



## MEMORANDUM

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**TO:** Trinidad Planning Commission

**FROM:** Trever Parker, City Planner

**DATE:** October 11, 2013

**RE:** Sprint 4G Upgrade CDP Exemption Determination Concurrence Request

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On July 31, 2013, Sprint submitted a proposal to upgrade and replace their existing equipment on Trinidad Head to accommodate 4G technology. The proposal was similar to one made and completed by Verizon last year. On August 14, 2013 the City Council gave approval as the landowner / leaseholder for Sprint to move forward with a permit application for the proposed changes. It was determined that Sprint's original proposal would require a Coastal Development Permit (CDP). Therefore Sprint submitted a modified proposal on September 18, 2013 for which staff has determined that a CDP will not be required. This determination was made in coordination and after discussion with Coastal Commission staff. Staff is requesting concurrence from the Planning Commission on this determination. This will allow another opportunity for public input due to the controversy of making changes at this cellular site. The Planning Commission's determination is appealable to the City Council and Coastal Commission.

The currently proposed changes are summarized as follows:

1. Removing and replacing 2 existing radio cabinets behind the existing screened fence. The new cabinets will be placed in the same location as the existing cabinets. No ground disturbance or visual changes will occur as a result.
2. Adding 6 new Remote Radio Units (RRUs) at the base of the existing monopole behind existing screened fencing. No ground disturbance or visual changes will occur as a result.
3. Adding other, minor, miscellaneous equipment inside the existing screened fencing, including a new fiber-optic connection to existing underground lines. No ground disturbance or visual changes will occur as a result.
4. Removing an existing GPS antenna and replacing it in a lower location that will be mostly screened by existing fencing and cabinets.
5. Replacing 9 existing 1" coax cables with 18 new ½" coax cables on the existing monopole. Although there will be more cables, because they are smaller in diameter, they will be more flush with the pole than the existing cables. The cables will be painted in a brown, non-reflective, galvanizing compound that best matches the existing monopole.
6. Remove and replace 3 existing antennas (51"x11.9"x7.1") with 3 new antennas (48"x11.8"x7.9") at the same height on the existing monopole.
7. The project will not result in any new ground disturbance. Work will be carried out within a short period of time (a few days) with minimal equipment consisting of light duty trucks.

The current proposal described above differs from the original proposal, submitted to the City on July 31, 2013, in several ways as follows:

1. The concrete pad expansion for a new equipment cabinet has been eliminated, so no new ground disturbance will occur.
2. The guy wire supporting the pole no longer needs to be moved.
3. The replacement antennas, though still larger than the existing antennas, have been reduced in size from the original proposal.

The project clearly falls under the Coastal Act and the City of Trinidad definition of development as it entails “...on land, in or under water, the placement or erection of any solid material or structure; discharge or disposal of any dredged material or of any gaseous, liquid, solid, or thermal waste; grading, removing, dredging, mining, or extraction of any materials; change in the density or intensity of use of land.”

The question then becomes one of whether the project falls under any exemptions. The Coastal Commission adopted the “Repair, Maintenance and Utility Hookups Exclusions from Permit Requirements” in 1978. This document includes the following language for communication facilities (section II.B.2.b): “A coastal permit is not required to maintain, replace, or modify existing overhead facilities, including the addition of equipment and wires to existing poles or other structures, right-of-way maintenance, and minor pole and equipment relocations. A coastal permit is not required ... [for] work required to supply increased demand of existing customers’ facilities in order to maintain the existing standard of service.” It was previously determined, through a similar application from Verizon, that the upgrade from 3G to 4G technology is not an increase in service capacity, but falls under the maintenance included in this language.

Section 13252 of the Coastal Act Regulations (Repair and Maintenance Activities Requiring a Permit) states: “The provisions of this section shall not be applicable to those activities specifically described in the document entitled *Repair, Maintenance and Utility Hookups*, adopted by the Commission on September 5, 1978 unless a proposed activity will have a risk of substantial adverse impact on public access, environmentally sensitive habitat area, wetlands or public views to the ocean.” Based on this language, Spint’s original proposal was deemed to be not exempt because the larger antennas had the potential for a substantial adverse impact on public views to the ocean.

In this case, the depth of the proposed antennas has been reduced so that they only present an 0.8” increase in size. In addition, the proposed antennas are 3” shorter than the existing antennas. The depth of the antennas has less of a view impact than the height due to the mounting brackets, pole and other antennas that also affect the same viewing area. So even though the overall volume is still being increased by approximately 3.8% the actual view impact appears to decrease due to the shorter height. In addition, although there will be 9 more coax cables, all 18 of the cables will be half the diameter of the existing cables, which would also decrease their profile on the pole. **For these reasons, it has been determined that the proposed project does not have the potential for a substantial adverse impact on public views, and therefore falls under the cited repair and maintenance exemption and will not require a Coastal Development Permit.**

If the Planning Commission concurs with staff’s determination, a motion could be similar to the following: Based on the information submitted in the application, included in this memo and public testimony, I move to concur with staff’s determination that the proposal is exempt from the requirement to obtain a Coastal Development Permit.

