS OTHERWISE SPECIFIED. WHEN "X" TYPE BOLTS ARE USED, CONTRACTOR MAY BE REQUIRED TO STACK ADDITIONAL WASHERS TO OBTAIN PROPER SNUG TIGHT INSTALLATION. ALL NUTS SHALL BE HEAVY HEX UNLESS OTHERWISE NOTED.
- 4.) ALL STEEL, AFTER FABRICATION, SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH MULTIPLE COATS OF ZRC COLD GALVANIZING COMPOUND ACHIEVING A MINIMUM OF 4 MILS DRY FILM PER ASTM A 780.
- 5.) ALL SHOP AND FIELD WELDING SHALL BE DONE BY WELDERS QUALIFIED AS DESCRIBED IN THE "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. CONTRACTOR IS REQUIRED TO PROVIDE WITH A PASSING CERTIFIED WELDING INSPECTION FOR ALL WELDS.
- 6.) STRUCTURAL STEEL MAY NOT BE TORCH CUT FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC STANDARDS.

MISC NOTES:

- 1.) ALL MODIFICATIONS ARE ASSUMED TO BE MADE ON AN EMPTY MOUNT. CONTRACTOR IS RESPONSIBLE TO MAKE PROVISIONS TO REMOVE EXISTING ANTENNAS AND TRANSMISSION LINES. MODIFICATIONS MUST BE CONTINUOUS THROUGH ALL AREAS SHOWN.
- 2.) CONTRACTOR FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

FABRICATION NOTES:

- 1.) ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.
- 2.) NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES. SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION.

SUBSTITUTES AND/OR EQUALS:

1.) IF CONTRACTOR WISHES TO FURNISH OR USE A SUBSTITUTE ITEM OF MATERIAL OR EQUIPMENT, CONTRACTOR SHALL FIRST MAKE WRITTEN APPLICATION TO ENGINEER FOR RECORD OF ACCEPTANCE THEREOF, CERTIFYING THAT THE PROPOSED SUBSTITUTE WILL PERFORM ADEQUATELY THE FUNCTIONS AND ACHIEVE THE RESULTS. CALLED FOR BY THE GENERAL DESIGN, BE SIMILAR IS SUBSTANCE TO THAT SPECIFIED AND SUITED TO THE SAME USE AS THAT SPECIFIED. ALL VARIATIONS OF THE PROPOSED SUBSTITUTE FROM THAT SPECIFIED WILL BE IDENTIFIED IN THE APPLICATION AND AVAILABLE MAINTENANCE, REPAIR, AND REPLACEMENT SERVICE WILL BE INDICATED. THE APPLICATION WILL ALSO CONTAIN AND ITEMIZED ESTIMATE OF ALL COSTS OR CREDITS THAT WILL RESULT DIRECTLY OR INDIRECTLY FROM ACCEPTANCE OF SUCH SUBSTITUTE INCLUDING COSTS OF REDESIGN AND CLAIMS OF OTHER CONTRACTORS AFFECTED BY THE RESULTING CHANGE, ALL OF WHICH WILL BE CONSIDERED BY ENGINEER OF RECORD IN EVALUATION OF THE PROPOSED SUBSTITUTE. ENGINEER OF RECORD MAY REQUIRE CONTRACTOR TO FURNISH ADDITIONAL DATA ABOUT THE PROPOSED SUBSTITUTE.

A490 OR A354-GR. BD BOLT NOTES:

- 1.) ALL A490 OR 354-GR. BD BOLTS SHALL BE COATED WITH A ZINC/ALUMINUM COATING (MAGNI 565 OR APPROVED EQUAL) PER ASTM FF1136, BY THE BOLT MANUFACTURER.
- 2.) A490 OR 354-GR. BD BOLTS SHALL NOT BE GALVANIZED.
- 3.) CONTRACTOR TO PROVIDE FULL DOCUMENTATION ON A490 OR 354-GR. BD BOLTS PRIOR TO INSTALLATION.

OTHER:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT THAT ALL ELEMENTS AND CONNECTIONS ARE IN "GOOD" CONDITION REGARDLESS IF IT IS BEING REPLACED OR NOT.

