



CITY OF CAMPBELL
Community Development Department

January 30, 2015

NOTICE OF PUBLIC HEARING

Notice is hereby given that the Planning Commission of the City of Campbell has set the time of 7:30 p.m., or shortly thereafter, on Tuesday, **February 10, 2015**, in the City Hall Council Chambers, 70 North First Street, Campbell, California, for a Public Hearing to consider the application of Sprint for a Conditional Use Permit (PLN2014-315) to allow for the installation of six (6) Sprint antennas and supporting equipment (RRU's, equipment cabinets and cables) on and at the base of an existing PG&E Tower on property located at **701 Creekside Way**. Staff is recommending that this project be deemed Categorical Exempt under CEQA.

Interested persons may appear and be heard at this hearing. Please be advised that if you challenge the nature of the above project in court, you may be limited to raising only those issues you or someone else raised at the Public Hearing described in this Notice, or in written correspondence delivered to the City of Campbell Planning Commission at, or prior to, the Public Hearing. Questions may be addressed to the Community Development Department at (408) 866-2140.

Plans and architectural drawings may be viewed at the Planning Division office during normal business hours (8:00 a.m. – 5:00 p.m.) and on the City's 'Public Notices' web page (<http://www.cityofcampbell.com/501/Public-Notices>) under 'Planning Commission'.

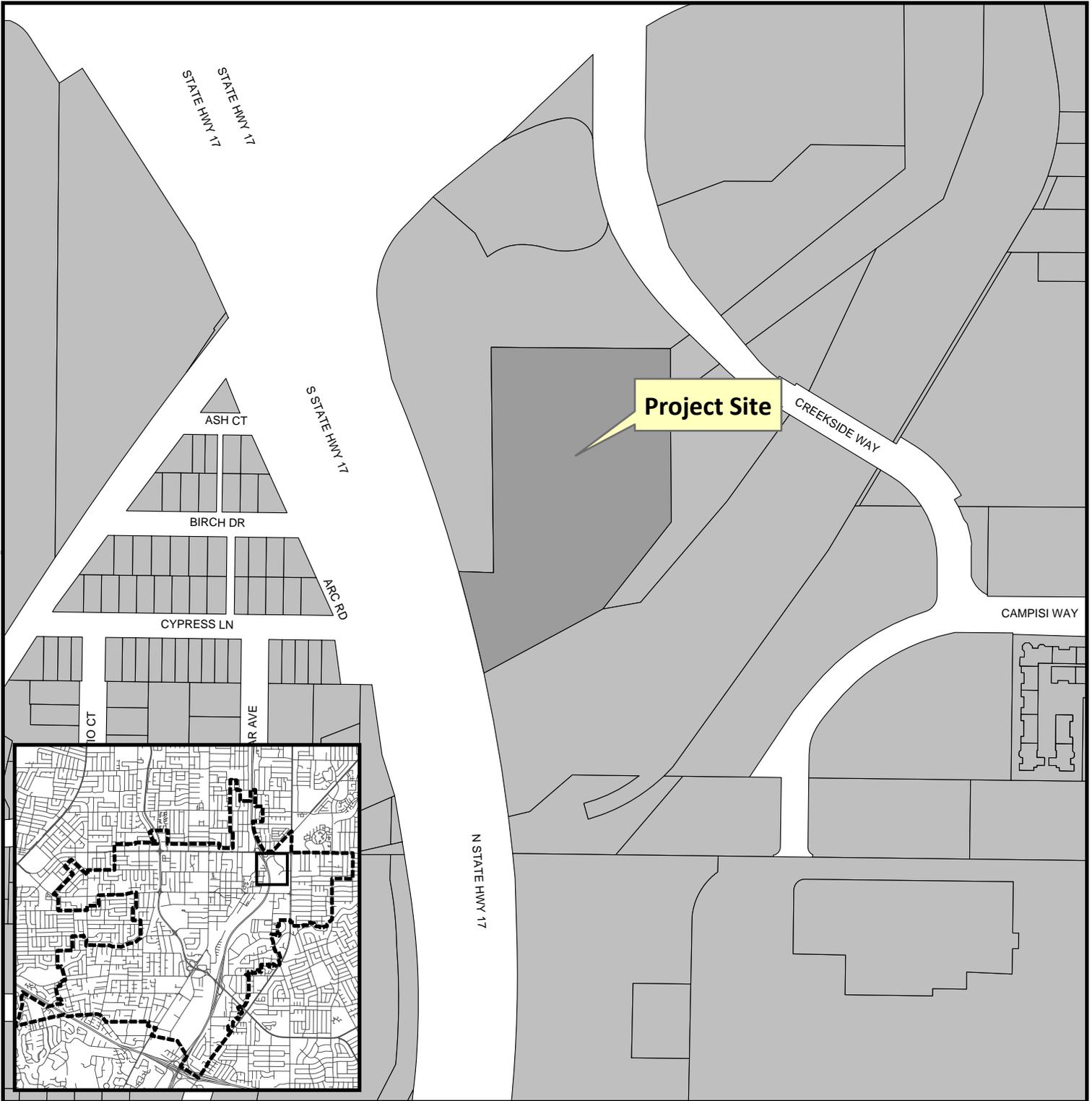
Decisions of the Planning Commission may be appealed to the City Council. Appeals must be submitted to the City Clerk in writing within 10 calendar days of an action by the Commission.

In compliance with the Americans with Disabilities Act, listening assistive devices are available for all meetings held in the Council Chambers. If you require accommodation, please contact the Community Development Department at (408) 866-2140, at least one week in advance of the meeting.

PLANNING COMMISSION
CITY OF CAMPBELL
PAUL KERMOYAN
SECRETARY

PLEASE NOTE: When calling about this Notice,
please refer to: **701 Creekside Way**

Project Location Map

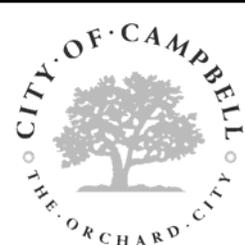
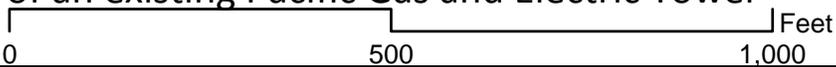


Project Location: 701 Creekside Way

Application Type: Conditional Use Permit

Planning File No.: PLN2014-315

Description: To allow for the installation of six (6) Sprint antennas and supporting equipment at the base of an existing Pacific Gas and Electric Tower



Community Development Department
Planning Division



EL PATIO SUBSTATION

SF25XC826

701 CREEKSIDE WAY
CAMPBELL, CA 95008

PGE TOWER

PROJECT: 2.5 EQUIPMENT DEPLOYMENT
MARKET: SAN FRANCISCO BAY



CAMP+ASSOCIATES

PROJECT INFORMATION:
SPRINT ANTENNA RELO
EL PATIO SUBSTATION
SF25XC826
701 CREEKSIDE WAY
CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

ISSUED FOR: FINAL PERMIT

REVISIONS			
REL.	DATE	DESCRIPTION	INITIALS
A	3/28/14	ISSUED FOR PRELIM PERMIT	NAP
B	4/14/14	ISSUED FOR PRELIM PERMIT	NAP
C	5/9/14	REVISED PER SURVEY	NAP
D	5/28/14	ISSUED FOR PRELIMINARY PERMIT	NAP
E	6/27/14	ISSUED FOR PRELIMINARY PERMIT	EXT
F	8/19/14	ISSUED FOR PRELIMINARY PERMIT	EXT
G	10/01/14	ISSUED FOR PRELIMINARY PERMIT	EXT
H	10/02/14	ISSUED FOR FINAL PERMIT	EXT

APPLICANT:

SPRINT
12657 ALCOSTA BLVD. SUITE 300
SAN RAMON, CA 94583
PH: (925) 275-1700

SPRINT CM:

MOISES PALACIOS
12657 ALCOSTA BLVD. SUITE 300
BISHOP RANCH 15
SAN RAMON, CA 94583
PH: (925) 386-2223
Moises.Palacios@sprint.com

PROPERTY INFORMATION:

PROPERTY OWNER: PACIFIC GAS & ELECTRIC
ADDRESS: 701 CREEKSIDE WAY
CAMPBELL, CA 95008
PG&E SITE#: SNK-SF-25XC-826
SITE ID: SF25XC826- EL PATIO SUBSTATION
TOWER SAP#: 40599604
TOWER#: 000/001
LINE NAME: METCALF-EL PATIO #1 115KV
PROJECT#: 2014-03 NEW SITE
SBE#: 135-43-044B-1

LATITUDE: 37° 17' 31.72" N

LONGITUDE: 121° 56' 07.05" W

ZONING CLASSIFICATION: PF / O-S

CONSTRUCTION TYPE: VB

OCCUPANCY: S-2

JURISDICTION: CITY OF CAMPBELL

PARCEL NUMBER:

288-01-022

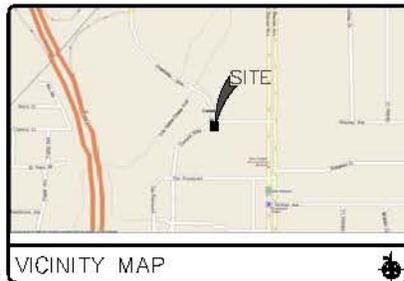
POWER COMPANY:

COMPANY: PG&E CORPORATION
ADDRESS: 308 STOCKTON AVE
SAN JOSE, CA 95126
PHONE: (925) 674-6507

TELCO COMPANY:

COMPANY: AT&T CALIFORNIA
ADDRESS: 31 N MARKET STREET
SAN JOSE, CA 95113
PHONE: (650) 872-6028

PROJECT INFORMATION



FROM SPRINT OFFICE IN 12657 ALCOSTA BLVD. SUITE 300, SAN RAMON, CA 94583
1) DEPART 12657 ALCOSTA BLVD. SAN RAMON, CA 94583 ON ALCOSTA BLVD (SOUTH)
2) TURN RIGHT ONTO BOLLINGER GARDEN ROAD
3) TAKE RAMP RIGHT ONTO I-680. AT EXIT 12 TURN RIGHT ONTO RAMP
4) TAKE RAMP RIGHT ONTO CA-380
5) TAKE RAMP LEFT ONTO I-680. ROAD NAME CHANGES TO CA-17
6) AT EXIT 25 KEEP RIGHT ONTO RAMP
7) TURN LEFT ONTO E HAMILTON AVENUE
8) TURN RIGHT ONTO CREEKSIDE WAY
9) ARRIVE 701 CREEKSIDE WAY, CAMPBELL, CA 95008

DRIVING DIRECTIONS

SPRINT PROPOSES TO ADD AN UNMANNED TELECOMMUNICATIONS FACILITY

- INSTALL (2) NEW PANEL ANTENNA PER SECTOR (6 TOTAL)
- INSTALL (1) NEW OUTDOOR WINDS CHIMNEY
- INSTALL (1) NEW OUTDOOR BBU BATTERY CABINET
- INSTALL (2) NEW RRU PER SECTOR (6 TOTAL)
- INSTALL (5) NEW HYBRID CABLES

PROJECT DESCRIPTION

DESIGN CONSULTANT:

CAMP ASSOCIATES
18401 40TH AVE. W. SUITE 304
LYNNWOOD, WA 98036
CONTACT: ERIC CAMP
PH: (425) 740-6382
EMAIL: eric.camp@campassoc.com

PROJECT MANAGEMENT:

FMHC, NOW PART OF THE JACKES GROUP
2525 STAMMILL DRIVE SUITE 200 CONCORD, CA 94520
OFFICE: 925-794-8100
REGIONAL MANAGER PAUL J. MADDOX (M) 925-208-3842
REAL ESTATE AND ENTITLEMENTS: MICHELLE THOMPSON (M) 916-710-5677
REAL ESTATE AND ENTITLEMENTS: GABRIELLA BARR (M) 650-347-7016
CONSTRUCTION: DALE FERREMAN (M) 818-385-8217

PROJECT TEAM

CALIFORNIA CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTICES IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 2013 CALIFORNIA BUILDING CODE (M) / 2013 SAN JOSE BUILDING CODE
- 2013 CALIFORNIA GREEN BUILDING CODE
- 2013 CALIFORNIA ELECTRICAL CODE
- 2013 CALIFORNIA MECHANICAL CODE
- 2013 CALIFORNIA PLUMBING CODE

ACCESSIBILITY REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 IBC BUILDING CODE.