# Streamline Engineering

and Design, Inc



September 18, 2013

City of Trinidad  
Po Box 390  
Trinidad, CA 95570

**RE: Sprint modification at Trinidad Head**

**Subject: Scope of Work Activity**

To whom it may concern,

Below is a description of the proposed scope of work at the above referenced site:

- Remove and replace existing antennas with new antennas on existing monopole (no height increase). Existing antennas ((3)51"x11.9"x7.1") new antennas ( (3) 48"x11.8"x7.9"). Antennas will be painted matte finish brown.
- Add Remote Radio Units (RRU) at the base of the pole behind existing screened fencing.
- Removing and replacing 2 existing radio cabinets behind existing screened fence.
- Replacing (9) existing 1" coax cables with 18 (1/2") runs of coax cabling to antennas attached flush to pole and painted to match.
- Construction equipment will likely consist of light duty trucks (1-2)
- Adding a fiber optic connection in lease area. Lines run in existing underground conduit.

Thank you,

By: \_\_\_\_\_

**Sam Savig, Streamline Engineering and Design - an authorized representative of Sprint Nextel**  
**8445 Sierra College Ste E**  
**Granite Bay, CA 95746**  
**sam@streamlineeng.com**



PROJECT: NETWORK VISION MM  
MARKET: UPPER VALLEY

# SF03UB366-A - UBIQUITEL - TRINIDAD HEAD

2478 TRINIDAD HEAD  
TRINIDAD, CA 95570

UBIQUITEL -  
TRINIDAD  
HEAD

SF03UB366-A  
2478 TRINIDAD HEAD  
TRINIDAD, CA 95570

ISSUE STATUS

| Δ | DATE     | DESCRIPTION | M.D. |
|---|----------|-------------|------|
|   | 04/11/13 | ZD 90%      | J.K. |
|   | 09/18/13 | ZD 100%     | J.K. |
|   | -        | -           | -    |
|   | -        | -           | -    |
|   | -        | -           | -    |
|   | -        | -           | -    |

DRAWN BY: S. EHNAT

CHECKED BY: L. HOUGHTBY

APPROVED BY: -

DATE: 09/18/13

PROJECT DESCRIPTION

A MODIFICATION TO AN (E) UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF REMOVING & REPLACING (3) (E) ANTENNAS W/ (3) (P) SPRINT ANTENNAS, (2) (E) SPRINT CABINETS W/ A (P) SPRINT MMBS CABINET, & A (P) SPRINT BATTERY CABINET. ALSO ADDING A (P) GPS ANTENNA, (6) (P) RRU'S, (3) (P) HYBRID CABLES FOR FIBER & DC POWER, (18) (P) RUNS OF COAX FROM THE RRU'S TO ANTENNAS, (2) (P) MONOPOLE CHAIN MOUNTS, A (F) CIENA UNIT, & A (F) UAM UNIT.

PROJECT INFORMATION

|                       |  |               |                  |
|-----------------------|--|---------------|------------------|
| SITE NAME:            | UBIQUITEL-TRINIDAD HEAD                                  | SITE #:       | SF03UB366-A      |
| COUNTY:               | HUMBOLDT   | JURISDICTION: | CITY OF TRINIDAD |
| APN:                  | 042-121-006  | POWER:        | PG&E             |
| SITE ADDRESS:         | 2478 TRINIDAD HEAD<br>TRINIDAD, CA 95570                 | TELEPHONE:    | AT&T             |
| CURRENT ZONING:       | -  |               |                  |
| CONSTRUCTION TYPE:    | V-B  |               |                  |
| OCCUPANCY TYPE:       | U, (UNMANNED COMMUNICATIONS FACILITY)                    |               |                  |
| PROPERTY OWNER:       | CITY OF TRINIDAD<br>409 TRINITY ST<br>TRINIDAD, CA 95570 |               |                  |
| APPLICANT:            | SAMSUNG<br>2623 CAMINO RAMON<br>SAN RAMON, CA 94583      |               |                  |
| LEASING CONTACT:      | ATTN: ALYSE MATHIS<br>(916) 660-1930                     |               |                  |
| ZONING CONTACT:       | ATTN: ALYSE MATHIS<br>(916) 660-1930                     |               |                  |
| CONSTRUCTION CONTACT: | ATTN: RUSSELL MIX<br>(916) 869-2865                      |               |                  |
| LATITUDE:             | N 41° 03' 12.85" NAD 83<br>N (41.053569)° NAD 83         |               |                  |
| LONGITUDE:            | W 124° 09' 02.07" NAD 83<br>W (-124.150575)° NAD 83      |               |                  |
| AMSL:                 | ±338'  |               |                  |

