

OTAY WATER DISTRICT
FINANCE, ADMINISTRATION AND COMMUNICATIONS
COMMITTEE MEETING
and
SPECIAL MEETING OF THE BOARD OF DIRECTORS

2554 SWEETWATER SPRINGS BOULEVARD
SPRING VALLEY, CALIFORNIA
BOARDROOM

MONDAY
June 24, 2013
12:00 P.M.

This is a District Committee meeting. This meeting is being posted as a special meeting in order to comply with the Brown Act (Government Code Section §54954.2) in the event that a quorum of the Board is present. Items will be deliberated, however, no formal board actions will be taken at this meeting. The committee makes recommendations to the full board for its consideration and formal action.

AGENDA

1. ROLL CALL
2. PUBLIC PARTICIPATION – OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO SPEAK TO THE BOARD ON ANY SUBJECT MATTER WITHIN THE BOARD'S JURISDICTION BUT NOT AN ITEM ON TODAY'S AGENDA

DISCUSSION ITEMS

3. APPROVE LEASE AMENDMENTS WITH SPRINT PCS ASSETS, LLC, A DELAWARE LIMITED LIABILITY COMPANY (SPRINT PCS) FOR MODIFICATIONS TO SIX (6) EXISTING COMMUNICATIONS FACILITIES LOCATED THROUGHOUT THE DISTRICT (MARTIN) [5 minutes]
4. ADOPT RESOLUTION NO. 4211 TO CONTINUE WATER AND SEWER AVAILABILITY CHARGES FOR DISTRICT CUSTOMERS FOR FISCAL YEAR 2013-2014 TO BE COLLECTED THROUGH PROPERTY TAX BILLS (MENDEZ-SCHOMER) [5 minutes]
5. ADOPT RESOLUTION NO. 4212 TO ESTABLISH THE TAX RATE FOR IMPROVEMENT DISTRICT NO. 27 AT \$0.005 FOR FISCAL YEAR 2013-2014 (ZIOMEK) [5 minutes]

6. RECEIVE THE DISTRICT'S INVESTMENT POLICY (POLICY NO. 27) FOR REVIEW, AND ADOPT RESOLUTION NO. 4213 AMENDING THE POLICY AND RE-DELEGATING AUTHORITY FOR ALL INVESTMENT RELATED ACTIVITIES TO THE CHIEF FINANCIAL OFFICER IN ACCORDANCE WITH GOVERNMENT CODE SECTION 53607 (KOEPPEN) [5 minutes]
7. ADOPT RESOLUTION NO. 4215 FOR THE ELECTION OF FOUR (4) CANDIDATES FOR THE SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY'S (SDRMA) BOARD OF DIRECTORS (SARNO) [5 minutes]
8. CONSIDER CASTING A VOTE TO ELECT A MEMBER TO THE CALIFORNIA SPECIAL DISTRICTS ASSOCIATION'S BOARD OF DIRECTORS (WATTON) [5 minutes]
9. APPROVE INFORMATION TECHNOLOGY CONTRACTS FOR PHONE SERVICES, MANAGED SERVICES FOR THE DATA CENTER AND GPS TRACKING (STEVENS) [5 minutes]
10. ADJOURNMENT

BOARD MEMBERS ATTENDING:

Mitch Thompson, Chair

Jose Lopez

All items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.

The Agenda, and any attachments containing written information, are available at the District's website at www.otaywater.gov. Written changes to any items to be considered at the open meeting, or to any attachments, will be posted on the District's website. Copies of the Agenda and all attachments are also available through the District Secretary by contacting her at (619) 670-2280.

If you have any disability which would require accommodation in order to enable you to participate in this meeting, please call the District Secretary at 670-2280 at least 24 hours prior to the meeting.

Certification of Posting

I certify that on June 21, 2013 I posted a copy of the foregoing agenda near the regular meeting place of the Board of Directors of Olay Water District, said time being at least 24 hours in advance of the meeting of the Board of Directors (Government Code Section §54954.2).

Executed at Spring Valley, California on June 21, 2013.

/s/ Susan Cruz, District Secretary



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	July 3, 2013
SUBMITTED BY:	Dan Martin Engineering Manager	PROJECT:	AS001- DIV. NOS. 2, 3, 5 CS0005
APPROVED BY:	<input checked="" type="checkbox"/> Rod Posada, Chief, Engineering <input checked="" type="checkbox"/> German Alvarez, Assistant General Manager <input checked="" type="checkbox"/> Mark Watton, General Manager		
SUBJECT:	Request to Approve Lease Amendments with Sprint PCS Assets, LLC, a Delaware Limited Liability Company, for Modifications to Six (6) Existing Communications Facilities Located Throughout the District		

GENERAL MANAGER'S RECOMMENDATION:

That the Otay Water District (District) Board of Directors (Board) authorize the General Manager to execute lease amendments with Sprint PCS Assets, LLC, a Delaware Limited Liability Company (Sprint PCS) for modifications to six (6) existing communications facilities located throughout the District (see Exhibit A for Property locations).

COMMITTEE ACTION:

See Attachment A.

PURPOSE:

To obtain Board approval authorizing the General Manager to execute lease amendments (see Attachment B) with Sprint PCS that allows modifications to six (6) existing communications facilities located throughout the District. The lease amendments will grant Sprint PCS the right to upgrade their existing site to Long Term Evolution (LTE) technology.

ANALYSIS:

The District currently maintains six (6) lease agreements with Sprint PCS that allow Sprint PCS to operate and maintain unmanned wireless communication facilities that include panel antennas that are attached to the District's water reservoirs and enclosures that contain Sprint PCS' equipment cabinets. The Sprint sites that are included in the existing lease agreements are at the following locations, as reflected in Exhibit A:

1. Point Barrow Drive (458-1 & 2 Reservoirs)
2. Weighorst Way (850-3 Reservoir)
3. Bear Mountain Way (1296-1, 2 & 3 Reservoirs)
4. Pence Drive (803-3 Reservoir)
5. Campo Road (832-1 & 2 Reservoirs)
6. Sweetwater Springs Boulevard (Otay Water District Headquarters)

Sprint PCS approached the District with a request to perform modifications to the existing wireless communication facilities to upgrade the facilities to LTE technology. Sprint PCS' scope work will include switching out existing four (4) foot antennas with larger six (6) foot antennas as well as the addition of Radio Repeater Units (RRUs) for each new antenna. The new antennas and RRUs work together as part of Sprint PCS' LTE upgrade to increase data capacity. Each facility has an existing SDG&E electrical service/meter and connection to a landline telephone service. As a result of the request from Sprint PCS, the District has required that the existing leases be amended to memorialize the addition of new improvements on the District's property and to strengthen the terms of the existing leases with language that reflects the current District lease terms.

The additional language in the proposed lease amendments include terms for the following:

- Security Deposit equal to the sum of two months' rent
- Elimination of pro-rating language to simplify the billing process
- 20 percent penalties for late payment
- Non-curable Event of Default for failure to pay rent
- Magnetic mount or other non-destructive alternative attachment requirement
- Utilities and back-up power provisions
- New Assignment of Lease requirement to assist in documenting change of ownership

As part of the lease amendments the Rent shall be increased on each calendar anniversary of the Commencement Date at a rate of four percent (4%) per annum or the annual Consumer Price Index change ("CPI"), whichever is greater.

The lease amendments also include a non-refundable administrative fee of \$4,500 for each amendment that will be due within (30) days of the date of execution of the lease amendment by both parties to reimburse the District for administrative expenses and costs related to the District's supervision and assistance with the construction phases of the Project.

The District will receive copies of construction drawings, all permits, and approvals by local regulatory agencies prior to granting permission to start construction. Staff agrees with the design concept for the proposed facility construction.

FISCAL IMPACT: Joseph Beachem, Chief Financial Officer

The District will continue to receive rent which will now be subject to an annual inflation adjustment of four percent or the annual Consumer Price Index change ("CPI"), whichever is greater, effective upon the execution of the lease amendments.

LEGAL IMPACT:

The lease amendments have been reviewed and approved by District General Counsel for content and form.

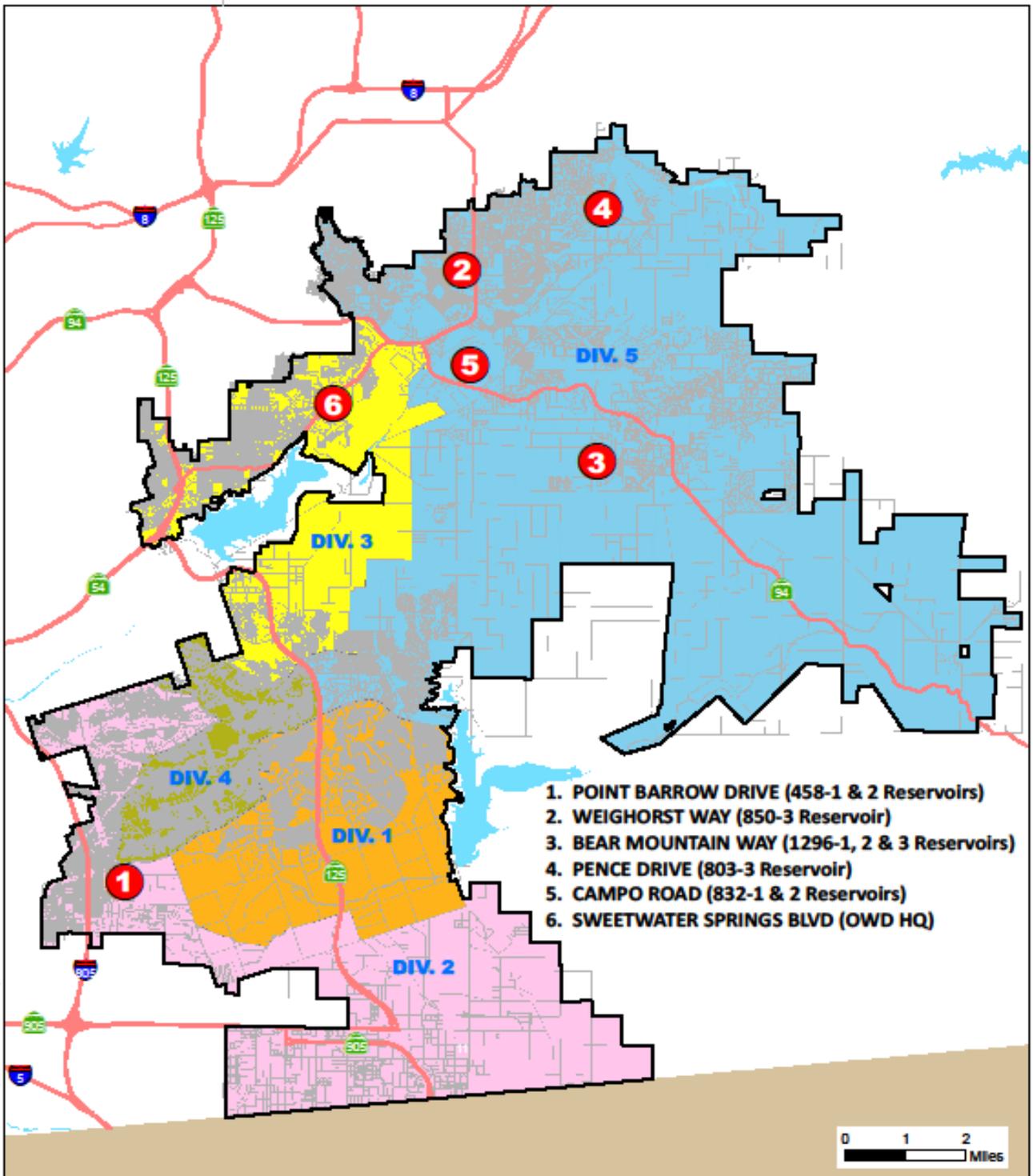
STRATEGIC GOAL:

The District ensures its continued financial health through long-term financial planning, formalized financial policies, enhanced budget controls, fair pricing, debt planning, and improved financial reporting.

DJM/RP:jf

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- Attachments:
- Exhibit A - Location Map
 - Attachment A - Committee Action
 - Attachment B-1 - Point Barrow Drive Agreement
 - Attachment B-2 - Weighorst Way Agreement
 - Attachment B-3 - Bear Mountain Way Agreement
 - Attachment B-4 - Pence Drive Agreement
 - Attachment B-5 - Campo Road Agreement
 - Attachment B-6 - Sweetwater Springs Boulevard Agreement



- 1. POINT BARROW DRIVE (458-1 & 2 Reservoirs)
- 2. WEIGHORST WAY (850-3 Reservoir)
- 3. BEAR MOUNTAIN WAY (1296-1, 2 & 3 Reservoirs)
- 4. PENCE DRIVE (803-3 Reservoir)
- 5. CAMPO ROAD (832-1 & 2 Reservoirs)
- 6. SWEETWATER SPRINGS BLVD (OWD HQ)

P:\WORKING\CELLULAR LEASE FILES\SPRINT PCS Locations April 2013.mxd



OTAY WATER DISTRICT

SPRINT PCS ASSETS, LLC SITE LOCATION MAP

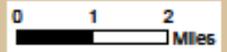


EXHIBIT A



ATTACHMENT A

SUBJECT/PROJECT: AS002-CS0005 AS002-CS0006 AS002-CS0010 AS002-CS0013 AS004-CS0001 AS005-CS0012	Request to Approve Lease Amendments with Sprint PCS Assets, LLC, a Delaware Limited Liability Company, for Modifications to Six (6) Existing Communications Facilities Located Throughout the District
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COMMITTEE ACTION:

The Finance, Administration, and Communications Committee (Committee) reviewed this item at a meeting held on June 24, 2013. The Committee supported Staff's recommendation.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for Board approval. This report will be sent to the Board as a Committee approved item, or modified to reflect any discussion or changes as directed from the Committee prior to presentation to the full Board.



ATTACHMENTS B-1 – B-6

SUBJECT/PROJECT: AS002-CS0005 AS002-CS0006 AS002-CS0010 AS002-CS0013 AS004-CS0001 AS005-CS0012	Request to Approve Lease Amendments with Sprint PCS Assets, LLC, a Delaware Limited Liability Company, for Modifications to Six (6) Existing Communications Facilities Located throughout the District
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See attached lease agreements.

FIRST AMENDMENT TO LEASE

This First Amendment to Lease (the "First Amendment") is made this day of ____, 2013, ("Effective Date") by and between Otay Water District ("OTAY") and Sprint PCS Assets, L.L.C., a Delaware limited liability company, f/k/a Cox PCS Assets, L.L.C., a Delaware limited liability company ("TENANT"), with reference to the facts set forth in the Recitals below:

RECITALS

- A. OTAY is the owner of that certain real property and facilities known as the "I.D. 10", 458-1-10 and 458-2-10, a Reservoir Site (the "Property").
- B. OTAY and TENANT are parties to that certain Lease dated July 19, 2001 (the "Lease" or "Agreement") pursuant to which TENANT is leasing from OTAY land at the Property, together with the right of access to and from the nearest public right-of-way and the right to install utilities (collectively, the "Premises").
- C. Tenant has requested a modification to the type and mounting of the Improvements currently on the Premises (the "New Improvements").
- D. OTAY and TENANT have agreed to amend the Agreement to memorialize the addition of the New Improvements to the Premises.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. **New Improvements.** OTAY consents to TENANT construction and installation of new communications facilities, as more particularly described and depicted on Exhibit "B-1" which is attached hereto and made a part hereof. The parties acknowledge and agree that the attached Exhibit "B-1" is intended to supplement the Exhibit "B" attached to the Agreement.
2. **Governmental Approvals.** Any required permits for the use or operation of the New Improvements shall be obtained by TENANT at TENANT's sole expense. Furthermore, it is understood and agreed that TENANT's ability to install the New Improvements is contingent upon its obtaining all of the certificates, permits and other approvals that may be required by any Federal, State or Local authorities which will permit TENANT to install and operate the New Improvements within the Premises. OTAY agrees, at no expense to OTAY, to reasonably cooperate with TENANT in making application for and obtaining all governmental licenses, permits and approvals that may be required for TENANT'S intended use of the Premises.
3. **Amended Provisions.** The following provisions shall be amended as follows:
 - 3a. Section 6; Rent shall be replaced with the following:

6.1 Tenant agrees to pay all costs and expenses incurred by Otay in connection with the Facilities and this Agreement, including negotiation and processing hereof, plan checking and inspection of Tenant facilities, costs of inspection, repairs or replacement of any Otay facilities affected or damaged, and all other costs or expenses of Otay attributable to the matters herein contemplated, plus a reasonable amount for Otay's overhead costs in connection therewith.

a. **Deposit.** Tenant has made a deposit, concurrent with its application, and has agreed to make any additional deposits required in connection with Otay's review of the application, negotiation of this Agreement, including legal review, site visits, review of drawings and other costs relating such matters incurred by Otay up to the time this Agreement is executed. Tenant forfeits any claim to such deposits except to the extent Otay determines after this Agreement is executed that amounts in excess of the District's costs and expenses have been paid. Any such excess amounts may, at the sole discretion of the District, be credited toward administrative fees or any other costs then due by Tenant, if any. If no amounts are due, excess deposits will be reimbursed to Tenant.

b. **Administrative Fees.** Administrative fees may be charged at Otay's discretion during the Term to recover costs and expenses incurred by Otay, including but not limited to attorneys and consultant's fees, review, processing of Tenant's conditional use permits, inspection of the Facilities during construction and other related costs if any, in connection with any Tenant activity that requires Otay staff to spend time in supervision, inspection, investigation or other review; such costs include but are not limited to any amendments to this Agreement, any default or any failure of Tenant to secure or renew any permit, approval, license or easement and any investigation Otay deems reasonably required in connection with the Premises or the Facilities, including without limitation any investigation of a potential contamination of any portion of the Property due to any Tenant activity or improvement.

c. **Security Deposit.** Concurrently upon execution of this Agreement, Tenant shall pay to Otay a sum equal to two months' rent as a deposit ("Security Deposit") to secure the Tenant's performance of the covenants contained herein. Tenant shall maintain the Security Deposit balance equal to the amount established herein over the life of the agreement. If Otay applies any portion of the Security Deposit, Tenant shall within 30 days after demand by Otay, deposit an amount sufficient to restore the Security Deposit to its original amount. No part of the Security Deposit is to be considered as an advance payment of rent, including last months' rent, nor is it to be used or refunded prior to the leased premises being permanently and totally vacated by the Tenant. After the Tenant has vacated the premises, Otay shall furnish Tenant with an itemized written statement of the basis for, and the amount of, any of the security deposit retained by Otay. Otay may withhold that portion of Tenant's security deposit necessary (a) to remedy any default by Tenant in the payment of rent or any other provision

of this Agreement, (b) to repair damages to the premises or any expense, loss, or damage that Otay may suffer because of Tenant's default, (c) to restore the premises to meet Otay's standards, (d) any amount that Otay may incur or become obligated to spend in exercising Otay's rights under this Agreement or available at law. The unused portion of this deposit shall be returned to the Tenant without interest no later than 60 days after termination of this Agreement.

Tenant waives the provisions of California Civil Code §1950.7, and all other provisions of law now in force or that become in force after the date of execution of this Agreement, that provide that Otay may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of accrued Rent, to repair damage caused by Tenant, or to clean the Premises. Otay and Tenant agree that Otay may, in addition, claim those sums reasonably necessary to compensate Otay for any other foreseeable or unforeseeable loss or damage caused by the act or omission of Tenant or Tenant's officers, agents, employees, Independent contractors, or invitees, including future rent payments.

d. None of the deposits or other payment of costs or administrative fees constitutes or shall be considered Rent (defined below).

6.2 Beginning on the Commencement Date, Tenant shall pay Otay as rent the sum of \$2,000.00 per month ("Rent") payable on the first day of each month in advance. If the Commencement Date is prior to the fifteenth day of the month of commencement, the full month's Rent will be due on the Commencement Date. If the Commencement Date is on or after the fifteenth day of the month of commencement, payment of Rent will begin the first day of the following month.

Tenant may make Rent payments up to 5 days past due date without penalty, unless continual late payments for two consecutive months occur. A fee shall be imposed after the 5th day and shall be 20% of the amount currently due. Failure to pay Rent within ten (10) calendar days of the first of the month shall be an Event of Default as provided by Section 13.2. Failure to pay Rent on the due date for more than two (2) consecutive months or four (4) times over any twelve (12) month period shall be a non-curable Event of Default without the necessity of any notice or cure period. At District's sole discretion, immediately following such a non-curable Event of Default, District may terminate the Agreement and seek any remedy available by this Agreement or at law. If Tenant tenders a check, which is dishonored by a banking institution, then the Tenant shall tender cash or cashier's check only for all future payments, which shall continue until such time as written consent is obtained from Otay. In addition, Tenant shall be liable in the sum of \$25 for each dishonored check that is returned to Otay.

a. Rent Increases. The Rent shall be increased on each calendar anniversary of the Commencement Date at a rate of four percent (4%) per annum or the annual Consumer Price Index change ("CPI"), whichever is greater. CPI shall be the average percentage increases in the consumer price index published by the United States Department of Labor, Bureau of Labor Statistics (1982-1984 = 100)

(the "CPI") for "All Items – All Urban Consumers" for the San Diego Metropolitan Statistical Area.

3b. Section 8; Improvements, and Section 9; Installation of Equipment shall be replaced with the following:

8. Installation and Maintenance of Improvements. Tenant is authorized to install, maintain and operate on the Premises only the Facilities described and depicted on Exhibit B; provided that all permits and zoning approvals shall have first been obtained by Tenant and shall at all times while the Facilities operate remain in full force and effect.

a. Installation of the Improvements. Tenant's design and installation of all portions of the Facilities shall be done, at no cost to Otay, according to plans approved by Otay, provided that such approval shall not be unreasonably withheld. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay of the method of attachment at Otay's sole discretion. If such Facilities are to be attached or mounted to a water tank, Tenant shall use an installation method such as a magnetic mount or other, non-destructive alternative. The Tenant shall be responsible for painting its antennas and/or equipment to match Otay's facility. Otay will provide Tenant with specifications regarding paint type, color and application method to accomplish this requirement. Painting/coating submittals shall be provided to Otay by the Tenant prior to receiving permission to begin painting. Otay may specify a camouflage design if not inconsistent with requirements of the city or county within which the Facilities are located. These camouflage designs may include but are not limited to faux palm trees, pine trees, cypress trees, broadleaf trees, and flag poles, unipoles, and other camouflaged antenna and antenna supports.

b. Record Drawings. Within thirty (30) days after completion of the Facilities, Tenant shall provide Otay with "record" (also called "as-built") drawings of the Facilities showing and identifying all the equipment and improvements installed on the Premises. Said drawings shall be accompanied by a complete and detailed inventory of all equipment, including without limitation all personal property and antennas located on the Premises and any such property of Tenant located in the Easement. No property of Tenant other than such identified property shall be located on the Premises or the Property at any time. Upon acceptance by Otay of Tenant's record drawings, in form and content satisfactory to Otay, such drawings shall replace and supersede any similar drawings contained in any exhibit attached hereto.

c. Alterations. Tenant shall not alter or change its Improvements in a material manner without the prior approval of Otay, such approval not to be unreasonably withheld. "Material" refers to any physical change that could affect the building structure, antenna support, interconnecting facilities or its appearance

or any change that requires access to the Premises for installation of new equipment, removal of old equipment, trenching or digging or that could disrupt Otay's workplace or communications in any way or any change that requires a renewed or amended easement, permit or approval. All of Tenant's construction and installation work shall be performed at Tenant's sole cost and expense in a good and workmanlike manner and fully compliant with all government permit and code requirements. Tenant shall have the right to remove all Improvements it installs at its sole expense on or before the expiration or termination of this Agreement, but must at such time restore the ground and surface underlying the removed Improvements to its pre-installation condition, wear and tear excepted, and to the reasonable satisfaction of Otay.

d. Alterations to Improvements / Additional Space. If, at any time during the Term, Tenant requests permission from Otay to add improvements requiring construction to its then existing Improvements, the then current Administrative Fees shall be paid to Otay before any such changes are negotiated. In addition, if the requested Tenant improvements include additional area, a new agreement or, at Otay's discretion, an amendment for the additional lease space must be executed prior to start of construction and Tenant shall comply with Otay's requirements then in effect, including payment of additional rent, if any, for the additional area.

e. Permits and Compliance with Applicable Laws. During the Term, and prior to commencing any construction or installation of any improvements or equipment, as applicable, Tenant shall obtain all necessary approvals, permits and access easements or licenses, all of which shall be maintained in full force and effect at all times in accordance with all applicable laws, rules and regulations.

i. Prior to commencing construction, Tenant shall deliver to Otay copies of all executed licenses, approvals and permits required by local, state or federal agency in connection with the Improvements, which permits shall be attached hereto as Exhibit B.

ii. From time to time, as required by law or regulation in connection with the normal operation of the Improvements or as needed due to improvements or alterations to the same, Tenant shall provide Otay with updated permits, licenses and/or approvals, including without limitation written evidence, satisfactory to Otay, of all FCC approvals and other governmental permits and approvals, including but not limited to compliance with the FCC's electromagnetic radiation rules, set forth at 47 C.F.R. § 1.1307 et seq. and FCC Office of Engineering and Technology Bulletin 65, each as hereafter amended.

iii. Otay agrees, at no expense to Otay, to reasonably cooperate with Tenant in making application for and obtaining all governmental licenses,

permits and approvals that may be required for Tenant's intended use of the Premises.

f. Utilities. Tenant shall be authorized to install utilities for the Premises and the Improvements at Tenant's expense and to improve the present utilities on or near the Premises (including, but not limited to the installation of an emergency back-up power) subject to Otay's approval of the location, route, design and capacity, which approval shall not be unreasonably withheld. Tenant shall fully and promptly pay for all utilities furnished to the Premises for the use, operation and maintenance of Tenant's Improvements. If inadequate electrical power is available to provide for the Improvements, or additional electrical power is required to be installed on the Premises by Otay in its sole discretion, such installation shall be at Tenant's sole expense. The location, route, design and capacity of the additional power facility shall be approved by Otay, which shall not be unreasonably withheld.

g. Repair of Otay's Improvements/Systems. Any damage done to the Property or to any Otay improvement, facility or system in connection with the construction, installation, maintenance, repair, improvement, replacement or operation of the Improvements shall be repaired or replaced immediately at Tenant's expense and to Otay's reasonable satisfaction by Otay staff or contractors approved by Otay. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay. Tenant shall pay all costs and expenses in relation to maintaining the integrity of Otay's facilities, improvements and systems affected in any way by Tenant's Improvements or its use of the Property or the Premises.

h. Maintenance and Repair. At all time during the Term, Tenant shall maintain the Premises and the Improvements in a manner acceptable to Otay. Tenant's use of its Improvements shall not at any time or in any way adversely impact, impede or interfere with Otay's access to, use or operation of, its improvements, equipment or systems.

i. Liens. Tenant shall not encumber or allow the Premises or the Property to be encumbered in any manner other than as expressly authorized herein.

j. Security. Tenant recognizes and agrees that the Premises and the Reservoir Site are a sensitive area and that Otay's operations and services are highly sensitive and regulated. Tenant shall provide for the proper supervision of all Tenant Parties assigned or allowed by Tenant to enter and do work at the Premises. Tenant also agrees, holding Otay harmless for any cost or expense, to comply with any and all security measures instituted by Otay from time to time.

9. Maintenance, Repair or Replacement of Otay's Improvements. At any time while this Agreement remains in effect, Otay may, at its option and upon One Hundred Eighty (180) days prior written notice to Tenant, remove or cause

Tenant to remove all or any portion of its Facilities at Tenant's expense, in order for Otay to paint, repair, or make replacements to any or all its improvements on the Premises (the "Maintenance or Replacement Work"), as deemed necessary by Otay in its sole discretion. Tenant agrees to fully cooperate with Otay's efforts in connection with any Maintenance or Replacement Work, including without limitation timely, and at Tenant's cost, removing and re-installing any portion of the Facilities, as requested by Otay.

a. Temporary Facilities. During the Maintenance or Replacement Work, Tenant may, holding Otay harmless from any cost or expense, install temporary antennas on the Premises subject to Otay's approval of the location and type of replacement facilities, such approval shall not be unreasonably withheld or delayed. Once the Maintenance or Replacement Work is completed by Otay, Tenant agrees to promptly dismantle any temporary facilities and to relocate the facilities to their original location or to any other location approved by Otay. All work related to the removal of any portion of the Facilities, installation of temporary facilities, dismantling, relocation to their original location and any related work, shall be done at Tenant's sole cost and expense and in good and workmanlike manner.

b. Repair of damage. Tenant shall repair any damage caused by Tenant in connection with the installation, maintenance, operation or removal of any temporary facilities or the Facilities, and Tenant shall restore any distributed portions of the Property to their condition immediately prior to the installation of the temporary facilities.

c. Otay's option to remove temporary facilities. If any temporary facilities are not removed within sixty (60) days from the date the Maintenance or Replacement Work is completed, Otay shall have the right, but not the duty, to remove the temporary facilities at Tenant's cost and expense.

d. Painting of the Facilities. If the Maintenance or Replacement Work includes the painting, or any work affecting the surface of Otay's improvements, the Tenant shall be responsible for repainting or performing other surface treatment of its antennas and equipment to match Otay's. Otay will provide specifications to the Tenant regarding the treatment, paint type, color and application method to accomplish this requirement. The Tenant shall be required to obtain approval of specifications from Otay prior to commencing work on this requirement. Subject to Otay's prior written consent, Tenant may substitute an alternate treatment, paint type and application method if it reasonably determines that Otay's selection will adversely affect or otherwise degrade Tenant's wireless signal from the Reservoir Site.