CODE BLOCK

SHEET	DESCRIPTION
T-1	TITLE SHEET
SU-1	SURVEY
N-1	GENERAL NOTES
N-2	GENERAL NOTES
N-3	GENERAL NOTES
A-1	OVERALL SITE PLAN
A-2	ELEVATIONS
A-2.1	ELEVATIONS
A-2	CABLE PLAN
A-4	EQUIPMENT LAYOUT
A-5	ANTENNA LAYOUT
A-6	DETAILS
A-7	DETAILS
A-8	DETAILS
E-1	ONE LINE DIAGRAM & PANEL SCHEDULE
E-2	EQUIPMENT GROUNDING PLAN & DETAILS
E-3	ANTENNA GROUNDING PLAN & DETAILS
E-4	GROUNDING DETAILS

SHEET INDEX

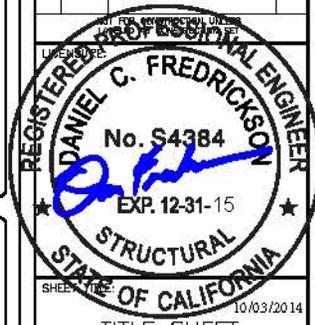
PGE CONTACTS:

LAND ACQUISITION CONTACT: MATT RANGE
(415) 673-3359
EMAIL: MRRANGE@pge.com
MIRA HERR-JANERSON
(415) 673-5738
EMAIL: MHERR@pge.com

PROJECT MANAGER: JIM TILUSCH
(818) 281-6651
EMAIL: J4T@pge.com

ADDRESS: 8008 FLEMING-PERKINS ROAD, #112
SACRAMENTO, CA 95826

PGE CONTACTS



SHEET DATE: 10/03/2014
TITLE SHEET

SHEET NUMBER: **T-1**
REVISION: H
SF25XC826

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWINGS AND SPRINT INTERIOR CONSTRUCTION STANDARDS FOR WIRELESS SITES (LATEST REVISION). THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE NEW WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FIELD CONDITIONS AND DIMENSIONS AND DETERMINING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONDITIONS.
4. PLANS ARE NOT TO BE USED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WORK.
6. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS WILL BE INCLUDED AS PART OF THE WORK.
7. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE THE WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION NEAR, BETWEEN, THROUGH, AROUND AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
10. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SUPERINTENDENT OF BUILDINGS & GROUNDS AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO THE EQUIPMENT AND ANY OTHER PORTIONS OF THE WORK.
12. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
13. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATELY REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
14. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., MUST BE CLEARLY UNDERSTOOD THAT REINFORCING STEEL SHALL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES (UNLESS NOTED OTHERWISE). LOCATIONS OF REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT.
15. REPAIR ALL EXISTING WALL SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND IN WITH ADJACENT SURFACES.
16. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
17. KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL OIL, GREASE, AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR CHANGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
18. MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURER'S RECOMMENDATIONS.
19. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR DAMPEN, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
20. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH JURISDICTIONAL OR STATE AND LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES.
21. LIGHT SHADED LINES AND NOTES REPRESENT WORK PREVIOUSLY DONE. DARK SHADED LINES AND NOTES REPRESENT THE SCOPE OF WORK FOR THIS PROJECT. CONTRACTOR SHALL VERIFY IF EXISTING CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
22. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND/OR WRITING CERTIFICATES REQUIRED FOR THE ELECTRICAL SERVICE UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE NECESSARY COORDINATION AND SCHEDULING WITH THE SERVING ELECTRICAL UTILITY AND LOCAL INSPECTION AUTHORITIES.

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED ANY/ALL CONSTRUCTION STANDARDS FOR WIRELESS SITES (LATEST REVISION). IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AS SOON AS POSSIBLE AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE CONSTRUCTION MANAGER HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS, INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE SUBMITTAL OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
 - A. UL — UNDERWRITERS LABORATORIES
 - B. NEC — NATIONAL ELECTRICAL CODE
 - C. NEMA — NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - D. OSHA — OCCUPATIONAL SAFETY AND HEALTH ACT
 - E. IBC — INTERNATIONAL BUILDING CODE
 - F. NFPA — NATIONAL FIRE CODES

ANTENNA & COAX NOTES

1. VERIFY EACH COAXIAL CABLE LENGTH, DIAMETER, ROUTING, COLOR CODING AND ALL APPURTENANCES WITH GOIT.
2. THE MAXIMUM COAXIAL CABLE LENGTH AND CORRESPONDING COAXIAL CABLE DIAMETER IS SHOWN ON SHEET A-4. THIS CABLE LENGTH IS TO BE USED FOR FABRICATION OF CONSTRUCTION. ACTUAL ANTENNA CABLE LENGTHS MUST BE VERIFIED. COAXIAL CABLE SHALL BE PROVIDED BY GOIT.
3. ALL COAX CABLES SHALL UTILIZE GROUND KITS, GROUNDED AS FOLLOWS:
 - A. NEAR ANTENNA AND CENTER OF ELEMENT.
 - B. MIDDLE OF TOWER (AND-HEIGHT OF ANTENNA), IF CABLE RUN IS OVER 200'.
 - C. BOTTOM OF TOWER.
 - D. AT MASTER GROUND BAR 3'-0" FROM MW95-B50 CABINET

4. ALL TOP JUMPERS SHALL BE LENGTHS AS SHOWN AND INSTALLED BY CONTRACTOR.
5. ALL CABLES SHALL BE COLOR CODED AS SHOWN ON SHEET RF-1 AND IN ACCORDANCE WITH SPRINT SPECIFICATIONS.
6. BUNDLING SHALL BE IN ACCORDANCE WITH SHEET A-4, RF-1 AND AS FOLLOWS:
 - A. MAIN LINE COLOR BANDS SHALL BE 2" WIDE, MAINTAIN 1" SPACING BETWEEN COLORS.
 - B. FREQUENCY COLOR BANDS SHALL BE 2" WIDE WITH NO SPACE BETWEEN COLORS.
 - C. JUMPER COLOR BANDS SHALL BE 1" WIDE WITH 1" SPACE.
 - D. START COLOR BANDS 2" BEFORE INTERCONNECTING.
 - E. START SELECTOR COLOR NEXT TO END CONNECTORS.
7. FINAL COAXIAL ANTENNA CABLE SIZES SHALL BE DETERMINED BY GO IF ENGINEER. SEE ANTENNA SCHEDULE SHEET A-4, BASED ON FINAL CABLE RUN LENGTHS DETERMINED BY GO.
8. SEE CONSTRUCTION MANAGER FOR ANTENNA SUPPORT ASSEMBLY TYPE.
9. ALL COAXIAL CABLE WILL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE AT DISTANCES NOT TO EXCEED 3' OR THE CABLE MANUFACTURER'S SPECIFICATIONS WHICHEVER IS LESS, WITH HARDWARE SPECIFIED IN THE COAXIAL CABLE ROUTING DETAILS OF THE SUPPLIED STRUCTURAL REPORT.
10. PROVIDE AT LEAST #10 OF BLACK IN THE MAIN COAXIAL CABLES AT THE ANTENNA MOUNTING ELEVATION TO PROVIDE FOR FUTURE CONNECTOR REPLACEMENT.

ANTENNA & HYBRID CABLE NOTES

1. VERIFY EACH HYBRID CABLE LENGTH, ROUTING, DIAMETER, COLOR CODING AND ALL APPURTENANCES WITH GOIT.
2. THE HYBRID CABLE AND DIAMETER LENGTH IS SHOWN ON A-4. EXCESS CABLE LENGTH TO BE ORDERED IN A MANNER APPROVED BY GOIT. CABLES CANNOT BE CUT TO FIT.
3. HYBRID CABLE INTERNAL GROUND WIRE TO BE GROUNDED AT TOP AND BOTTOM PER SPRINT'S (SPRINT) SPECIFICATIONS.
4. EXCESS TOP 15' HYBRID CABLE FIBER JUMPERS TO BE DRESSED IN A MANNER APPROVED BY GOIT. CANNOT BE COILED, MUST BE SECURED TO TOWER MOUNTS.
5. ALL MAIN CABLES SHALL BE COLOR CODED AS SHOWN ON SHEET RF-1 & IN ACCORDANCE WITH SPRINT SPECIFICATIONS.
 - A. MAIN LINE COLOR BANDS SHALL BE 2" WIDE, MAINTAIN 1" SPACING BETWEEN.
 - B. JUMPER COLOR BANDS SHALL BE 1" WIDE WITH 1" SPACE.
 - C. START COLOR BANDS 2" BEFORE MAIN CABLE END.
6. BUNDLING SHALL BE IN ACCORDANCE WITH SHEET A-4, RF-1.
7. FINAL HYBRID CABLE SIZES SHALL BE DETERMINED BY GO IF ENGINEER. SEE HYBRID CABLE SCHEDULE SHEET RF-1, BASED ON FINAL CABLE RUN LENGTHS DETERMINED BY GOIT.
8. ALL HYBRID CABLE WILL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE AT DISTANCES NOT TO EXCEED 3' HORIZONTALLY OR 4' VERTICALLY OR THE CABLE MANUFACTURER'S SPECIFICATIONS WHICHEVER IS LESS, WITH HARDWARE SPECIFIED IN THE HYBRID CABLE ROUTING DETAILS OF THE SUPPLIED STRUCTURAL SUPPORT.

SITE WORK NOTES

1. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
2. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWING.
3. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
4. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NOT RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
5. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INFORMATION NEARS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
6. CONTRACTOR SHALL CALL LOCAL CIGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
7. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
8. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE WORKING LIMITS.
9. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
10. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
11. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
12. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
13. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
14. CONTRACTOR SHALL CLEAN ENTIRE SITE DAILY AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEBRIS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
15. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
16. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THE LOCATION.



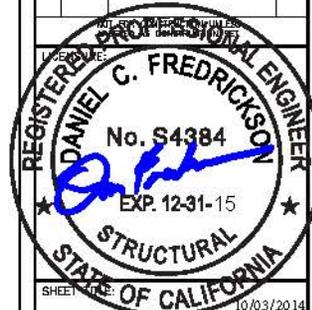
PROJECT INFORMATION:
SPRINT ANTENNA RELO

**EL PATIO
SUBSTATION**
SF25XC826
771 CROCKER WAY
CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

ISSUED FOR: FINAL PERMIT

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	3/28/14	ISSUED FOR PRELIM PERMIT	NAP
B	4/14/14	ISSUED FOR PRELIM PERMIT	NAP
C	5/9/14	REVISED PER SURVEY	NAP
D	5/28/14	ISSUED FOR PRELIMINARY PERMIT	NAP
E	8/27/14	ISSUED FOR PRELIMINARY PERMIT	EXT
F	8/18/14	ISSUED FOR PRELIMINARY PERMIT	EAT
G	10/01/14	ISSUED FOR PRELIMINARY PERMIT	EXT
H	10/02/14	ISSUED FOR FINAL PERMIT	EXT



SHEET 10/03/2014

GENERAL NOTES

SHEET NUMBER: **N-1** REVISION: H
SF25XC826

FOUNDATIONAL, EXCAVATION AND BACKFILL NOTES

1. ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL.
2. ALL EXCAVATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANTIALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUITABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF FLOODING WATER. DRAINAGING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED. COMPACTION OF SOILS UNDER CONCRETE AND FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL. IF INADEQUATE BEARING CAPACITY IS REACHED AT THE DESIGNED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
4. ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING. BACK FILL SHALL CONSIST OF APPROVED MATERIALS SUCH AS EARTH, LOAM, SLOTT CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLODS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS. ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
5. ALL FILL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED MAXIMUM 8" THICK LIFTS BEFORE COMPACTION. EACH LIFT SHALL BE WETTED IF REQUIRED AND COMPACTED TO NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D1557.
6. NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
7. FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER. THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER. FINISH GRADE OF CONCRETE PAVES SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINAL FINISH GRADE. ELECTRICS, PIPING, AND SURFACE FILL GRADUALLY TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
8. NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE TYMUR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL, 1-800-329-3841" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COLOR TO CONTROL THE REFLECTANCE OF VEGETATION GROWING AND EXTENDING TO WITHIN 1 FOOT OUTSIDE THE SITE PERIMETER OR ELECTRICAL GROUNDING SYSTEM PERMETER WHICHER EVER IS GREATER. ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STONE OR GRAVEL AS SPECIFIED. LIFT FOOT TYPE No. 67 FOR PERFORATED COMPOUND; FOOT TYPE No. 67 FOR ACCESS DRIVE AREA.
9. IN ALL AREAS TO RECEIVE FILL, REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELECTOROUS MATERIALS FROM GROUND SURFACE. FLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BOND WITH EXISTING/PREPARED SOIL SURFACE.
10. WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR REGRADE THE SOILS AND RE-COMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
11. IN AREAS WHICH EXISTING GRAVEL SURFACES IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACES TO MATCH ADJACENT GRAVEL SURFACES AND RESTORED TO THE SAME THICKNESS AND COMPACTION AS SPECIFIED. ALL RESTORED GRAVEL SURFACES SHALL BE FREE FROM CORROSIONS AND WAVES.
12. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNSUITABLE ANALYSIS OF ORGANIC MATTER OR OTHER DELECTOROUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ANY ADDITIONAL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
13. GRAVEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRADE ELEVATIONS BEFORE GRAVEL SURFACING IS PLACED AND/OR DISTURBED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
14. PROTECT EXISTING GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE.
15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
16. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DUMPED OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FEES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND UTILITIES AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL, FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING APPROPRIATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSION CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE. ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
7. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
8. SEEDING AND MULCHING AND/OR SOODING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL COUNTY AND STATE CODES AND ORDINANCES TO PROTECT ENHANCEMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
10. RIP RAP OF SIZES INDICATED SHALL CONSIST OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRAGILE, THIN, ELONGATED OR LAMINATED PIECES, DECOMPOSED MATERIAL, CRACKING MATTER, ILL, ALKALI, OR OTHER DELECTOROUS SUBSTANCES.