VICINITY MAP



DRIVING DIRECTIONS

FROM: 2623 CAMINO RAMON, SAN RAMON, CA 94583  
TO: TRINIDAD HEAD, TRINIDAD, CA 95570

- HEAD SOUTHEAST ON CAMINO RAMON TOWARD BISHOP DR 0.3 MI
- TAKE THE 2ND RIGHT ONTO BOLLINGER CANYON RD 0.4 MI
- MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO 10.9 MI
- TAKE THE STATE ROUTE 24 174 FT
- TAKE EXIT 46A ON THE LEFT TO MERGE ONTO CA-24 W 13.4 MI
- TAKE EXIT 2B FOR INTERSTATE 580 W 1.0 MI
- MERGE ONTO I-580 W 1.1 MI
- MERGE ONTO I-580 W/I-80 E 3.8 MI
- KEEP RIGHT TO CONTINUE ON I-580 W, FOLLOW SIGNS FOR SAN RAFAEL 12.9 MI
- TAKE EXIT 1A ON THE LEFT TO MERGE ONTO US-101 N 277 MI
- TAKE EXIT 728 TOWARD TRINIDAD 0.1 MI
- TURN LEFT ONTO MAIN ST/WESTHAVEN DR 0.2 MI
- TURN LEFT ONTO TRINITY ST 0.2 MI
- TURN RIGHT ONTO EDWARDS ST 0.2 MI
- TURN LEFT ONTO LIGHTHOUSE RD 0.1 MI
- TURN LEFT AT BAY ST 0.2 MI
- TURN LEFT AT TRINIDAD HEAD TRAIL 0.3 MI
- TURN RIGHT 0.2 MI
- TURN RIGHT AT TRINIDAD HEAD TRAIL (DESTINATION ON LEFT) 394 FT

END AT: TRINIDAD HEAD, TRINIDAD, CA 95570

ESTIMATED TIME: 5 HOURS 26 MINUTES ESTIMATED DISTANCE: 323 MILES

CODE COMPLIANCE

ALL WORK & MATERIALS SHALL BE PERFORMED & INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 2010 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 CALIFORNIA MECHANICAL CODE
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA FIRE CODE
- LOCAL BUILDING CODES
- CITY/COUNTY ORDINANCES
- ANSI/EIA-TIA-222-G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 1134B.2.1, EXCEPTION 4

SHEET INDEX

| SHEET | DESCRIPTION  | REV |
|-------|--|-----|
| T-1   | TITLE SHEET  | -   |
| A-1   | OVERALL SITE PLAN                                    | -   |
| A-2   | SITE PLAN  | -   |
| A-3   | (E) EQUIPMENT PLAN                                   | -   |
| A-4   | INTERIM/FINAL CONFIGURATION EQUIPMENT PLAN & DETAILS | -   |
| A-5   | ANTENNA PLANS & DETAILS                              | -   |
| A-6   | (E) & (P) WEST ELEVATIONS                            | -   |

APPROVAL

RF  
LEASING  
ZONING  
CONSTRUCTION

**Streamline Engineering and Design, Inc.**  
8445 Sierra College Blvd, Suite E Granite Bay, CA 95746  
Contact: Larry Houghtby Phone: 916-276-4180  
E-Mail: larry@streamlineeng.com Fax: 916-660-1941

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**Sprint**

12857 ALCOSTA BLVD SUITE 300  
SAN RAMON, CA 94583

SHEET TITLE:

TITLE

SHEET NUMBER:

T-1

PACIFIC OCEAN

TRINIDAD BAY

(E) SITE ACCESS

LIGHT HOUSE ROAD

SEE SITE PLAN

(E) SPRINT LEASE AREA W/ (E) & (P) SPRINT EQUIPMENT

(E) PROPERTY LINE FOR APN: 042-121-006

(E) WOOD MONOPOLE W/ (E) & (P) SPRINT ANTENNAS & (E) ANTENNAS BY OTHERS



OVERALL SITE PLAN

1"=100'-0"



**NOTICE**  
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**UBIQUITEL - TRINIDAD HEAD**

SF03UB366-A  
 2478 TRINIDAD HEAD  
 TRINIDAD, CA 95570

ISSUE STATUS

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DRAWN BY: S. EHNAT  
 CHECKED BY: L. HOUGHTBY  
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 DATE: 09/18/13

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 12857 AL COSTA BLVD SUITE 300  
 SAN RAMON, CA 94583