3c. Section 11; Co-Location shall be replaced with the following:

11.1. Co-Location by Otay. Tenant agrees that Otay may enter into leases or other types of agreements with other communication carriers, wireless communications carriers and other utilities for use of any portion of the "Reservoir Site" as long as said leases do not result in unreasonable interference with Tenant's use of or access to the Premises. Tenant shall reasonably cooperate with Otay's efforts in this regard including, at Otay's request, the relocation of, or changes to, the Facilities; provided that any alterations or relocation needed to accommodate the new carrier or utility shall be performed at the expense of Otay or the new carrier or utility.

11.2. Co-Location by Tenant - Subleasing/Encumbrance. Tenant shall not sub-lease or sub-license or otherwise encumber the Premises or any portion of the Facilities without Otay's prior written consent, which may be granted or denied at Otay's sole discretion. Any sub-lease or other encumbrance shall require an amendment to this Agreement and shall specify the terms and conditions, including making provision for rent and increases thereto for the sub-lease or other encumbrance.

3d. Section 15; Termination shall be replaced with the following:

15. Termination.

(a) This Agreement may be terminated by Tenant without further liability if:

(i) Tenant delivers to Otay 30-day written notice at any time prior to commencing any work at the Premises in connection with the installation of any Facilities, for any reason or no reason;

(ii) Tenant gives Otay sixty (60) days' notice of Tenant's determination that a governmental or non-governmental license, permit, consent, approval, easement or waiver necessary to enable Tenant to construct, install or operate the Facilities cannot be obtained or renewed at reasonable expense or in reasonable time period for wireless sites at water reservoirs in metropolitan areas within San Diego County. If this notice is given, Tenant must immediately cease any and all transmissions through and from the Premises and shall promptly remove, within a period of time not to exceed sixty (60) days, any and all Tenant's personal property and improvements from the Property. This Agreement and any related easements shall automatically expire upon the earlier of removal of the Tenant's improvements or the 60th day from the notice; excepting only Tenant's indemnities and liabilities hereunder, including the obligation to pay Rent for any holdover period. Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated.

(iii) Tenant determines at any time after the Commencement Date that the Premises are not appropriate or suitable for its operations for economic, environmental or technological reasons, including without limitation, any ruling or directive of the FCC or other governmental or regulatory agency, or problems with signal strength or interference not encompassed by subsection (iv) below; provided that the right to terminate under this subsection (iii) is exercisable only upon payment by Tenant, as a termination fee, of the lesser of twelve monthly installments of rent or the balance of the rent due for the then current Initial Term, Extension Term or Additional Term, as applicable; and Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated;

(iv) Otay commits a default under this Agreement and fails to cure pursuant to Section 13.2, below;

(v) The Property or the Premises are totally or partially destroyed by fire or other casualty (not caused by Tenant) so as to hinder Tenant's normal operations and Otay does not provide to Tenant within thirty (30) days after the casualty occurs a suitable temporary relocation site for Tenant's facility pending repair and restoration of the Premises; or

(vi) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

(b) This Agreement may be terminated by Otay without further liability if:

(i) Tenant commits a default under this Agreement and fails to cure such default pursuant to Section 13.2, below;

(ii) Otay determines that continuing the Agreement or continuing to allow the Tenant to construct, install, maintain or operate the Facilities in any way violates a law, rule or regulation; or

(iii) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

3e. Section 16; Default shall be replaced with the following:

16. Default.

a. Event of Default. The parties covenant and agree that a default or breach of this Agreement (an "Event of Default") shall occur and be deemed to exist if, after notice and opportunity to cure as provided below:

(i) Tenant shall default in the payment of Rent, or any other amounts due Otay hereunder, and said default shall continue for ten (10) business days after the same becomes due; or

(ii) Either party shall default in the performance or observance of any other covenant or condition of this Agreement to be performed or observed if such failure persists for a period of thirty (30) days after the non-defaulting party provides written notice of the default to the defaulting party.

b. Rights upon Default. Upon the occurrence of an Event of Default, in addition to any other rights or remedies available to the non-defaulting party under any law, the non-defaulting party shall have the right to terminate the Agreement.

c. Cure Rights. An Event of Default shall not exist unless written notice has been given in accordance with this Agreement, and the defaulting party has had the opportunity to cure as provided herein. The defaulting party shall cure the alleged default within the manner provided herein; provided however, that if the nature of an alleged default is such that it cannot reasonably be cured within such thirty (30) day period, the defaulting party shall not be in breach of this Agreement if it diligently commences a cure within such period, and thereafter diligently proceeds with the actions necessary to complete such cure.

3f. Section 20; Indemnity, shall be replaced with the following:

Tenant specifically agrees that it shall hold harmless, defend (with counsel, and if needed experts, reasonably acceptable to Otay), indemnify and otherwise protect Otay and each Otay Party, from and against all claims, suits or actions of any kind and description relating to (a) Tenant's obligations under this Agreement and any amendment hereto or (b) Tenant or Tenant Parties use of, and access to, the Premises, the Facilities or the Property. These obligations extend to and include without limitation any and all costs and expenses (including attorney's fees and court costs) incurred by Otay or the Otay Parties in connection with (i) damage to property (including the Premises, the Property or any personal property of Otay or any third party), (ii) any action or proceeding (including an enforcement action or criminal proceeding) related in any way to any permit (governmental or otherwise), approval or easement obtained by or required of Tenant in connection with this Agreement or the Facilities; and (iii) personal injury or death, except to

the extent that such claims, suits or actions directly arise from the gross negligence or willful misconduct of Otay or an Otay Party. This indemnification clause in no way limits any other specific indemnities given by Tenant under other provisions of this Agreement.

Nothing contained herein shall prohibit Otay, in its sole discretion, from participating in the defense of any demand, claim, action, proceeding, or litigation. In no event shall Otay's participation in the defense of any demand claim, action, proceeding, or litigation affect the obligations imposed upon Tenant herein.

This and all other Tenant indemnities shall survive the termination of this Agreement and shall remain in effect for as long as the underlying claim or action remains viable.

3g. Section 19; Assignment and Subletting, shall be replaced with the following:

Tenant shall not assign this Agreement or any portion of its rights or obligations hereunder without Otay's prior written consent, except to an affiliated parent entity, subsidiary, purchaser of at least 50% of the aggregate of the assets of Tenant ("assets" means and includes without limitation any and all real, personal or financial property or thing owned or controlled by Tenant or over which Tenant has an interest) or holder of Tenant's FCC license.

a. If during the Term hereof, Tenant requests the written consent of Otay to any assignment, and upon demonstration satisfactory to Otay of the proposed assignee's legal, financial, and technical qualifications to assume all of the Tenant's duties and obligations herein, Otay's consent thereto shall not unreasonably be withheld. Consent to one assignment shall not be deemed consent to any subsequent assignment.

b. Any attempted assignment not permitted under the first paragraph of this Section 19, without Otay's prior consent as set forth in Section 19(a), shall be void and, at Otay's option, shall constitute a termination of this Agreement for which a termination fee as described in Section 13.1.a(iii) shall be immediately due.

c. Any assignment of this Agreement shall require an executed "Assignment of Lease" whether or not the Consent of Otay is required pursuant to this section 19 or any other provision of this Agreement. A sample form of the "Assignment of Lease" is attached to this Agreement as Exhibit F which may be amended or modified in Otay's sole discretion.

4. **Continued Effect.** Except as specifically modified by this First Amendment, all of the terms and conditions of the Agreement shall remain in full force and effect. In the event of a conflict between any term or provision of the Agreement and this First Amendment, the terms and provisions of this First Amendment shall control. In addition, except as otherwise stated in this First Amendment, all initially capitalized terms will have the same respective defined meaning stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this First Amendment.

5. **Administrative Fees.** TENANT shall pay OTAY the amount of \$4,500 within (30) days of the date of execution of this Amendment by OTAY and TENANT.

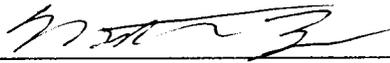
6. **Current Rent.** The current monthly Rent amount at the Effective Date of this First Amendment is \$2,711.73.

IN WITNESS WHEREOF, OTAY and TENANT have caused this First Amendment to be executed by each party's duly authorized representative effective as of the date first above written.

OTAY WATER DISTRICT:

Sprint PCS Assets, L.L.C.,
a Delaware limited liability company, :

By: _____
Name: Mark Watton
Title: General Manager
Date: _____

By: 
Name: Matthew Bell
Title: Manager Real Estate
Date: 5/29/2013

Approved as to Form:

Approved as to Form:

By: _____
OWD General Counsel

By: _____
Its: _____

Exhibit B-1

NEW IMPROVEMENTS

NETWORK VISION MMBTS LAUNCH MALIBU POINT

SD54XC931

WATER TANK

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

LATITUDE: 32° 36' 20.735" N (32.60576000)
LONGITUDE: 117° 1' 33.384" W (-117.02594000)

SAN DIEGO METRO MARKET

CALIFORNIA STATE 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. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 MECHANICAL CALIFORNIA CODE
- ANSI/ISA-222-F LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE

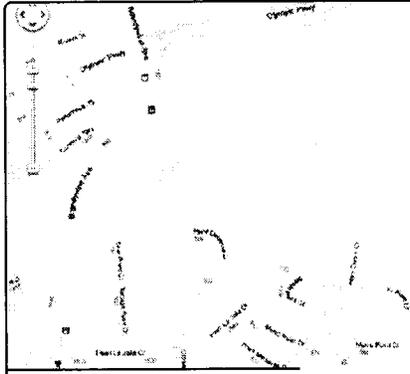
ACCESSIBILITY REQUIREMENTS:

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

CODE BLOCK

APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		
SITE ACQUISITION		
PLANNING CONSULTANT		
PROPERTY OWNER		
SPRINT REPRESENTATIVE		

SIGNATURE BLOCK



VICINITY MAP

FROM SAN DIEGO INTERNATIONAL AIRPORT:

HEAD WEST ON AIRPORT TERMINAL RD	420 FT
SLIGHT LEFT TO STAY ON AIRPORT TERMINAL RD	0.3 MI
KEEP RIGHT AT THE FORK	443 FT
TURN LEFT ONTO N HARBOR DR	1.4 MI
TURN LEFT ONTO W GRAPPE ST	0.4 MI
TAKE THE INTERSTATE 5 S SLIP ROAD	0.2 MI
MERGE ONTO I-5 S	1.0 MI
TAKE EXIT 15B TO MERGE ONTO CA-94 E	3.0 MI
TAKE EXIT 3 TO MERGE ONTO I-805 S	0.7 MI
TAKE EXIT 3 FOR MAIN ST TOWARDS AUTO PARK DR	0.2 MI
TURN LEFT ONTO MAIN ST	0.4 MI
TURN LEFT ONTO BRANDYWINE AVE	0.5 MI
TAKE THE 1ST RIGHT ON TO SEDQUA ST	0.4 MI
TURN LEFT ONTO W POINT DR	0.2 MI
CONTINUE ONTO POINT BARROW DR	459 FT
CONTINUE ONTO LAGUNA POINT CT	223 FT

ARRIVED AT SITE ON LAGUNA POINT CT

DRIVING DIRECTIONS

SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY

- REMOVE (6) EXISTING SPRINT PANEL ANTENNAS
- INSTALL (5) NEW SPRINT PANEL ANTENNAS
- INSTALL (3) NEW RRW UNITS
- EXISTING ANTENNA COAX TO BE REMOVED
- INSTALL (3) NEW FIBER OPTIC CABLES USING EXISTING COAX ROUTE
- INSTALL (1) NEW JUNCTION BOX
- INSTALL (1) NEW RAY FIBER EQUIPMENT
- EQUIPMENT IS LOCATED WITHIN EXISTING SPRINT EQUIPMENT COMPOUND

PROJECT DESCRIPTION

APPLICANT:

SPRINT WIRELESS
CONTACT: ALEX TSATUROV
OFFICE PH: (858) 472-4048

PROPERTY INFORMATION:

PROPERTY OWNER: DTAT WATER DISTRICT
ADDRESS: 2504 SWEETWATER SPRINGS BLVD., SPRING VALLEY, CA 91978

CONTACT: GENERAL MANAGER
PH: (619) 670-2210

ZONING CLASSIFICATION: PLANNED COMMUNITY-R1 RESIDENTIAL
BUILDING CODE: 2010 CBC
CONSTRUCTION TYPE: V-N
OCCUPANCY: S-2
JURISDICTION: CITY OF CHULA VISTA
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

PARCEL NUMBER(S):
644-221-68-00

LEASE AREA:
176.25 SQ FT

PROJECT SUMMARY

SHEET DESCRIPTION

SHEET	DESCRIPTION
T-1	TITLE SHEET
G-1	GENERAL NOTES & SYMBOLS
G-2	SIGNAGE AND NOTES
A-1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	EXISTING ENLARGED EQUIPMENT & ANTENNA PLAN
A-4	PROPOSED ENLARGED EQUIPMENT & ANTENNA PLAN
A-5	NORTH & SOUTH ELEVATION
A-6	EAST & WEST ELEVATION
A-7	EQUIPMENT & CONSTRUCTION DETAILS
A-8	CONSTRUCTION DETAILS
A-9	CABLE COLOR CODING REQUIREMENTS
A-10	CABLE COLOR CODING REQUIREMENTS
A-11	CABLE COLOR CODING REQUIREMENTS
A-12	CABLE COLOR CODING REQUIREMENTS
A-13	PLUMBING DIAGRAMS
A-14	PLUMBING DIAGRAMS
A-15	PLUMBING DIAGRAMS
A-16	PLUMBING DIAGRAMS
A-17	PLUMBING DIAGRAMS
F-1	FIBER PLAN
E-1	SCHEMATIC GROUNDING PLAN
E-2	GROUNDING DETAILS

SHEET INDEX

ARCHITECT:

THOMAS HOLLAND
PACIFIC TELECOM SERVICES, LLC
3189C AIRPORT LOOP DRIVE
COSTA MESA, CA 92626
CONTACT: ROBERT LEIGHTON
PH: (206) 484-4402
EMAIL: RLEIGHTON@PTSSA.COM

STRUCTURAL ENGINEER:

FLORIN ARSENE, PE
25442 BURNWOOD
LAGUNA HILLS, CA 92677
PH: (949) 374-2405

SITE ACO PROJECT MANAGER:

ALCATEL LUCENT SAN DIEGO
CONTACT: ALEX TSATUROV
PH: (858) 472-4048

CONSTRUCTION MANAGER:

ALCATEL LUCENT SAN DIEGO
CONTACT: DILLON TERRY
PH: (619) 398-6199

LEASING:

SAC WIRELESS, LLC
CONTACT: MARY HAMILTON
PH: (858) 720-0166

PLANNING CONSULTANT:

CONTACT: MARK BERLIN
PH: (858) 922-0237

POWER COMPANY:

SOGAE
PH: (800)-336-7343

TELCO COMPANY:

AT&T
CONTACT: BOB ROVERE
PH: (858) 260-6919

PROJECT TEAM



At all new services & grounding trenches, provide "WARNING" tape at 12" below grade.

DIG ALERT
"CALL BEFORE YOU DIG"
1-800-227-2600

UTILITY NOTIFICATION CENTER OF SOUTHERN CALIFORNIA

PACIFIC TELECOM SERVICES, LLC
3189C AIRPORT LOOP DRIVE
COSTA MESA, CA 92626
PHONE: (714) 250-9714

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

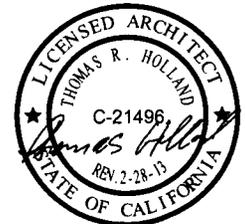
ISSUED FOR:

REVISED CONSTRUCTION

REV.	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLD
0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

ENCLOSURE:



SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

1

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY NETWORK CARRIER OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY, DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF NETWORK CARRIER. CONSTRUCTION PROJECT MANAGER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY NETWORK CARRIER CONSTRUCTION PROJECT MANAGER.
2. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND THE CONTRACTOR HAVING BEEN AWARDED THIS PROJECT SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.
3. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE NETWORK CARRIER PROJECT SCOPE AND THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
4. 11x17 COPIES OF DRAWINGS ARE NOT TO BE SCALED DUE TO DISTORTION RESULTING FROM THE PHOTOGRAPHIC COPY. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON PLANS.
5. OWNER, CONTRACTOR, AND NETWORK CARRIER REPRESENTATIVE SHALL REVIEW AND CONFIRM THAT PROJECT SCOPE, DESIGN INTENT AND UTILITY COORDINATION ITEMS ARE INCLUDED IN THE DRAWINGS AND/OR SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION FROM NETWORK CARRIER REPRESENTATIVE TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK. THIS AUTHORITY SHALL BE CLEARLY DERIVED BY THE CONSTRUCTION DRAWING/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS OR TENANTS.
8. THE CONTRACTOR SHALL PROVIDE NETWORK CARRIER PROPER INSURANCE CERTIFICATES NAMING NETWORK CARRIER AS ADDITIONAL INSURED, AND PROVIDE NETWORK CARRIER PROOF OF LICENSE(S) INCLUDING PE & PD INSURANCE.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL ORDINANCES TAKE PRECEDENCE.
11. ALL WORK PERFORMED ON THE PROJECT ALONG WITH ALL MATERIALS INSTALLED, SHALL COMPLY IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL UNLESS ISSUE NOTICE TO ALL SUB-CONTRACTORS THAT THEY SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPALITY, UTILITY COMPANY AND LOCAL/STATE JURISDICTIONS, CROSS BEARING ON THE PERFORMANCE OF THE WORK.
12. A COPY OF THE GOVERNING AGENCY ISSUED AND APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY TIMES THE ORIGINAL PERMIT SET PLANS ARE NOT TO BE USED BY THE WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION AS GOVERNING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS, IN GOOD CONDITION, COMPLETE WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES UNDER THE DIRECT CARE OF THE SUPERINTENDENT. THE CONTRACTOR SHALL SUPPLY THE NETWORK CARRIER CONSTRUCTION PROJECT MANAGER WITH A COPY OF ALL REVISIONS, ADDENDA AND/OR CHANGE ORDERS AT THE CONCLUSION OF THE WORK AS A PART OF THE AS-BUILT DRAWING RECORDS.
13. THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
14. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE JOB SITE WHILE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
16. THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THE PLANS, ALONG WITH PROTECTING THEM FROM DAMAGE. THE CONTRACTOR AND SUBCONTRACTOR SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE RESULTING FROM OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
17. ALL EXISTING CONSTRUCTION, EQUIPMENT, AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
A. PROPERTY NOTED TO BE RETURNED TO THE OWNER.
B. PROPERTY NOTED TO BE REMOVED BY THE OWNER.
18. THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES THROUGHOUT THE PROJECT. TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
20. WHEN ROOF TOP OR TOP FLOOR DECK TEMPORARY STAGING OF IS REQUIRED, MATERIALS SHALL BE EVENLY DISTRIBUTED OVER ROUGH FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING AND/OR BRACING IS TO BE PROVIDED WHERE THE STRUCTURE DOESN'T HAVE THE DESIGN STRENGTH FOR ADDITIONAL LOADING.
21. SEAL ALL PENETRATIONS WITHIN FIRE-RATED AREAS WITH UL LISTED OR FIRE MARSHAL APPROVED MATERIALS IF APPLICABLE TO THE SUBJECT FACILITY AND OR PROJECT SITE.
22. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GROUND DISTURBANCE, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS MANDATED BY THE GOVERNING AGENCY.
23. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
24. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ADJACENT TO THE PROPERTY.
25. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION DISPOSING OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SHADES OF ANY NATURE.
26. NEW CONSTRUCTION INSTALLED ADJACENT EXISTING BUILDINGS OR CONSTRUCTION SHALL ARCHITECTURALLY MATCH THE EXISTING IN TERMS OF COLOR, TEXTURE, FINISH MATERIALS, ETC. EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.
27. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR OTHER ANCHORAGE DEVICES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND CODE COMPLIANT INSTALLATION.
28. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INSTALLATIONS THAT ARE CONSTRUCTED LEVEL, ERECT, TRULY ALIGNED, PLUMB, AND TRUE BASED ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL COMPARE EXISTING CONDITIONS WITH THE PROPOSED DESIGN PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES OR INCONSISTENCIES TO THE NETWORK CARRIER'S REPRESENTATIVE AND FURTHER TO THE ABE SUCH THAT THE NEW INSTALLATION WILL MAINTAIN THE SAME LEVEL, ERECT, PLUMB AND TRUE. NETWORK CARRIER SHALL BE NOTIFIED OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES PRIOR TO ANY CONSTRUCTION.
29. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES.
30. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR REVISIONS AVAILABLE AS REQUIRED BY THE GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
31. THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT STORE OR STAGE MATERIALS ON PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE GOVERNING AGENCIES FOR THIS PURPOSE.
32. GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN ALL CONDITIONS UNLESS ILLUSTRATED AND NOTED OTHERWISE.
33. TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC., SO AS TO BE PREPARED PROPERLY BY THE WORK OF OTHER TRADES.
34. ALL DEBRIS AND REFUSE SHALL BE REMOVED FROM THE PROJECT PREMISES AND LEFT IN A CLEAN SWEEP CONDITION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK.
35. NETWORK CARRIER DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR EQUIPMENT NAMED BY A TRADE OR MANUFACTURER, GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE THROUGH THE CONTRACTOR OR MANUFACTURER PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
36. CAUTION: CALL BEFORE YOU DIG. BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
37. WHEN APPLICABLE, CONTRACTOR IS RESPONSIBLE TO CALL, COORDINATE AND MAKE ARRANGEMENTS FOR R.O.W. AND/OR PRIVATE PROPERTY LOCATES BASED ON SPECIFIC SITE REQUIREMENTS.
38. SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.
39. CONTRACTORS TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO NETWORK CARRIER'S REPRESENTATIVE ALONG WITH REDLINED CONSTRUCTION SET.
40. CONTRACTOR SHALL DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDELINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED CONSTRUCTION SET ALONG WITH PHOTOGRAPHS PER NETWORK CARRIER REQUIREMENTS.
41. GENERAL CONTRACTOR SHALL COORDINATE AND SEEK APPROVAL OF ALL POWER DRAW, INSTALLATION AND/OR MODIFICATIONS WITH POWER COMPANY. CONTRACTOR, EXCEPT FOR THE ROOFING CONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WARRANTY CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
42. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY NETWORK CARRIER CONSTRUCTION MANAGER.
43. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FACILITY, INTERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FACILITY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE ACCEPTING UNDER THIS CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. EXCEPT FOR THE ROOFING CONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WARRANTY CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.

CALIFORNIA SPECIFIC CODE COMPLIANCE NOTES:

1. WHEN COMPLETED, THE SUBJECT PROJECT SHALL COMPLY WITH LOCAL SECURITY CODES.
2. WHEN COMPLETED, THE SUBJECT PROJECT SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE TITLE 24 ENERGY CONSERVATION REQUIREMENTS.
3. WHEN GLASS OR GLAZING REPLACEMENT IS A PART OF THE SCOPE OF THE PROJECT, GLASS AND GLAZING SHALL COMPLY WITH CHAPTER 54 OF THE U.S. CONSUMER SAFETY COMMISSION WITH SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS BEING COMPLY WITH PER 162 FR 1428, CFR PART 1201 & LOCAL SECURITY REQUIREMENTS.

SYMBOLS:

- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- CENTERLINE
- PROPERTY/LEASE LINE
- MATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- TELEPHONE CONDUIT
- ELECTRICAL CONDUIT
- COAXIAL CABLE
- OVERHEAD SERVICE CONDUCTORS
- GROUT OR PLASTER
- (E) BRICK
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- PLYWOOD
- SAND
- WOOD CONTINUOUS
- WOOD BLOCKING
- STEEL
- NEW
- EXISTING
- NEW ANTENNA
- EXISTING ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRND. CONN.
- CANDLED
- GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- LIGHT POLE
- FND MONUMENT
- SPOT ELEVATION
- SET POINT
- REVISION

44. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
45. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMITS APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE) AND MAKE FINAL PAYMENT FOR SAID DOCUMENTS.
46. NETWORK CARRIER'S REPRESENTATIVE SHALL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. NETWORK CARRIER'S REPRESENTATIVE PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
47. ALL ANTENNAS MOUNTED ON ROOF SUPPORT FRAMES TO BE PROVIDED BY NETWORK CARRIER.
48. CONTRACTOR SHALL PROVIDE HEAVY STEEL PLATES AT OPEN TRENCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UTILIZED DURING CONSTRUCTION.
49. CONTRACTOR SHALL PATCH AND REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.
50. CONTRACTOR SHALL REPLACE EXISTING LANDSCAPE VEGETATION DAMAGED DUE TO CONSTRUCTION ACTIVITIES, AND REPAIR, RESTORE AND MODIFY EXISTING IRRIGATION LINES IF NECESSARY TO OPERATING CONDITION, PROVIDING FULL COVERAGE TO IMPACTED AREAS.
51. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATING EXISTING ROOFING MATERIALS OCCUR, GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER TO OBTAIN CONTACT INFORMATION AND UTILIZE THE EXISTING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY ADJUSTMENT TO THE ROOF, AND HAVING THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S EXISTING WARRANTY ENSURING 100% MOISTURE PROTECTION.
52. IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS FRAMES WHERE CONCEALED (HIDDEN) SUPPORT FRAMES OR TRIPPODS, GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHOULD BE SIMULATING (IN APPEARANCE) EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE, ENSURE THE USE OF COUNTERSUNK OR FLATHEAD FASTENERS IN ALL FRP CONSTRUCTION. WHEN PHOTOGRAPHS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTOGRAPHS. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
53. IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO AN EXISTING CONCRETE ROOF SLAB IS REQUIRED, CONTRACTORS SHALL CONFIRM (PRIOR TO SUBMITTING BID) WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. IF UNDOCUMENTED DESIGN CHANGE IN THE EXISTING BUILDING "AS-BUILT DRAWING SET" HAVING INDICATED AN ORIGINAL DESIGN SOLUTION OF REINFORCED CONCRETE W/ EMBEDDED STEEL REBAR. IN THE EVENT POST TENSION SLAB SOLUTION IS PRESENT, CONTRACTOR SHALL INCLUDE PROVISIONS FOR X-RAY PROCEDURES (INCLUDED IN BID) FOR ALL PENETRATION AREAS WHERE ANCHORING OCCURS.
54. GENERAL & SUB CABLEING TE DOWNS AND ALL OTHER GENERAL TE DOWNS (WHERE APPLICABLE) PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON TOWER NETWORK CARRIER PROJECTS. RECOMMENDED MANUFACTURE SHALL BE: PANOUT CORP. METAL LOCKING TIES MODEL NO. M145-CP UNDER SERIES-304 (OR EQUAL). PANOUT PRODUCT DISTRIBUTED BY TRAMP.
55. GENERAL CONTRACTOR SHALL OBTAIN, REVIEW AND EXECUTE ALL NETWORK CARRIER CONSTRUCTION STANDARDS (MOST RECENT REVISION) AS A PART OF THIS BID AND CONSTRUCTION PROJECT.
56. GENERAL CONTRACTOR SHALL OBTAIN, REVIEW AND EXECUTE ALL NETWORK CARRIER CONSTRUCTION STANDARDS (MOST RECENT REVISION) AS A PART OF THIS BID AND CONSTRUCTION PROJECT.
57. CONTRACTOR SHALL BE RESPONSIBLE TO SET ELECTRONIC TILTS FOR NEWLY INSTALLED ANTENNAS UNDER THE CONDITION THAT THE OWNER THE MOST RECENT COPY OF THE RF TILT INFORMATION SUCH THAT THE ACCURATE CONTROLLER CAN BE ORDERED AND INSTALLED.
58. A STRUCTURAL ANALYSIS SHALL BE COMPLETED AND SUBMITTED TO THE NETWORK CARRIER REPRESENTATIVE AND GC DEMONSTRATING CAPACITY AT THE EXACT LOCATION OF EXISTING CONDITIONS TO SUSTAIN ADDITIONAL HEAVY BATTERY CABINETS OR OTHER OUT OF SCOPE EQUIPMENT.
59. THE GC SHALL PROVIDE MATERIALS LIST (BOM) TO THE NETWORK CARRIER REPRESENTATIVE PRIOR TO CONSTRUCTION.






PACIFIC TELECOM SERVICES, LLC
11800 AIRPORT LOOP, SUITE 200
COSTA MESA, CA 92626
PHONE: (714) 236-8714

PROJECT INFORMATION:

NETWORK VISION MBBS LAUNJH

MALIBU POINT

SLD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE: 01/04/13

ISSUED FOR: REVISED CONSTRUCTION

REVISED CONSTRUCTION			
REV.	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLD
0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSEUR:

LICENSED ARCHITECT

THOMAS R. HOLLAND

C-21496

Thomas R. Holland

REV. 2-28-13

STATE OF CALIFORNIA

SHEET TITLE: GENERAL NOTES & SYMBOLS

SHEET NUMBER: G-1

REVISION: 1

BATTERY INFORMATION /NOTES:

BATTERY MFG: EAST PENN MANUFACTURING
 MODEL No.: 12AVR-145L
 ELECTROLYTE CONTENT PER BATTERY: 2.17 GALLONS
 ELECTROLYTE HAZARD CLASSIFICATION PER '07 C.F.C. (8.7% SULFURIC ACID): CORROSIVE
 No. OF BATTERIES TO BE INSTALLED: 20 MAX.
 TOTAL ELECTROLYTE CONTAINED ON SITE (2.17 x 20 = 43.4): 43.4 GALLONS MAX.

FIRE DEPARTMENT NOTES:

- A. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
- B. A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE.
- C. A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
- D. A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
 TOXIC LIQUID
 CORROSIVE LIQUID
 OTHER HEALTH HAZARD LIQUID

- E. AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
- F. BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
- G. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE 2010 CFC AND PLACEMENT IS SUBJECT TO APPROVAL OF THE FIRE INSPECTOR.
- H. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH 2010 CFC REGULATIONS.
- I. EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- J. ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.
- K. REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH, IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
- L. REQUIRED SIGNAGE SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN (SEE SIGNAGE).