STRUCTURAL STEEL NOTES

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW:
 W- SHAPES: ASTM A992, 50 KSI
 ANGLE, BARS: CHAMFERED ASTM A36, 36 KSI
 PIPE SECTIONS: ASTM A53, 48 KSI
 PIPE SECTIONS: ASTM A53-1, 36 KSI
2. ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC, WHERE FILED WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

CONCRETE MASONRY NOTES

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (7 1/4" X 15 1/8" X 15 1/8" MOD. WEIGHT (115 Pcf)).
2. MORTAR SHALL BE TYPE "M" (MINIMUM 1,800 PSI AT 28 DAYS).
3. CEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE BOLD GRADED.
5. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOLD BEAM OR UNITS BEAM UNITS.
6. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
7. ALL BOLD BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
8. PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
9. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
10. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
11. REINFORCING BARS - SEE NOTES UNDER "STRUCTURAL CONCRETE NOTES" FOR REQUIREMENTS.
12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
14. HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104-6.1 OF U.G.C.
15. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED BOLD WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
16. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
17. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
18. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM HAZARDOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.
19. BRICK SHALL CONFORM TO ASTM C-52 AND SHALL BE GRADE MW OR BETTER.

STRUCTURAL CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-05, ACI 318-05 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH f'_c=3,000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH 3 IN.
 CONCRETE EXPOSED TO WEATH OR WEATHER:
 #4 AND LARGER 2 IN.
 #3 AND SMALLER & WAF 1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALLS 3/4 IN.
 BEAMS AND COLUMNS 1 1/2 IN.
5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE WALLS IN ACCORDANCE WITH ACI 301 SECTION 4.8.4
6. HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOVEL OR ROD AND SHALL CONFORM TO MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
7. USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER AC308 & MANUFACTURERS WRITTEN RECOMMENDED PROCEDURES.

SPRINT SUPPLIED MATERIALS:

- (A) BOLA
- (B) RETN
- (C) ANTENNAS & BRACKETS
- (D) WPS
- (E) JUMPEES
- (F) OEM SPECIFIC EQUIPMENT (CARD, SHELF, OR CABINET) THAT NEEDS TO BE INSTALLED IN OR NEXT TO UNITS

CONTRACTOR SUPPLIED MATERIALS:

- (A) CONDUIT IN LENGTHS LESS THAN OR EQUAL TO 3 FEET
- (B) WIRE
- (C) BREAKERS
- (D) CIRCULATING CABLE
- (E) ANTENNA & LINE INSTALLATION HARDWARE
- (F) CONDUIT CLAMPS
- (G) CONDUIT CONNECTORS
- (H) WEATHERPROOFING MATERIALS
- (I) GROUNDING KITS
- (J) HOISTING CHAINS
- (K) SNAP-IN HANGERS WITH DROMMETTS
- (L) BUTTERFLY HANGER KITS
- (M) DOWN BLOCKS & HARDWARE
- (N) ANGLE ADAPTERS, U BOLTS, AND OTHER MISCELLANEOUS HARDWARE
- (O) CROSSOVER PLATES
- (P) RET CABLES
- (Q) PIPE MOUNTS, PIPE TO PIPE MOUNTS
- (R) ICE BRIDGES IN LENGTHS LESS THAN OR EQUAL TO 5 FEET
- (S) LIQUID TIGHT
- (T) COMMON CONSUMABLES, INCLUDING BUT NOT LIMITED TO TAPES, SOLVENTS, ADHESIVE, LUGS, NUTS, BOLTS, NUTBUSH, ETC.
- (U) SUCH OTHER MINOR MATERIALS NOT SPECIFICALLY MENTIONED IN THIS SECTION BUT WHICH ARE REASONABLY NECESSARY TO COMPLETE THE SERVICES.

SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC 110 AND 1704 SHALL BE PERFORMED (AS REQUIRED) BY A QUALIFIED TESTING AGENCY APPROVED BY THE APPLICANT. INSPECTION AGENCY SHALL BE RETAINED BY THE PROJECT OWNER OR THEIR RESPONSIBLE CHARGE. THE ARCHITECT, ENGINEER OF RECORD, AND BUILDING DEPARTMENT SHALL RECEIVE COPIES OF ALL INSPECTION AND TEST RESULTS. REFER TO DOCUMENTS FOR SPECIFIC INFORMATION.





CAMP+ASSOCIATES

PROJECT INFORMATION:
 SPRINT ANTENNA RELO

EL PATIO SUBSTATION

SF25XC826
 771 CROSBREEK WAY
 CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

ISSUED FOR: FINAL PERMIT

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	3/28/14	ISSUED FOR PRELIM PERMIT	NAP
B	4/14/14	ISSUED FOR PRELIM PERMIT	NAP
C	5/6/14	REVISED PER SURVEY	NAP
D	5/28/14	ISSUED FOR PRELIMINARY PERMIT	NAP
E	6/27/14	ISSUED FOR PRELIMINARY PERMIT	EXT
F	8/18/14	ISSUED FOR PRELIMINARY PERMIT	EAT
G	10/01/14	ISSUED FOR PRELIMINARY PERMIT	EXT
H	10/02/14	ISSUED FOR FINAL PERMIT	EXT

REGISTERED PROFESSIONAL ENGINEER

DANIEL C. FREDRICKSON

No. S4384

EXP. 12-31-15

STRUCTURAL

STATE OF CALIFORNIA

10/03/2014

GENERAL NOTES

SHEET NUMBER: **N-2**

REVISION: H

SF25XC826

**WIRELESS ANTENNAS ON BP A TRANSMISSION STRUCTURES
ENGINEERING AND SAFETY DESIGN REQUIREMENTS**
5/13/02 EDITION

I. GENERAL REQUIREMENTS

- A. ALL WIRELESS INSTALLATIONS SHALL COMPLY WITH THE NATIONAL ELECTRIC AND NATIONAL ELECTRIC SAFETY CODES.
- B. ONLY POSE EMPLOYEES AND BY A DESIGNATED CONTRACTORS ARE ALLOWED TO CLIMB ON POSE TRANSMISSION STRUCTURES OR USE BUCKET TRUCKS TO INSTALL WIRELESS EQUIPMENT ON TRANSMISSION STRUCTURES.

- C. THE FOLLOWING CLEARANCES APPLY TO THE LOCATION OF WIRELESS EQUIPMENT AND ALL COMPONENTS SHALL MEET THE FOLLOWING MINIMUM CLEARANCES TO THE CONDUCTOR ON POSE TRANSMISSION STRUCTURES:

VOLTAGE	CLEARANCE (FT)	
	POSE OR ELECTRICAL CONTRACTOR MINIMUM APPROACH DISTANCE	NON-ELECTRICAL CONTRACTOR INSTALLED AND/OR MAINTAINED
115	4	15
230	6	18
345	9	18
6900AC	11	20
6900DC	13	21

(THESE CLEARANCES ARE BASED ON THE GREATER OF POSE/NESS CLEARANCES TO GROUNDED MESSENGERS OR POSE ACCESS PROVIDER NORMAL CLEARANCES FOR WORK WITHOUT HOLD CIRCLES, THEN RAISED UP TO THE NEXT WHOLE NUMBER, THESE ARE SAFETY CLEARANCES AND DO NOT GUARANTEE PERFORMANCE OF THE WIRELESS EQUIPMENT.)

- D. ALL NON POSE OPERATED CONSTRUCTION EQUIPMENT SHALL MEET THE FOLLOWING CLEARANCES TO CONDUCTORS:

VOLTAGE	CLEARANCE (FT)
230 AND BELOW	15
345	18
6900AC	20
6900DC	21

II. SPECIFIC REQUIREMENTS (CONTINUED)

C. GROUNDING

- A 4/0 COPPER BONDING LOOP (EITHER BOW OR TINNED) SHALL BE INSTALLED AROUND THE CABINET MOUNTING PAD OR EQUIPMENT SHELTER.
- THE BONDING LOOP SHALL BE BURIED A MINIMUM OF 6 INCHES DEEP AND 3 FEET OUTSIDE THE EQUIPMENT PAD OR SHELTER (SHALDNR).
- THE BONDING LOOP SHALL BE CONNECTED WITH 4/0 COPPER BONDING LEADS TO ALL GROUND RODS, TO A MINIMUM OF TWO DIFFERENT TOWER LEGS, AND TO THE WIRELESS ELECTRICAL EQUIPMENT (ALSO USING AT LEAST TWO BONDING CONNECTIONS).
- ALL BONDING LEAD CONNECTIONS SHALL BE EXTERNALLY WELDED.
- THE 4/0 COPPER BONDING LEADS CONNECTED TO THE TOWER LEGS SHALL BE INSTALLED IN 1 INCH NON-CONDUCTIVE CONDUIT UP TO 3 FEET FROM THE TOWER LEG OR TO THE CLOSEST BONDING LOOP WHICHEVER IS CLOSEST. THE CONDUIT SHALL EXTEND 1 FOOT ABOVE GRADE AT THE TOWER LEG AND CAN BE LEFT OPEN AT BOTH ENDS. SEE FIGURE 3.

D. FENCES

- FENCES ARE ALLOWED AROUND THE WIRELESS SITE WITH THE FOLLOWING RESTRICTIONS:
- FENCES SHALL HAVE A BONDING LOOP INSTALLED 3 FEET OUTSIDE THE FENCE AND BURIED A MINIMUM OF 18 INCHES DEEP. THE BONDING LOOP SHALL BE CONNECTED TO THE FENCE AT A MINIMUM OF TWO LOCATIONS.
 - FENCES AROUND THE STRUCTURE LEGS OR WOOD POLES SHALL HAVE A MINIMUM OF 4 FEET BETWEEN THE FENCE AND THE LEGS OR POLES.
 - THE BONDING LOOP OF FENCES SHALL BE CONNECTED TO THE BONDING LOOP OF THE CABINET MOUNTING PAD OR EQUIPMENT SHELTER AT A MINIMUM OF TWO LOCATIONS USING 4/0 COPPER WIRE (EITHER BOW OR TINNED).
 - A MINIMUM DISTANCE OF 60' SHALL BE MAINTAINED BETWEEN THE WIRELESS INSTALLED FENCE AND ANY OTHER FENCE LOCATED ON A BP A EASEMENT OR FEE OWNED PROPERTY.

E. TEMPORARY INSTALLED EMERGENCY GENERATING UNITS (EG UNITS)

WHENEVER PRACTICAL, REFUEL EQUIPMENT OFF THE POSE EASEMENT OR FEE OWNED PROPERTY. WHEN NOT PRACTICAL, TRANSFER FLAMMABLE LIQUIDS BETWEEN METAL CONTAINERS ONLY AFTER ELECTRICALLY BONDING THE CONTAINERS TOGETHER TO ELIMINATE THE POTENTIAL FOR SPARK IGNITION OF THE FUEL. PERMANENT AND TEMPORARY INSTALLATION OF ENGINE GENERATORS ON BP A EASEMENT AND FEE OWNED PROPERTY SHALL COMPLY WITH THE FOLLOWING RESTRICTIONS:

- THE ENGINE GENERATOR AND ANY SEPARATE METALLIC FUEL STORAGE CONTAINER SHALL BE EFFECTIVELY GROUNDED TO THE WIRELESS GROUNDING SYSTEM.
- BURIED GROUNDING PINS OR TEMPORARY GROUNDING MATS SHALL BE INSTALLED AROUND THE ENGINE GENERATOR AND ANY METALLIC STORAGE CONTAINER.

I. GENERAL REQUIREMENTS (CONTINUED)

- E. UNDERGROUND CABLES ON POSE EASEMENTS SHOULD MAINTAIN 80 FEET OF CLEARANCE TO STEEL LATTICE TOWER LEGS. IN ADDITION, A 26 FOOT CLEARANCE SHOULD BE MAINTAINED FOR ANY WOOD POLE STRUCTURE, GUY ANCHOR, AND UNDERGROUND COUNTERPOISE (REFERENCE SECTION II SPECIFIC REQUIREMENTS, ELECTRIC AND TELEPHONE SERVICE, LINE NUMBER 5).

- F. CABLES RUNNING PARALLEL TO THE CENTERLINE SHOULD BE ROUTED ALONG THE EDGE OF THE EASEMENT UNLESS PRACTICAL.

- G. MINIMUM BURIAL DEPTH FOR CABLES IS 30 INCHES FOR POWER CABLES AND 24 INCHES FOR TELEPHONE CABLES.

- H. UNDERGROUND CABLES SHALL NOT CROSS TRANSMISSION LINE GROUNDING SYSTEMS AND SHALL MAINTAIN A MINIMUM CLEARANCE OF 15 FEET FROM THE END OF A GROUNDING SYSTEM. STRUCTURE GROUNDING SYSTEMS ARE NORMALLY USED ONLY ON STRUCTURES EQUIPPED WITH OVERHEAD SHIELDWIRES.

- I. THE EASEMENT SHALL BE RETURNED TO ITS ORIGINAL CONDITION FOLLOWING CONSTRUCTION. NO GRADE CHANGES TO FACILITATE CONSTRUCTION OR DISPOSAL OF OVERBURDEN SHALL BE ALLOWED WITHOUT POSE APPROVAL.

- J. USE OF (200-TECH FABRICS) AND GRAVEL AROUND THE PDS ARE ACCEPTABLE IF COMPATIBLE WITH UNDERLYING LAND USE.

- K. NO BLASTING IS ALLOWED ON THE EASEMENT WITHOUT POSE APPROVAL.

- L. VEGETATION CONTROL SHALL NOT BE DONE WITH CHEMICALS WITHOUT BP A APPROVAL.

- M. PRELIMINARY CONSTRUCTION DRAWINGS SHALL BE PROVIDED FOR REVIEW BY POSE TECHNICAL SERVICES 4 WEEKS PRIOR TO START OF CONSTRUCTION. FINAL CONSTRUCTION DRAWINGS SHALL BE PROVIDED FOR REVIEW BY BP A TECHNICAL SERVICES PRIOR TO START OF CONSTRUCTION.