SHEET TITLE:  
 OVERALL SITE PLAN

SHEET NUMBER:  
**A-1**

**UBIQUITEL -  
TRINIDAD  
HEAD**

SF03UB366-A  
2478 TRINIDAD HEAD  
TRINIDAD, CA 95570

**ISSUE STATUS**

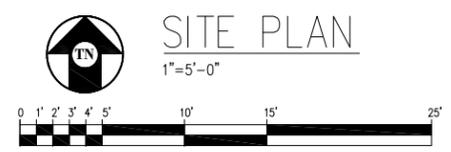
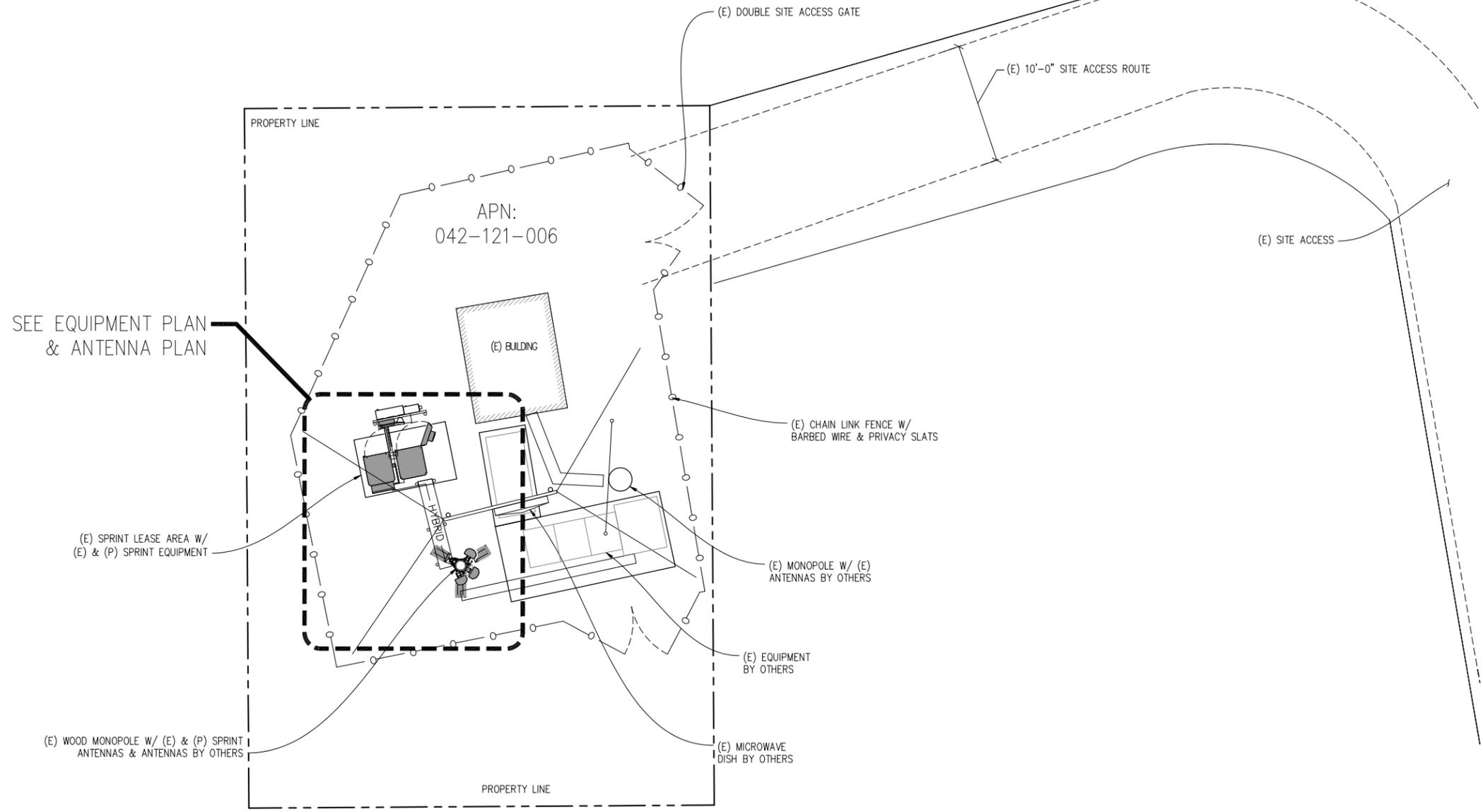
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DRAWN BY: S. EHNAT  
CHECKED BY: L. HOUGHTBY  
APPROVED BY: -  
DATE: 09/18/13