STATIONARY STORAGE BATTERY SYSTEMS CODE COMPLIANCE:

- APPLICABLE CODES:
 2010 CFC & 2010 CBC
- A. STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF LESS THAN 50 GALLONS, OR A LITHIUM-ION CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES, ARE EXEMPT FROM CONDITIONS OUTLINED PER SEPARATION AND/OR PROTECTION UNDER INCIDENTAL OCCUPANCIES TABLE 508.2.5 2010 CBC.
 - B. STATIONARY STORAGE BATTERY SYSTEMS HAVING AN ELECTROLYTE CAPACITY OF LESS THAN 50 GALLONS (189 L) FOR FLOODED LEAD-ACID, NICKEL CADMIUM (Ni-Cd) AND VALVE-REGULATED LEAD-ACID (VRLA), OR 1,000 POUNDS (454 kg) FOR LITHIUM-ION AND LITHIUM METAL POLYMER, USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES, ARE NOT REQUIRED TO COMPLY TO THE CONDITIONS OUTLINED UNDER BATTERY REQUIREMENTS TABLE 608.1 2010 CFC CHAPTER 6 - BUILDING SERVICES & SYSTEMS SECTION 608 STATIONARY STORAGE BATTERY SYSTEMS.
 - C. GC SHALL COMPLY WITH 2010 CFC STATIONARY STORAGE BATTERY SYSTEM SPECIFIC CHAPTER 27 REQUIREMENTS INCLUDING SPILL CONTAINMENT OR MEANS TO RENDER A SPILL HARMLESS TO PEOPLE OR PROPERTY SHALL BE PROVIDED WITH IMPLEMENTATION OF APPROVED SPILL CONTAINMENT SHELVES WITHIN EACH CABINET BATTERY STRING TRAY SYSTEM OR EQUAL SYSTEM.
 - D. GC SHALL COMPLY WITH 2010 CFC STATIONARY STORAGE BATTERY SYSTEM SPECIFIC CHAPTER 27 REQUIREMENTS INCLUDING SAFEGUARDS BEING PROVIDED TO MINIMIZE THE RISK OF AND LIMIT DAMAGE FROM A FIRE OR EXPLOSION INVOLVING HAZARDOUS MATERIALS WITH BATTERY SYSTEMS BEING SECURED WITHIN VENTILATED PROTECTIVE STEEL CABINETS WITH FIRMLY SECURED LOCKING ACCESS DOORS.
 - E. GC SHALL COMPLY WITH 2010 CFC STATIONARY STORAGE BATTERY SYSTEM SPECIFIC CHAPTER 27 REQUIREMENTS INCLUDING HAZARDOUS MATERIALS WARNING SIGNS REQUIRED FOR LEAD-ACID BATTERY SYSTEMS WITH QUANTITIES OF ELECTROLYTE EXCEEDING THE MINIMUM PERMIT AMOUNT OF 10 GALLONS INCLUDING ELECTROLYTE PERCENTAGE OF OVER 12% OF SULFURIC ACID WITH SIGNAGE PER CFC 608.7.1 & 2703.5 (SEE FIRE DEPARTMENT NOTES).
 - F. GC SHALL COMPLY WITH 2010 CFC STATIONARY STORAGE BATTERY SYSTEM SPECIFIC CHAPTER 27 REQUIREMENTS INCLUDING ELECTRICAL WIRING AND EQUIPMENT BEING INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CALIFORNIA ELECTRIC CODE PER CFC 2703.9.4.

BATTERY INFO & FIRE DEPT NOTES 5



REQUIRED NFPA SIGNAGE

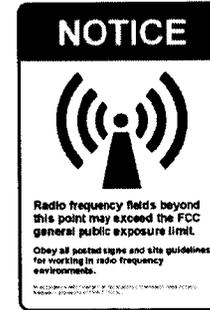
**IN CASE OF
 EMERGENCY**
 — CALL —
NOC #1-866-400-6040
SITE NUMBER: SD54XC931
SITE NAME: MALIBU POINT

EMERGENCY CONTACT SIGNAGE

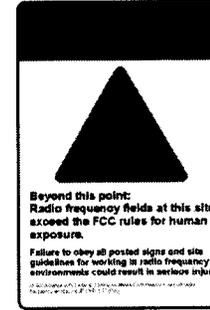
SITE IDENTIFICATION SIGNAGE 4



Beyond this point:
 Radio frequency fields at this site may exceed FCC rules for human exposure.
 For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

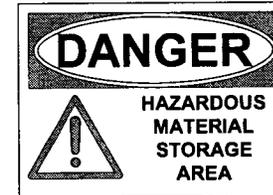
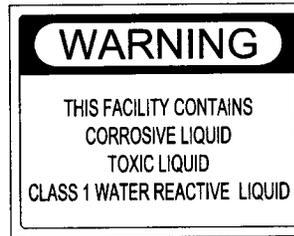


Radio frequency fields beyond this point may exceed the FCC general public exposure limit.
 Obey all posted signs and site guidelines for working in radio frequency environments.



Beyond this point:
 Radio frequency fields at this site exceed the FCC rules for human exposure.
 Failure to obey all posted signs and site guidelines for working in radio frequency environments could result in serious injury.

RF SIGNAGE 1



HAZARDOUS MATERIAL SIGNAGE 2

NOT USED 3



PROJECT INFORMATION:

NETWORK VISION MVB15 LAUNCH

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
 CHULA VISTA, CA 91911
 SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUE NO.:

REVISED CONSTRUCTION

REVISIONS			
REV.	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLO
0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLO
1	01/04/13	REVISED FOR CONSTRUCTION	AF

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LICENSE:



SHEET TITLE:

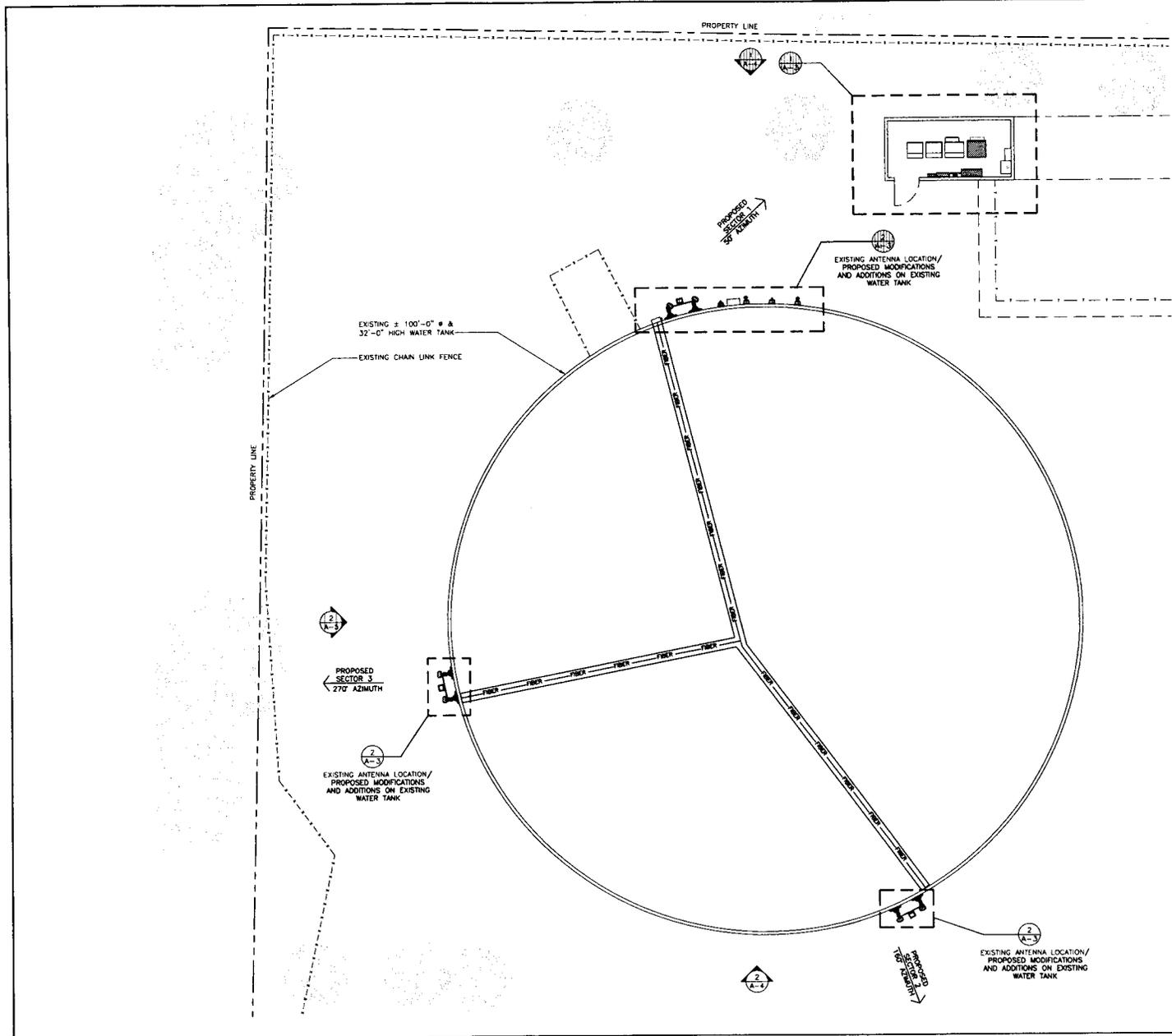
SIGNAGE AND NOTES

SHEET NUMBER:

REVISION:

G-2

1



NOTES TO CONTRACTOR:

1. REMOVE ALL EXISTING SPRINT ANTENNAS, MOUNTS AND COAX FROM SITE.
2. NEW ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING TANK.
3. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.



PTS
 PACIFIC TELECOM SERVICES, LLC
 3180 AMBROS LOOP DRIVE
 COSTA MESA, CA 92626
 PHONE: (714) 250-8714

PROJECT INFORMATION

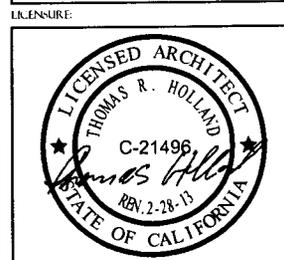
NETWORK VISION MABIS LAUNCH II
MALIBU POINT
 SDJ54XC93I
 651 POINT BARROW DRIVE
 CHULA VISTA, CA 91911
 SAN DIEGO COUNTY

ISSUE DATE:
 01/04/13

ISSUE FOR:
 REVISED CONSTRUCTION

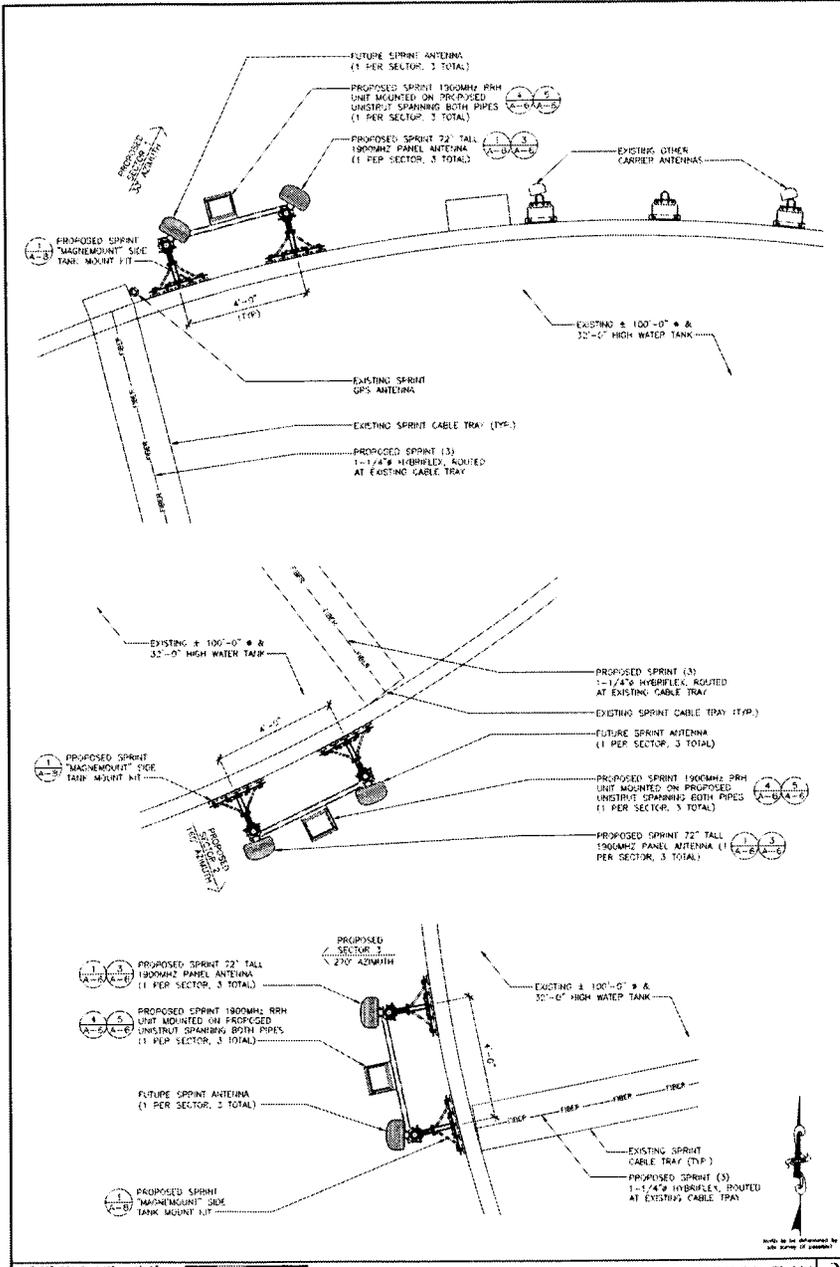
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REV.	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLD
0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

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SHEET TITLE:
 ENLARGED SITE PLAN

SHEET NUMBER: **A-2** REVISION: 1

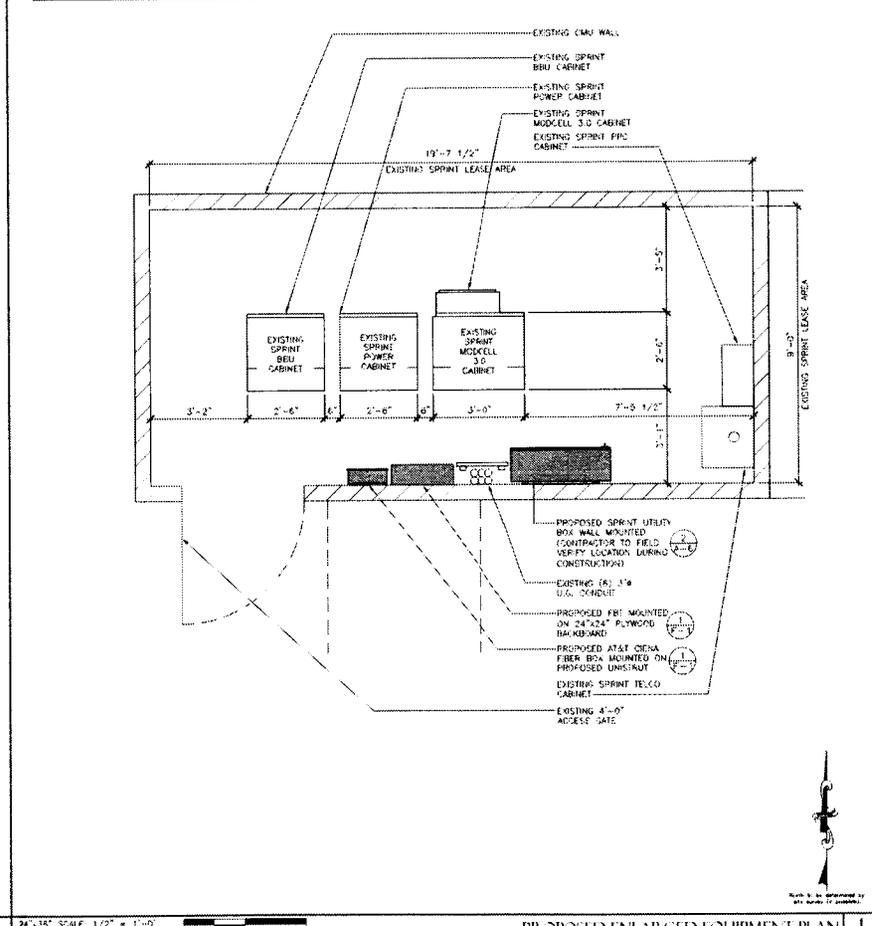


24"x36" SCALE 1/2" = 1'-0"
 13"x17" SCALE 1/4" = 1'-0"
PROPOSED ENLARGED ANTENNA PLAN 2

CONTRACTOR TO SET FINAL FREQUENCY FOR BUILD

SECTOR	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	EFFECTIVE TILT	MECH TILT	NET	SRH	JUMPER FROM TO ANT	COMBIBER	FIBER OPTIC	FIBER LENGTH
SECTOR 1	30°	28'-0"	1	RFS	APXVSP18-0-A20	0	0	0	(1) 1900MHz	10' MAX	LOFT12-BAY	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-MSE	90'-0"
SECTOR 2	150°	28'-0"	1	PFS	APXVSP18-0-A20	-6	0	-8	(1) 1900MHz	10' MAX	---	---	---
SECTOR 3	270°	28'-0"	1	RFS	APXVSP18-0-A20	-2	0	-2	(1) 1900MHz	10' MAX	LOFT12-BAY	(1) 1-1/4" HYBRIFLEX HB114-1-08U4-MSE	90'-0"

- NOTES TO SUBMITTOR:**
- REMOVE ALL EXISTING SPRINT ANTENNAS, MOUNTS AND COAX FROM SITE
 - NEW ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING TANK
 - ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.



24"x36" SCALE 1/2" = 1'-0"
 13"x17" SCALE 1/4" = 1'-0"
PROPOSED ENLARGED EQUIPMENT PLAN 1

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PROJECT INFORMATION:

NETWORK VISION MBBIS LAUNCH

MALIBU POINT
 SD54XC931

651 POINT BARROW DRIVE
 CHULA VISTA, CA 91911
 SAN DIEGO COUNTY

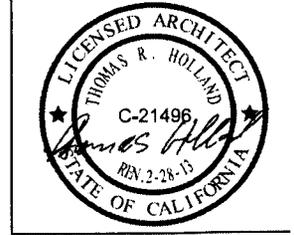
ISSUE DATE: 01/04/15

REVISIONS

REV	DATE	DESCRIPTION	INITIALS
A	04/23/12	ISSUED FOR 50% CD REVIEW	RJD
D	06/29/12	ISSUED FOR 100% CONSTRUCTION	RJD
1	01/04/15	REVISED FOR CONSTRUCTION	AF

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DATE: 01/04/15

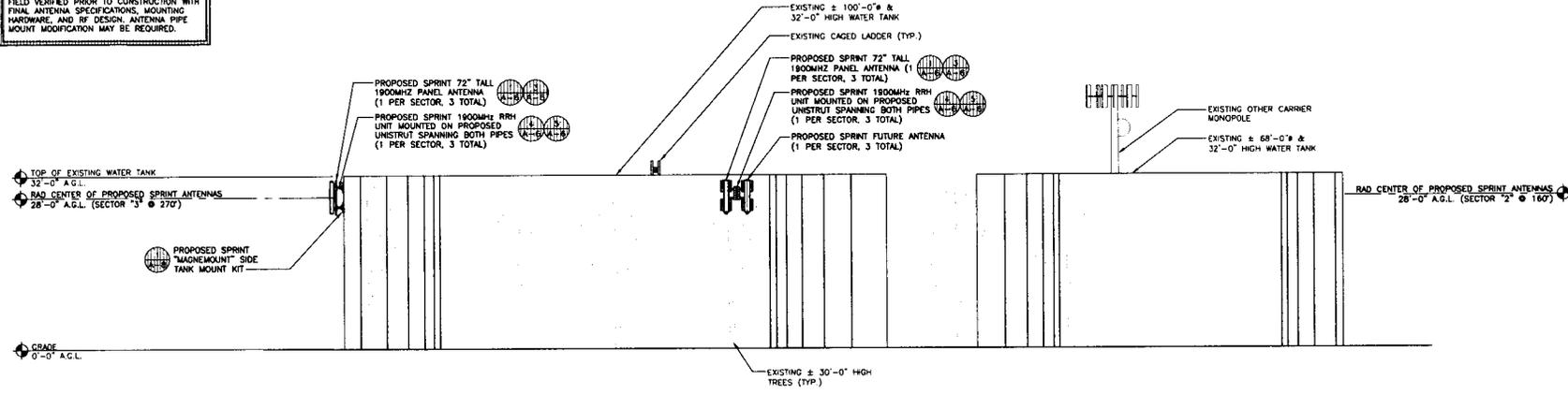


SHEET TITLE: PROPOSED ENLARGED EQUIPMENT & ANTENNA PLAN

SHEET NUMBER: A-4
 REVISION: 1

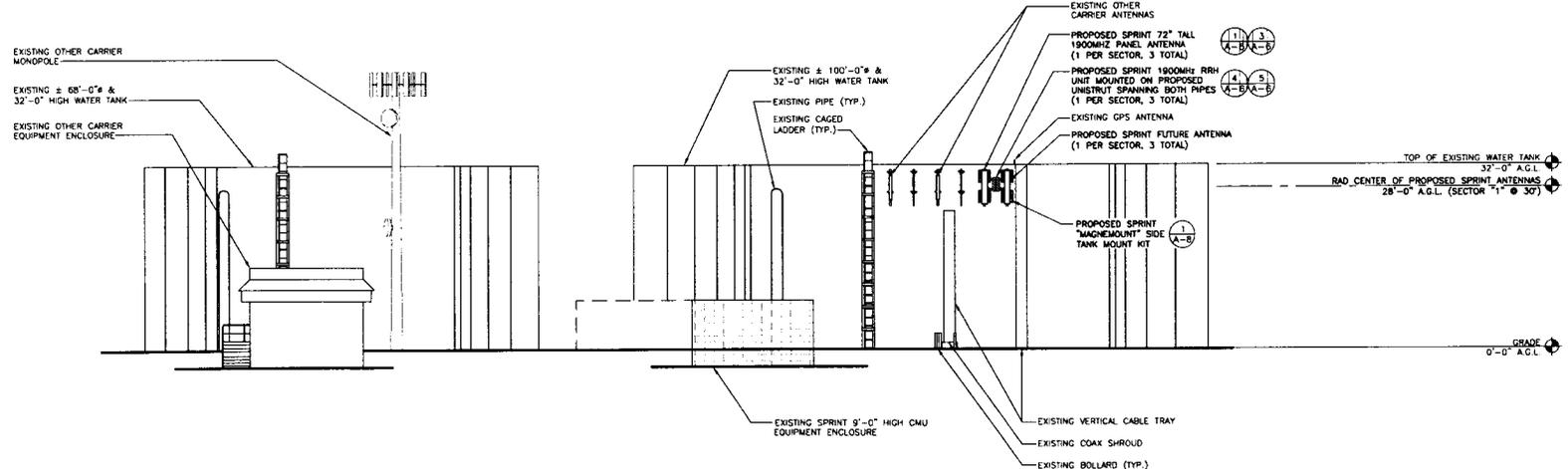
NOTES TO CONTRACTOR:

1. REMOVE ALL EXISTING SPRINT ANTENNAS, MOUNTS AND COAX FROM SITE.
2. NEW ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING TANK.
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24"x36" SCALE: 3/32" = 1'-0"
 11"x17" SCALE: 3/64" = 1'-0"

SOUTH ELEVATION | 2



24"x36" SCALE: 3/32" = 1'-0"
 11"x17" SCALE: 3/64" = 1'-0"

NORTH ELEVATION | 1

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PROJECT INFORMATION:

NETWORK VISION WANTS LAUNCH
MALIBU POINT
 SD54XC931
 651 POINT BARROW DRIVE
 CHULA VISTA, CA 91911
 SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

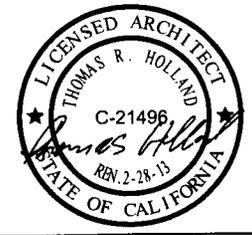
ISSUED FOR:

REVISED CONSTRUCTION

REVISIONS			
REV.	DATE	DESCRIPTION	INITIAL
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0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LEGEND:



SHEET TITLE:

NORTH & SOUTH ELEVATION

SHEET NUMBER:

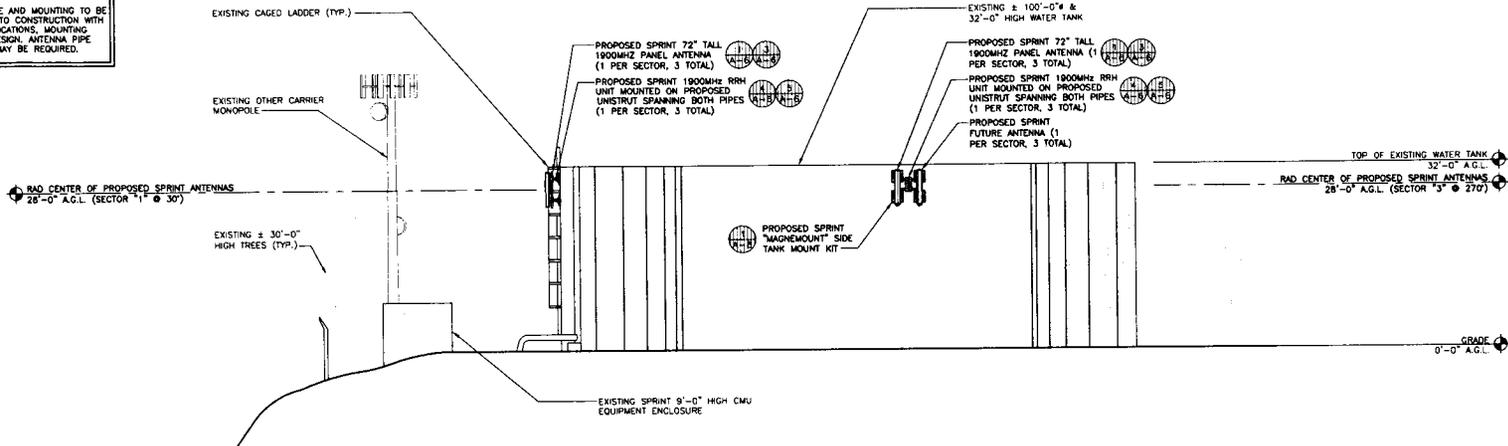
REVISION:

A-5

1

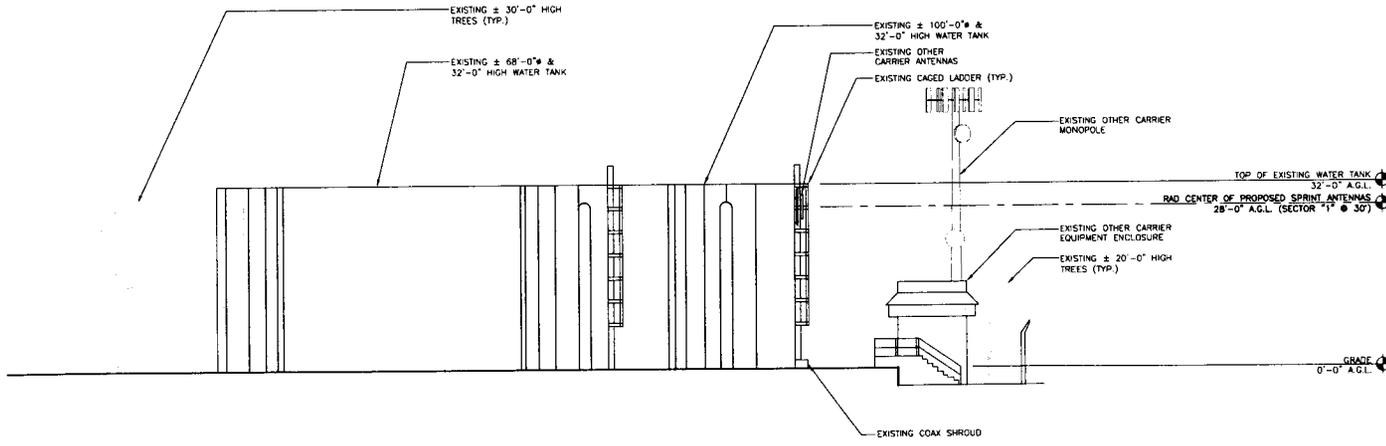
NOTES TO CONTRACTOR:

1. REMOVE ALL EXISTING SPRINT ANTENNAS, MOUNTS AND COAX FROM SITE.
2. NEW ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING TANK.
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24"x36" SCALE: 3/32" = 1'-0"
 11"x17" SCALE: 3/64" = 1'-0"

WEST ELEVATION | 2



24"x36" SCALE: 3/32" = 1'-0"
 11"x17" SCALE: 3/64" = 1'-0"

EAST ELEVATION | 1

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



PTS
 PACIFIC TELECOM SERVICES, LLC
 3100 HARBOR LOOP DRIVE
 COSTA MESA, CA 92626
 PHONE: (714) 236-8716

PROJECT INFORMATION:

NETWORK VISION MMBIS LALUN.H
MALIBU POINT
 SD54XC931
 651 POINT BARROW DRIVE
 CHULA VISTA, CA 91911
 SAN DIEGO COUNTY

ISSUE DATE:

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REVISED CONSTRUCTION

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LICENSED ARCHITECT:



SHEET TITLE:

EAST & WEST ELEVATION

SHEET NUMBER:

A-6

REVISION:

1



PROJECT INFORMATION

NETWORK VISION MWMTS LAUNCH

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUED FOR:

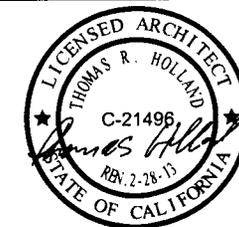
REVISED CONSTRUCTION

REVISIONS

REV.	DATE	DESCRIPTION	INITIAL
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0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSE NO.