- N. ANY ALTERATION TO THE BP A TOWER BY ATTACHING AN ANTENNA OR MICROWAVE DSH SHALL BE EVALUATED BY THE BP A AIRWAY MARKING AND LIGHTING COORDINATOR. AIRWAY MARKING AND/OR LIGHTING PLANNED BY THE WIRELESS PROVIDER WILL BE REVIEWED BY POSE.

- O. THE WIRELESS PROVIDER'S WRITTEN SAFETY PROCEDURES FOR CONSTRUCTION AND MAINTENANCE SHOULD ADDRESS THE USUAL SAFETY ISSUES ASSOCIATED WITH COMMUNICATION EQUIPMENT CONNECTIONS TO POWER TRANSMISSION STRUCTURES.

SPECIFIC REQUIREMENTS (CONTINUED)

F. GUYHOOK PROTECTION

TO MAKE GROUNDING MATERIALS COMPATIBLE WITH BP A GALVANIZED STEEL TOWER FOOTINGS, WOOD POLE GALVANIZED STEEL ANCHORS, AND ALUMINUM TRANSMISSION BRACKETS, A CATHODIC PROTECTION SYSTEM SHALL BE INSTALLED. CATHODIC PROTECTION OF STEEL LATTICE STRUCTURE FOOTINGS CAN BE ACCOMPLISHED BY INSTALLING EIGHT 17 POUND PREPARED MAGNESIUM ANODES, TWO PER FOOTING. ADDITIONAL ANODES MAY BE REQUIRED AFTER A SITE SPECIFIC ANALYSIS HAS BEEN PERFORMED BY POSE. CATHODIC PROTECTION FOR PROTECTING GUY ANCHORS CAN BE ACCOMPLISHED BY INSTALLING ONE 17 POUND PREPARED MAGNESIUM ANODE FOR EACH ANCHOR. ALL ANODES WILL BE STRATEGICALLY LOCATED AROUND THE STRUCTURE AND CONNECTED THROUGH A CATHODIC PROTECTION TEST SWITCH TO THE STRUCTURE. THE FOLLOWING FIGURES SHOW THE REQUIRED ANODE PLACEMENT FOR BOTH WOOD POLE (FIGURE 1) AND LATTICE STEEL STRUCTURES (FIGURE 2). FOR ELECTRICAL QUESTIONS CALL THE POSE.

II. SPECIFIC REQUIREMENTS

A. ELECTRIC AND TELEPHONE SERVICE

THE INSTALLATION OF ELECTRIC AND TELEPHONE CIRCUITS REQUIRES AN EVALUATION CONSIDERING PUBLIC SAFETY, RELIABILITY OF POSE'S TRANSMISSION LINES, RELIABILITY OF THE ELECTRIC OR TELEPHONE CIRCUITS, AND FUTURE POSE CONSTRUCTION PLANS. TO PERFORM THIS EVALUATION DRAWINGS SUBMITTED WITH THE WIRELESS DESIGN PACKAGE SHALL INCLUDE:

- SCALE DRAWINGS SHOWING TOTAL ELEVATION OF ELECTRIC AND TELEPHONE SERVICE ROUTE ON EITHER POSE EASEMENT OR FEE OWNED PROPERTY REFERENCED TO POSE FACILITIES.
- NAME OF THE OWNER OF EACH SERVICE.
- DESIGN DETAILS INCLUDING VOLTAGE AND BURIAL DEPTH.
- THE GROUNDING OF THE UTILITY ELECTRIC TRANSFORMER OR TELEPHONE SERVICE SUPPLY (TELEPHONE PEDESTALS INCLUDED) SHALL BE LOCATED A MINIMUM OF 100' FROM THE TRANSMISSION STRUCTURE.
- UNDERGROUND ELECTRIC AND TELEPHONE CABLES SHALL BE INSTALLED IN NONINDUCTIVE CONDUIT FOR A MINIMUM OF 20 FEET FROM STEEL TOWER STRUCTURES. IN ADDITION, NON-CONDUCTIVE CONDUIT SHALL BE USED WITHIN 25 FEET OF ANY WOOD POLE STRUCTURE, GUY ANCHOR, AND UNDERGROUND COUNTERPOISE.
- TO MAINTAIN A PHYSICAL CLEARANCE FOR POSE MAINTENANCE ACTIVITIES, ELECTRIC AND TELEPHONE SERVICE POLES SHALL BE A MINIMUM OF 30 FEET FROM THE PERIMETER OF THE STEEL TOWER STRUCTURE OR WOOD POLE STRUCTURE. OVERHEAD CABLE FEEDS SHALL HAVE A MINIMUM GROUND CLEARANCE OF 24 FEET.
- FOR GROUND POTENTIAL RISE (GPR) CONCERNS THE ELECTRIC AND TELEPHONE SERVICE TO THE SITE SHALL INCORPORATE ELECTRICAL PROTECTION SUFFICIENT TO PREVENT TRANSMISSION SYSTEM FAULT CURRENTS FROM ENTERING THE LOCAL ELECTRICAL AND TELEPHONE DISTRIBUTION SYSTEMS THROUGH POWER, SIGNAL, OR GROUND CONDUCTORS.
- THE ELECTRIC SERVICE TRANSFORMER SHALL BE DESIGNED TO SERVE ONLY THE WIRELESS ---EQUIPMENT. NO OTHER SERVICE DROPS FROM THESE TRANSFORMERS ARE PERMITTED WITH THE EXCEPTION THAT ADDITIONAL WIRELESS EQUIPMENT AT THE SAME SITE CAN BE SUPPLIED BY THE SAME TRANSFORMER.
- LOCATION OF THE WIRELESS EQUIPMENT IN THE TRANSMISSION STRUCTURE SHOULD NOT ADVERSELY INTERFERE WITH POSE TRANSMISSION MAINTENANCE ACTIVITIES, I.E. CASCAL CABLE ROUTING AND ANTENNA ARRAY LOCATION SHALL NOT INTERFERE WITH THE LUDMAN CLIMBING ROUTE OR HOT STICK ATTACHMENT LOCATIONS DESIGNED INTO THE STRUCTURE.

B. WIRELESS CABINET LOCATION

CABINETS MOUNTED ON THE GROUND SHALL BE LOCATED UNDER LATTICE STEEL STRUCTURES AND A MINIMUM OF 8 FEET AWAY FROM WOOD POLES. IN APPROXIMATE EQUIPMENT LOCATIONS POSE WILL CONSIDER FUTURE ADDITIONS AND THE REPLACEMENT OF AGED WOOD POLES PRIOR TO INSTALLATION OF ANTENNAS ON WOOD POLE STRUCTURES.



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PROJECT INFORMATION:

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**EL PATIO
SUBSTATION**

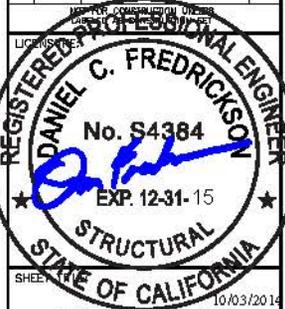
SF25XC826
771 CAMPBELL WAY
CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

ISSUED FOR: FINAL PERMIT

REVISIONS

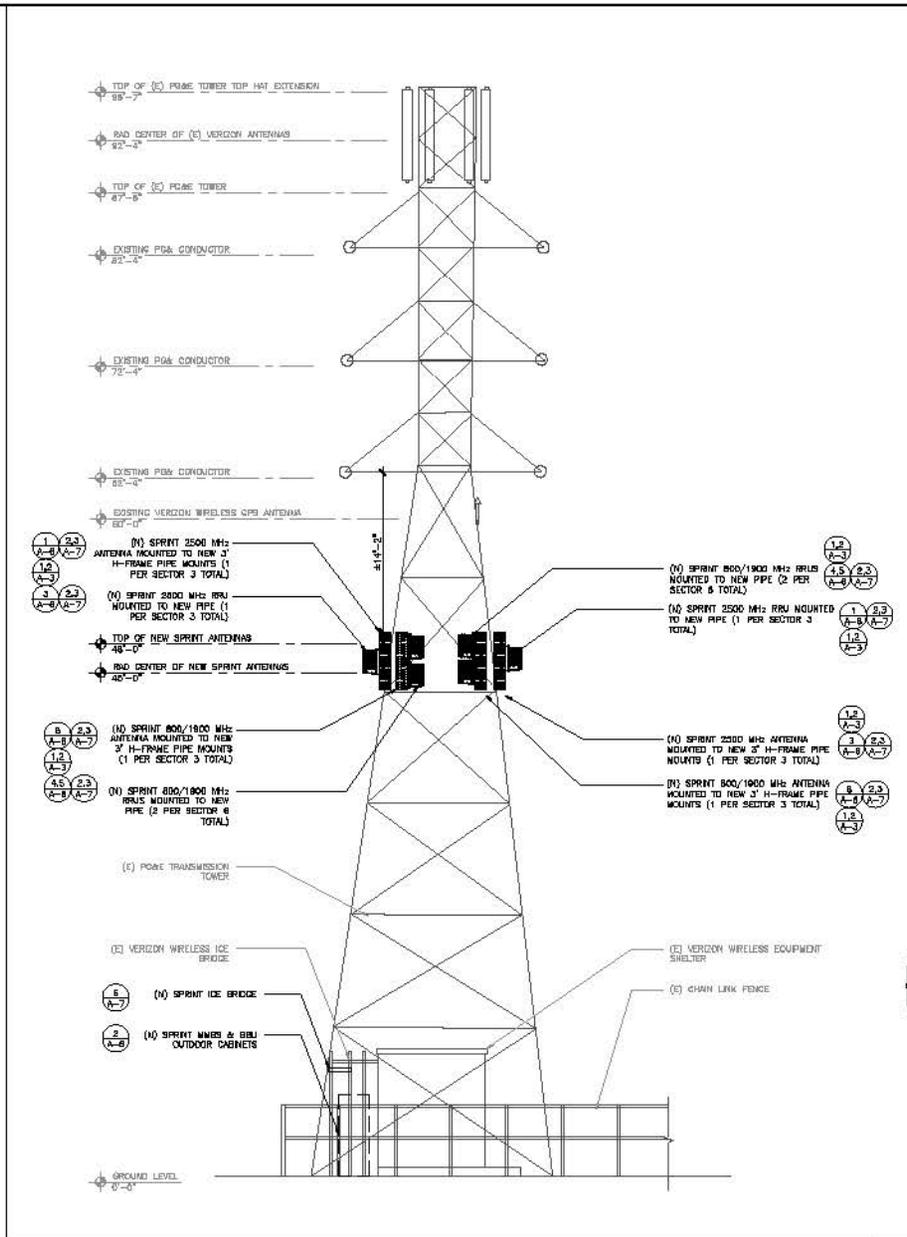
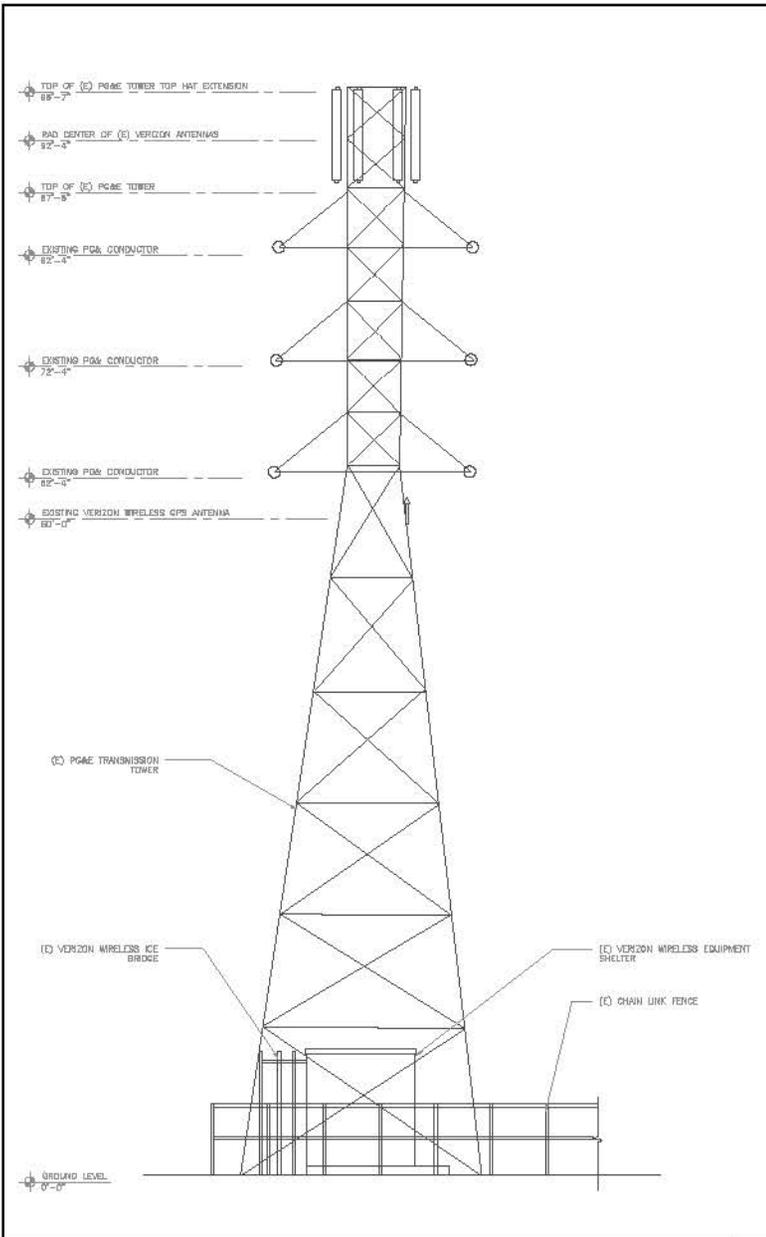
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C	5/9/14	REVISED PER SURVEY	NAP
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F	8/19/14	ISSUED FOR PRELIMINARY PERMIT	EXT
G	10/01/14	ISSUED FOR PRELIMINARY PERMIT	EXT
H	10/02/14	ISSUED FOR FINAL PERMIT	EXT