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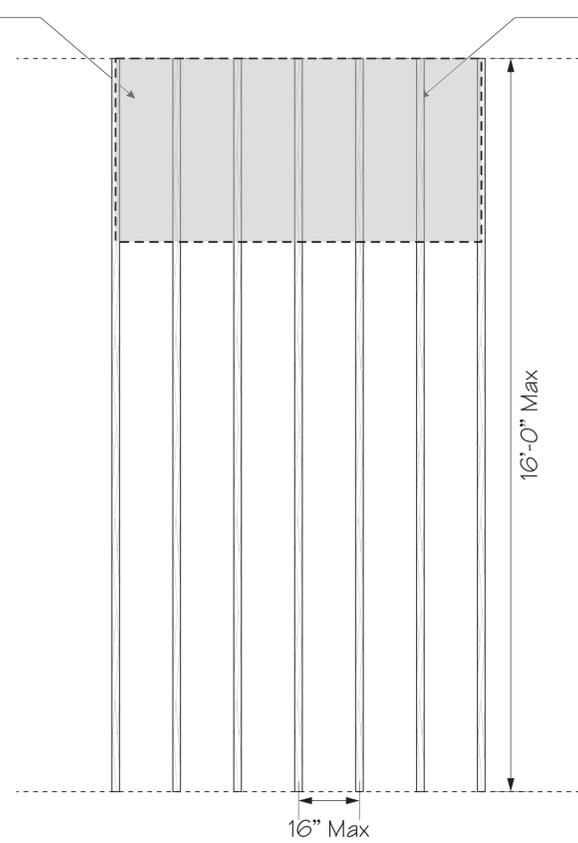
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CAMPBELL, CA 95008



Sheet N2
Notes

Existing Mount Sector
See Construction
Drawings for T-Mobile
Site "SF641425"



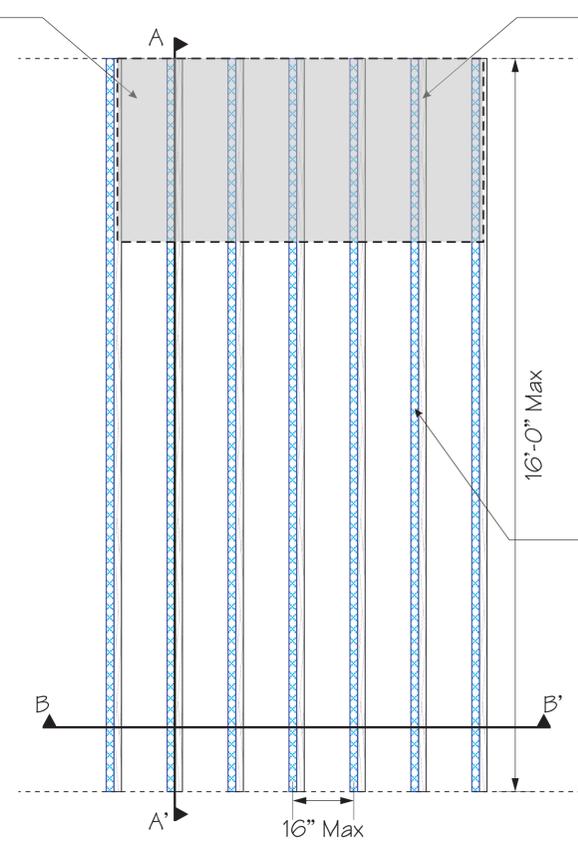
Existing 2x8 Rafters
@ 16" On Center

16'-0" Max

16" Max

EXISTING ALPHA/BETA/GAMMA SECTOR

Existing Mount Sector
See Construction
Drawings for T-Mobile
Site "SF641425"



Existing 2x8 Rafters
@ 16" On Center

16'-0" Max

New 2x8 Rafters
@ 16" On Center
To be Installed

16" Max

PROPOSED ALPHA/BETA/GAMMA SECTOR

Modification Schedule

Member Type	Existing Member	New Member	Notes
RAFTER	2X8	(2) 2X8	Min 16d screws used for wood blocking.