SHEET TITLE:

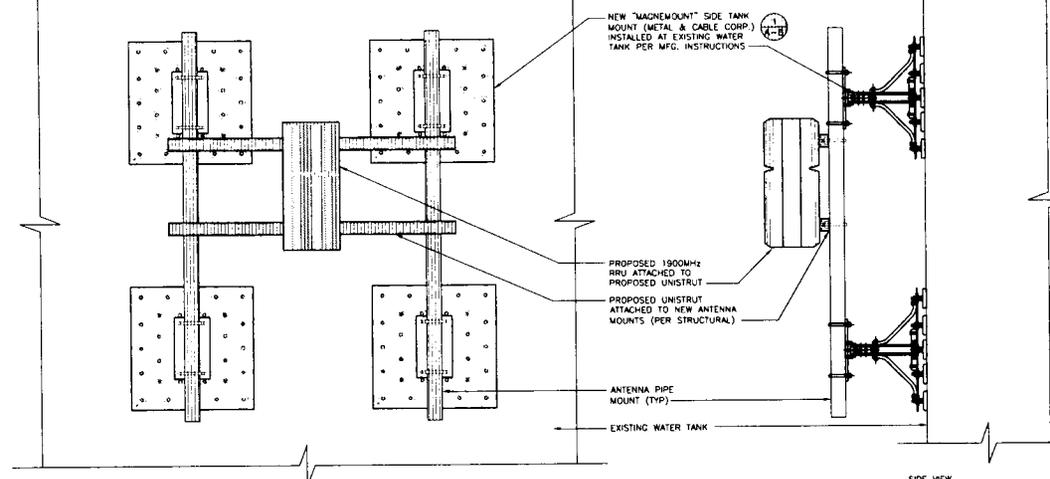
CONSTRUCTION AND EQUIPMENT DETAILS

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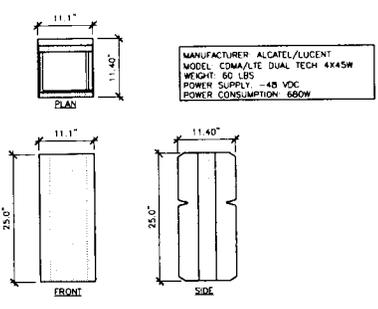
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REVISION:

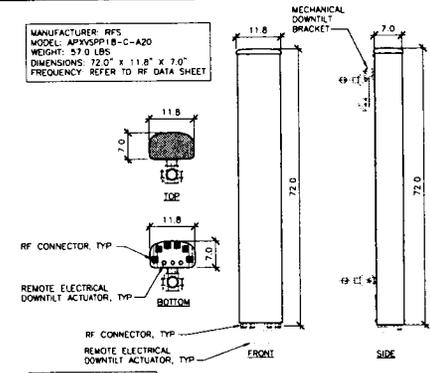
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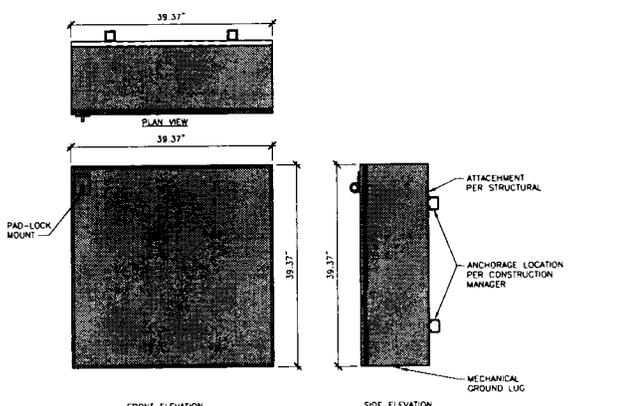
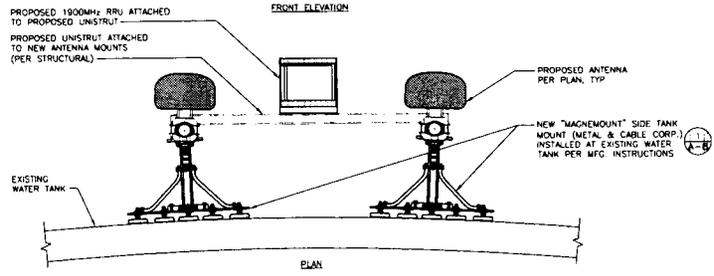
RRH MOUNTING DETAIL 5
24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"



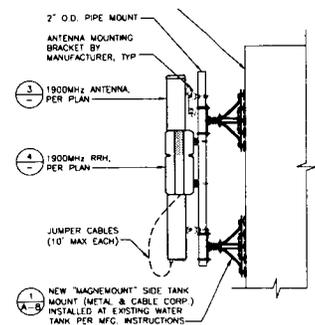
1900MHz RRH SPECIFICATION 4
24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"



RFS ANTENNA SPECIFICATIONS 3
24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"



JUNCTION BOX DETAIL 2
24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"



ANTENNA & RRH MOUNTING 1
24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/2" = 1'-0"



PROJECT INFORMATION

NETWORK VISION AMBISLAUNCH

MALIBU POINT

SD54XC0931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

SUBJECT:

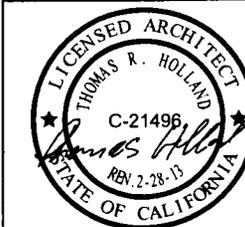
REVISED CONSTRUCTION

REVISIONS

REV.	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLD
0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

EXPIRE:



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CONSTRUCTION DETAILS

SHEET NUMBER:

A-8

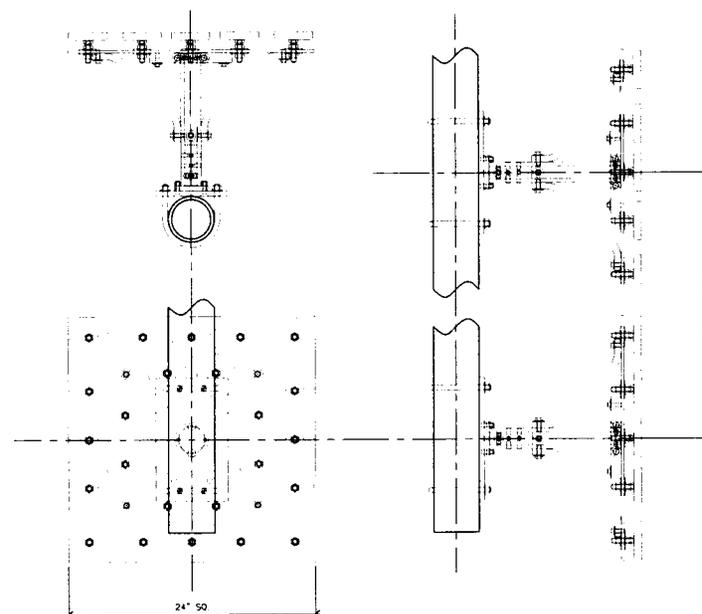
REVISION:

1

MFR INSTALLATION INSTRUCTIONS FOR THE MAGNEMOUNT TOWER SIDE MOUNT

TOOLS NEEDED: 1/2" ANGLED BOX WRENCH, 9/16" AND 3/4" SOCKETS, TORQUE WRENCH.

1. PRIOR TO THE INSTALLATION OF THE MAGNEMOUNT - DO NOT REMOVE THE ATTACHED INSULATING CORRUGATED CARDBOARD BASE.
2. 1/3 OF THE MAST MUST BE ABOVE THE CENTER OF THE UPPER MAGNEMOUNT SECTION, AND 2/3 BELOW IT. KEEP FINGERS CLEAR OF THE MAGNETS WHEN LIFTING THE MOUNT INTO PLACE.
3. LAY OUT AND INSTALL BOTH SECTIONS OF THE MAGNEMOUNTS SO THAT THE BOLTHOLES ON THE PLATES ARE APPROXIMATELY VERTICAL.
4. REMOVE THE CARDBOARD BASE AND PLACE THE TOP MAGNEMOUNT ON THE TOWER WITH THE 2 CENTERLINES OF THE MAGNEMOUNT ALIGNED WITH THE VERTICAL INSTALLATION LINE. TO CORRECT ANY MISALIGNMENT, TAP THE PLATE WITH A LIGHT HAMMER.
5. REMOVE THE CARDBOARD BASE FROM THE SECOND MAGNEMOUNT. ALIGN IT WITH THE VERTICAL INSTALLATION LINE. PLACE IT SO THAT THE BOTTOM U-BOLT HOLES ARE NO MORE THAN 2/3 OF THE LENGTH OF THE MAST BELOW THE CENTER OF THE TOP MAGNEMOUNT.
6. TOTALLY LOOSEN THE 24 KEPS NUTS ON EACH MAGNEMOUNT TO ALLOW THE MAGNETS TO BE INDEPENDENTLY SEATED. (AT LEAST 3" ABOVE THE WASHER.)
7. FINGER TIGHTEN EACH KEPS NUT. THEN, WITH A HAND WRENCH ONLY, TURN EACH KEPS NUT 1 TURN TO SET THE TEETH.
8. INSTALL THE 4 U-BOLTS AND DOUBLE NUTS. SLIDE THE MAST THROUGH THE U-BOLTS. THE PLATES ROTATE TO ALLOW THE MAST TO ADJUST FOR MISALIGNMENT. IF IT IS NECESSARY TO ADJUST THE POSITION OF THE MAGNEMOUNTS FOR ALIGNMENT, TAP THE PLATE WITH A LIGHT HAMMER.
9. TIGHTEN THE DOUBLE NUTS ON EACH U-BOLT LEG AND TIGHTEN THE 2 BOLTS ON EACH SIDE OF THE SHORT MAST SECTION TO 20 FT-LB.
10. FOR SAFETY, TETHER THE MOUNT TO THE TOWER.



MANUFACTURER: METAL & CABLE CORP., INC.
MODEL: SIDE TANK MOUNT
PART#: STM

"MAGNEMOUNT" SIDE TANK MOUNT SPECIFICATIONS

24"x50" SCALE, NOT TO SCALE
11"x17" SCALE, NOT TO SCALE



Last Revision - 9/12/2011

1. Appendix A - Coaxial Cable Color Scheme

All cables shall be marked at the top and bottom with 2" colored tape, stencil tag colored tape, or colored heat shrink tubing. Colored tape may be obtained from Graybar Electronic. UV stabilized tape or heat shrink are preferred. The first ring shall be closest to the end of the cable, and 1" space between each ring. The cable color code shall be applied in accordance to table 1-1. Table 1-1 only shows 3 sectors but additional sectors are easily supported by adding the appropriate number of colored rings to the cable color code.

After the cable color code is applied the frequency color code, table 1-2, must be applied for the specific frequency band in use on a given line. A 2" gap shall separate the cable color code from the frequency color code. The 2" color rings for the frequency code shall be placed next to each other with no spaces.

Examples of the application of the cable and frequency color codes are shown in figure 1-1 and 1-2. Wrap 2" colored tape a minimum of 3 times around the circumference of the coax, keeping the tape in the same area as much as possible. This will allow the removal of tape that will be faded or discolored due to weather.



Last Revision - 9/12/2011

Table 1-1: Coaxial Cable Color Code

Sector	Cable	First Ring	Second Ring	Third Ring
1 Alpha	1		No Tape	No Tape
	2		No Tape	No Tape
	3		No Tape	No Tape
	4	White	No Tape	No Tape
	5		No Tape	No Tape
	6		No Tape	No Tape
	7		No Tape	No Tape
	8		No Tape	No Tape
2 Beta	1			No Tape
	2			No Tape
	3			No Tape
	4	White	White	No Tape
	5			No Tape
	6			No Tape
	7			No Tape
	8			No Tape
3 Gamma	1			
	2			
	3			
	4	White	White	White
	5			
	6			
	7			
	8			



PROJECT INFORMATION:

NETWORK VISION NMBTSAUN11

MALIBU POINT

SU54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

SUBJECT:

REVISED CONSTRUCTION

REVISIONS

REV	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLD
0	05/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

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LICENSEE:



SHEET TITLE:

CABLE COLOR CODING REQUIREMENTS

SHEET NUMBER:

REVISION:

A-9

1



PROJECT INFORMATION

NETWORK VISION ARCHITECTS, LLC

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

INDUSTRY:

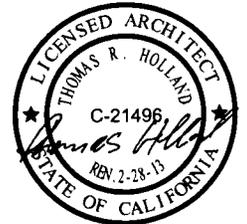
REVISED CONSTRUCTION

REVISIONS

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LICENSEE:



SHEET TITLE:

CABLE COLOR CODING REQUIREMENTS

SHEET NUMBER:

A-10

REVISION:

1



Last Revision - 9/12/2011

Table 1-2: Frequency Color Code

Frequency	Indicator	ID
800 #1	Yellow	
1900 #1	Yellow	
1900 #2	Yellow	
Reserved	Yellow	White
1500 #1	Yellow	

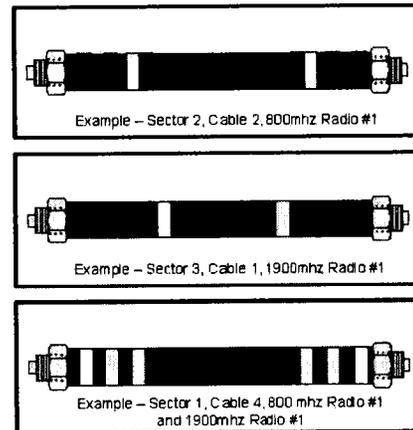
Official SprintNets1_Ant_and_Line_color_coding_V1.docx

3



Last Revision - 9/12/2011

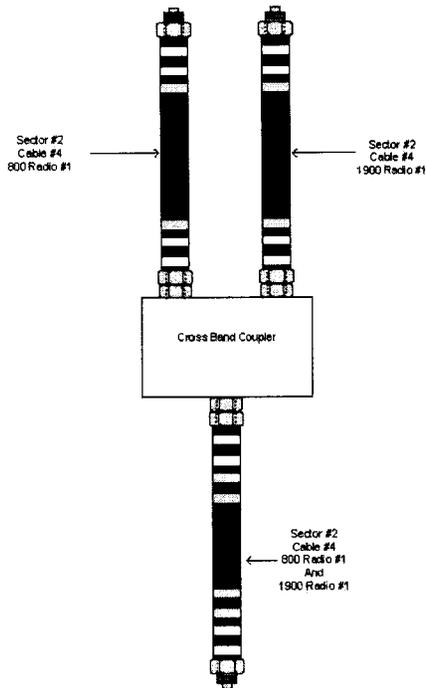
Figure 1-1: Coax Cable Color Code Example



Official SprintNets1_Ant_and_Line_color_coding_V1.docx

4

Figure 1-2: Coax Cable Color Coding Cross Band Coupler Example



2. Appendix B - Hybrid Cable Color Scheme

Hybrid cable will be marked in a similar manner as coax cable described in the previous section. The main "trunk" of the hybrid cable will NOT be marked with the frequency code as the hybrid cable can contain all frequencies. The individual power pairs and fiber cables will be labeled with both the cable AND frequency markings. See Figure 2-1 as one example. The fiber and copper counts are just a representative of one possible configuration. Other fiber and power count combinations are possible.

PROJECT INFORMATION

NETWORK VISION MBMTS LAUNCH

MALIBU POINT

SD54XC93I

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

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REVISED CONSTRUCTION

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LICENSEE:



SHEET TITLE:

CABLE COLOR CODING REQUIREMENTS

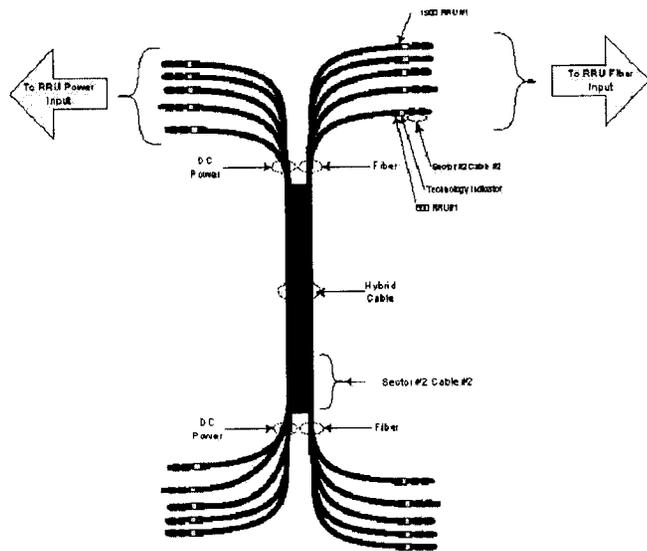
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A-11

REVISION:

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Figure 2-1: Hybrid Cabled Color Code Example



3. Appendix C - RRU and Combiner Cabling

Coax jumpers connecting between remote radio units, combiners, and antenna at the tower top will not use a color code labeling scheme. These jumpers will use an appropriate weather proof label on both ends near the connectors. The labeling scheme will be determined by the OEM installation team. Each label will uniquely identify each jumper/cable.

PROJECT INFORMATION:

NETWORK VISION NMBT-1A1UNJH

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

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SHEET TITLE:

CABLE COLOR CODING REQUIREMENTS

SHEET NUMBER:

A-12

REVISION:

1



PROJECT INFORMATION:

NETWORK VISION AMBIST AUN 11

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUED FOR:

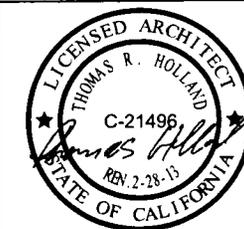
REVISED CONSTRUCTION

REVISIONS

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LICENSEE:



SHEET TITLE:

PLUMBING DIAGRAMS

SHEET NUMBER

REVISION

A-14

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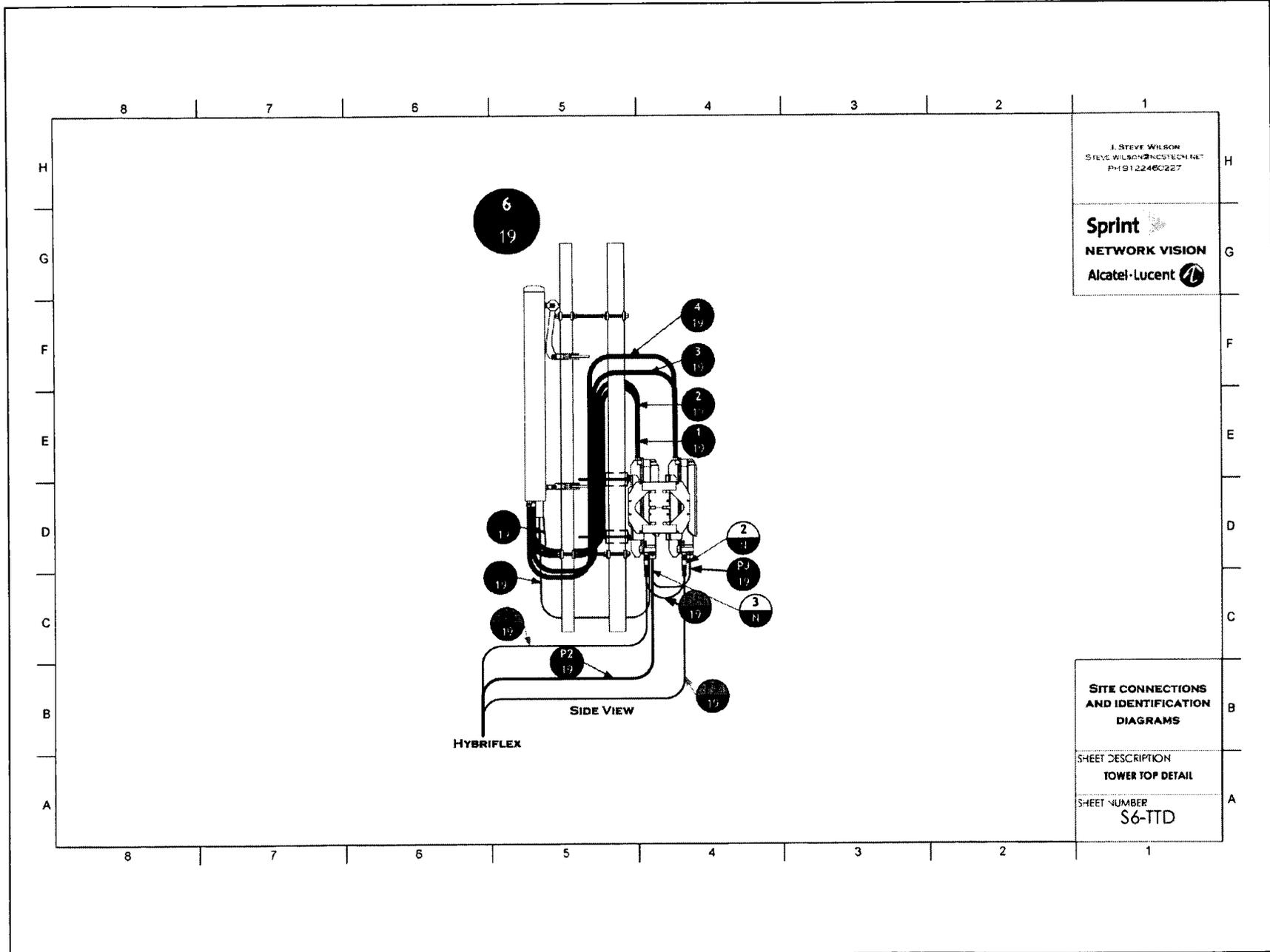
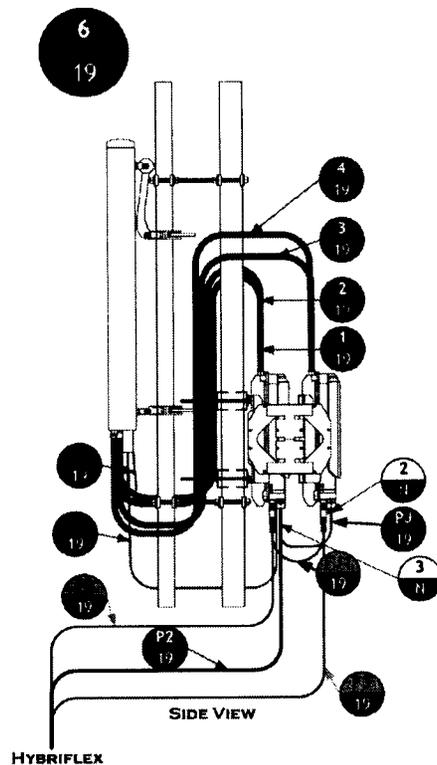
J. STEVE WILSON
STEVE.WILSON@NCSYSTEM.NET
PH: 619.224.6027

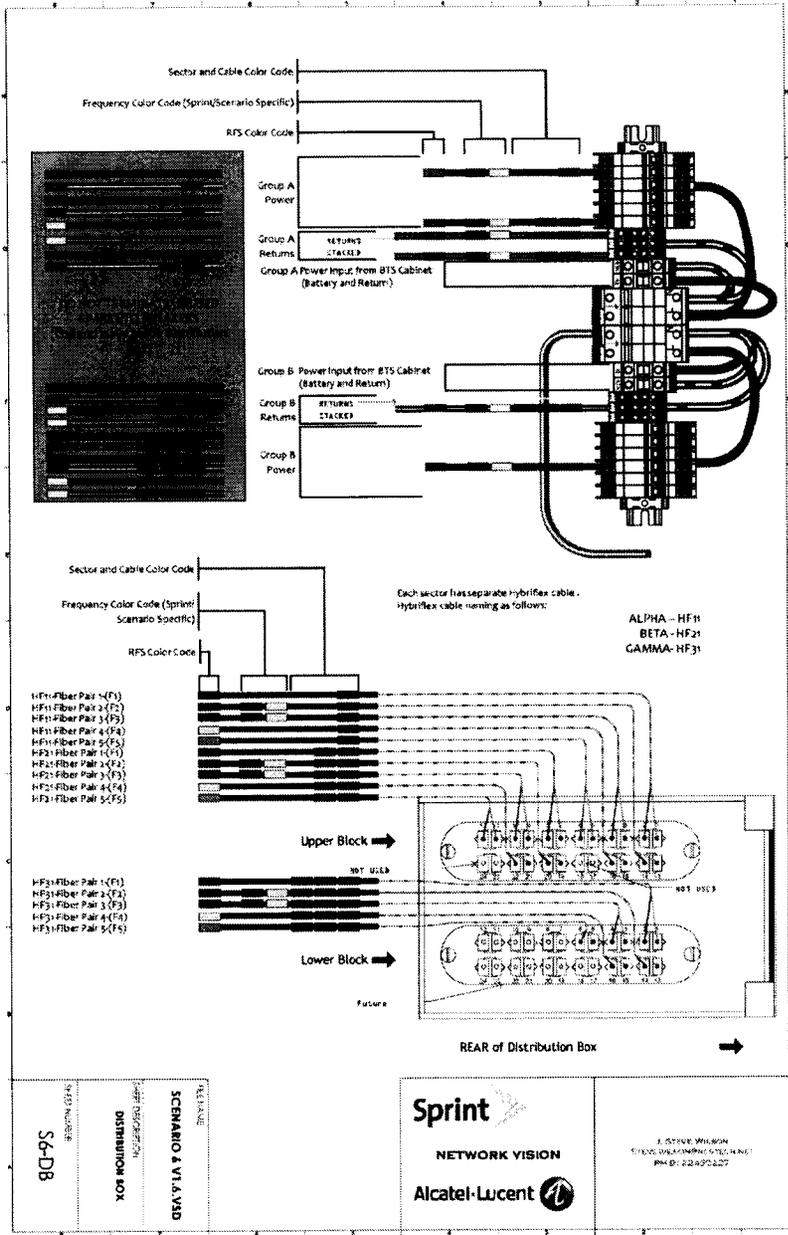


SITE CONNECTIONS AND IDENTIFICATION DIAGRAMS

SHEET DESCRIPTION
TOWER TOP DETAIL

SHEET NUMBER
S6-TTD





PROJECT INFORMATION:

NETWORK VISION AMBIS LAUNCH

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUED FOR:

REVISED CONSTRUCTION

REVISIONS				
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1	01/04/13	REVISED FOR CONSTRUCTION	AF	

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LICENSE:



SHEET TITLE:

PLUMBING DIAGRAMS

SHEET NUMBER:

REVISION:

A-15

1



PACIFIC TELECOM SERVICES, LLC
3100C AMBURY LOOP DRIVE
COSTA MESA, CA 92626
PHONE: (714) 230-5714

PROJECT INFORMATION

NETWORK VISION AMBUSTAIN II

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUED FOR:

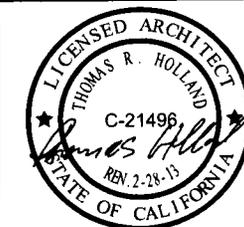
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B	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

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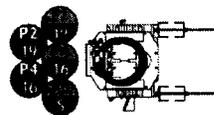
REVISION

A-17

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REVISIONS/CHANGES

12/16/11 V1.3
Initial release
01/19/12 V1.4 Draft
Removed revision blocks on drawings.
01/25/12 V1.5
Changed Distribution Box diagrams. Spares do not get terminated to breakers



SPARE FIBER AND POWER CABLE MANAGEMENT
1 SCALE: 1:15



8 Pin DIN MALE Connector with Pins 3-8 Shorted

2 ALARM CAP
SCALE: N.T.S.



3 DC-Y JUMPER
SCALE: N.T.S.

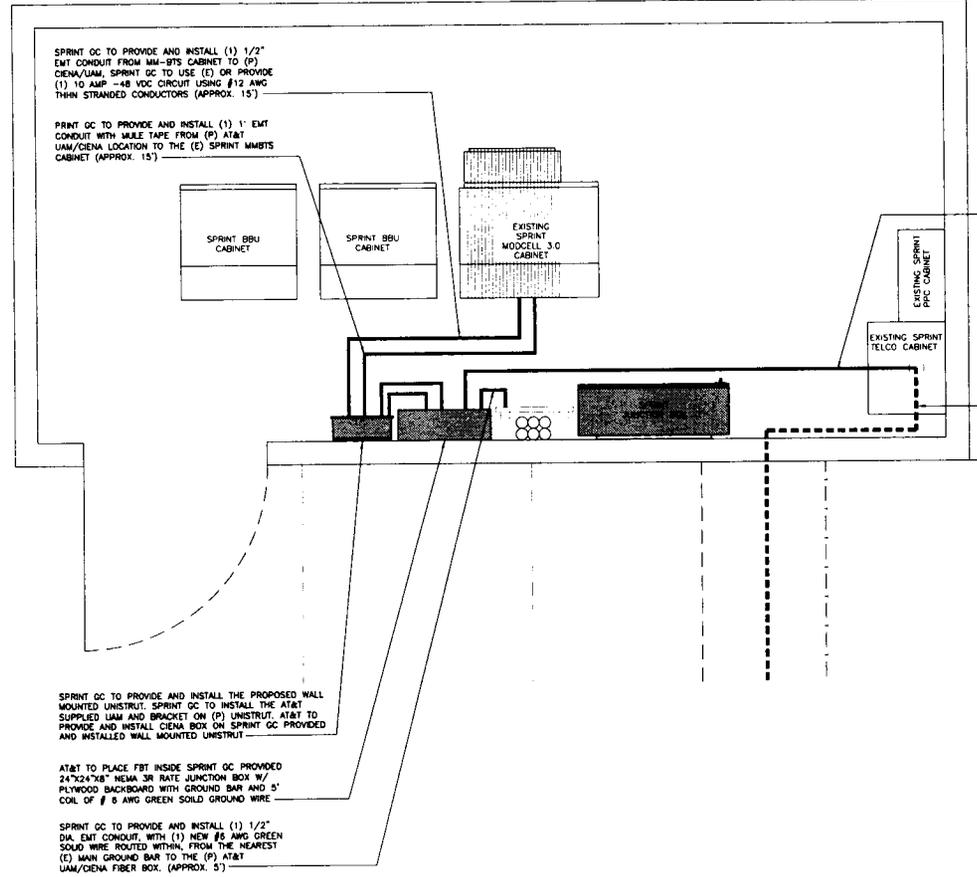
J. STEVE WILSON
STEVE.WILSON@NCSYSTEMS.NET
PH: 9122460227



SCENARIO 6 V1.6.VSD

SHEET DESCRIPTION
NOTES 1

SHEET NUMBER
S6-N1



SPRINT GC TO PROVIDE AND INSTALL (1) 1/2" EMT CONDUIT FROM MM-BTS CABINET TO (P) CIENA/UAM. SPRINT GC TO USE (E) OR PROVIDE (1) 10 AMP -48 VDC CIRCUIT USING #12 AWG THIN STRANDED CONDUCTORS (APPROX. 15')

SPRINT GC TO PROVIDE AND INSTALL (1) 1" EMT CONDUIT WITH MULE TAPE FROM (P) AT&T UAM/CIENA LOCATION TO THE (E) SPRINT MMBS CABINET (APPROX. 15')

SPRINT GC TO PROVIDE AND INSTALL (1) 1-1/4" EMT CONDUIT FROM TELCO CABINET TO (P) FBT (APPROX. 15') AND FROM (P) FBT TO (P) UAM (APPROX. 5')

HOP IS THE EXISTING PULLBOX @ THE CORNER OF SOUTH WEST AREA OF THE EXISTING ASPHALT ACCESS ROAD NEAR LAQUA POINT. SPRINT GC TO PROVIDE & INSTALL (1) 3/4" INNERDUCT WITH MULE TAPE FROM EXISTING PULLBOX TO 11'X17" HAND HOLD TO SPRINT LEASE AREA. (APPROX. 335').