10/03/2014

GENERAL NOTES

SHEET NUMBER: **N-3** REVISION: H
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25'x34" SCALE: 3/16" = 1'-0"
 11'x17" SCALE: 3/32" = 1'-0"
 EXISTING SOUTHWEST ELEVATION 1

25'x34" SCALE: 3/16" = 1'-0"
 11'x17" SCALE: 3/32" = 1'-0"
 PROPOSED SOUTHWEST ELEVATION 2

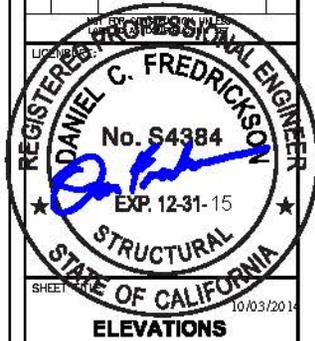


PROJECT INFORMATION:
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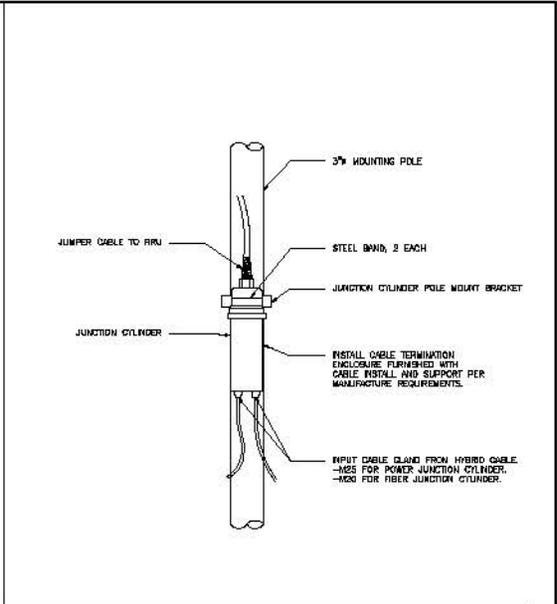
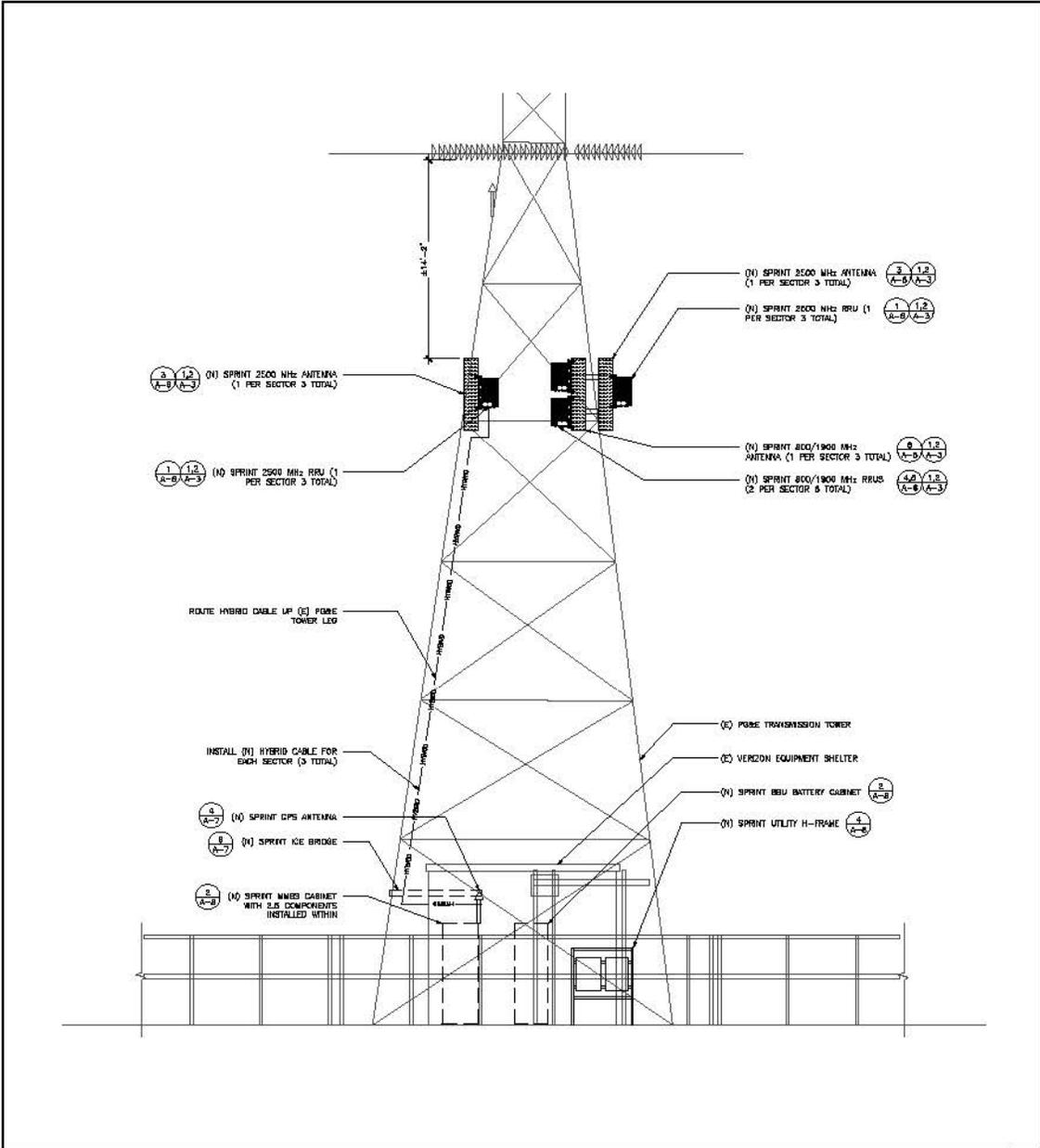
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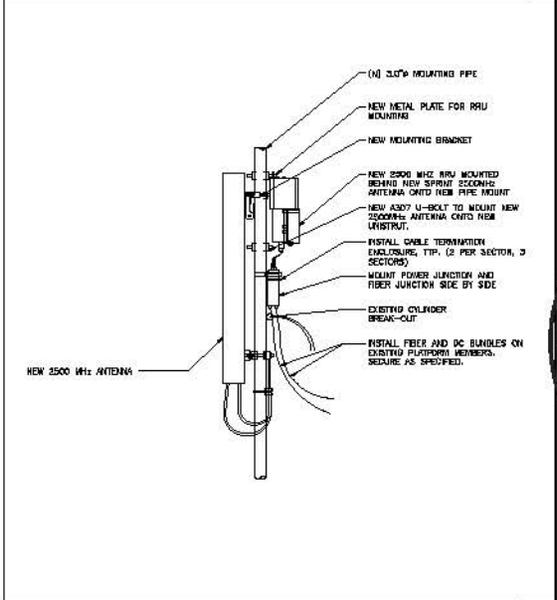
SHEET 10/03/2014
ELEVATIONS

SHEET NUMBER: **A-2.1**
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22"x34" SCALE: NO SCALE 11"x17" SCALE: NO SCALE HYBRID BREAK OUT DETAIL 1



22"x34" SCALE: NO SCALE 11"x17" SCALE: NO SCALE ANTENNA & RRU MOUNTING DETAIL 2

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 SPRINT ANTENNA RELO

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SF25XC826
 771 CHERRYWOOD WAY
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SHEET 10/03/2014
CABLE ROUTE ELEVATION

SHEET NUMBER: A-3	REVISION: H
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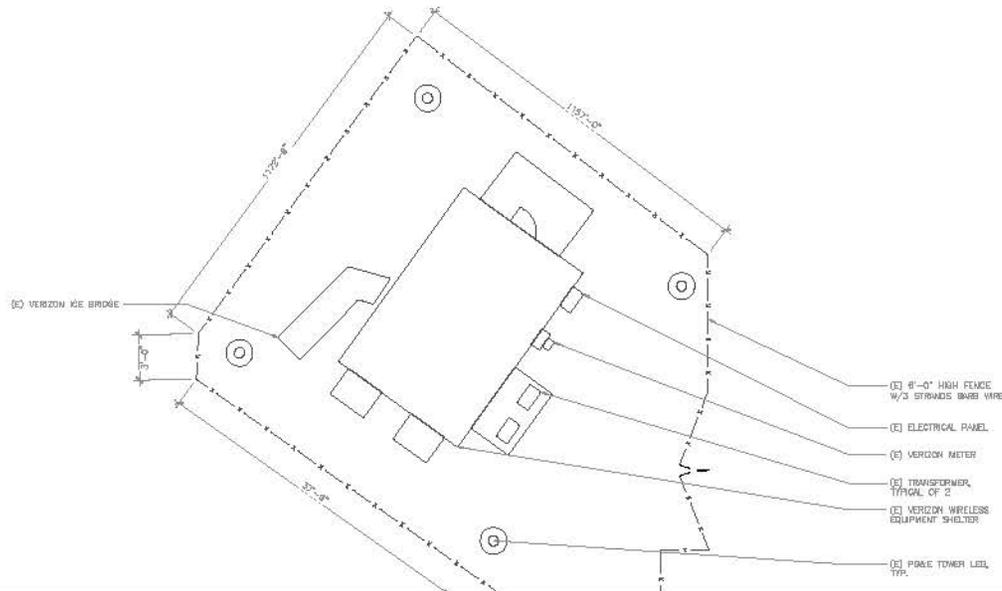
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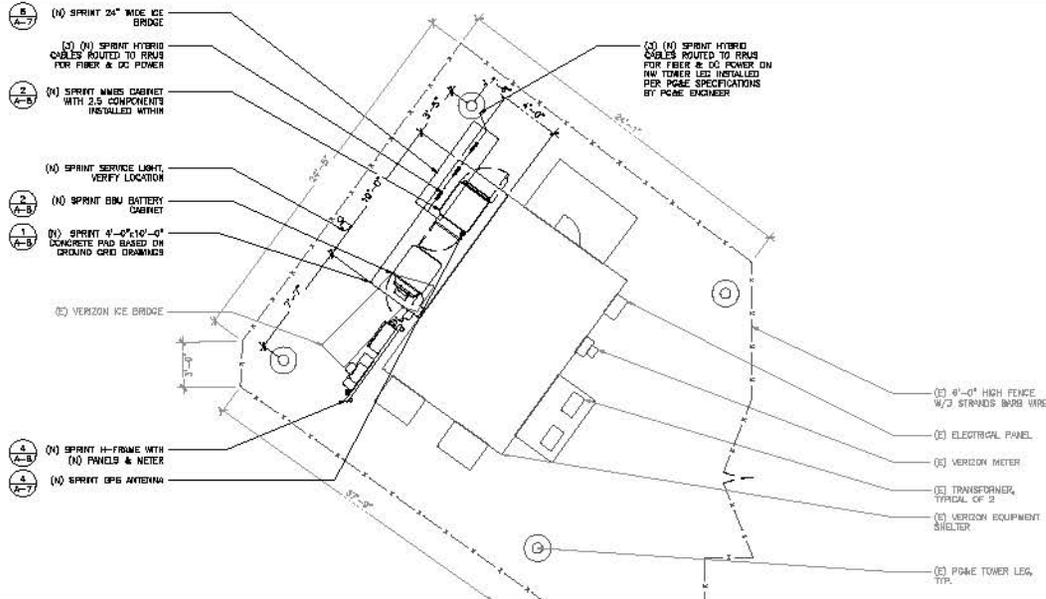
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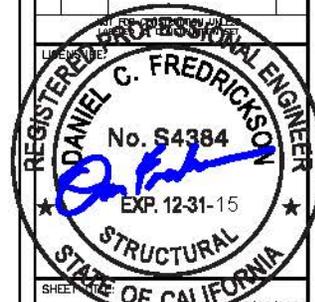
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 11°11' SCALE: 1/8" = 1'-0"

EXISTING EQUIPMENT PLAN 1



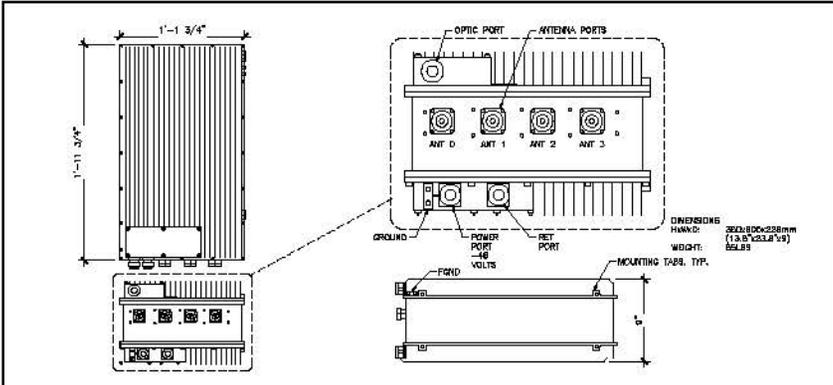
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PROPOSED EQUIPMENT PLAN 2