**Streamline Engineering**  
and Design, Inc.

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

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**Sprint**

12857 ALCOSTA BLVD SUITE 300  
SAN RAMON, CA 94583

**SHEET TITLE:**  
SITE PLAN

**SHEET NUMBER:**  
A-2

**UBIQUITEL - TRINIDAD HEAD**

SF03UB366-A  
2478 TRINIDAD HEAD  
TRINIDAD, CA 95570

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DRAWN BY: S. EHNAT

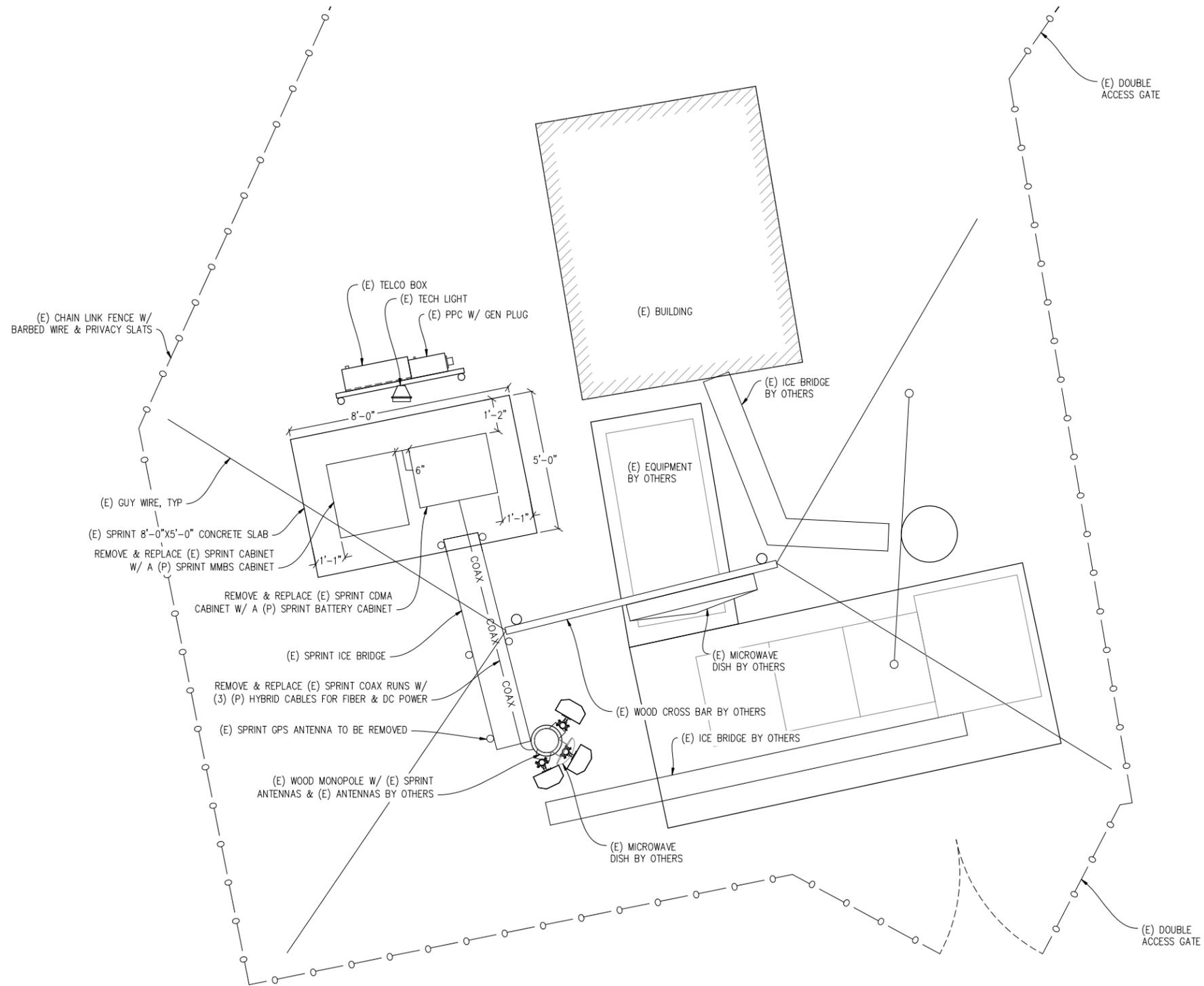
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APPROVED BY: -

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**EXISTING EQUIPMENT PLAN**

1/2" = 1'-0"



**NOTICE**

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12857 AL COSTA BLVD SUITE 300  
SAN RAMON, CA 94583

SHEET TITLE:

EXISTING EQUIPMENT PLAN

SHEET NUMBER:

A-3

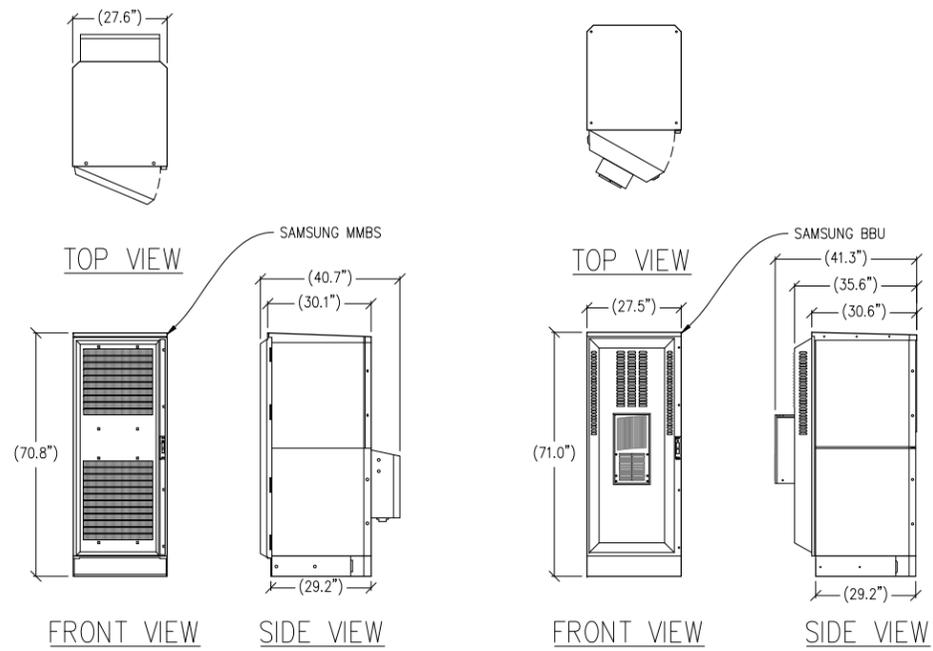
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CHECKED BY: L. HOUGHTBY  
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DATE: 09/18/13