SPRINT GC TO PROVIDE AND INSTALL THE PROPOSED WALL MOUNTED UNISTRUT. SPRINT GC TO INSTALL THE AT&T SUPPLIED UAM AND BRACKET ON (P) UNISTRUT. AT&T TO PROVIDE AND INSTALL CIENA BOX ON SPRINT GC PROVIDED AND INSTALLED WALL MOUNTED UNISTRUT.

AT&T TO PLACE FBT INSIDE SPRINT GC PROVIDED 24"X24"X8" NEMA 3R RATE JUNCTION BOX W/ PLYWOOD BACKBOARD WITH GROUND BAR AND 5' COIL OF # 6 AWG GREEN SOLID GROUND WIRE.

SPRINT GC TO PROVIDE AND INSTALL (1) 1/2" DIA. EMT CONDUIT WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN. FROM THE NEAREST (E) MAIN GROUND BAR TO THE (P) AT&T UAM/CIENA FIBER BOX. (APPROX. 5')

SCOPE OF WORK:

ACCESS NOTE: CALL WHEN YOU ARRIVE AT SITE TO (619) 670-2207. MULTIPLE LOCKS TETHERED TOGETHER-USE KEY. SHELTER COMBO 5247. TELCO BOX IS ALSO 5247.

AV. HOP/FIBER PATH: HOP IS THE EXISTING PULLBOX @ THE CORNER OF SOUTH WEST AREA OF THE EXISTING ASPHALT ACCESS ROAD NEAR LAQUA POINT. SPRINT GC TO PROVIDE & INSTALL (1) 3/4" INNERDUCT WITH MULE TAPE FROM EXISTING PULLBOX TO 11'X17" HAND HOLD TO SPRINT LEASE AREA. (APPROX. 335').

AT&T FIBER PATH: SPRINT GC TO PROVIDE AND INSTALL (1) 1-1/4" EMT CONDUIT FROM TELCO CABINET TO (P) FBT (APPROX. 15') AND FROM (P) FBT TO (P) UAM (APPROX. 5').

FBT LOCATION: AT&T TO PLACE FBT INSIDE SPRINT GC PROVIDED 24"X24"X8" NEMA 3R RATE JUNCTION BOX W/ PLYWOOD BACKBOARD WITH GROUND BAR AND 5' COIL OF # 6 AWG GREEN SOLID GROUND WIRE.

EQUIPMENT: SPRINT GC TO PROVIDE AND INSTALL THE PROPOSED WALL MOUNTED UNISTRUT. SPRINT GC TO INSTALL THE AT&T SUPPLIED UAM AND BRACKET ON (P) UNISTRUT. AT&T TO PROVIDE AND INSTALL CIENA BOX ON SPRINT GC PROVIDED AND INSTALLED WALL MOUNTED UNISTRUT.

POWER: SPRINT GC TO PROVIDE AND INSTALL (1) 1/2" EMT CONDUIT FROM MM-BTS CABINET TO (P) CIENA/UAM. SPRINT GC TO USE (E) OR PROVIDE (1) 10 AMP -48 VDC CIRCUIT USING #12 AWG THIN STRANDED CONDUCTORS (APPROX. 15').

GROUNDING: SPRINT GC TO PROVIDE AND INSTALL (1) 1/2" DIA. EMT CONDUIT WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN. FROM THE NEAREST (E) MAIN GROUND BAR TO THE (P) AT&T UAM/CIENA FIBER BOX. (APPROX. 5').

CUSTOMER FIBER PATH: SPRINT GC TO PROVIDE AND INSTALL (1) 1" EMT CONDUIT WITH MULE TAPE FROM (P) AT&T UAM/CIENA LOCATION TO THE (E) SPRINT MMBS CABINET (APPROX. 15').

At all new services & grounding trenches, provide "WARNING" tape at 12" below grade.

DIG ALERT
"CALL BEFORE YOU DIG"
1-800-227-2600
UTILITY NOTIFICATION CENTER OF SOUTHERN CALIFORNIA



PROJECT INFORMATION:

NETWORK ARCHITECTURE

MALIBU POINT

SLD54XC.931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

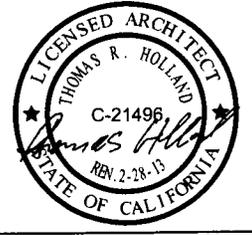
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REVISED CONSTRUCTION

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LIENSURE:



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FIBER PLAN

SHEET NUMBER:

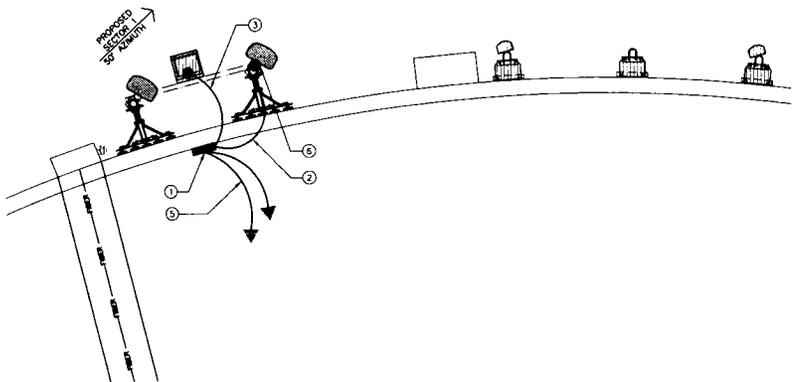
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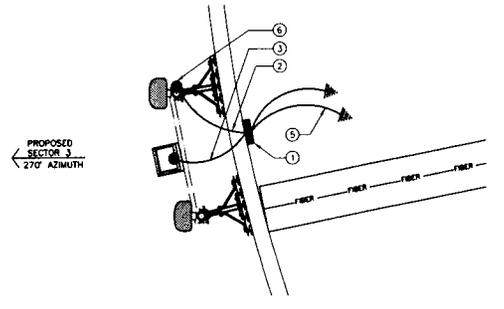
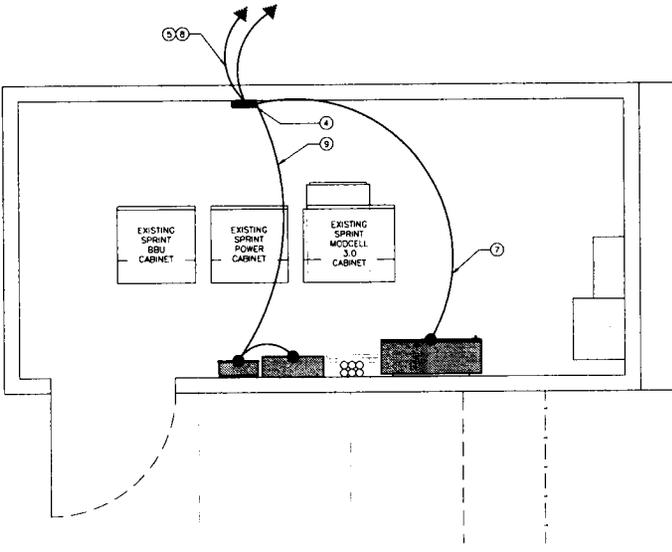
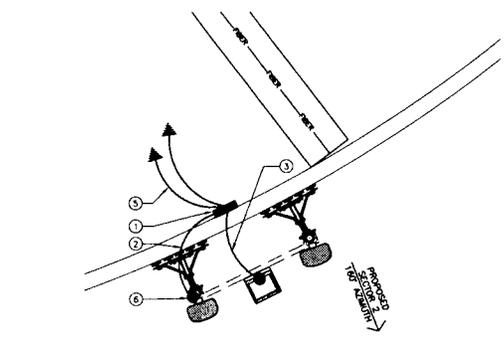
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24"X36" SCALE: 3/4" = 1'-0"
11"X17" SCALE: 3/8" = 1'-0"

FIBER PLAN | 1



NOTE:
 NETWORK VISION MMBS DEPLOYMENTS INSTALLED AT LEGACY CDMA OR IDEN SITES SHALL USE THE EXISTING COPPER GROUND BARS IF THEY ARE PRESENT. IF THE COPPER GROUND BARS HAVE BEEN STOLEN THEY SHALL BE REPLACED WITH THE STAINLESS STEEL BAR AFD00062 - MIN 010328 FOR MMBS OUTDOOR AND AFD00063 - MIN 010330 FOR LEGACY SHELTER CELL SITES



- GROUNDING KEY NOTES:**
- ANTENNA GROUND BUS BAR NEAR ANTENNA MOUNTS. SEE DETAIL 9/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 2/E-2 FOR GROUND WIRE CONNECTIONS.
 - #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUS BAR (TYP OF 3). SEE DETAIL 2/E-2
 - #6 AWG GROUND FROM RRH UNIT TO ANTENNA GROUND BUS BAR. SEE DETAIL 2/E-2
 - EXISTING GROUND BUS BAR NEAR EQUIPMENT. SEE DETAIL 9/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 2/E-2 FOR GROUND WIRE CONNECTIONS.
 - #6 AWG GROUND FROM EXISTING GROUND BUS BAR TO TIE INTO EXISTING GROUNDING SYSTEM (TYP OF (2) PLACES).
 - CAD WELD (TYP) SEE DETAIL 1/E-2
 - #6 AWG GROUND FROM FIBER JUNCTION BOX TO TIE INTO EXISTING GROUND BUS BAR. SEE DETAIL 2/E-2
 - ALL GROUND LEADS SHALL BE THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED (THHN).
 - #6 AWG GROUND FROM CIENA FIBER BOX TO JUNCTION BOX FROM JUNCTION BOX TO TIE INTO EXISTING GROUND BUS BAR. SEE DETAIL 2/E-2

GROUNDING NOTES & LEGEND

- GENERAL GROUNDING NOTES**
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS
 - GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES, AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURERS PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAR SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MET'S PRACTICES
 - SOME GROUND CONNECTIONS SHALL BE CADWELDED. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
 - CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY SPRINT WIRELESS, LLC REPRESENTATIVE.
 - REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS. ELECTRICAL CONTRACTOR SHALL OBTAIN REVIEW, PROVIDE TRAINING AND FULLY IMPLEMENT ALL GUIDELINES & REQUIREMENTS ASSOCIATED WITH SPRINT STANDARD GROUNDING METHODS FOR ROOF TOP INSTALLATIONS, INCLUDING METHOD FOR CONNECTIVITY FROM ROOF TOP MGB TO BUILDING GROUND SYSTEM (SPRINT STANDARD GROUNDING METHODS MOST RECENT REVISIONS SHALL BE REFERENCED)
 - ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED SPRINT MOBILITY REPRESENTATIVE. PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING
 - NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE CONDITIONS

GROUNDING ROD NOTES

- ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED. A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 6 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- 2 POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUNDING TESTS. TEST SHALL BE PERFORMED WHILE THE COLLECTOR/ROSE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊗	COPPER GROUND ROD	⊗	TEST WELL
●	CADWELDED CONNECTION	—	GROUND BAR
■	SIDE SPLICE CADWELD	—	GROUNDING ROD
↔	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM		

24"x36" SCALE: 1/2" = 1'-0"
 11"x17" SCALE: 1/4" = 1'-0"

SCHEMATIC GROUNDING PLAN

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



PROJECT INFORMATION:

NETWORK VISION MMBS-LAUNCH II

MALIBU POINT
 SD54XC931

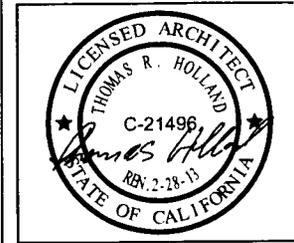
651 POINT BARROW DRIVE
 CHULA VISTA, CA 91911
 SAN DIEGO COUNTY

ISSUE DATE: 01/04/13

INSPECTOR: REVISED CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLD
0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE: SCHEMATIC GROUNDING PLAN

SHEET NUMBER: E-1



PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

MALIBU POINT

SD54XC931

651 POINT BARROW DRIVE
CHULA VISTA, CA 91911
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUED FOR:

REVISED CONSTRUCTION

REVISIONS

REV	DATE	DESCRIPTION	INITIAL
A	04/23/12	ISSUED FOR 90% CD REVIEW	RLD
0	08/29/12	ISSUED FOR 100% CONSTRUCTION	RLD
1	01/04/13	REVISED FOR CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

ENCLOSURE:



SHEET TITLE:

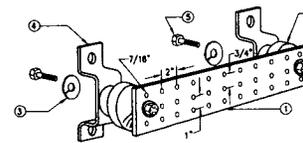
GROUNDING DETAILS

SHEET NUMBER:

E-2

REVISION:

1



NOTE

1. GALVANIZED STEEL GROUND BAR. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT. NO. A-6056 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT. NO. 3012-1 OR APPROVED EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOT USED

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

10

GROUND BAR (IF REQUIRED)

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

9

NOT USED

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

8

NOT USED

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

7

NOT USED

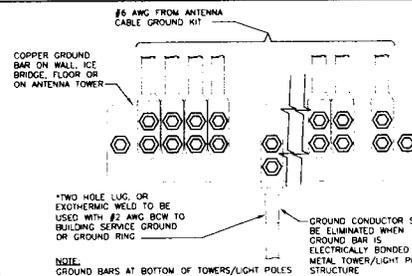
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

6

ELECTRICAL NOTES

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

5



GROUND WIRE INSTALLATION

NOTE:
GROUND BARS AT BOTTOM OF TOWERS/LIGHT POLES SHALL ONLY USE EXOTHERMIC WELDS.

GROUND CONDUCTOR SHALL BE ELIMINATED WHEN GROUND BAR IS ELECTRICALLY BONDED TO METAL TOWER/LIGHT POLE STRUCTURE

NOT USED

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

4

NOT USED

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

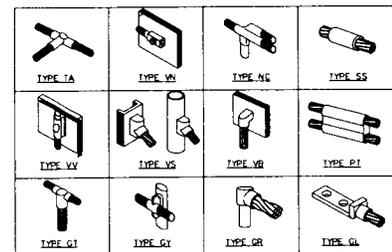
3

NOT USED

24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

2

CADWELD GROUNDING CONNECTIONS



24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

1

FIRST AMENDMENT TO LEASE

This First Amendment to Lease (the "First Amendment") is made this day of ____, 2013, ("Effective Date") by and between Otay Water District ("OTAY") and Sprint PCS Assets, L.L.C., a Delaware limited liability company ("TENANT"), with reference to the facts set forth in the Recitals below:

RECITALS

- A. OTAY is the owner of that certain real property located 12887 Weighorst Way, El Cajon, California a Reservoir Site formerly known as 12885 Jamacha Boulevard, El Cajon, California (the "Property").
- B. OTAY and TENANT are parties to that certain Lease dated August 24, 2000 (the "Lease" or "Agreement") pursuant to which TENANT is leasing from OTAY land at the Property, together with the right of access to and from the nearest public right-of-way and the right to install utilities (collectively, the "Premises").
- C. Tenant has requested a modification to the type and mounting of the Improvements currently on the Premises (the "New Improvements").
- D. OTAY and TENANT have agreed to amend the Agreement to memorialize the addition of the New Improvements to the Premises.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. **New Improvements.** OTAY consents to TENANT construction and installation of new communications facilities, as more particularly described and depicted on Exhibit "B-1" which is attached hereto and made a part hereof. The parties acknowledge and agree that the attached Exhibit "B-1" is intended to supplement the Exhibit "B" attached to the Agreement.
2. **Governmental Approvals.** Any required permits for the use or operation of the New Improvements shall be obtained by TENANT at TENANT's sole expense. Furthermore, it is understood and agreed that TENANT's ability to install the New Improvements is contingent upon its obtaining all of the certificates, permits and other approvals that may be required by any Federal, State or Local authorities which will permit TENANT to install and operate the New Improvements within the Premises. OTAY agrees, at no expense to OTAY, to reasonably cooperate with TENANT in making application for and obtaining all governmental licenses, permits and approvals that may be required for TENANT'S intended use of the Premises.
3. **Amended Provisions.** The following provisions shall be amended as follows:

5.1 Tenant agrees to pay all costs and expenses incurred by Otay in connection with the Facilities and this Agreement, including negotiation and processing hereof, plan checking and inspection of Tenant facilities, costs of inspection, repairs or replacement of any Otay facilities affected or damaged, and all other costs or expenses of Otay attributable to the matters herein contemplated, plus a reasonable amount for Otay's overhead costs in connection therewith.

a. **Deposit.** Tenant has made a deposit, concurrent with its application, and has agreed to make any additional deposits required in connection with Otay's review of the application, negotiation of this Agreement, including legal review, site visits, review of drawings and other costs relating such matters incurred by Otay up to the time this Agreement is executed. Tenant forfeits any claim to such deposits except to the extent Otay determines after this Agreement is executed that amounts in excess of the District's costs and expenses have been paid. Any such excess amounts may, at the sole discretion of the District, be credited toward administrative fees or any other costs then due by Tenant, if any. If no amounts are due, excess deposits will be reimbursed to Tenant.

b. **Administrative Fees.** Administrative fees may be charged at Otay's discretion during the Term to recover costs and expenses incurred by Otay, including but not limited to attorneys and consultant's fees, review, processing of Tenant's conditional use permits, inspection of the Facilities during construction and other related costs if any, in connection with any Tenant activity that requires Otay staff to spend time in supervision, inspection, investigation or other review; such costs include but are not limited to any amendments to this Agreement, any default or any failure of Tenant to secure or renew any permit, approval, license or easement and any investigation Otay deems reasonably required in connection with the Premises or the Facilities, including without limitation any investigation of a potential contamination of any portion of the Property due to any Tenant activity or improvement.

c. **Security Deposit.** Concurrently upon execution of this Agreement, Tenant shall pay to Otay a sum equal to two months' rent as a deposit ("Security Deposit") to secure the Tenant's performance of the covenants contained herein. Tenant shall maintain the Security Deposit balance equal to the amount established herein over the life of the agreement. If Otay applies any portion of the Security Deposit, Tenant shall within 30 days after demand by Otay, deposit an amount sufficient to restore the Security Deposit to its original amount. No part of the Security Deposit is to be considered as an advance payment of rent, including last months' rent, nor is it to be used or refunded prior to the leased premises being permanently and totally vacated by the Tenant. After the Tenant has vacated the premises, Otay shall furnish Tenant with an itemized written statement of the basis for, and the amount of, any of the security deposit retained by Otay. Otay may withhold that portion of Tenant's security deposit necessary (a) to remedy any default by Tenant in the payment of rent or any other provision

of this Agreement, (b) to repair damages to the premises or any expense, loss, or damage that Otay may suffer because of Tenant's default, (c) to restore the premises to meet Otay's standards, (d) any amount that Otay may incur or become obligated to spend in exercising Otay's rights under this Agreement or available at law. The unused portion of this deposit shall be returned to the Tenant without interest no later than 60 days after termination of this Agreement.

Tenant waives the provisions of California Civil Code §1950.7, and all other provisions of law now in force or that become in force after the date of execution of this Agreement, that provide that Otay may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of accrued Rent, to repair damage caused by Tenant, or to clean the Premises. Otay and Tenant agree that Otay may, in addition, claim those sums reasonably necessary to compensate Otay for any other foreseeable or unforeseeable loss or damage caused by the act or omission of Tenant or Tenant's officers, agents, employees, Independent contractors, or invitees, including future rent payments.

d. None of the deposits or other payment of costs or administrative fees constitutes or shall be considered Rent (defined below).

5.2 Beginning on the Commencement Date, Tenant shall pay Otay as rent the sum of \$2,000.00 per month ("Rent") payable on the first day of each month in advance. If the Commencement Date is prior to the fifteenth day of the month of commencement, the full month's Rent will be due on the Commencement Date. If the Commencement Date is on or after the fifteenth day of the month of commencement, payment of Rent will begin the first day of the following month.

Tenant may make Rent payments up to 5 days past due date without penalty, unless continual late payments for two consecutive months occur. A fee shall be imposed after the 5th day and shall be 20% of the amount currently due. Failure to pay Rent within ten (10) calendar days of the first of the month shall be an Event of Default as provided by Section 13.2. Failure to pay Rent on the due date for more than two (2) consecutive months or four (4) times over any twelve (12) month period shall be a non-curable Event of Default without the necessity of any notice or cure period. At District's sole discretion, immediately following such a non-curable Event of Default, District may terminate the Agreement and seek any remedy available by this Agreement or at law. If Tenant tenders a check, which is dishonored by a banking institution, then the Tenant shall tender cash or cashier's check only for all future payments, which shall continue until such time as written consent is obtained from Otay. In addition, Tenant shall be liable in the sum of \$25 for each dishonored check that is returned to Otay.

a. Rent Increases. The Rent shall be increased on each calendar anniversary of the Commencement Date at a rate of four percent (4%) per annum or the annual Consumer Price Index change ("CPI"), whichever is greater. CPI shall be the average percentage increases in the consumer price index published by the United States Department of Labor, Bureau of Labor Statistics (1982-1984 = 100)

(the "CPI") for "All Items – All Urban Consumers" for the San Diego Metropolitan Statistical Area.

3b. Section 7; Improvements, and Section 8; Installation of Equipment shall be replaced with the following:

7. Installation and Maintenance of Improvements. Tenant is authorized to install, maintain and operate on the Premises only the Facilities described and depicted on Exhibit B; provided that all permits and zoning approvals shall have first been obtained by Tenant and shall at all times while the Facilities operate remain in full force and effect.

a. Installation of the Improvements. Tenant's design and installation of all portions of the Facilities shall be done, at no cost to Otay, according to plans approved by Otay, provided that such approval shall not be unreasonably withheld. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay of the method of attachment at Otay's sole discretion. If such Facilities are to be attached or mounted to a water tank, Tenant shall use an installation method such as a magnetic mount or other, non-destructive alternative. The Tenant shall be responsible for painting its antennas and/or equipment to match Otay's facility. Otay will provide Tenant with specifications regarding paint type, color and application method to accomplish this requirement. Painting/coating submittals shall be provided to Otay by the Tenant prior to receiving permission to begin painting. Otay may specify a camouflage design if not inconsistent with requirements of the city or county within which the Facilities are located. These camouflage designs may include but are not limited to faux palm trees, pine trees, cypress trees, broadleaf trees, and flag poles, unipoles, and other camouflaged antenna and antenna supports.

b. Record Drawings. Within thirty (30) days after completion of the Facilities, Tenant shall provide Otay with "record" (also called "as-built") drawings of the Facilities showing and identifying all the equipment and improvements installed on the Premises. Said drawings shall be accompanied by a complete and detailed inventory of all equipment, including without limitation all personal property and antennas located on the Premises and any such property of Tenant located in the Easement. No property of Tenant other than such identified property shall be located on the Premises or the Property at any time. Upon acceptance by Otay of Tenant's record drawings, in form and content satisfactory to Otay, such drawings shall replace and supersede any similar drawings contained in any exhibit attached hereto.

c. Alterations. Tenant shall not alter or change its Improvements in a material manner without the prior approval of Otay, such approval not to be unreasonably withheld. "Material" refers to any physical change that could affect the building structure, antenna support, interconnecting facilities or its appearance

or any change that requires access to the Premises for installation of new equipment, removal of old equipment, trenching or digging or that could disrupt Otay's workplace or communications in any way or any change that requires a renewed or amended easement, permit or approval. All of Tenant's construction and installation work shall be performed at Tenant's sole cost and expense in a good and workmanlike manner and fully compliant with all government permit and code requirements. Tenant shall have the right to remove all Improvements it installs at its sole expense on or before the expiration or termination of this Agreement, but must at such time restore the ground and surface underlying the removed Improvements to its pre-installation condition, wear and tear excepted, and to the reasonable satisfaction of Otay.

d. Alterations to Improvements / Additional Space. If, at any time during the Term, Tenant requests permission from Otay to add improvements requiring construction to its then existing Improvements, the then current Administrative Fees shall be paid to Otay before any such changes are negotiated. In addition, if the requested Tenant improvements include additional area, a new agreement or, at Otay's discretion, an amendment for the additional lease space must be executed prior to start of construction and Tenant shall comply with Otay's requirements then in effect, including payment of additional rent, if any, for the additional area.

e. Permits and Compliance with Applicable Laws. During the Term, and prior to commencing any construction or installation of any improvements or equipment, as applicable, Tenant shall obtain all necessary approvals, permits and access easements or licenses, all of which shall be maintained in full force and effect at all times in accordance with all applicable laws, rules and regulations.

i. Prior to commencing construction, Tenant shall deliver to Otay copies of all executed licenses, approvals and permits required by local, state or federal agency in connection with the Improvements, which permits shall be attached hereto as Exhibit B.

ii. From time to time, as required by law or regulation in connection with the normal operation of the Improvements or as needed due to improvements or alterations to the same, Tenant shall provide Otay with updated permits, licenses and/or approvals, including without limitation written evidence, satisfactory to Otay, of all FCC approvals and other governmental permits and approvals, including but not limited to compliance with the FCC's electromagnetic radiation rules, set forth at 47 C.F.R. § 1.1307 et seq. and FCC Office of Engineering and Technology Bulletin 65, each as hereafter amended.

iii. Otay agrees, at no expense to Otay, to reasonably cooperate with Tenant in making application for and obtaining all governmental licenses,

permits and approvals that may be required for Tenant's intended use of the Premises.

f. Utilities. Tenant shall be authorized to install utilities for the Premises and the Improvements at Tenant's expense and to improve the present utilities on or near the Premises (including, but not limited to the installation of an emergency back-up power) subject to Otay's approval of the location, route, design and capacity, which approval shall not be unreasonably withheld. Tenant shall fully and promptly pay for all utilities furnished to the Premises for the use, operation and maintenance of Tenant's Improvements. If inadequate electrical power is available to provide for the Improvements, or additional electrical power is required to be installed on the Premises by Otay in its sole discretion, such installation shall be at Tenant's sole expense. The location, route, design and capacity of the additional power facility shall be approved by Otay, which shall not be unreasonably withheld.

g. Repair of Otay's Improvements/Systems. Any damage done to the Property or to any Otay improvement, facility or system in connection with the construction, installation, maintenance, repair, improvement, replacement or operation of the Improvements shall be repaired or replaced immediately at Tenant's expense and to Otay's reasonable satisfaction by Otay staff or contractors approved by Otay. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay. Tenant shall pay all costs and expenses in relation to maintaining the integrity of Otay's facilities, improvements and systems affected in any way by Tenant's Improvements or its use of the Property or the Premises.

h. Maintenance and Repair. At all time during the Term, Tenant shall maintain the Premises and the Improvements in a manner acceptable to Otay. Tenant's use of its Improvements shall not at any time or in any way adversely impact, impede or interfere with Otay's access to, use or operation of, its improvements, equipment or systems.

i. Liens. Tenant shall not encumber or allow the Premises or the Property to be encumbered in any manner other than as expressly authorized herein.

j. Security. Tenant recognizes and agrees that the Premises and the Reservoir Site are a sensitive area and that Otay's operations and services are highly sensitive and regulated. Tenant shall provide for the proper supervision of all Tenant Parties assigned or allowed by Tenant to enter and do work at the Premises. Tenant also agrees, holding Otay harmless for any cost or expense, to comply with any and all security measures instituted by Otay from time to time.