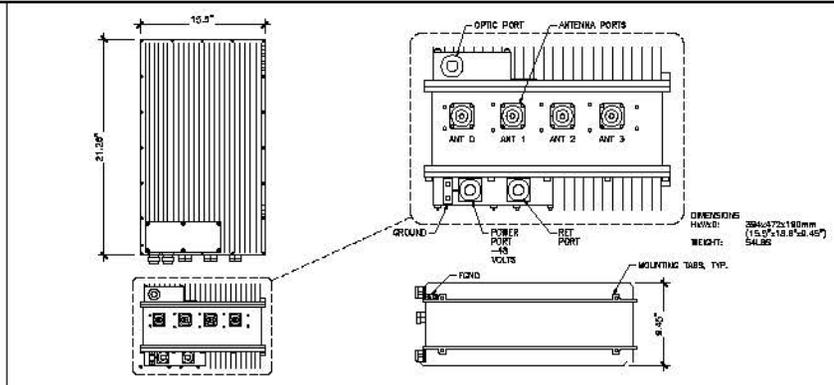


10/03/2014
EQUIPMENT LAYOUT

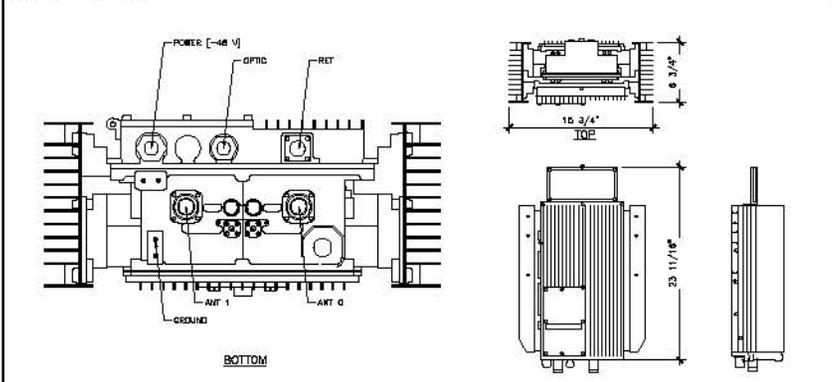
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 REVISION: H
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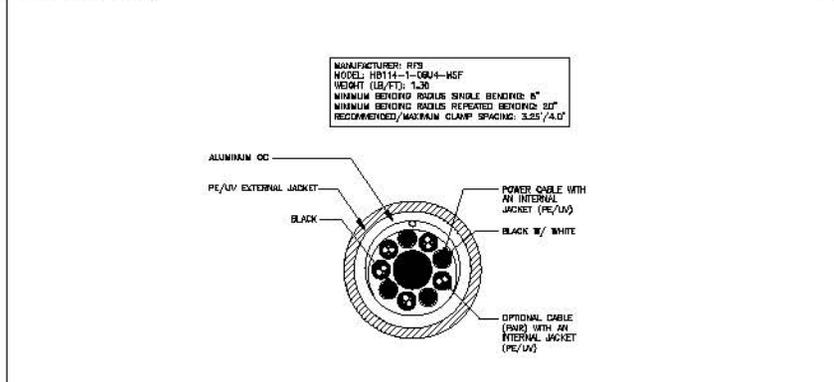
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800 MHZ RRU MECHANICAL SPECIFICATIONS 4



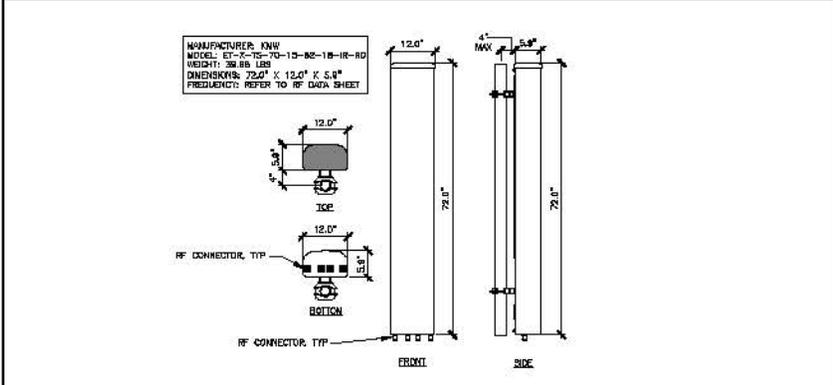
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2500 MHZ RRU-V3 MECHANICAL SPECIFICATIONS 1



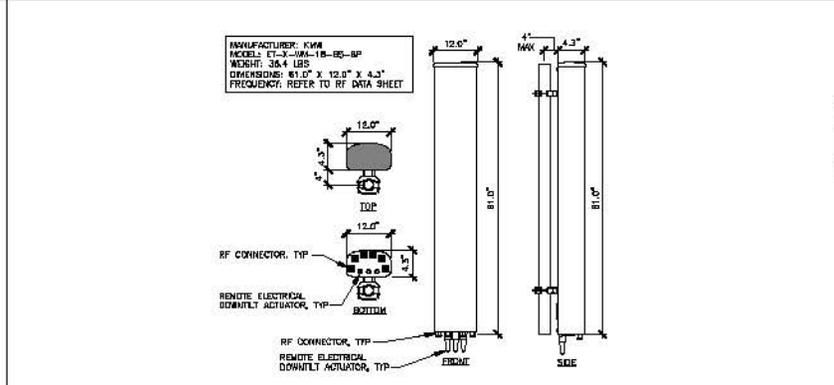
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1900 MHZ RRU MECHANICAL SPECIFICATIONS 5



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11"x17" SCALE: NOT TO SCALE
HYBRID CABLE X-SECTION 2



22"x34" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE
800/1900 MHZ ANTENNA SPECIFICATIONS 6



22"x34" SCALE: NOT TO SCALE
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2500 MHZ ANTENNA SPECIFICATIONS 3



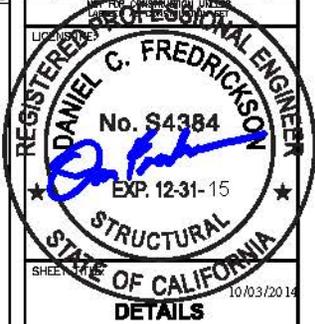
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PROJECT INFORMATION:
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CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

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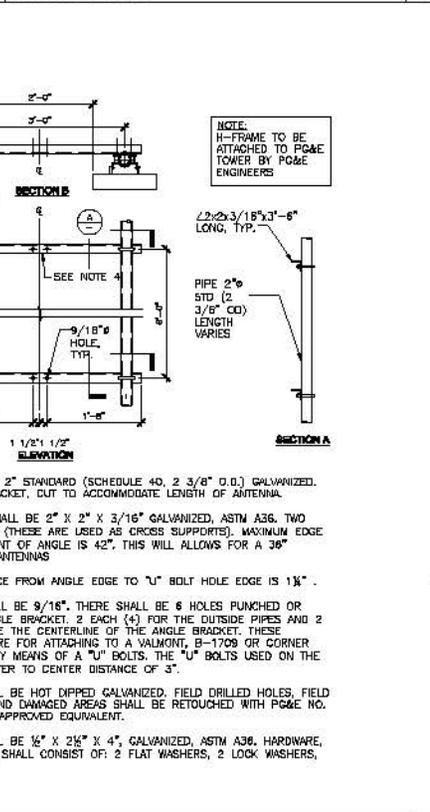
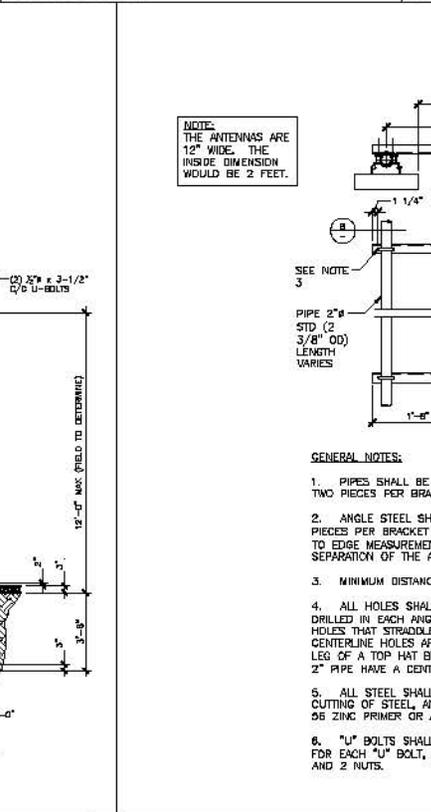
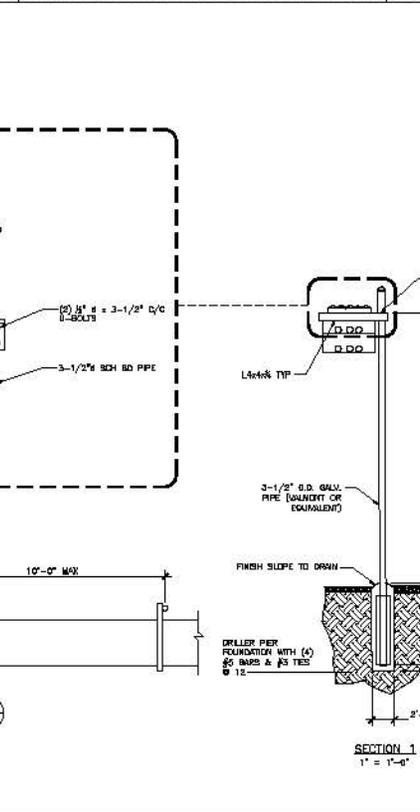
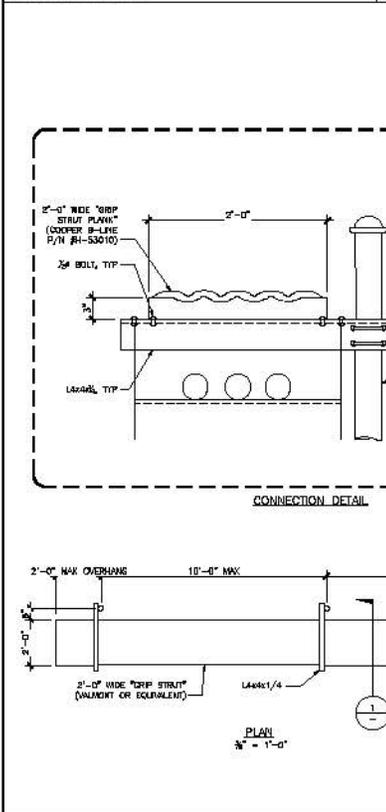
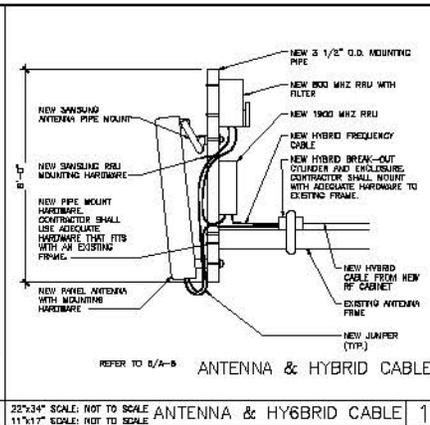
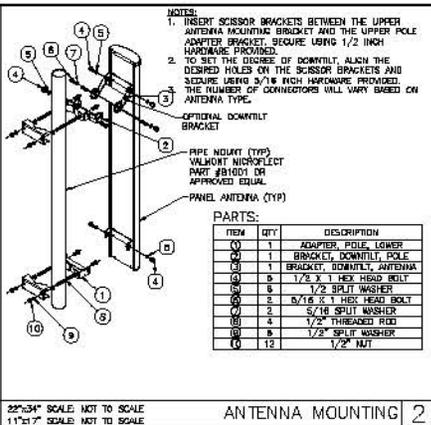
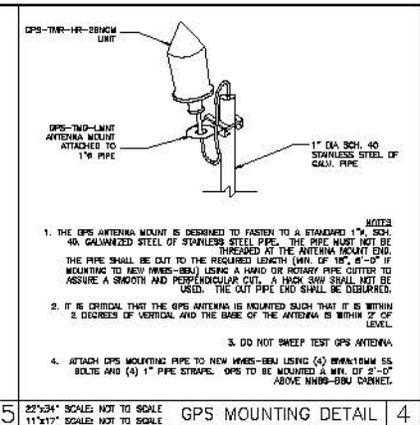
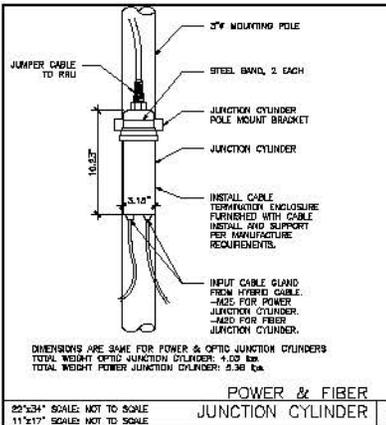
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SHEET NUMBER: **A-6**

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fmhc

CAMP+ASSOCIATES

PROJECT INFORMATION:
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EL PATIO SUBSTATION
SF25XC826
771 CRENSHAW WAY
CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

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E	6/27/14	ISSUED FOR PRELIMINARY PERMIT	EXT
F	8/18/14	ISSUED FOR PRELIMINARY PERMIT	EAT
G	10/01/14	ISSUED FOR PRELIMINARY PERMIT	EXT
H	10/02/14	ISSUED FOR FINAL PERMIT	EXT

REGISTERED PROFESSIONAL ENGINEER
DANIEL G. FREDRICKSON
No. S4384
EXP. 12-31-15
STRUCTURAL
STATE OF CALIFORNIA

SHEET: 10/03/2014

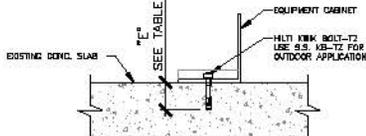
DETAILS

SHEET NUMBER: **A-7**

REVISION: H

SF25XC826

ANCHOR SCHEDULE		
BOLT DIA.	HOLE DIA.	"E" EMBEDMENT
3/8"	3/8"	2"
1/2"	1/2"	3"
5/8"	5/8"	3 1/2"
3/4"	3/4"	3 3/4"



- NOTES:**
- THE CONTRACTOR SHALL ACCURATELY LOCATE ALL EXISTING REINFORCING BY X-RAY OR EQUIVALENT METHOD. NO REBAR OR TENDONS SHALL BE CUT. ALL EXPOSURES RELATED TO REPAIR OR CUT REBAR OR TENDONS SHALL BE ENTIRELY AT THE EXPENSE OF THE CONTRACTOR.
 - SPECIAL INSPECTION IS REQUIRED FOR MULTI-KINK BOLT-T2 PER CSR-1017 CONCRETE EXPANSION ANCHORS AGAINST SEISMIC.
 - INSTALLATION OF WEDGE ANCHORS IN MASONRY IS NOT ALLOWED.
 - VERIFY WITH CABINET MANUFACTURER FOR MOUNTING HOLE LOCATIONS.