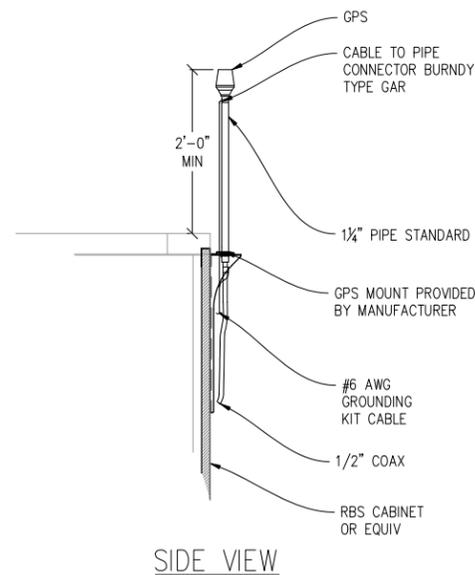
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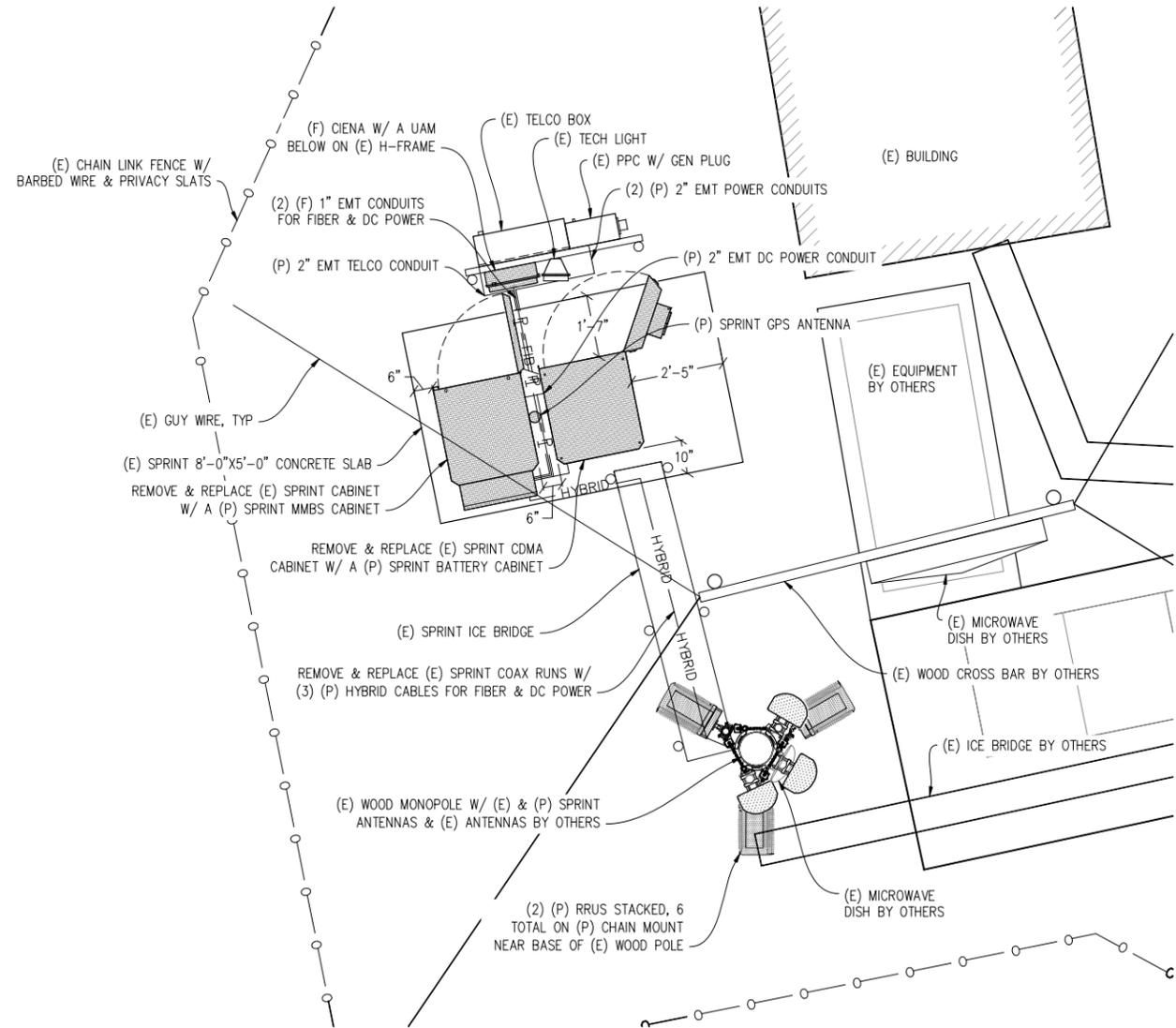