8. Maintenance, Repair or Replacement of Otay's Improvements. At any time while this Agreement remains in effect, Otay may, at its option and upon One Hundred Eighty (180) days prior written notice to Tenant, remove or cause

Tenant to remove all or any portion of its Facilities at Tenant's expense, in order for Otay to paint, repair, or make replacements to any or all its improvements on the Premises (the "Maintenance or Replacement Work"), as deemed necessary by Otay in its sole discretion. Tenant agrees to fully cooperate with Otay's efforts in connection with any Maintenance or Replacement Work, including without limitation timely, and at Tenant's cost, removing and re-installing any portion of the Facilities, as requested by Otay.

a. Temporary Facilities. During the Maintenance or Replacement Work, Tenant may, holding Otay harmless from any cost or expense, install temporary antennas on the Premises subject to Otay's approval of the location and type of replacement facilities, such approval shall not be unreasonably withheld or delayed. Once the Maintenance or Replacement Work is completed by Otay, Tenant agrees to promptly dismantle any temporary facilities and to relocate the facilities to their original location or to any other location approved by Otay. All work related to the removal of any portion of the Facilities, installation of temporary facilities, dismantling, relocation to their original location and any related work, shall be done at Tenant's sole cost and expense and in good and workmanlike manner.

b. Repair of damage. Tenant shall repair any damage caused by Tenant in connection with the installation, maintenance, operation or removal of any temporary facilities or the Facilities, and Tenant shall restore any distributed portions of the Property to their condition immediately prior to the installation of the temporary facilities.

c. Otay's option to remove temporary facilities. If any temporary facilities are not removed within sixty (60) days from the date the Maintenance or Replacement Work is completed, Otay shall have the right, but not the duty, to remove the temporary facilities at Tenant's cost and expense.

d. Painting of the Facilities. If the Maintenance or Replacement Work includes the painting, or any work affecting the surface of Otay's improvements, the Tenant shall be responsible for repainting or performing other surface treatment of its antennas and equipment to match Otay's. Otay will provide specifications to the Tenant regarding the treatment, paint type, color and application method to accomplish this requirement. The Tenant shall be required to obtain approval of specifications from Otay prior to commencing work on this requirement. Subject to Otay's prior written consent, Tenant may substitute an alternate treatment, paint type and application method if it reasonably determines that Otay's selection will adversely affect or otherwise degrade Tenant's wireless signal from the Reservoir Site.

3c. Section 9; Co-Location shall be replaced with the following:

9.1. Co-Location by Otay. Tenant agrees that Otay may enter into leases or other types of agreements with other communication carriers, wireless communications carriers and other utilities for use of any portion of the "Reservoir Site" as long as said leases do not result in unreasonable interference with Tenant's use of or access to the Premises. Tenant shall reasonably cooperate with Otay's efforts in this regard including, at Otay's request, the relocation of, or changes to, the Facilities; provided that any alterations or relocation needed to accommodate the new carrier or utility shall be performed at the expense of Otay or the new carrier or utility.

9.2. Co-Location by Tenant - Subleasing/Encumbrance. Tenant shall not sub-lease or sub-license or otherwise encumber the Premises or any portion of the Facilities without Otay's prior written consent, which may be granted or denied at Otay's sole discretion. Any sub-lease or other encumbrance shall require an amendment to this Agreement and shall specify the terms and conditions, including making provision for rent and increases thereto for the sub-lease or other encumbrance.

3d. Section 13; Termination shall be replaced with the following:

13.1 Termination.

(a) This Agreement may be terminated by Tenant without further liability if:

(i) Tenant delivers to Otay 30-day written notice at any time prior to commencing any work at the Premises in connection with the installation of any Facilities, for any reason or no reason;

(ii) Tenant gives Otay sixty (60) days' notice of Tenant's determination that a governmental or non-governmental license, permit, consent, approval, easement or waiver necessary to enable Tenant to construct, install or operate the Facilities cannot be obtained or renewed at reasonable expense or in reasonable time period for wireless sites at water reservoirs in metropolitan areas within San Diego County. If this notice is given, Tenant must immediately cease any and all transmissions through and from the Premises and shall promptly remove, within a period of time not to exceed sixty (60) days, any and all Tenant's personal property and improvements from the Property. This Agreement and any related easements shall automatically expire upon the earlier of removal of the Tenant's improvements or the 60th day from the notice; excepting only Tenant's indemnities and liabilities hereunder, including the obligation to pay Rent for any holdover period. Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated.

(iii) Tenant determines at any time after the Commencement Date that the Premises are not appropriate or suitable for its operations for economic, environmental or technological reasons, including without limitation, any ruling or directive of the FCC or other governmental or regulatory agency, or problems with signal strength or interference not encompassed by subsection (iv) below; provided that the right to terminate under this subsection (iii) is exercisable only upon payment by Tenant, as a termination fee, of the lesser of twelve monthly installments of rent or the balance of the rent due for the then current Initial Term, Extension Term or Additional Term, as applicable; and Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated;

(iv) Otay commits a default under this Agreement and fails to cure pursuant to Section 13.2, below;

(v) The Property or the Premises are totally or partially destroyed by fire or other casualty (not caused by Tenant) so as to hinder Tenant's normal operations and Otay does not provide to Tenant within thirty (30) days after the casualty occurs a suitable temporary relocation site for Tenant's facility pending repair and restoration of the Premises; or

(vi) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

(b) This Agreement may be terminated by Otay without further liability if:

(i) Tenant commits a default under this Agreement and fails to cure such default pursuant to Section 13.2, below;

(ii) Otay determines that continuing the Agreement or continuing to allow the Tenant to construct, install, maintain or operate the Facilities in any way violates a law, rule or regulation; or

(iii) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

13.2 Default.

a. Event of Default. The parties covenant and agree that a default or breach of this Agreement (an "Event of Default") shall occur and be deemed to exist if, after notice and opportunity to cure as provided below:

(i) Tenant shall default in the payment of Rent, or any other amounts due Otay hereunder, and said default shall continue for ten (10) business days after the same becomes due; or

(ii) Either party shall default in the performance or observance of any other covenant or condition of this Agreement to be performed or observed if such failure persists for a period of thirty (30) days after the non-defaulting party provides written notice of the default to the defaulting party.

b. Rights upon Default. Upon the occurrence of an Event of Default, in addition to any other rights or remedies available to the non-defaulting party under any law, the non-defaulting party shall have the right to terminate the Agreement.

c. Cure Rights. An Event of Default shall not exist unless written notice has been given in accordance with this Agreement, and the defaulting party has had the opportunity to cure as provided herein. The defaulting party shall cure the alleged default within the manner provided herein; provided however, that if the nature of an alleged default is such that it cannot reasonably be cured within such thirty (30) day period, the defaulting party shall not be in breach of this Agreement if it diligently commences a cure within such period, and thereafter diligently proceeds with the actions necessary to complete such cure.

3e. Section 17; Indemnity, shall be replaced with the following:

Tenant specifically agrees that it shall hold harmless, defend (with counsel, and if needed experts, reasonably acceptable to Otay), indemnify and otherwise protect Otay and each Otay Party, from and against all claims, suits or actions of any kind and description relating to (a) Tenant's obligations under this Agreement and any amendment hereto or (b) Tenant or Tenant Parties use of, and access to, the Premises, the Facilities or the Property. These obligations extend to and include without limitation any and all costs and expenses (including attorney's fees and court costs) incurred by Otay or the Otay Parties in connection with (i) damage to property (including the Premises, the Property or any personal property of Otay or any third party), (ii) any action or proceeding (including an enforcement action or criminal proceeding) related in any way to any permit (governmental or otherwise), approval or easement obtained by or required of Tenant in connection with this Agreement or the Facilities; and (iii) personal injury or death, except to the extent that such claims, suits or actions directly arise from the gross negligence or willful misconduct of Otay or an Otay Party. This indemnification clause in no way limits any other specific indemnities given by Tenant under other provisions of this Agreement.

Nothing contained herein shall prohibit Otay, in its sole discretion, from participating in the defense of any demand, claim, action, proceeding, or litigation. In no event shall Otay's participation in the defense of any demand

claim, action, proceeding, or litigation affect the obligations imposed upon Tenant herein.

This and all other Tenant indemnities shall survive the termination of this Agreement and shall remain in effect for as long as the underlying claim or action remains viable.

3f. Section 19; Assignment, shall be replaced with the following:

Tenant shall not assign this Agreement or any portion of its rights or obligations hereunder without Otay's prior written consent, except to an affiliated parent entity, subsidiary, purchaser of at least 50% of the aggregate of the assets of Tenant ("assets" means and includes without limitation any and all real, personal or financial property or thing owned or controlled by Tenant or over which Tenant has an interest) or holder of Tenant's FCC license.

a. If during the Term hereof, Tenant requests the written consent of Otay to any assignment, and upon demonstration satisfactory to Otay of the proposed assignee's legal, financial, and technical qualifications to assume all of the Tenant's duties and obligations herein, Otay's consent thereto shall not unreasonably be withheld. Consent to one assignment shall not be deemed consent to any subsequent assignment.

b. Any attempted assignment not permitted under the first paragraph of this Section 19, without Otay's prior consent as set forth in Section 19(a), shall be void and, at Otay's option, shall constitute a termination of this Agreement for which a termination fee as described in Section 13.1.a(iii) shall be immediately due.

c. Any assignment of this Agreement shall require an executed "Assignment of Lease" whether or not the Consent of Otay is required pursuant to this section 19 or any other provision of this Agreement. A sample form of the "Assignment of Lease" is attached to this Agreement as Exhibit F which may be amended or modified in Otay's sole discretion.

4. **Continued Effect.** Except as specifically modified by this First Amendment, all of the terms and conditions of the Agreement shall remain in full force and effect. In the event of a conflict between any term or provision of the Agreement and this First Amendment, the terms and provisions of this First Amendment shall control. In addition, except as otherwise stated in this First Amendment, all initially capitalized terms will have the same respective defined meaning stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this First Amendment.

5. **Administrative Fees.** TENANT shall pay OTAY the amount of \$4,500 within (30) days of the date of execution of this Amendment by OTAY and TENANT.

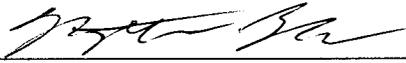
6. **Current Rent.** The current monthly Rent amount at the Effective Date of this First Amendment is \$2,734.54.

IN WITNESS WHEREOF, OTAY and TENANT have caused this First Amendment to be executed by each party's duly authorized representative effective as of the date first above written.

OTAY WATER DISTRICT:

Sprint PCS Assets, L.L.C.,
a Delaware limited liability company, :

By: _____
Name: Mark Watton
Title: General Manager
Date: _____

By: 
Name: Matthew Bell
Title: Manager Real Estate
Date: 5/29/2013

Approved as to Form:

By: _____
OWD General Counsel

Approved as to Form:

By: _____
Its: _____

Exhibit B-1

NEW IMPROVEMENTS

BATTERY INFORMATION /NOTES:

BATTERY MFG: EAST PENN MANUFACTURING
 MODEL NO. 12AVR-145L
 ELECTROLYTE CONTENT PER BATTERY: 2.17 GALLONS
 ELECTROLYTE HAZARD CLASSIFICATION PER TO C.F.C. (8.7 N SULFURIC ACID): CORROSIVE
 NO. OF BATTERIES TO BE INSTALLED: 6
 TOTAL ELECTROLYTE CONTAINED ON SITE (7.2 x 6 = 43.2): 26 GALLONS MAX

A. QUANTITIES OF 100 GAL. OR LESS ARE EXEMPT PER TABLE 3 OF THE 2010 IBC.
 B. SINGLE VESSEL CAPACITIES OF 20 GAL. OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GAL. ARE EXEMPT PER ARTICLE 84 OF THE 2010 C.F.C.
 C. QUANTITIES LESS THAN 30 GAL. ARE EXEMPT FROM C.F.C. ARTICLE 80, AND SHALL NOT REQUIRE PERMIT.
 D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2010 C.F.C. ARTICLE 84, AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50.

FIRE DEPARTMENT NOTES:

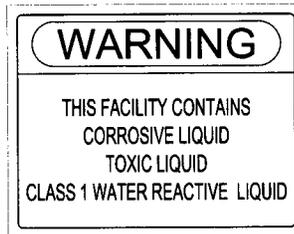
A. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
 B. A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE.
 C. A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
 D. A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
 TOXIC LIQUID
 CORROSIVE LIQUID
 OTHER HEALTH HAZARD LIQUID

E. AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
 F. BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
 G. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD (UFC) AND PLACEMENT IS SUBJECT TO APPROVAL OF THE FIRE INSPECTOR.
 H. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
 I. EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
 J. ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.
 K. REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
 L. REQUIRED SIGNAGE SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN (SEE SIGNAGE).

NOT USED

3

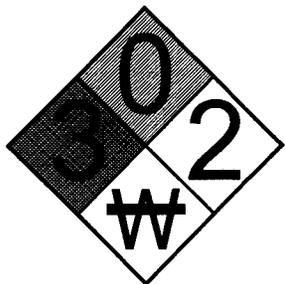


GENERAL NOTES

1

HAZARDOUS MATERIAL SIGNAGE

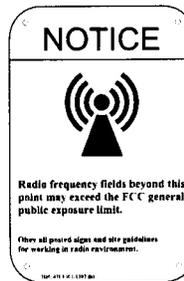
4



REQUIRED NFPA SIGNAGE

IN CASE OF EMERGENCY
CALL
1-818-756-9674
 SITE NUMBER: SD34XC549
 SITE NAME: BLUE TANK (7 O)

EMERGENCY CONTACT SIGNAGE



2

RF SIGNAGE

5

SITE IDENTIFICATION SIGNAGE



PLANS PREPARED BY:



SAN DIEGO MARKET OFFICE
 5473 KEARNY VILLA RD. STE. 300
 SAN DIEGO, CA 92123

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

BLUE TANK (7 O)

SD34XC549

12885 WIEGHORST WAY
 EL CAJON, CA 92021

ISSUE DATE:

04/12/2013

ISSUED FOR:

100% FINAL CD

REVISIONS

REV.	DATE	DESCRIPTION	BY
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LICENSURE:

SHEET TITLE:

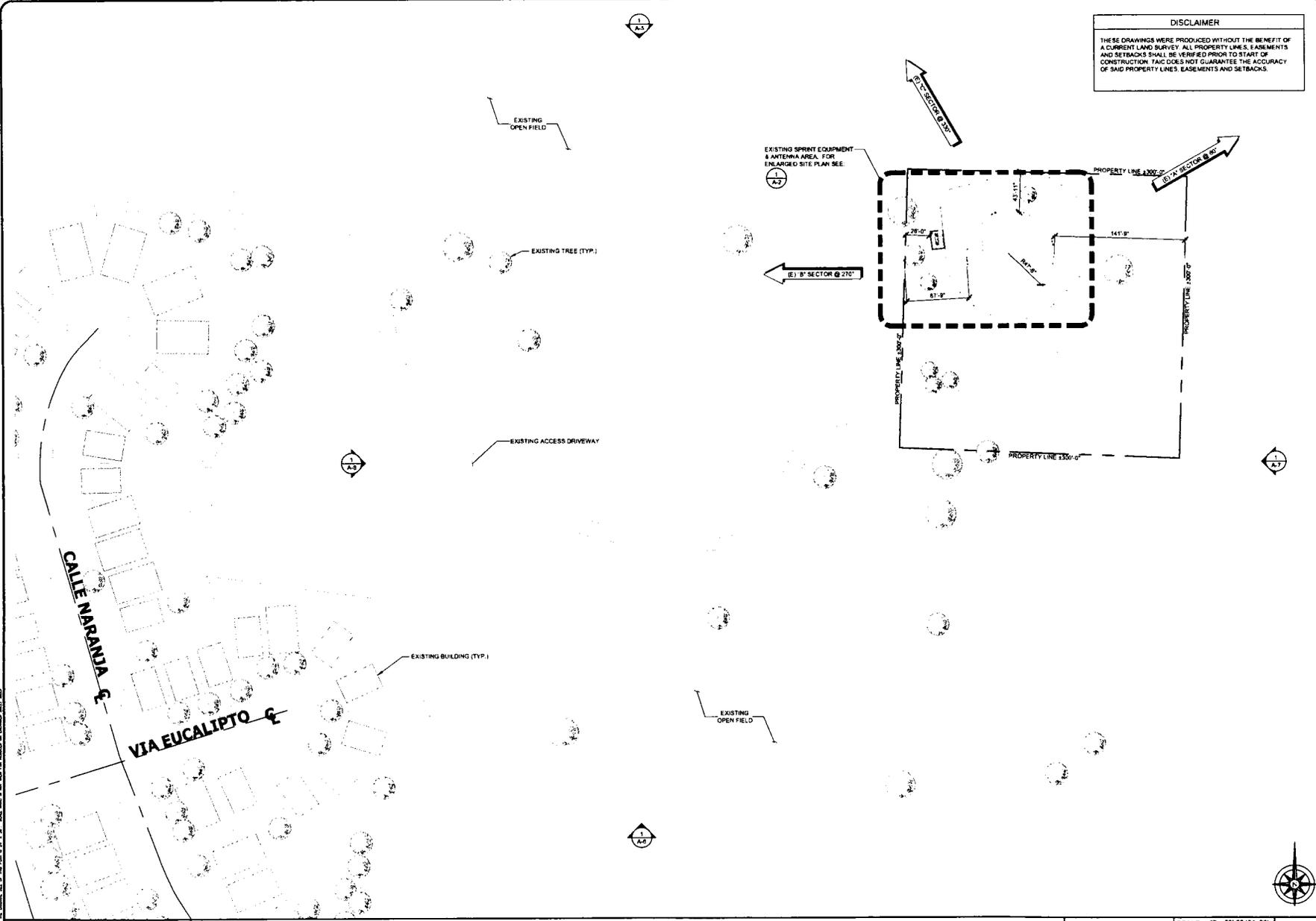
SIGNAGE & NOTES

SHEET NUMBER:

REVISION:

T-3

A



DISCLAIMER
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Alcatel-Lucent
 1805 SCRANTON RD. SUITE 400
 SAN DIEGO, CA 92121

PLANS PREPARED BY:
Technology Associates
SAN DIEGO MARKET OFFICE
 5473 KEARNY VILLA RD. STE. 300
 SAN DIEGO, CA 92123

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BLUE TANK (7 0)
 SD34XC549
 12885 WIEGHORST WAY
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LICENSURE:

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER: **A-1** **REVISION:** **A**

OVERALL SITE PLAN

50' 0 25' 50' **SCALE:** 1" = 50'-0" (24x36)
 (OR) 1/2" = 50'-0" (11x17) **1**

DISCLAIMER

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1905 SCRANTON RD. SUITE 400
SAN DIEGO, CA 92121

PLANS PREPARED BY:



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SAN DIEGO, CA 92123

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NETWORK VISION MMBTS LAUNCH
BLUE TANK (70)

SD34XC549
12885 WIEGHORST WAY
EL CAJON, CA 92021

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LICENSURE:



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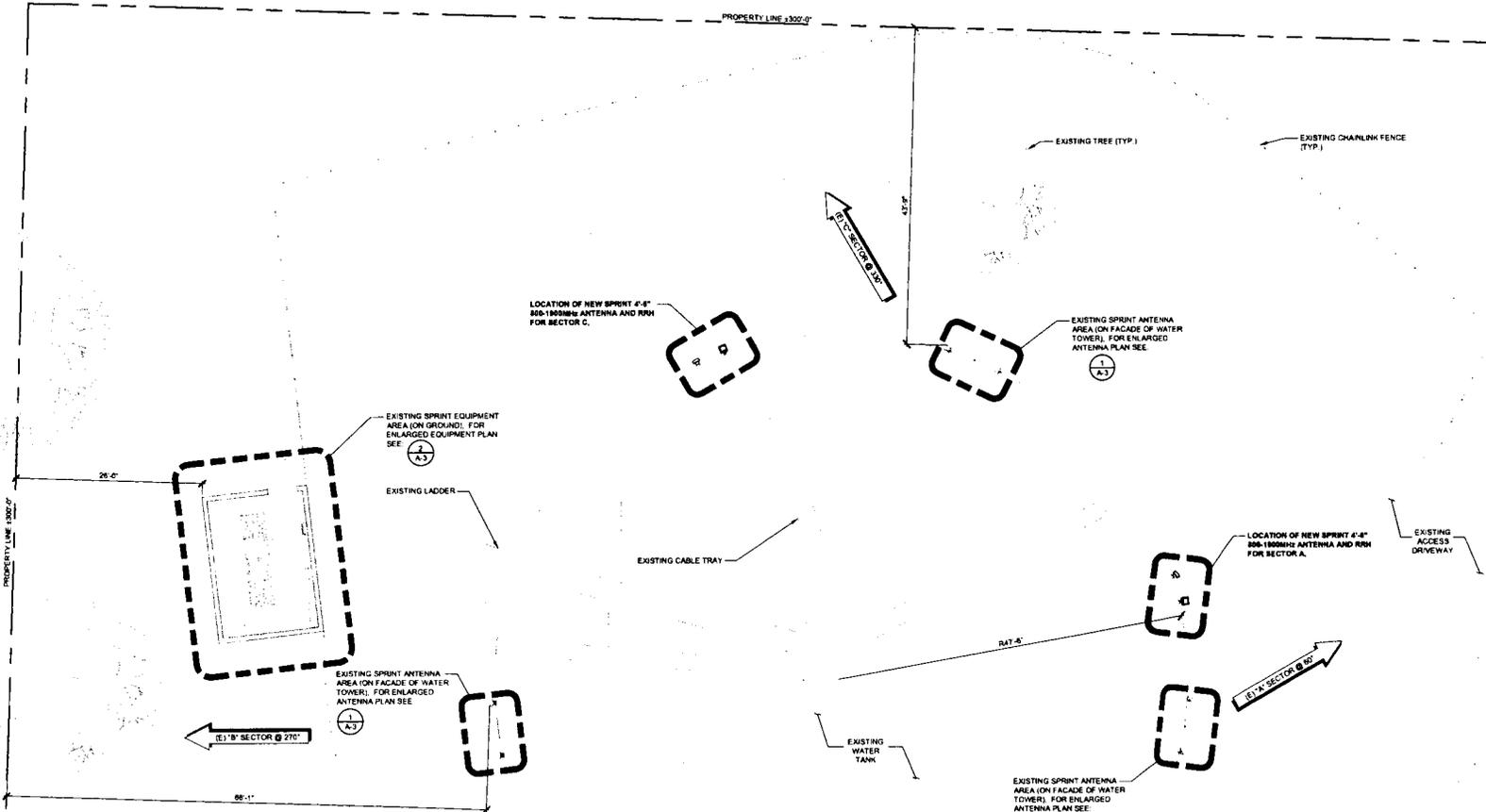
ENLARGED SITE PLAN

SHEET NUMBER:

A-2

REVISION:

A



ENLARGED SITE PLAN

SCALE: 1/8" = 1'-0" (24x38)
OR: 1/16" = 1'-0" (11x17)



1



Alcatel-Lucent
 9805 SCRANTON RD. SUITE 400
 SAN DIEGO, CA 92121

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Technology Associates
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 SAN DIEGO, CA 92123

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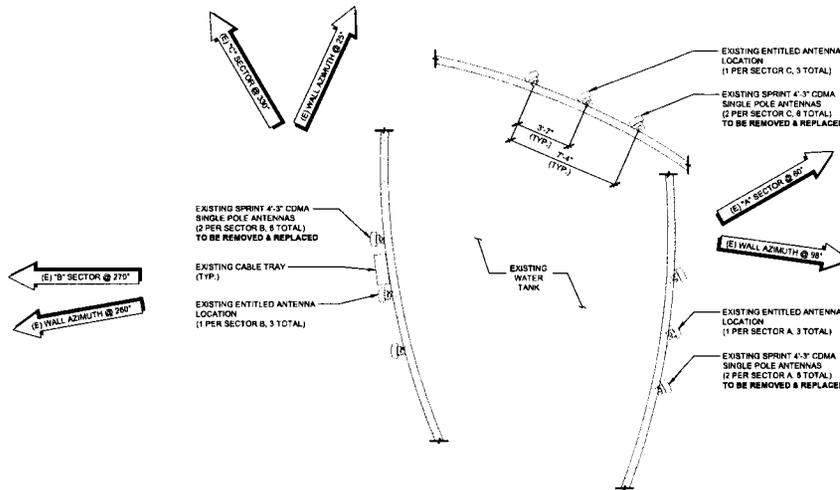
PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

BLUE TANK (7 0)

SD34XC549

12885 WIEGHORST WAY
 EL CAJON, CA 92021



EXISTING ANTENNA PLAN

0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)
 (OR) 1/8" = 1'-0" (11x17)

1

NOTE:
 NO PROPOSED CHANGES TO EQUIPMENT AREA.

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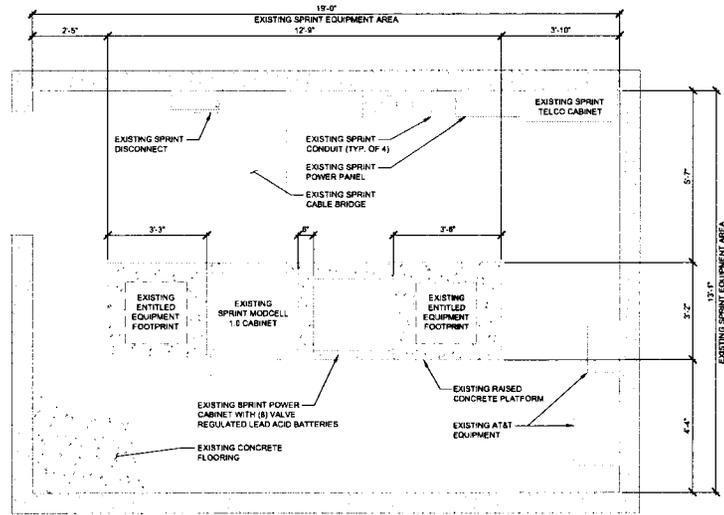
EXISTING ANTENNA & EQUIPMENT PLANS

SHEET NUMBER:

A-3

REVISION:

A

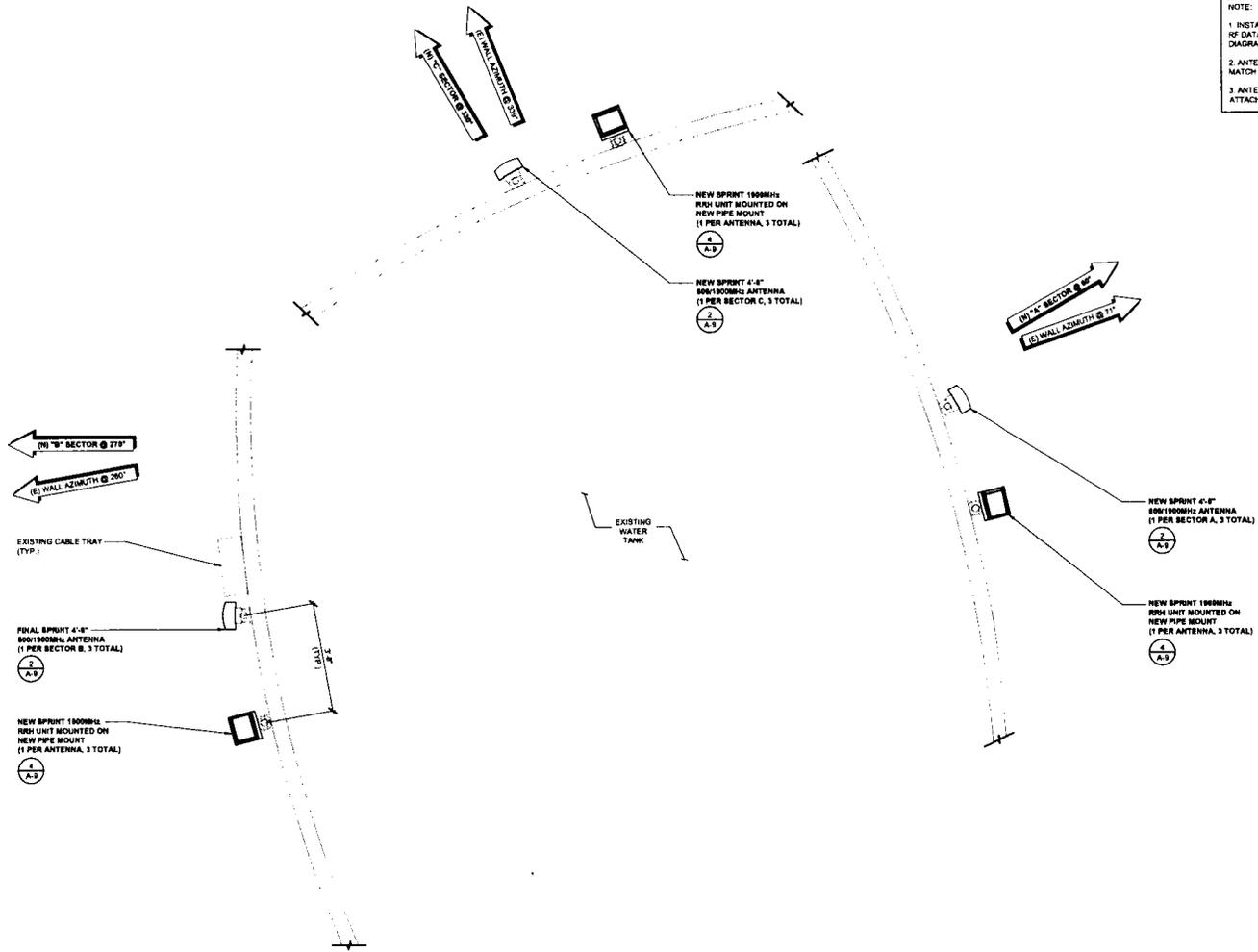


EXISTING EQUIPMENT PLAN

0 6" 1' 2' SCALE: 1/2" = 1'-0" (24x36)
 (OR) 1/4" = 1'-0" (11x17)

2





NOTE:
 1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING / WIRING DIAGRAMS PRIOR TO INSTALLATION.
 2. ANTENNAS & RRHS TO BE PAINTED TO MATCH EXISTING WATER TANK.
 3. ANTENNAS & CABLE TRAYS TO BE ATTACHED USING MAGNETS

PH "B" SECTOR @ 270°
 (1) WALL AZIMUTH @ 260°

EXISTING CABLE TRAY (TYP.)