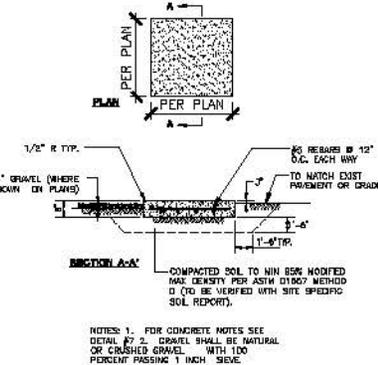
CABINET ANCHOR DETAIL 2

- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND SPECIFIED IN THE SPECIFICATION PROJECT SUMMARY.
- RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE RF EQUIPMENT, TOWER AREAS, AND ADJACENT BUILDINGS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION.

- SUBGRADE AND BASE PREPARATION:**
- FOR SLAB-ON-GRADE CONSTRUCTION IT WILL BE NECESSARY TO OVERDEVELOP THE SITE BY 2'-0" AND IMPORT AN APPROVED GRANULAR FILL. THE FILL SHALL BE COMPACTED TO AT LEAST 80% OF THE MAXIMUM DRY UNIT WEIGHT WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557).
 - COMPACTION REQUIREMENTS APPLY TO BACKFILL FOR UTILITY TRENCHES AND FOUNDATION EXCAVATIONS WITHIN STRUCTURES, DRIVEWAYS, OR PARKING LOT AREAS. COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN SUCCESSIVE, HORIZONTAL, APPROXIMATELY SIX TO EIGHT-INCH LAYER LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY.
 - ANY ORGANIC MATERIAL, DELETERIOUS MATERIAL OR DISTURBED SOIL SHALL BE REMOVED FROM FILLWORK AREAS.
 - THE GROUND SURFACE SURROUNDING EXTERIOR STRUCTURES SHALL BE SLOPED TO DRAIN AWAY IN ALL DIRECTIONS.

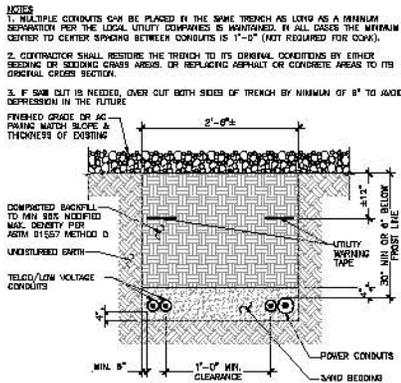
- SPECIAL INSPECTIONS:**
- SPECIAL INSPECTIONS IN ACCORDANCE WITH SEC 110 AND 1704 SHALL BE PERFORMED (AS REQUIRED) BY A QUALIFIED TESTING AGENCY APPROVED BY THE ARCHITECT. INSPECTION AGENCY SHALL BE RETAINED BY THE PROJECT OWNER OR THEIR REPRESENTATIVE. THE ARCHITECT, ENGINEER OF RECORD, AND BUILDING DEPARTMENT SHALL RECEIVE COPIES OF ALL INSPECTION AND TEST RESULTS. REFER TO DOCUMENTS FOR SPECIFIC INFORMATION.

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH A.C.I. 301, A.C.I. 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
- UNLESS NOTED OTHERWISE, ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT, AIR-ENTAINED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 POUNDS PER SQUARE INCH AT 28 DAYS. TYPE I-III PORTLAND CEMENT WILL BE USED WITH A MAXIMUM AGGREGATE SIZE OF 3/4" AND 65-75% AIR ENTRAINMENT. ALL CONCRETE WILL HAVE A MAXIMUM WATER/CEMENT (W/C) RATIO OF 0.48.
- ALL CONCRETE FLOWWORK SHALL HAVE A STIFF BRUSH FINISH AND HAVE A SLOPE OF 1/8" PER FOOT UNLESS NOTED OTHERWISE.
- REINFORCING BARS SHALL BE NEW BULLET STEEL CONFORMING TO A.S.T.M. A615, GRADE 60, DEFORMED.
- DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS, ETC. IN ACCORDANCE WITH "DETAILING OF CONC. REINFORCEMENT" (A.C.I. 315-89, REV. 1996).
- UNLESS OTHERWISE NOTED, ALL LAP SPICES SHALL BE CLASS B CONFORMING TO A.C.I. 318-89.
- A CHAMFER OF 1" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH A.C.I. 301 SECTION 4.2.4 UNLESS OTHERWISE NOTED.
- CONCRETE COVER FOR REINFORCING BARS SHALL CONFORM TO THE FOLLOWING UNLESS INDICATED OTHERWISE ON THE DRAWINGS:
 - CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND = 2 INCHES
 - CONCRETE CAST AGAINST EARTH = 3 INCHES
- COORDINATE LOCATION OF STEEL ANCHOR BOLTS WITH STEEL REINFORCER PRIOR TO INSTALLATION IN FIELD.
- CONTRACTOR SHALL PROVIDE SLEEVES FOR ALL WALL/SLAB PENETRATIONS (PIPING, DUCTS, ETC.) POWER, TELLED AND COAX. TO ENTER SITE UNDER EQUIPMENT SLAB.

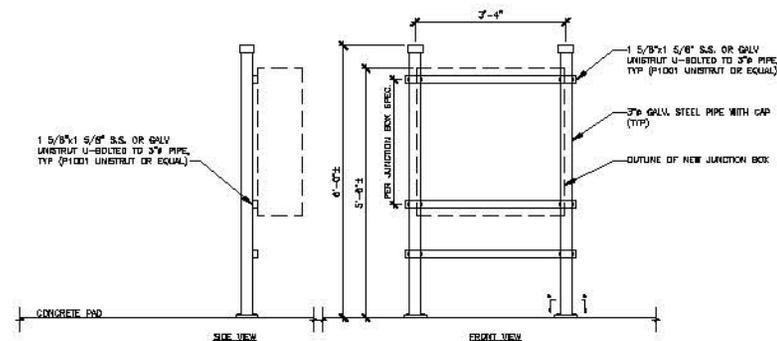


- NOTES:**
- FOR CONCRETE NOTES SEE DETAIL BY C. DANIEL SHALL BE NATURAL OR CRUSHED GRAVEL WITH 100 PERCENT PASSING 1 INCH SIEVE.
 - TO MATCH EXIST PAVEMENT OR GRADE
 - COMPACTED SOIL TO MIN 85% MODIFIED MAX DENSITY PER ASTM D1557 METHOD D (TO BE VERIFIED WITH SITE SPECIFIC SOIL REPORT).

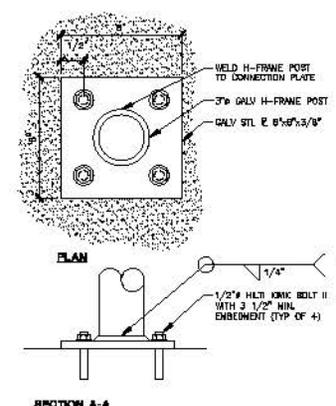
CONCRETE SLAB & NOTES 1



UTILITY TRENCH DETAIL 5



UTILITY H-FRAME DETAIL 4



UTILITY H-FRAME DETAIL 4

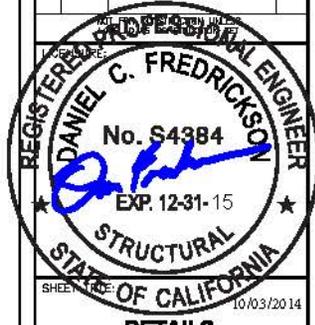


PROJECT INFORMATION:
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 CAMPBELL, CA 95008

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SHEET NUMBER: A-8

REVISION: H

SHEET NUMBER: A-8

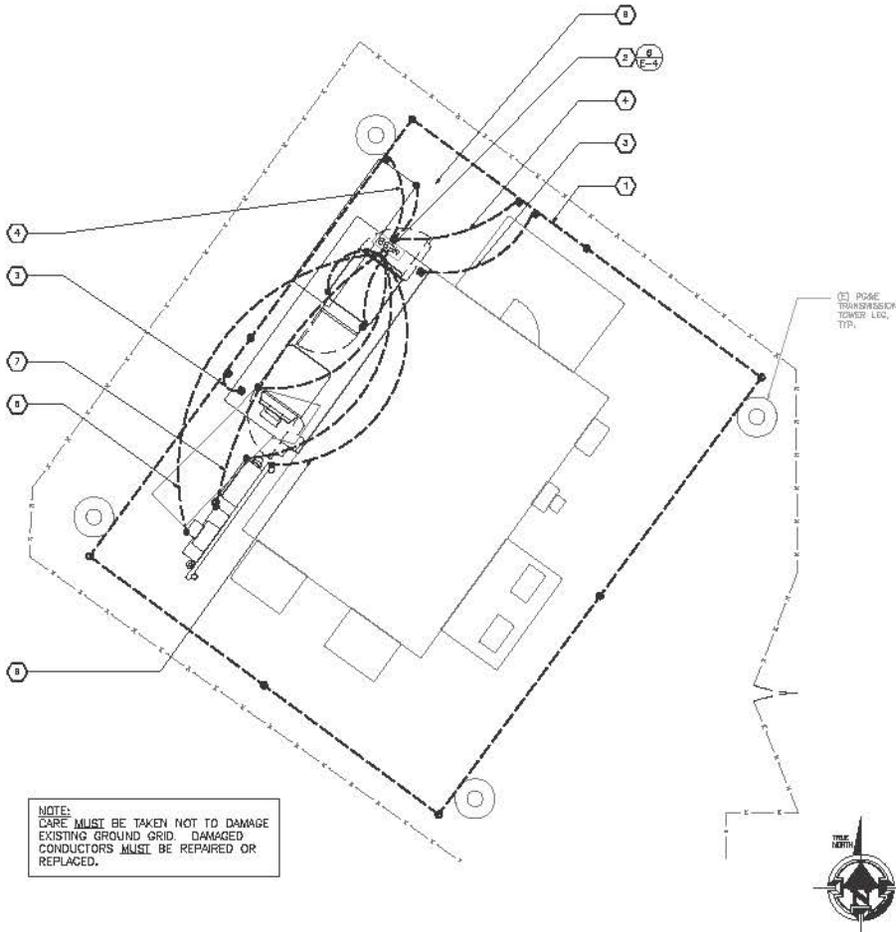
SF25XC826

KEY NOTES

- 1 EXISTING PGE TOWER GROUND GRID.
- 2 NEW MAIN EQUIPMENT BUS BAR
- 3 NEW CONNECTION FROM CONCRETE REBAR TO EXISTING GROUND GRID WITH 250 MCM BOW AT 20 LOCATIONS MINIMUM (FOR EACH SEPARATE POLE) USING APPROVED DMC CONNECTORS.
- 4 (2) 250 MCM GROUND LEADS FROM 250 MCM GROUND GRID TO MAIN EQUIPMENT BUS BAR
- 5 #2 BARE TINNED COPPER CONDUCTOR FROM NEW METER TO NEW EQUIPMENT MAIN BUS BAR
- 6 #2 BARE TINNED COPPER CONDUCTOR FROM NEW ICE BRIDGE TO NEW EQUIPMENT MAIN BUS BAR
- 7 #2 BARE TINNED COPPER CONDUCTOR FROM NEW PANEL TO NEW EQUIPMENT MAIN BUS BAR
- 8 #2 BARE TINNED COPPER CONDUCTOR FROM NEW H-FRAME TO NEW EQUIPMENT MAIN BUS BAR

LEGEND

- DMC CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION
- COLLECTOR GROUND BAR
- EXTERNAL GROUND BAR

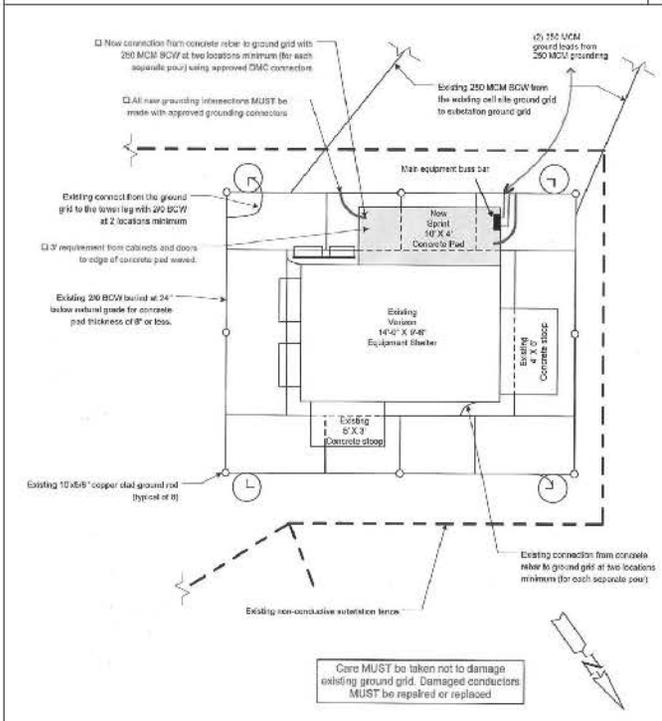


NOTE:
CARE MUST BE TAKEN NOT TO DAMAGE EXISTING GROUND GRID. DAMAGED CONDUCTORS MUST BE REPAIRED OR REPLACED.