**1 MMBS CABINET**  
1/2"=1'-0" MAX WEIGHT: 554 LBS

**1 BATTERY CABINET**  
1/2"=1'-0" MAX WEIGHT: 1976 LBS



**3 GPS ANTENNA MOUNT DETAIL**  
1"=1'-0"



**INTERIM/FINAL CONFIGURATION EQUIPMENT PLAN**  
1/2"=1'-0"

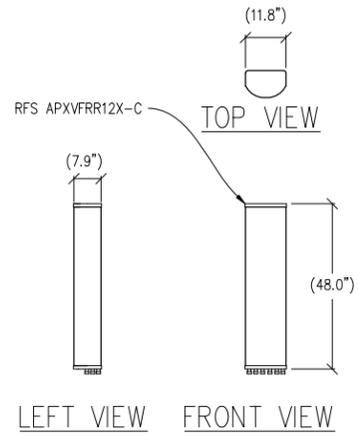


**NOTICE**

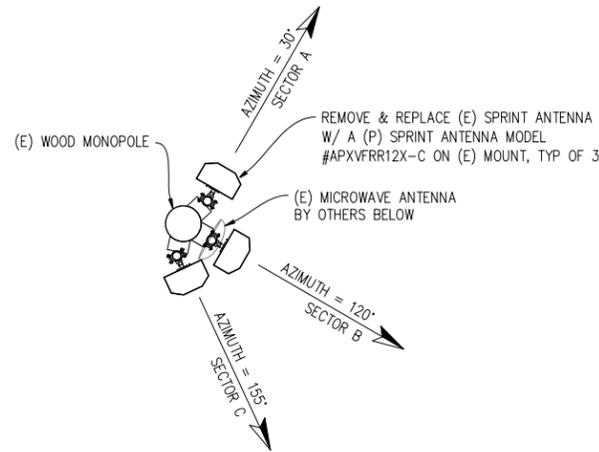
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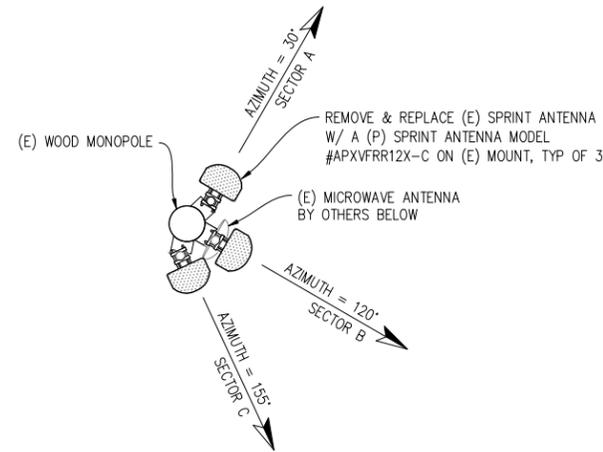
| ANTENNA SCHEDULE SF03UB366-A |            |               |                  |         |               |           |           |              |                |                |                      |             |                   |                  |                      |                                   |                    |           |             |     |
|------------------------------|------------|---------------|------------------|---------|---------------|-----------|-----------|--------------|----------------|----------------|----------------------|-------------|-------------------|------------------|----------------------|-----------------------------------|--------------------|-----------|-------------|-----|
| SECTOR                       | ANTENNAS   |               |                  |         |               | RRU'S     |           |              |                |                |                      |             | CABLING           |                  |                      |                                   |                    |           |             |     |
|                              | TECHNOLOGY | ANTENNA MODEL | RAD CENTER       | AZIMUTH | ELEC DOWNTILT | RRU FREQ. | RRU MODEL | NO. OF RRU'S | NO. OF FILTERS | NO. OF JUMPERS | JUMPER LENGTH (1/2') | NO. OF RETS | NO. OF RET CABLES | RET CABLE LENGTH | NO. OF HYBRID CABLES | HYBRID CABLE LENGTH (LINEAR FEET) | NO. OF COAX CABLES | COAX DIA. | COAX LENGTH |     |
| ALPHA SECTOR                 | A1         | 800/1900 MHz  | APXVFR12X-C      | 39'-0"  | 30°           | 0         | 800 MHz   | RRH-C2A      | 1              | 1              | 2                    | 35'         | 1                 | 1                | 9.8'                 | 1                                 | 21'                | N/A       | N/A         | N/A |
|                              |            |               |                  |         |               | 0         | 1900 MHz  | RRH-P4       | 1              | 0              | 4                    | 35'         | 1                 | 0                | N/A                  |                                   |                    | N/A       | N/A         |     |
| BETA SECTOR                  | B1         | 800/1900 MHz  | APXVFR12X-C      | 39'-0"  | 120°          | 0         | 800 MHz   | RRH-C2A      | 1              | 1              | 2                    | 35'         | 1                 | 1                | 9.8'                 | 1                                 | 21'                | N/A       | N/A         | N/A |
|                              |            |               |                  |         |               | 0         | 1900 MHz  | RRH-P4       | 1              | 0              | 4                    | 35'         | 1                 | 0                | N/A                  |                                   |                    | N/A       | N/A         |     |
| GAMMA SECTOR                 | C1         | 800/1900 MHz  | APXVFR12X-C      | 39'-0"  | 155°          | 0         | 800 MHz   | RRH-C2A      | 1              | 1              | 2                    | 35'         | 1                 | 1                | 9.8'                 | 1                                 | 21'                | N/A       | N/A         | N/A |
|                              |            |               |                  |         |               | 0         | 1900 MHz  | RRH-P4       | 1              | 0              | 4                    | 35'         | 1                 | 0                | N/A                  |                                   |                    | N/A       | N/A         |     |
| N/A                          |            | GPS           | GPS-TMG-HR-26NCM | N/A     | N/A           | N/A       | N/A       | N/A          | N/A            | N/A            | N/A                  | N/A         | N/A               | N/A              | N/A                  | N/A                               | 1                  | 1/4"      | 15'         |     |