FINAL SPRINT 4.4" 800/1800MHz ANTENNA (1 PER SECTOR B, 3 TOTAL)

NEW SPRINT 1800MHz RRH UNIT MOUNTED ON NEW PIPE MOUNT (1 PER ANTENNA, 3 TOTAL)

EXISTING WATER TANK

NEW SPRINT 1800MHz RRH UNIT MOUNTED ON NEW PIPE MOUNT (1 PER ANTENNA, 3 TOTAL)

NEW SPRINT 4.4" 800/1800MHz ANTENNA (1 PER SECTOR C, 3 TOTAL)

NEW SPRINT 4.4" 800/1800MHz ANTENNA (1 PER SECTOR A, 3 TOTAL)

NEW SPRINT 1800MHz RRH UNIT MOUNTED ON NEW PIPE MOUNT (1 PER ANTENNA, 3 TOTAL)

COAX SCHEDULE				
	SECTOR A	SECTOR B	SECTOR C	SECTOR D
1 1/2" HYBRIFLEX	± 200'	± 185'	± 200'	N/A
1/2" COAX JUMPER	± 10'	± 10'	± 10'	N/A

FINAL ANTENNA PLAN

SCALE: 1/2" = 1'-0" (24x38)
 (OR) 1/4" = 1'-0" (11x17)



Alcatel-Lucent
 9605 SCRANTON RD. SUITE 400
 SAN DIEGO, CA 92121

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NETWORK VISION MMBTS LAUNCH

BLUE TANK (70)

SD34XC549

12885 WIEGHORST WAY
 EL CAJON, CA 92021

ISSUE DATE:

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LICENSURE:

SHEET TITLE:

FINAL ANTENNA PLAN

SHEET NUMBER:

A-4

REVISION:

A



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BLUE TANK (7 0)
 SD34XC549
 12885 WIEGHORST WAY
 EL CAJON, CA 92021

ISSUE DATE:
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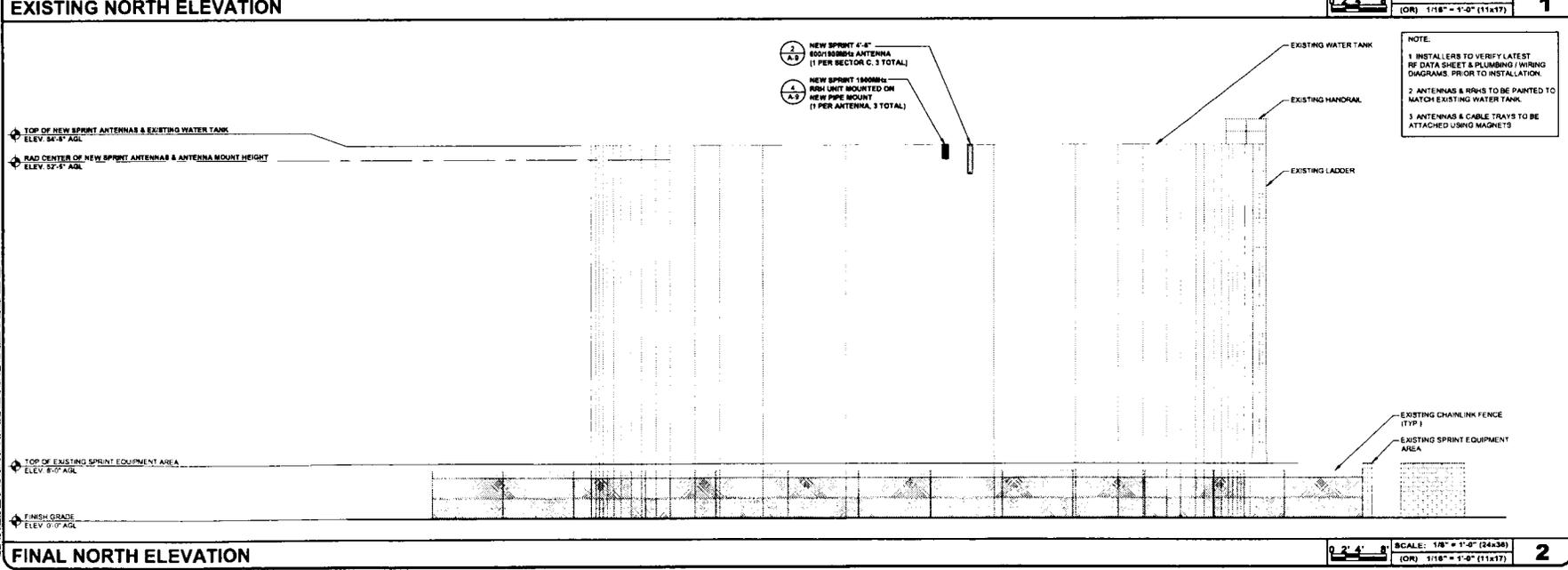
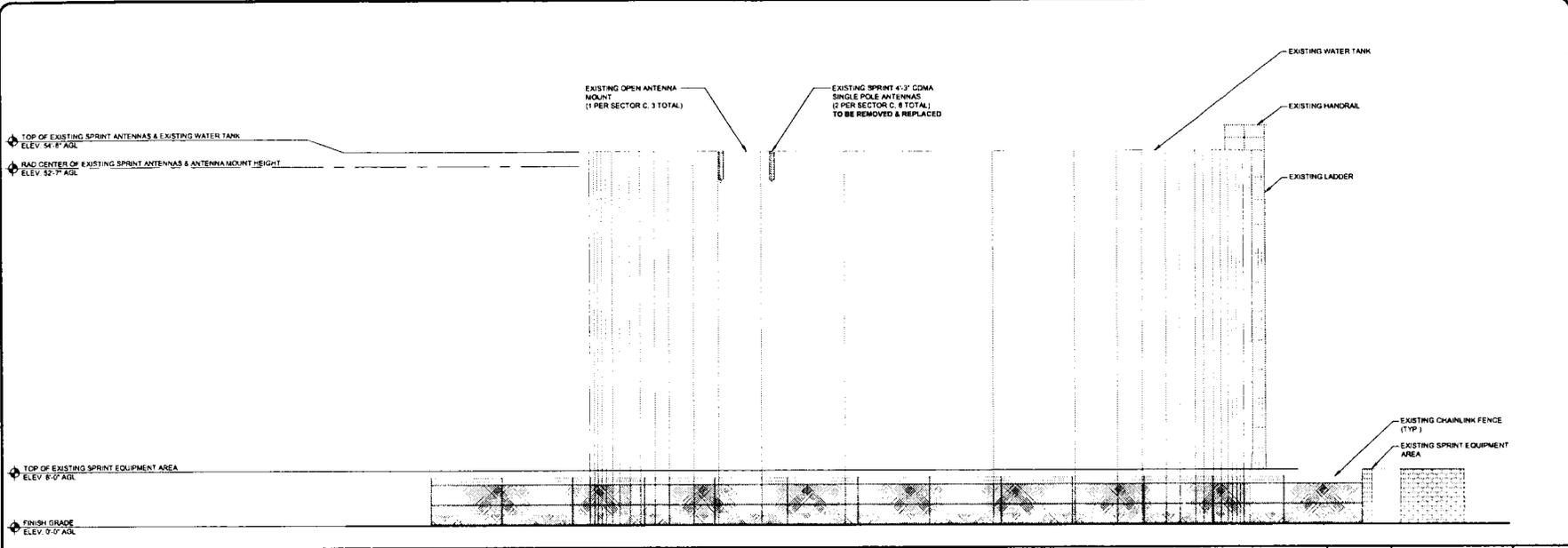
REVISIONS

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LICENSURE:

SHEET TITLE:
NORTH ELEVATIONS

SHEET NUMBER: **A-5** REVISION: **A**





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 12885 WIEGHORST WAY
 EL CAJON, CA 92021

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LICENSURE:

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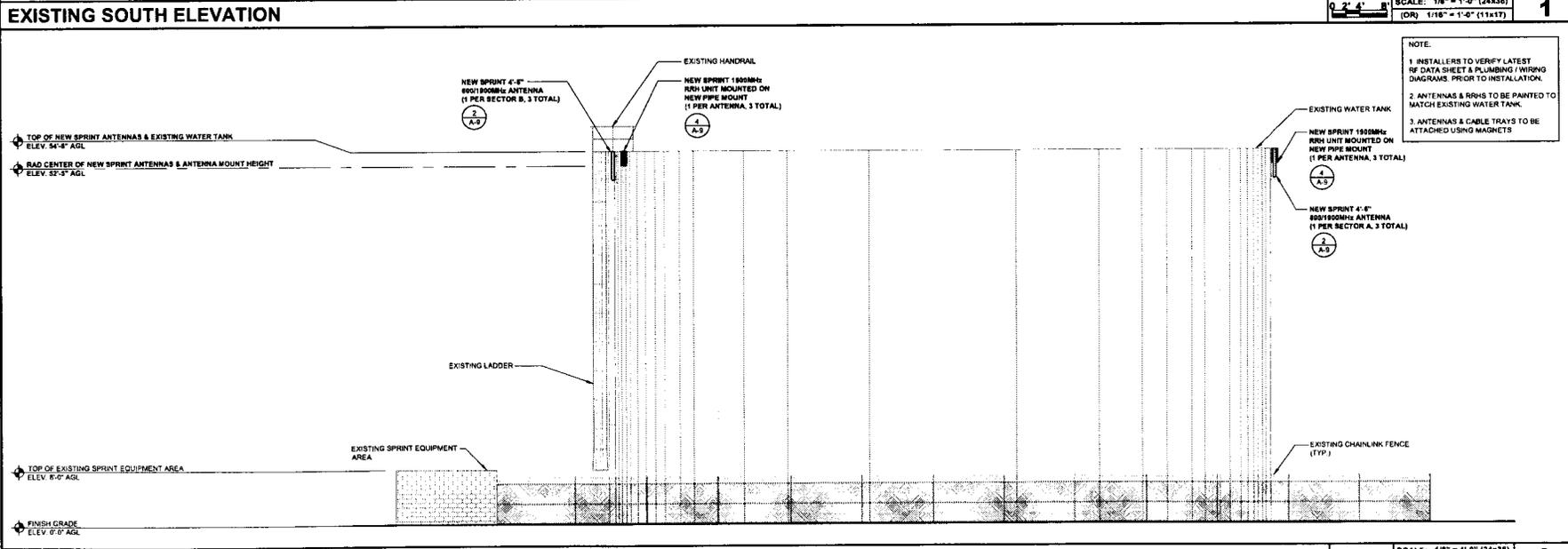
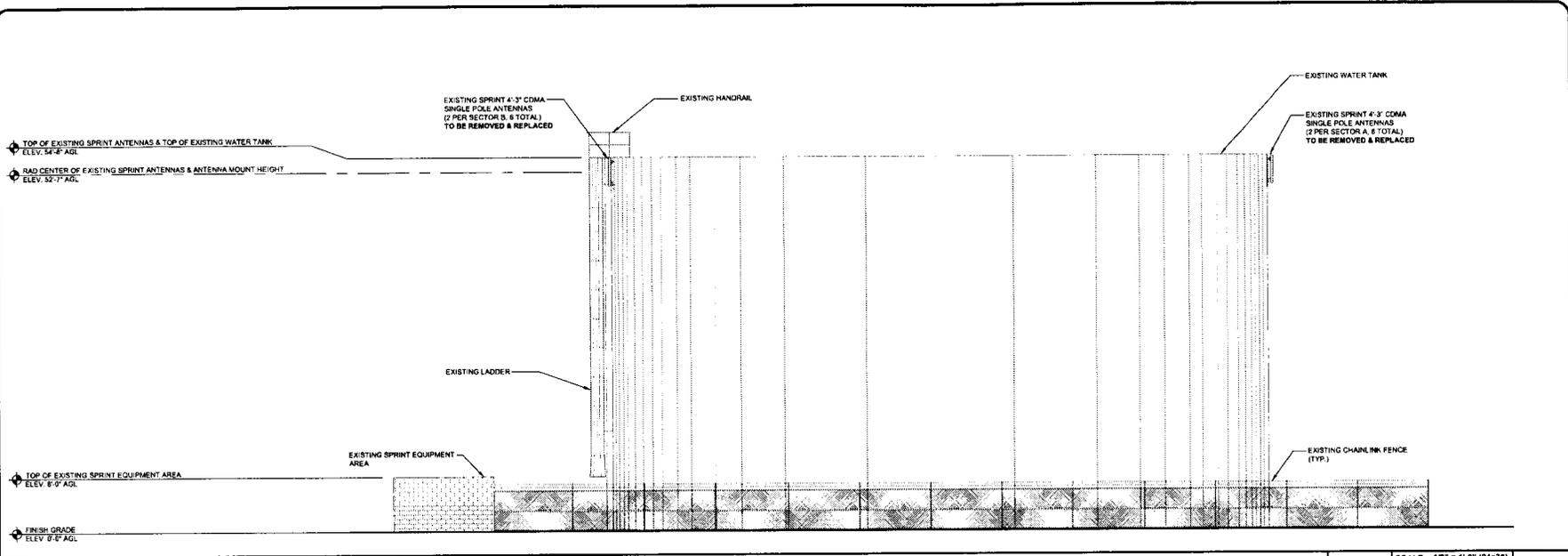
SOUTH ELEVATIONS

SHEET NUMBER:

A-6

REVISION:

A



NOTE:
 1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING / WIRING DIAGRAMS PRIOR TO INSTALLATION.
 2. ANTENNAS & RRHS TO BE PAINTED TO MATCH EXISTING WATER TANK.
 3. ANTENNAS & CABLE TRAYS TO BE ATTACHED USING MAGNETS.



Alcatel-Lucent
 9805 SCRANTON RD. SUITE 400
 SAN DIEGO, CA 92121

PLANS PREPARED BY:

Technology Associates
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BLUE TANK (70)

SD34XC549

12885 WIEGHORST WAY
 EL CAJON, CA 92021

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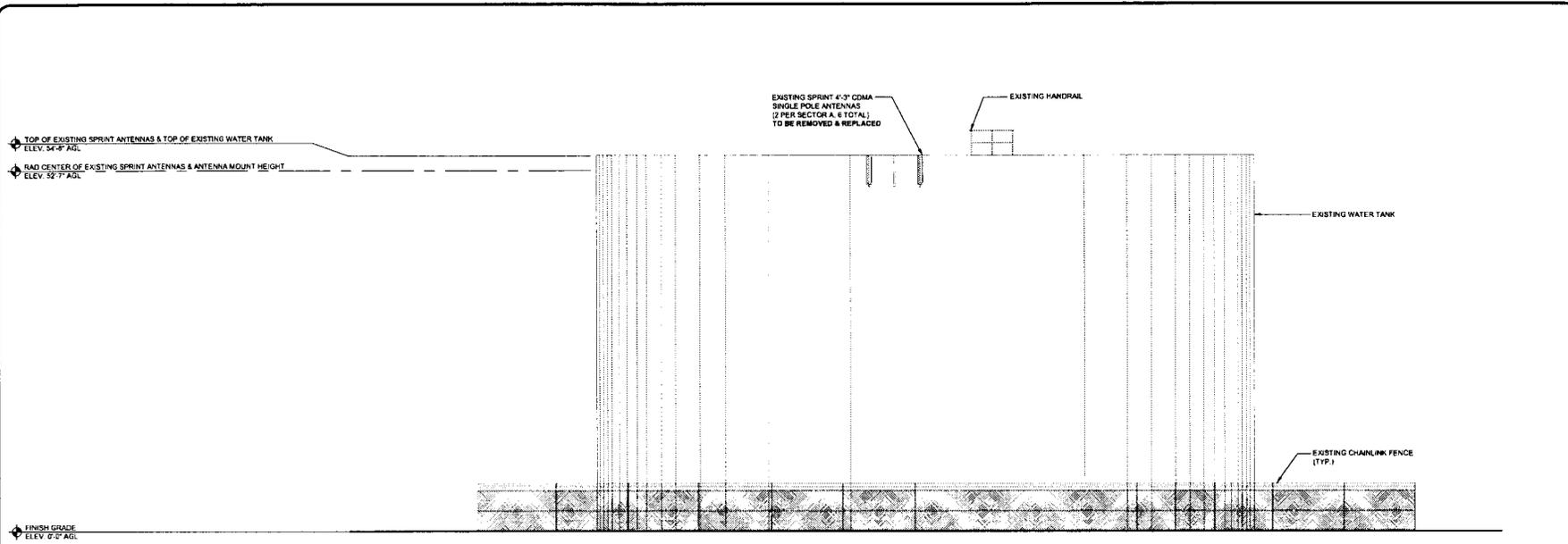
EAST ELEVATIONS

SHEET NUMBER:

A-7

REVISION:

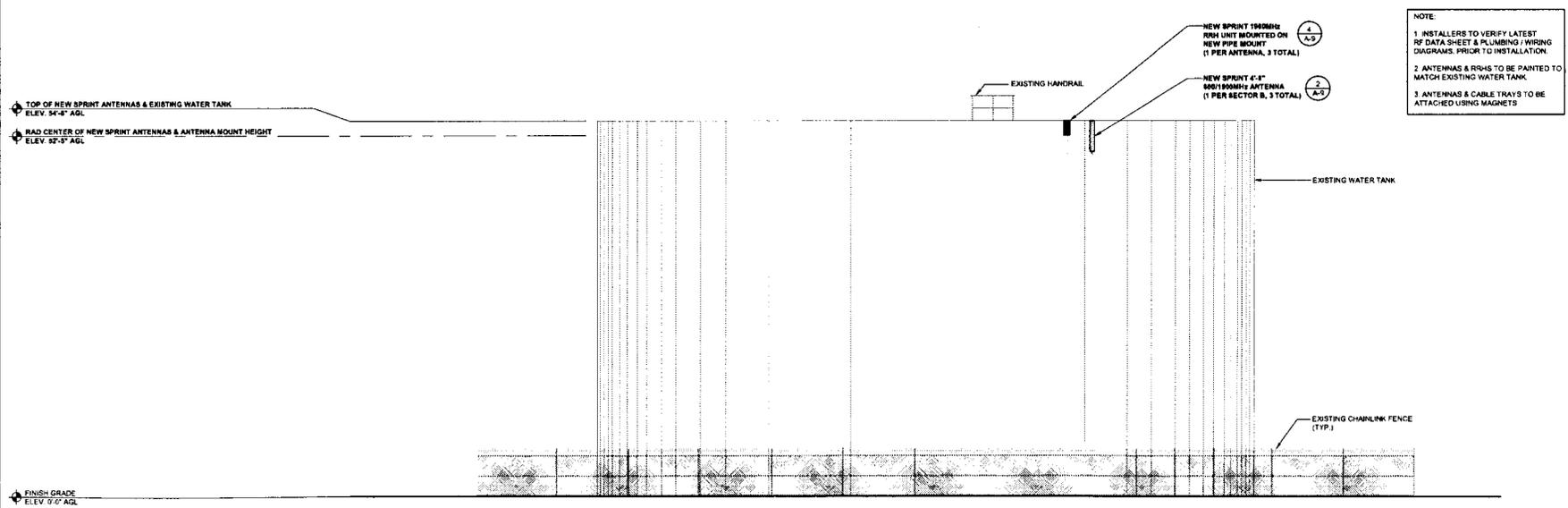
A



EXISTING EAST ELEVATION

SCALE: 1/8" = 1'-0" (24x36)
 (OR) 1/16" = 1'-0" (11x17)

1



FINAL EAST ELEVATION

SCALE: 1/8" = 1'-0" (24x36)
 (OR) 1/16" = 1'-0" (11x17)

2

NOTE:
 1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING / WIRING DIAGRAMS. PRIOR TO INSTALLATION.
 2. ANTENNAS & RIGS TO BE PAINTED TO MATCH EXISTING WATER TANK.
 3. ANTENNAS & CABLE TRAYS TO BE ATTACHED USING MAGNETS



PLANS PREPARED BY:

Technology Associates
SAN DIEGO MARKET OFFICE
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SAN DIEGO, CA 92123

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BLUE TANK (70)

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SHEET TITLE:

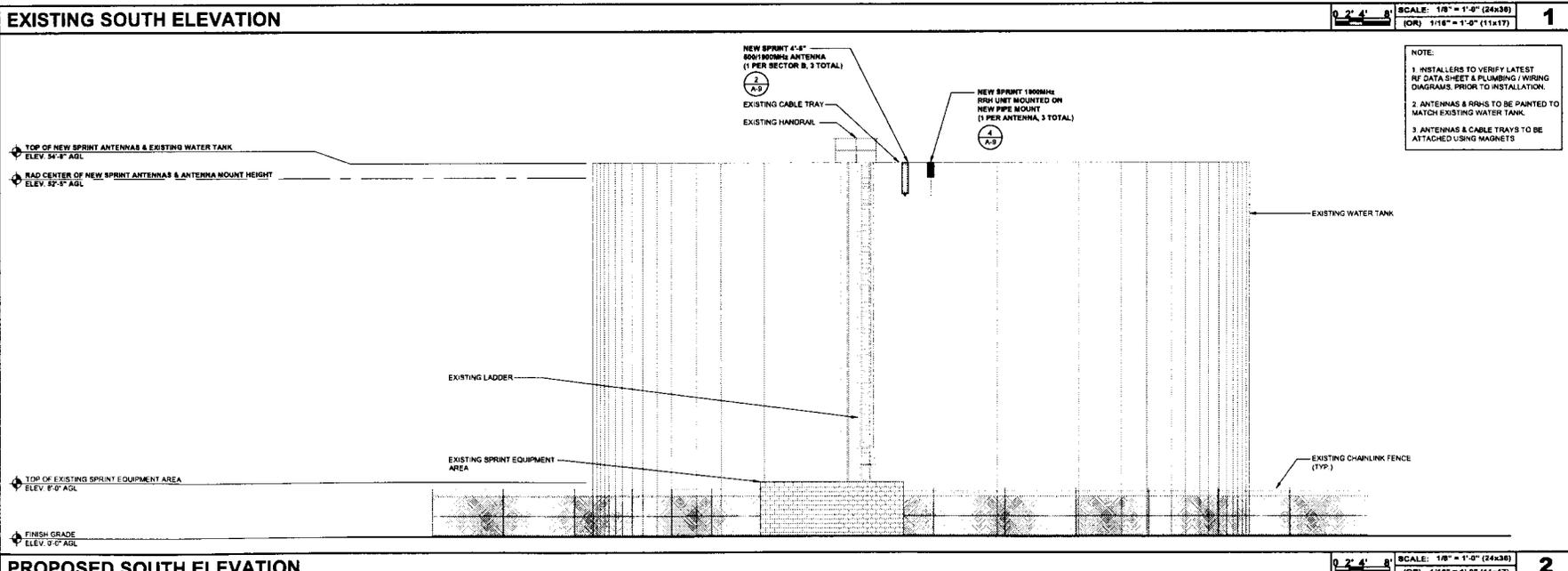
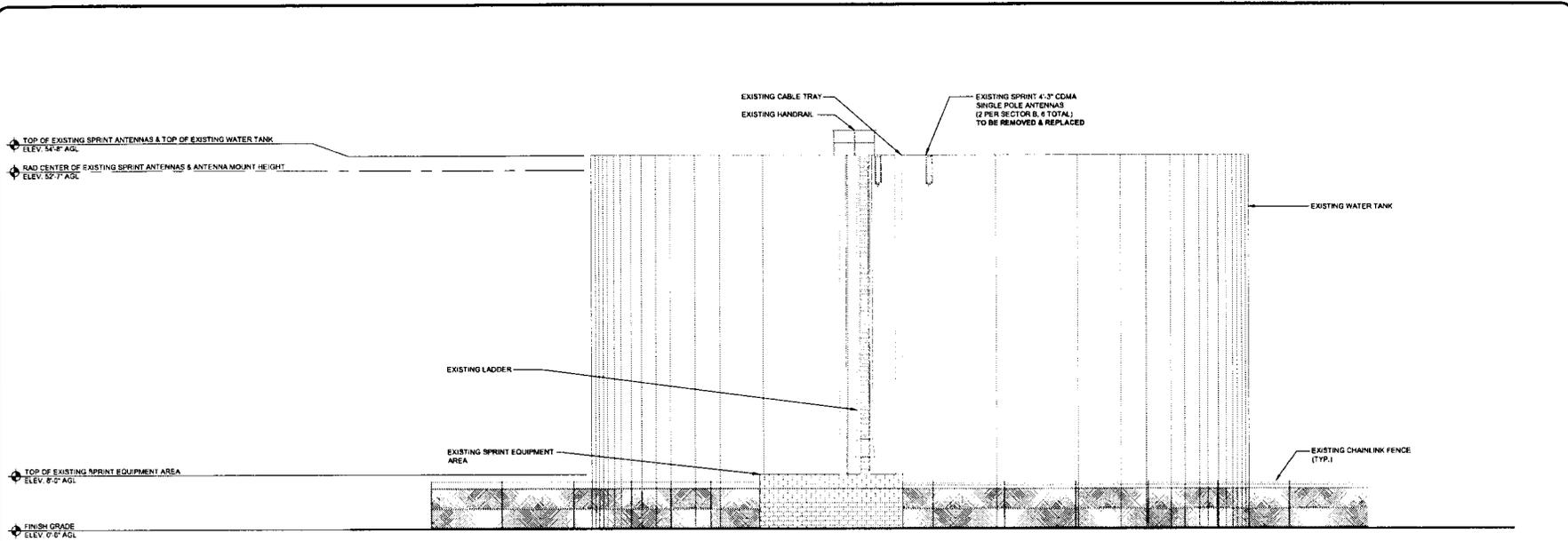
SOUTH ELEVATIONS

SHEET NUMBER:

A-6

REVISION:

A



FIRST AMENDMENT TO LEASE

This First Amendment to Lease (the "First Amendment") is made this day of ____, 2013, ("Effective Date") by and between Otay Water District ("OTAY") and Sprint PCS Assets, L.L.C., a Delaware limited liability company, f/k/a Cox PCS Assets, L.L.C., a Delaware limited liability company ("TENANT"), with reference to the facts set forth in the Recitals below:

RECITALS

- A. OTAY is the owner of that certain real property located on 13635 Bear Mountain Road, Jamul, California a Reservoir Site (the "Property").
- B. OTAY and TENANT are parties to that certain Lease dated July 12, 2000 (the "Lease" or "Agreement") pursuant to which TENANT is leasing from OTAY land at the Property, together with the right of access to and from the nearest public right-of-way and the right to install utilities (collectively, the "Premises").
- C. Tenant has requested a modification to the type and mounting of the Improvements currently on the Premises (the "New Improvements").
- D. OTAY and TENANT have agreed to amend the Agreement to memorialize the addition of the New Improvements to the Premises.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. **New Improvements.** OTAY consents to TENANT construction and installation of new communications facilities, as more particularly described and depicted on Exhibit "B-1" which is attached hereto and made a part hereof. The parties acknowledge and agree that the attached Exhibit "B-1" is intended to supplement the Exhibit "B" attached to the Agreement.
2. **Governmental Approvals.** Any required permits for the use or operation of the New Improvements shall be obtained by TENANT at TENANT's sole expense. Furthermore, it is understood and agreed that TENANT's ability to install the New Improvements is contingent upon its obtaining all of the certificates, permits and other approvals that may be required by any Federal, State or Local authorities which will permit TENANT to install and operate the New Improvements within the Premises. OTAY agrees, at no expense to OTAY, to reasonably cooperate with TENANT in making application for and obtaining all governmental licenses, permits and approvals that may be required for TENANT'S intended use of the Premises.
3. **Amended Provisions.** The following provisions shall be amended as follows:
 - 3a. Section 5; Rent shall be replaced with the following:

5.1 Tenant agrees to pay all costs and expenses incurred by Otay in connection with the Facilities and this Agreement, including negotiation and processing hereof, plan checking and inspection of Tenant facilities, costs of inspection, repairs or replacement of any Otay facilities affected or damaged, and all other costs or expenses of Otay attributable to the matters herein contemplated, plus a reasonable amount for Otay's overhead costs in connection therewith.

a. **Deposit.** Tenant has made a deposit, concurrent with its application, and has agreed to make any additional deposits required in connection with Otay's review of the application, negotiation of this Agreement, including legal review, site visits, review of drawings and other costs relating such matters incurred by Otay up to the time this Agreement is executed. Tenant forfeits any claim to such deposits except to the extent Otay determines after this Agreement is executed that amounts in excess of the District's costs and expenses have been paid. Any such excess amounts may, at the sole discretion of the District, be credited toward administrative fees or any other costs then due by Tenant, if any. If no amounts are due, excess deposits will be reimbursed to Tenant.

b. **Administrative Fees.** Administrative fees may be charged at Otay's discretion during the Term to recover costs and expenses incurred by Otay, including but not limited to attorneys and consultant's fees, review, processing of Tenant's conditional use permits, inspection of the Facilities during construction and other related costs if any, in connection with any Tenant activity that requires Otay staff to spend time in supervision, inspection, investigation or other review; such costs include but are not limited to any amendments to this Agreement, any default or any failure of Tenant to secure or renew any permit, approval, license or easement and any investigation Otay deems reasonably required in connection with the Premises or the Facilities, including without limitation any investigation of a potential contamination of any portion of the Property due to any Tenant activity or improvement.

c. **Security Deposit.** Concurrently upon execution of this Agreement, Tenant shall pay to Otay a sum equal to two months' rent as a deposit ("Security Deposit") to secure the Tenant's performance of the covenants contained herein. Tenant shall maintain the Security Deposit balance equal to the amount established herein over the life of the agreement. If Otay applies any portion of the Security Deposit, Tenant shall within 30 days after demand by Otay, deposit an amount sufficient to restore the Security Deposit to its original amount. No part of the Security Deposit is to be considered as an advance payment of rent, including last months' rent, nor is it to be used or refunded prior to the leased premises being permanently and totally vacated by the Tenant. After the Tenant has vacated the premises, Otay shall furnish Tenant with an itemized written statement of the basis for, and the amount of, any of the security deposit retained by Otay. Otay may withhold that portion of Tenant's security deposit necessary (a) to remedy any default by Tenant in the payment of rent or any other provision

of this Agreement, (b) to repair damages to the premises or any expense, loss, or damage that Otay may suffer because of Tenant's default, (c) to restore the premises to meet Otay's standards, (d) any amount that Otay may incur or become obligated to spend in exercising Otay's rights under this Agreement or available at law. The unused portion of this deposit shall be returned to the Tenant without interest no later than 60 days after termination of this Agreement.