EQUIPMENT GROUNDING PLAN 3

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS AND ALL APPLICABLE LEGAL CODES.
2. ALL GROUNDING SHALL CONFORM TO THE CURRENT SPRINT STANDARDS.
3. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. PRE-FABRICATED SHIELDER WILL BE PROVIDED WITH INTERNAL WIRING AND EQUIPMENT INSTALLED. FOR COMPLETE INTERNAL WIRING AND EQUIPMENT REFER TO DRAWINGS PROVIDED BY SHIELDER MANUFACTURER.
6. FOR INTERIOR EQUIPMENT LAYOUT AND LOCATION, SEE SHIELDER MANUFACTURER'S DRAWINGS AND SPECIFICATIONS. IN CASE OF CONFLICT THE DRAWINGS CONTROL.
7. ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXTERIOR (GALVANIZED).
8. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING TWO (2) HIGH PRESS CRIMPS.
9. ALL EXTERIOR CONNECTIONS TO THE DRAINING ROOF SHALL START AT THE TOP & HAVE A VERTICAL SEPARATION OF 6" FOR EVERY ADDITIONAL CONNECTION.
10. ALL GROUNDING CONNECTIONS TO BE CLEAN AND FREE OF PAINT AT THEIR WIRING SURFACES AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
11. ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG TH PLATED COPPER UNLESS OTHERWISE NOTED.
12. GROUND RODS SHALL BE STAINLESS STEEL OR COPPER CLAD STEEL, 5/8" 10-17, LONG, AND SHALL BE DRIVEN VERTICALLY WITH THEIR TOPS 18" BELOW FINAL GRADE OR 4" BELOW FROST LINE FOR MAXIMUM DEPTH.
13. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOWNEID UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
14. USE OF AS-BEANS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED UNLESS AS-BEANS CAN BE ADEQUATELY SUPPORTED.
15. DRAINAGE PINS SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 8" MINIMUM BELOW THE FROST LINE.
16. RETAIL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE PADS, SPREAD FOOTING, OR FENCE.
17. EXTERIOR WELD GROUND CONNECTION TO FENCE POSTS TREAT WITH A ZINC GALVANIZED SPRAY.
18. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE DRAINAGE.
19. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED IF MISSING.
20. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 0 OHMS.
21. MINIMUM BENDING RADIUS FOR GROUNDING CONDUCTORS IS 8" WHILE BENDING IS ALLOWED. GROUND CONDUCTORS ARE TO BE AS STRAIGHT AS POSSIBLE.
22. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
23. ENSURE ALL MECHANICAL CONNECTIONS ARE TIGHTENED TO THE MANUFACTURER'S SPECIFIED VALUES.
24. GROUND BARS SHALL NOT BE REID MODIFIED.
25. ALL HORIZONTAL FENCE SECTION TO BE GROUNDING WITH 8" STEEL SPWELL GROUND STRAPS.
26. USE PDA SCHEME FOR LANDING ON NGS AS DISCUSSED IN MEMO 11/11_2013_26.
27. ALL GALVANIZED CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COVERED WITH TWO (2) COATS OF ZINC-RICH BLENDED GALVANIC PAINT BEFORE OR EQUAL.
28. ALL ELECTRICAL UNWELDED AND MECHANICAL GROUND CONNECTIONS WILL HAVE NON-OXIDATION COMPOUND APPLIED TO CONNECTION.
29. ANY METAL OBJECTS WITHIN 6 FEET OF THE EXTERNAL GROUND RING SHALL BE GROUNDING.
30. ALL GROUNDING MATERIALS AND UNWELDED JOINTS, SPLICES, ETC. SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS OTHERWISE NOTED.
31. THE ELECTRICAL CONTRACTOR SHALL FOLLOW GROUNDING SYSTEM INSTALLED AND TESTING PROCEDURES AS DESCRIBED IN THE GENERAL ELECTRICAL PROVISIONS.

GENERAL GROUNDING NOTES 1



PGE GROUND GRID 2





CAMP+ASSOCIATES

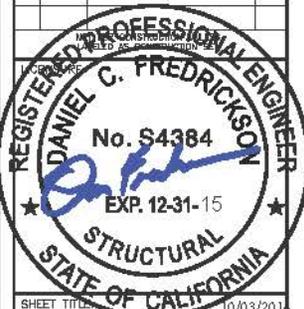
PROJECT INFORMATION:
SPRINT ANTENNA RELO

EL PATIO SUBSTATION
SF25XC826
771 CHERRYBROOK WAY
CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

ISSUED FOR: FINAL PERMIT

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	3/28/14	ISSUED FOR PRELIM PERMIT	NAP
B	4/14/14	ISSUED FOR PRELIM PERMIT	NAP
C	5/6/14	REVISED PER SURVEY	NAP
D	5/28/14	ISSUED FOR PRELIMINARY PERMIT	NAP
E	6/27/14	ISSUED FOR PRELIMINARY PERMIT	EXT
F	8/18/14	ISSUED FOR PRELIMINARY PERMIT	EAT
G	10/01/14	ISSUED FOR PRELIMINARY PERMIT	EXT
H	10/02/14	ISSUED FOR FINAL PERMIT	EXT



SHEET TITLE: 10/03/2014

EQUIPMENT GROUNDING PLAN & DETAILS

SHEET NUMBER: **E-2** REVISION: H

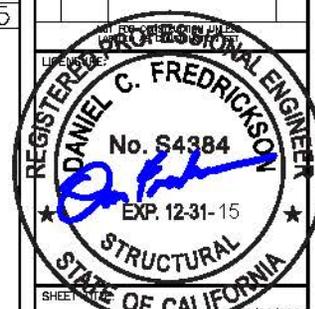
SF25XC826

PROJECT INFORMATION:
 SPRINT ANTENNA RELO
EL PATIO SUBSTATION
SF25XC826
 171 CRENSHAW WAY
 CAMPBELL, CA 95008

ISSUE DATE: 10/02/14

ISSUED FOR: FINAL PERMIT

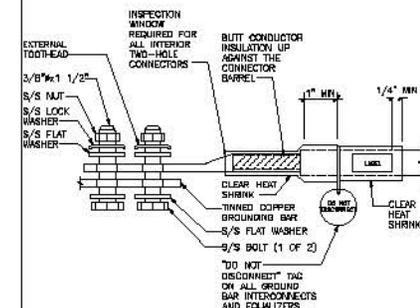
REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
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B	4/14/14	ISSUED FOR PRELIM PERMIT	NAP
C	5/8/14	REVISED PER SURVEY	NAP
D	5/28/14	ISSUED FOR PRELIMINARY PERMIT	NAP
E	6/27/14	ISSUED FOR PRELIMINARY PERMIT	EXT
F	8/18/14	ISSUED FOR PRELIMINARY PERMIT	EXT
G	10/01/14	ISSUED FOR PRELIMINARY PERMIT	EXT
H	10/02/14	ISSUED FOR FINAL PERMIT	EXT



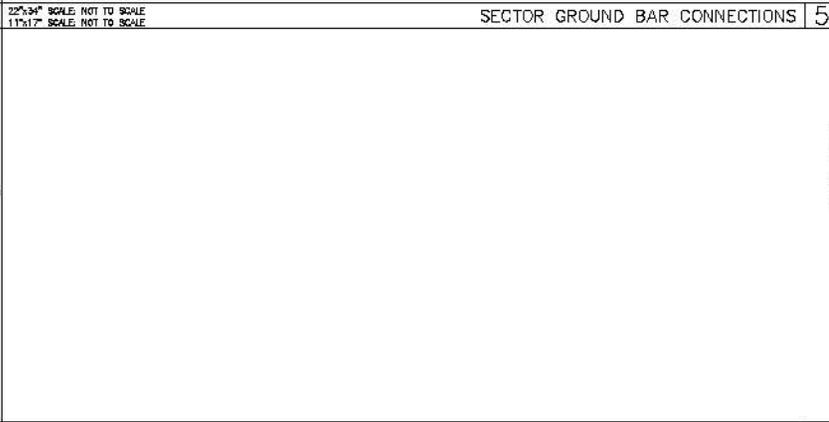
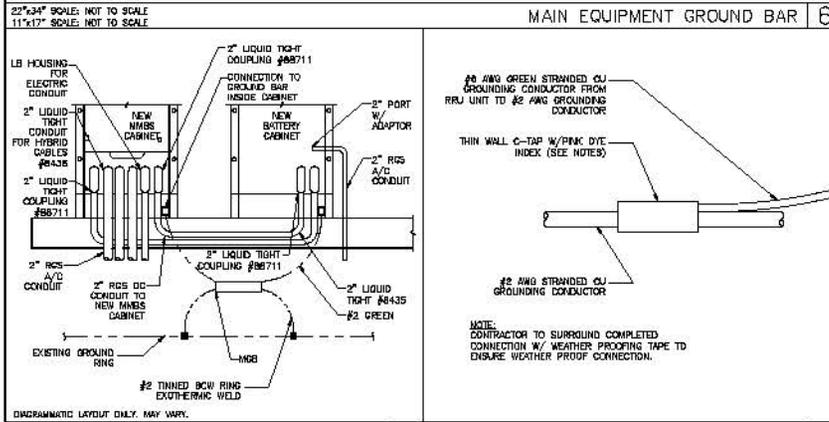
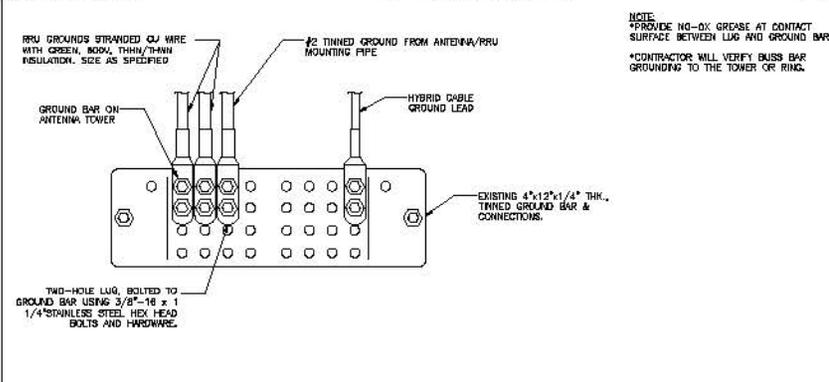
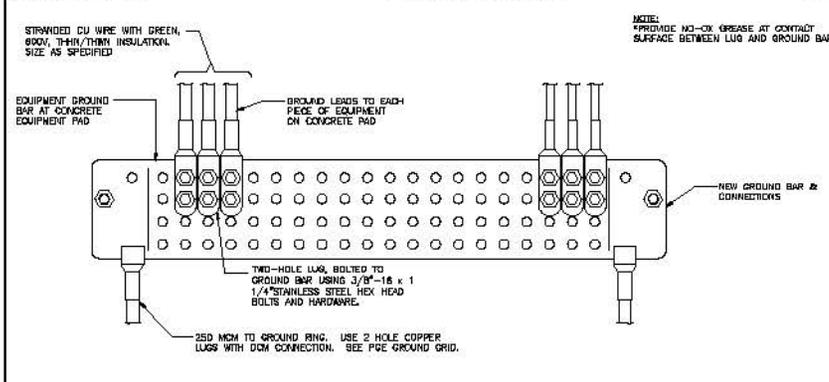
SHEET NO. 10/03/2014

GROUNDING DETAILS

SHEET NUMBER: **E-4** REVISION: H
 SF25XC826



22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE	NOT USED	4	22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE	NOT USED	3	22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE	NOT USED	2	22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE	TWO HOLE LUG	1
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22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE	CABINET GND SCHEMATIC	9	22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE	C-TAP CONNECTION	8	22"x34" SCALE: NOT TO SCALE 11"x17" SCALE: NOT TO SCALE	NOT USED	7
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