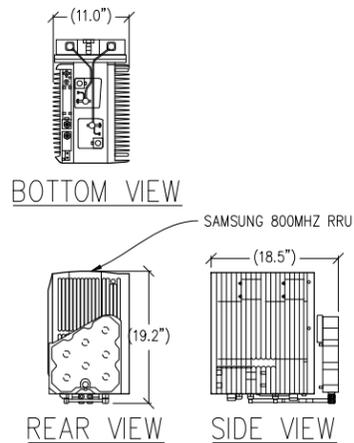
1 ANTENNA DETAIL  
1/2"=1'-0" MAX WEIGHT: 51 LBS



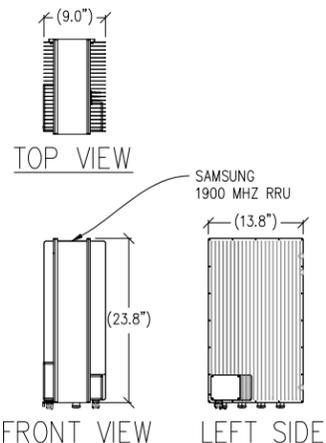
EXISTING ANTENNA PLAN  
1/2"=1'-0"



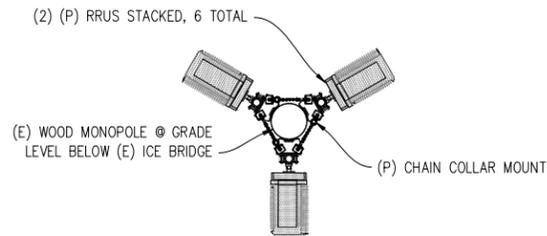
INTERIM/FINAL CONFIGURATION ANTENNA PLAN  
1/2"=1'-0"



2 800MHZ RRU UNIT  
1"=1'-0" MAX WEIGHT: 75 LBS



3 1900MHZ RRU UNIT  
1"=1'-0" MAX WEIGHT: 75 LBS



INTERIM/FINAL CONFIGURATION RRU PLAN  
1/2"=1'-0"

NOTICE  
EXISTING WOOD MONOPOLE TO BE ANALYZED BY OTHERS. STREAMLINE ENGINEERING & DESIGN INC. IS NOT RESPONSIBLE FOR THE EVALUATION OF THE EXISTING POLE OR FOUNDATION FOR THE EXISTING AND NEW LOADING CONDITIONS.

UBIQUITEL - TRINIDAD HEAD  
SF03UB366-A  
2478 TRINIDAD HEAD TRINIDAD, CA 95570

ISSUE STATUS

| DATE     | DESCRIPTION | M.D. |
|----------|-------------|------|
| 04/11/13 | ZD 90%      | J.K. |
| 09/18/13 | ZD 100%     | J.K. |
| -        | -           | -    |
| -        | -           | -    |
| -        | -           | -    |
| -        | -           | -    |

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DATE: 09/18/13

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SHEET TITLE:  
ANTENNA PLANS & DETAILS  
SHEET NUMBER:  
A-5