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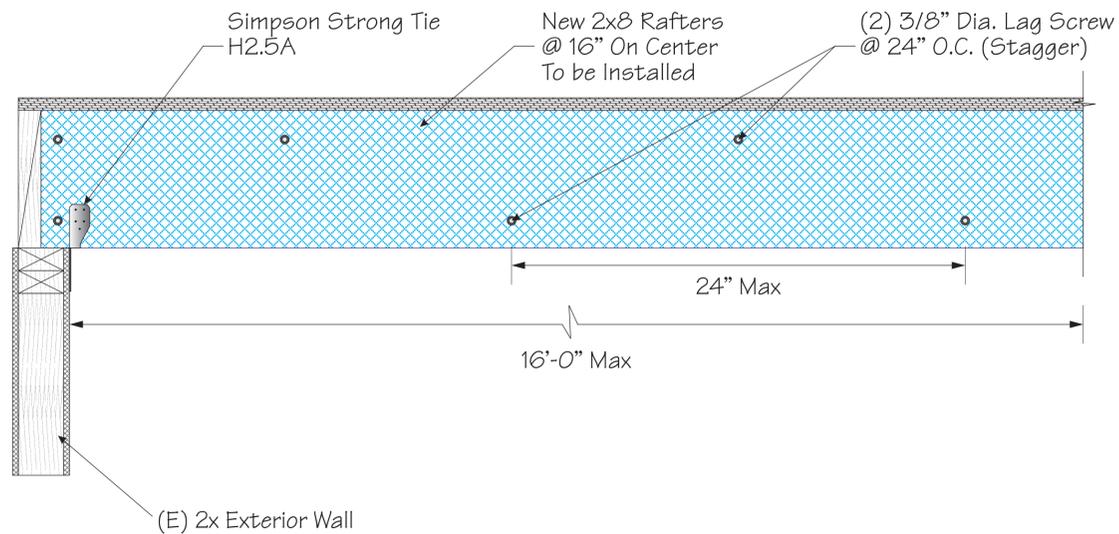
T-Mobile
3800 EZELL ROAD
SUITE 815
NASHVILLE, TN 97211

SURESITE
3659 GREEN ROAD, #214
CLEVELAND, OH 44122

AMMTEC PLLC
CONSULTANTS
CONSULTING ENGINEERING SERVICES

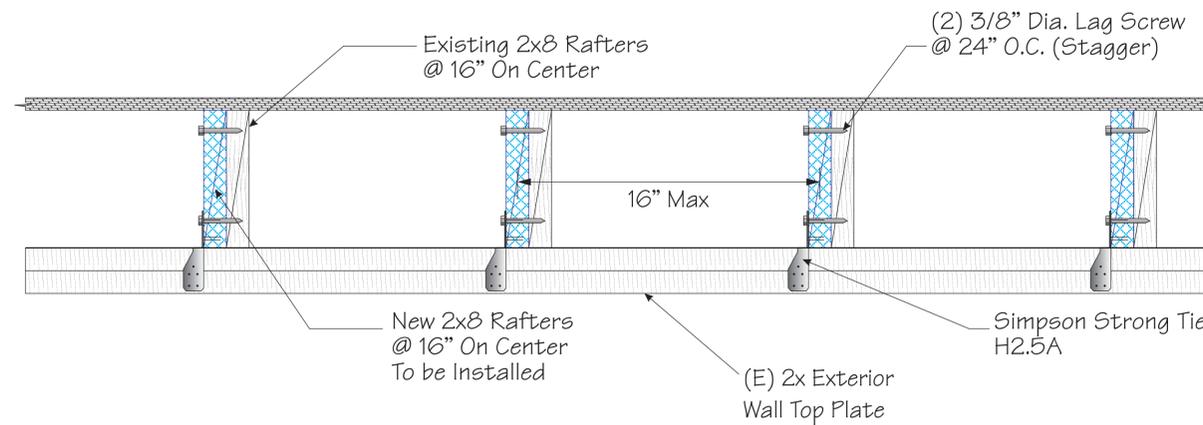
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SECTION A-A'

2



SECTION B-B'

1



Sheet S1