Tenant waives the provisions of California Civil Code §1950.7, and all other provisions of law now in force or that become in force after the date of execution of this Agreement, that provide that Otay may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of accrued Rent, to repair damage caused by Tenant, or to clean the Premises. Otay and Tenant agree that Otay may, in addition, claim those sums reasonably necessary to compensate Otay for any other foreseeable or unforeseeable loss or damage caused by the act or omission of Tenant or Tenant's officers, agents, employees, Independent contractors, or invitees, including future rent payments.

d. None of the deposits or other payment of costs or administrative fees constitutes or shall be considered Rent (defined below).

5.2 Beginning on the Commencement Date, Tenant shall pay Otay as rent the sum of \$2,000.00 per month ("Rent") payable on the first day of each month in advance. If the Commencement Date is prior to the fifteenth day of the month of commencement, the full month's Rent will be due on the Commencement Date. If the Commencement Date is on or after the fifteenth day of the month of commencement, payment of Rent will begin the first day of the following month.

Tenant may make Rent payments up to 5 days past due date without penalty, unless continual late payments for two consecutive months occur. A fee shall be imposed after the 5th day and shall be 20% of the amount currently due. Failure to pay Rent within ten (10) calendar days of the first of the month shall be an Event of Default as provided by Section 13.2. Failure to pay Rent on the due date for more than two (2) consecutive months or four (4) times over any twelve (12) month period shall be a non-curable Event of Default without the necessity of any notice or cure period. At District's sole discretion, immediately following such a non-curable Event of Default, District may terminate the Agreement and seek any remedy available by this Agreement or at law. If Tenant tenders a check, which is dishonored by a banking institution, then the Tenant shall tender cash or cashier's check only for all future payments, which shall continue until such time as written consent is obtained from Otay. In addition, Tenant shall be liable in the sum of \$25 for each dishonored check that is returned to Otay.

a. Rent Increases. The Rent shall be increased on each calendar anniversary of the Commencement Date at a rate of four percent (4%) per annum or the annual Consumer Price Index change ("CPI"), whichever is greater. CPI shall be the average percentage increases in the consumer price index published by the United States Department of Labor, Bureau of Labor Statistics (1982-1984 = 100)

(the "CPI") for "All Items – All Urban Consumers" for the San Diego Metropolitan Statistical Area.

3b. Section 7; Improvements, and Section 8; Installation of Equipment shall be replaced with the following:

7. Installation and Maintenance of Improvements. Tenant is authorized to install, maintain and operate on the Premises only the Facilities described and depicted on Exhibit B; provided that all permits and zoning approvals shall have first been obtained by Tenant and shall at all times while the Facilities operate remain in full force and effect.

a. Installation of the Improvements. Tenant's design and installation of all portions of the Facilities shall be done, at no cost to Otay, according to plans approved by Otay, provided that such approval shall not be unreasonably withheld. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay of the method of attachment at Otay's sole discretion. If such Facilities are to be attached or mounted to a water tank, Tenant shall use an installation method such as a magnetic mount or other, non-destructive alternative. The Tenant shall be responsible for painting its antennas and/or equipment to match Otay's facility. Otay will provide Tenant with specifications regarding paint type, color and application method to accomplish this requirement. Painting/coating submittals shall be provided to Otay by the Tenant prior to receiving permission to begin painting. Otay may specify a camouflage design if not inconsistent with requirements of the city or county within which the Facilities are located. These camouflage designs may include but are not limited to faux palm trees, pine trees, cypress trees, broadleaf trees, and flag poles, unipoles, and other camouflaged antenna and antenna supports.

b. Record Drawings. Within thirty (30) days after completion of the Facilities, Tenant shall provide Otay with "record" (also called "as-built") drawings of the Facilities showing and identifying all the equipment and improvements installed on the Premises. Said drawings shall be accompanied by a complete and detailed inventory of all equipment, including without limitation all personal property and antennas located on the Premises and any such property of Tenant located in the Easement. No property of Tenant other than such identified property shall be located on the Premises or the Property at any time. Upon acceptance by Otay of Tenant's record drawings, in form and content satisfactory to Otay, such drawings shall replace and supersede any similar drawings contained in any exhibit attached hereto.

c. Alterations. Tenant shall not alter or change its Improvements in a material manner without the prior approval of Otay, such approval not to be unreasonably withheld. "Material" refers to any physical change that could affect the building structure, antenna support, interconnecting facilities or its appearance

or any change that requires access to the Premises for installation of new equipment, removal of old equipment, trenching or digging or that could disrupt Otay's workplace or communications in any way or any change that requires a renewed or amended easement, permit or approval. All of Tenant's construction and installation work shall be performed at Tenant's sole cost and expense in a good and workmanlike manner and fully compliant with all government permit and code requirements. Tenant shall have the right to remove all Improvements it installs at its sole expense on or before the expiration or termination of this Agreement, but must at such time restore the ground and surface underlying the removed Improvements to its pre-installation condition, wear and tear excepted, and to the reasonable satisfaction of Otay.

d. Alterations to Improvements / Additional Space. If, at any time during the Term, Tenant requests permission from Otay to add improvements requiring construction to its then existing Improvements, the then current Administrative Fees shall be paid to Otay before any such changes are negotiated. In addition, if the requested Tenant improvements include additional area, a new agreement or, at Otay's discretion, an amendment for the additional lease space must be executed prior to start of construction and Tenant shall comply with Otay's requirements then in effect, including payment of additional rent, if any, for the additional area.

e. Permits and Compliance with Applicable Laws. During the Term, and prior to commencing any construction or installation of any improvements or equipment, as applicable, Tenant shall obtain all necessary approvals, permits and access easements or licenses, all of which shall be maintained in full force and effect at all times in accordance with all applicable laws, rules and regulations.

i. Prior to commencing construction, Tenant shall deliver to Otay copies of all executed licenses, approvals and permits required by local, state or federal agency in connection with the Improvements, which permits shall be attached hereto as Exhibit B.

ii. From time to time, as required by law or regulation in connection with the normal operation of the Improvements or as needed due to improvements or alterations to the same, Tenant shall provide Otay with updated permits, licenses and/or approvals, including without limitation written evidence, satisfactory to Otay, of all FCC approvals and other governmental permits and approvals, including but not limited to compliance with the FCC's electromagnetic radiation rules, set forth at 47 C.F.R. § 1.1307 et seq. and FCC Office of Engineering and Technology Bulletin 65, each as hereafter amended.

iii. Otay agrees, at no expense to Otay, to reasonably cooperate with Tenant in making application for and obtaining all governmental licenses,

permits and approvals that may be required for Tenant's intended use of the Premises.

f. Utilities. Tenant shall be authorized to install utilities for the Premises and the Improvements at Tenant's expense and to improve the present utilities on or near the Premises (including, but not limited to the installation of an emergency back-up power) subject to Otay's approval of the location, route, design and capacity, which approval shall not be unreasonably withheld. Tenant shall fully and promptly pay for all utilities furnished to the Premises for the use, operation and maintenance of Tenant's Improvements. If inadequate electrical power is available to provide for the Improvements, or additional electrical power is required to be installed on the Premises by Otay in its sole discretion, such installation shall be at Tenant's sole expense. The location, route, design and capacity of the additional power facility shall be approved by Otay, which shall not be unreasonably withheld.

g. Repair of Otay's Improvements/Systems. Any damage done to the Property or to any Otay improvement, facility or system in connection with the construction, installation, maintenance, repair, improvement, replacement or operation of the Improvements shall be repaired or replaced immediately at Tenant's expense and to Otay's reasonable satisfaction by Otay staff or contractors approved by Otay. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay. Tenant shall pay all costs and expenses in relation to maintaining the integrity of Otay's facilities, improvements and systems affected in any way by Tenant's Improvements or its use of the Property or the Premises.

h. Maintenance and Repair. At all time during the Term, Tenant shall maintain the Premises and the Improvements in a manner acceptable to Otay. Tenant's use of its Improvements shall not at any time or in any way adversely impact, impede or interfere with Otay's access to, use or operation of, its improvements, equipment or systems.

i. Liens. Tenant shall not encumber or allow the Premises or the Property to be encumbered in any manner other than as expressly authorized herein.

j. Security. Tenant recognizes and agrees that the Premises and the Reservoir Site are a sensitive area and that Otay's operations and services are highly sensitive and regulated. Tenant shall provide for the proper supervision of all Tenant Parties assigned or allowed by Tenant to enter and do work at the Premises. Tenant also agrees, holding Otay harmless for any cost or expense, to comply with any and all security measures instituted by Otay from time to time.

8. Maintenance, Repair or Replacement of Otay's Improvements. At any time while this Agreement remains in effect, Otay may, at its option and upon One Hundred Eighty (180) days prior written notice to Tenant, remove or cause

Tenant to remove all or any portion of its Facilities at Tenant's expense, in order for Otay to paint, repair, or make replacements to any or all its improvements on the Premises (the "Maintenance or Replacement Work"), as deemed necessary by Otay in its sole discretion. Tenant agrees to fully cooperate with Otay's efforts in connection with any Maintenance or Replacement Work, including without limitation timely, and at Tenant's cost, removing and re-installing any portion of the Facilities, as requested by Otay.

a. Temporary Facilities. During the Maintenance or Replacement Work, Tenant may, holding Otay harmless from any cost or expense, install temporary antennas on the Premises subject to Otay's approval of the location and type of replacement facilities, such approval shall not be unreasonably withheld or delayed. Once the Maintenance or Replacement Work is completed by Otay, Tenant agrees to promptly dismantle any temporary facilities and to relocate the facilities to their original location or to any other location approved by Otay. All work related to the removal of any portion of the Facilities, installation of temporary facilities, dismantling, relocation to their original location and any related work, shall be done at Tenant's sole cost and expense and in good and workmanlike manner.

b. Repair of damage. Tenant shall repair any damage caused by Tenant in connection with the installation, maintenance, operation or removal of any temporary facilities or the Facilities, and Tenant shall restore any distributed portions of the Property to their condition immediately prior to the installation of the temporary facilities.

c. Otay's option to remove temporary facilities. If any temporary facilities are not removed within sixty (60) days from the date the Maintenance or Replacement Work is completed, Otay shall have the right, but not the duty, to remove the temporary facilities at Tenant's cost and expense.

d. Painting of the Facilities. If the Maintenance or Replacement Work includes the painting, or any work affecting the surface of Otay's improvements, the Tenant shall be responsible for repainting or performing other surface treatment of its antennas and equipment to match Otay's. Otay will provide specifications to the Tenant regarding the treatment, paint type, color and application method to accomplish this requirement. The Tenant shall be required to obtain approval of specifications from Otay prior to commencing work on this requirement. Subject to Otay's prior written consent, Tenant may substitute an alternate treatment, paint type and application method if it reasonably determines that Otay's selection will adversely affect or otherwise degrade Tenant's wireless signal from the Reservoir Site.

3c. Section 9; Co-Location shall be replaced with the following:

9.1. Co-Location by Otay. Tenant agrees that Otay may enter into leases or other types of agreements with other communication carriers, wireless communications carriers and other utilities for use of any portion of the "Reservoir Site" as long as said leases do not result in unreasonable interference with Tenant's use of or access to the Premises. Tenant shall reasonably cooperate with Otay's efforts in this regard including, at Otay's request, the relocation of, or changes to, the Facilities; provided that any alterations or relocation needed to accommodate the new carrier or utility shall be performed at the expense of Otay or the new carrier or utility.

9.2. Co-Location by Tenant - Subleasing/Encumbrance. Tenant shall not sub-lease or sub-license or otherwise encumber the Premises or any portion of the Facilities without Otay's prior written consent, which may be granted or denied at Otay's sole discretion. Any sub-lease or other encumbrance shall require an amendment to this Agreement and shall specify the terms and conditions, including making provision for rent and increases thereto for the sub-lease or other encumbrance.

3d. Section 13; Termination shall be replaced with the following:

13.1 Termination.

(a) This Agreement may be terminated by Tenant without further liability if:

(i) Tenant delivers to Otay 30-day written notice at any time prior to commencing any work at the Premises in connection with the installation of any Facilities, for any reason or no reason;

(ii) Tenant gives Otay sixty (60) days' notice of Tenant's determination that a governmental or non-governmental license, permit, consent, approval, easement or waiver necessary to enable Tenant to construct, install or operate the Facilities cannot be obtained or renewed at reasonable expense or in reasonable time period for wireless sites at water reservoirs in metropolitan areas within San Diego County. If this notice is given, Tenant must immediately cease any and all transmissions through and from the Premises and shall promptly remove, within a period of time not to exceed sixty (60) days, any and all Tenant's personal property and improvements from the Property. This Agreement and any related easements shall automatically expire upon the earlier of removal of the Tenant's improvements or the 60th day from the notice; excepting only Tenant's indemnities and liabilities hereunder, including the obligation to pay Rent for any holdover period. Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated.

(iii) Tenant determines at any time after the Commencement Date that the Premises are not appropriate or suitable for its operations for economic, environmental or technological reasons, including without limitation, any ruling or directive of the FCC or other governmental or regulatory agency, or problems with signal strength or interference not encompassed by subsection (iv) below; provided that the right to terminate under this subsection (iii) is exercisable only upon payment by Tenant, as a termination fee, of the lesser of twelve monthly installments of rent or the balance of the rent due for the then current Initial Term, Extension Term or Additional Term, as applicable; and Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated;

(iv) Otay commits a default under this Agreement and fails to cure pursuant to Section 13.2, below;

(v) The Property or the Premises are totally or partially destroyed by fire or other casualty (not caused by Tenant) so as to hinder Tenant's normal operations and Otay does not provide to Tenant within thirty (30) days after the casualty occurs a suitable temporary relocation site for Tenant's facility pending repair and restoration of the Premises; or

(vi) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

(b) This Agreement may be terminated by Otay without further liability if:

(i) Tenant commits a default under this Agreement and fails to cure such default pursuant to Section 13.2, below;

(ii) Otay determines that continuing the Agreement or continuing to allow the Tenant to construct, install, maintain or operate the Facilities in any way violates a law, rule or regulation; or

(iii) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

13.2 Default.

a. Event of Default. The parties covenant and agree that a default or breach of this Agreement (an "Event of Default") shall occur and be deemed to exist if, after notice and opportunity to cure as provided below:

(i) Tenant shall default in the payment of Rent, or any other amounts due Otay hereunder, and said default shall continue for ten (10) business days after the same becomes due; or

(ii) Either party shall default in the performance or observance of any other covenant or condition of this Agreement to be performed or observed if such failure persists for a period of thirty (30) days after the non-defaulting party provides written notice of the default to the defaulting party.

b. Rights upon Default. Upon the occurrence of an Event of Default, in addition to any other rights or remedies available to the non-defaulting party under any law, the non-defaulting party shall have the right to terminate the Agreement.

c. Cure Rights. An Event of Default shall not exist unless written notice has been given in accordance with this Agreement, and the defaulting party has had the opportunity to cure as provided herein. The defaulting party shall cure the alleged default within the manner provided herein; provided however, that if the nature of an alleged default is such that it cannot reasonably be cured within such thirty (30) day period, the defaulting party shall not be in breach of this Agreement if it diligently commences a cure within such period, and thereafter diligently proceeds with the actions necessary to complete such cure.

3e. Section 17; Indemnity, shall be replaced with the following:

Tenant specifically agrees that it shall hold harmless, defend (with counsel, and if needed experts, reasonably acceptable to Otay), indemnify and otherwise protect Otay and each Otay Party, from and against all claims, suits or actions of any kind and description relating to (a) Tenant's obligations under this Agreement and any amendment hereto or (b) Tenant or Tenant Parties use of, and access to, the Premises, the Facilities or the Property. These obligations extend to and include without limitation any and all costs and expenses (including attorney's fees and court costs) incurred by Otay or the Otay Parties in connection with (i) damage to property (including the Premises, the Property or any personal property of Otay or any third party), (ii) any action or proceeding (including an enforcement action or criminal proceeding) related in any way to any permit (governmental or otherwise), approval or easement obtained by or required of Tenant in connection with this Agreement or the Facilities; and (iii) personal injury or death, except to the extent that such claims, suits or actions directly arise from the gross negligence or willful misconduct of Otay or an Otay Party. This indemnification clause in no way limits any other specific indemnities given by Tenant under other provisions of this Agreement.

Nothing contained herein shall prohibit Otay, in its sole discretion, from participating in the defense of any demand, claim, action, proceeding, or litigation. In no event shall Otay's participation in the defense of any demand

claim, action, proceeding, or litigation affect the obligations imposed upon Tenant herein.

This and all other Tenant indemnities shall survive the termination of this Agreement and shall remain in effect for as long as the underlying claim or action remains viable.

3f. Section 19; Assignment, shall be replaced with the following:

Tenant shall not assign this Agreement or any portion of its rights or obligations hereunder without Otay's prior written consent, except to an affiliated parent entity, subsidiary, purchaser of at least 50% of the aggregate of the assets of Tenant ("assets" means and includes without limitation any and all real, personal or financial property or thing owned or controlled by Tenant or over which Tenant has an interest) or holder of Tenant's FCC license.

a. If during the Term hereof, Tenant requests the written consent of Otay to any assignment, and upon demonstration satisfactory to Otay of the proposed assignee's legal, financial, and technical qualifications to assume all of the Tenant's duties and obligations herein, Otay's consent thereto shall not unreasonably be withheld. Consent to one assignment shall not be deemed consent to any subsequent assignment.

b. Any attempted assignment not permitted under the first paragraph of this Section 19, without Otay's prior consent as set forth in Section 19(a), shall be void and, at Otay's option, shall constitute a termination of this Agreement for which a termination fee as described in Section 13.1.a(iii) shall be immediately due.

c. Any assignment of this Agreement shall require an executed "Assignment of Lease" whether or not the Consent of Otay is required pursuant to this section 19 or any other provision of this Agreement. A sample form of the "Assignment of Lease" is attached to this Agreement as Exhibit F which may be amended or modified in Otay's sole discretion.

4. **Continued Effect.** Except as specifically modified by this First Amendment, all of the terms and conditions of the Agreement shall remain in full force and effect. In the event of a conflict between any term or provision of the Agreement and this First Amendment, the terms and provisions of this First Amendment shall control. In addition, except as otherwise stated in this First Amendment, all initially capitalized terms will have the same respective defined meaning stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this First Amendment.

5. **Administrative Fees.** TENANT shall pay OTAY the amount of \$4,500 within (30) days of the date of execution of this Amendment by OTAY and TENANT.

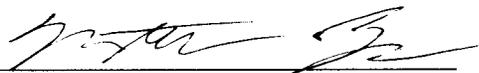
6. **Current Rent.** The current monthly Rent amount at the Effective Date of this First Amendment is \$2,783.39.

IN WITNESS WHEREOF, OTAY and TENANT have caused this First Amendment to be executed by each party's duly authorized representative effective as of the date first above written.

OTAY WATER DISTRICT:

By: _____
Name: Mark Watton
Title: General Manager
Date: _____

**Sprint PCS Assets, L.L.C.,
a Delaware limited liability company, :**

By: 
Name: Matthew Bell
Title: Manager Real Estate
Date: 5/29/2013

Approved as to Form:

By: _____
OWD General Counsel

Approved as to Form:

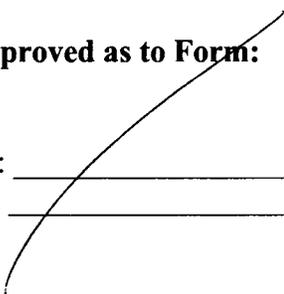
By: 
Its: _____

Exhibit B-1

NEW IMPROVEMENTS



NETWORK VISION MMBTS LAUNCH JAMUL WATER TANK SD34XC522 WATER TANK

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY
LATITUDE: 32° 42' 36.5106" N (32.710142)
LONGITUDE: 116° 53' 32.8194" W (-116.89245)
SAN DIEGO METRO MARKET

CALIFORNIA STATE 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. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 MECHANICAL CALIFORNIA CODE
- ANS/ISA-222-1 LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE

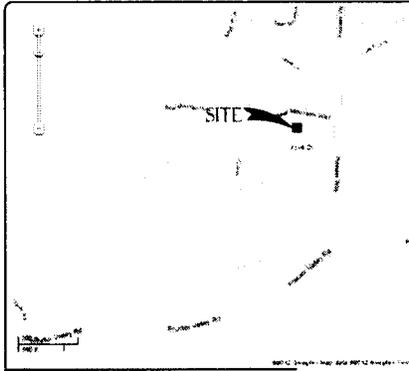
ACCESSIBILITY REQUIREMENTS:

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

CODE BLOCK

APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		
SITE ACQUISITION		
PLANNING CONSULTANT		
PROPERTY OWNER		
SPRINT REPRESENTATIVE		

SIGNATURE BLOCK



VICINITY MAP

FROM SAN DIEGO INTERNATIONAL AIRPORT, CA
 HEAD WEST ON AIRPORT TERMINAL RD 420 FT
 SLIGHT LEFT TO STAY ON AIRPORT TERMINAL RD 0.3 MI
 KEEP RIGHT AT THE FORK 443 FT
 TURN LEFT ONTO N HARBOR DR 1.4 MI
 TURN LEFT ONTO W GRAPE ST 0.4 MI
 TAKE THE INTERSTATE 5 S SLIP ROAD 0.2 MI
 MERGE ONTO I-5 S 1.0 MI
 TAKE EXIT 15B TO MERGE ONTO CA-94 E 13.9 MI
 TURN RIGHT ONTO CA-94 E/CANPO RD 0.8 MI
 CONTINUE STRAIGHT ONTO PROCTOR VALLEY RD 0.4 MI
 TURN RIGHT ONTO PIONEER WAY 0.3 MI
 TURN LEFT ONTO BEAR MOUNTAIN WAY 0.3 MI
 DESTINATION WILL BE ON THE LEFT

DRIVING DIRECTIONS

SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY

- (9) EXISTING CDMA ANTENNAS (3) TO BE REMOVED AND REPLACED WITH (3) PROPOSED ANTENNAS
- INSTALL (3) NEW RRH UNITS
- EXISTING (1) MODEL 3/D CABINET TO BE REMOVED AND REPLACED WITH (1) NEW 9928 MMBTS CABINET
- EXISTING (1) BBU CABINET TO BE REMOVED AND REPLACED WITH (1) NEW BBU CABINET
- INSTALL (1) NEW JUNCTION BOX
- INSTALL (1) NEW FIBER AND HW EQUIPMENT
- ANTENNAS AND MOUNTING HARDWARE PAINTED TO MATCH EXISTIN WATER TANK

PROJECT DESCRIPTION

APPLICANT:
 SAC WIRELESS ON BEHALF OF ALCATEL LUCENT/SPRINT/NEXTEL
 CONTACT: ALEX TSATUROV
 PH: (858) 472-4048

PROPERTY INFORMATION:

PROPERTY OWNER: OTAY WATER DISTRICT
 ADDRESS: 2554 SWEETWATER SPRINGS BLVD
 SPRING VALLEY, CA 91978
 CONTACT: TBD
 PH: (619) 670-2222

ZONING CLASSIFICATION: A70
 BUILDING CODE: 2010 CBC
 CONSTRUCTION TYPE: 'IB'
 OCCUPANCY: S-2
 JURISDICTION: COUNTY OF SAN DIEGO
 CURRENT USE: WATER TANK / UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY
 PROPOSED USE: UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY

PARCEL NUMBER(S):

597-220-44-00

LEASE AREA:
 400 SQ FT.

PROJECT SUMMARY

SHEET DESCRIPTION

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	CONDITION OF APPROVAL
G-1	GENERAL NOTES & SYMBOLS
G-2	SIGNAGE AND NOTES
A-1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	EXISTING ENLARGED EQUIPMENT & ANTENNA PLAN
A-4	PROPOSED ENLARGED EQUIPMENT & ANTENNA PLAN
A-5	EXISTING & PROPOSED NORTH ELEVATION
A-6	EXISTING & PROPOSED EAST ELEVATION
A-7	EXISTING & PROPOSED SOUTH ELEVATION
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ARCHITECT:
 THOMAS HOLLAND
 PACIFIC TELECOM SERVICES, LLC
 3199C AIRPORT LOOP DRIVE
 COSTA MESA, CA 92626
 CONTACT: ROBERT LEIGHTON
 PH: (708) 464-4402
 EMAIL: RLEIGHTON@PTSSWA.COM

STRUCTURAL ENGINEER:
 FLORIN ARSENE, PE
 25442 BURNTWOOD
 LAGUNA HILLS, CA 92677
 PH: (848) 374-2405

SITE ACO PROJECT MANAGER:
 ALCATEL-LUCENT
 CONTACT: ALEX TSATUROV
 PH: (858) 320-3128

CONSTRUCTION MANAGER:
 ALCATEL LUCENT SAN DIEGO
 CONTACT: DILLON TERRY
 PH: (619) 398-6199

PLANNING & ZONING:
 CONTACT: MARK BERLIN
 PH: (858) 922-0237

LEASING:
 SAC WIRELESS LLC
 CONTACT: MARY HAMILTON
 PH: (858) 720-0166

POWER COMPANY:
 SDG&E
 PH: (800)-336-7343

TELCO COMPANY:
 AT&T
 PH: (888)-944-0447

PROJECT TEAM

At all new services & grounding trenches,
 provide "WARNING" tape at 12" below grade

DIG ALERT
 "CALL BEFORE YOU DIG"
 1-800-227-2600
 UTILITY NOTIFICATION CENTER OF SOUTHERN CALIFORNIA



PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH II
JAMUL WATER TANK
 SD34XC522
 13619-13639 BEAR MOUNTAIN WAY
 JAMUL, CA 91935
 SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUE NO.:

REVISED CONSTRUCTION

REVISIONS			
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0	05/21/12	ISSUED FOR 90% CD REVIEW	CBK
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3	10/17/12	CONDITION OF APPROVAL	RLD
4	01/04/13	REVISED CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
 LABELED AS CONSTRUCTION SET

LICENSE:



SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

4

GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY NETWORK CARRIER OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS, PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSIONS, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF NETWORK CARRIER. CONSTRUCTION PROJECT MANAGER SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY NETWORK CARRIER CONSTRUCTION PROJECT MANAGER.
- PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE CONTRACTOR HAVING BEEN AWARDED THIS PROJECT SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN, PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.
- THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE NETWORK CARRIER PROJECT SCOPE AND THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
- 11X17 COPIES OF DRAWINGS ARE NOT TO BE SCALED DUE TO DISTORTIONS RESULTING FROM MULTIPLE REPROGRAPHIC COPIES. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DIMENSIONS SHOWN ON PLANS.
- OWNER, CONTRACTOR, AND NETWORK CARRIER REPRESENTATIVE SHALL REVIEW AND CONFIRM PROJECT SCOPE, DESIGN INTENT AND UTILITY COORDINATION ITEMS ARE INCLUDED IN THE DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION FROM NETWORK CARRIER REPRESENTATIVE TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS OR TENANTS.
- THE CONTRACTOR SHALL PROVIDE NETWORK CARRIER PROPER INSURANCE CERTIFICATES NAMING NETWORK CARRIER AS ADDITIONAL INSURED, AND PROVIDE NETWORK CARRIER PROOF OF LICENSE(S) INCLUDING FE & PD INSURANCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- ALL WORK PERFORMED ON THE PROJECT ALONG WITH ALL MATERIALS INSTALLED SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL LIKEWISE ISSUE NOTICE TO ALL SUB-CONTRACTORS THAT THEY SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWS, ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPALITY, UTILITY COMPANY AND LOCAL/STATE/JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.
- A COPY OF THE GOVERNING AGENCY ISSUED AND APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW, SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION AT ALL TIMES. THE ORIGINAL PERMIT SET PLANS ARE NOT TO BE USED BY THE WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION AS GOVERNING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS, IN GOOD CONDITION, COMPLETE WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES UNDER THE DIRECT CARE OF THE SUPERINTENDENT. THE CONTRACTOR SHALL SUPPLY THE NETWORK CARRIER CONSTRUCTION PROJECT MANAGER WITH A COPY OF ALL REVISIONS, ADDENDA, AND/OR CHANGE ORDERS AT THE CONCLUSION OF THE WORK AS A PART OF THE AS-BUILT DRAWING RECORDS.
- THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE JOB SITE WHILE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THE PLANS, ALONG WITH PROTECTING THEM FROM DAMAGE. THE CONTRACTOR AND SUBCONTRACTOR SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE RESULTING FROM OPERATIONS IN CONNECTION WITH THE EXECUTION OF THE WORK.
- ALL EXISTING CONSTRUCTION EQUIPMENT AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
 - A PROPERTY NOTED TO BE RETURNED TO THE OWNER.
 - PROPERTY NOTED TO BE REMOVED BY THE OWNER.
- THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT. TRADE STANDARDS AND/OR PUBLISHED MANUFACTURER'S SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
- WHEN ROOF TOP OR TOP FLOOR DECK TEMPORARY STAGING OF IS REQUIRED, MATERIALS SHALL BE EVENLY DISTRIBUTED OVER ROUGH FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING AND/OR BRACING IS TO BE PROVIDED WHERE THE STRUCTURE DOESN'T HAVE THE DESIGN STRENGTH FOR ADDITIONAL LOADING.
- SEAL ALL PENETRATIONS WITH FINE-GRAINED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THE SUBJECT FACILITY AND/OR PROJECT SITE.
- BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GROUND DISTURBANCE, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS MANDATED BY THE GOVERNING AGENCY.
- CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITH 7.5 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
- CONTRACTOR SHALL MAKE NECESSARY PROMISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBS, DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ADJACENT TO THE PROPERTY.
- CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. DISPOSING OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, OUST, OR SMUDGES OF ANY NATURE.
- NEW CONSTRUCTION INSTALLED ADJACENT EXISTING BUILDINGS OR CONSTRUCTION SHALL ARCHITECTURALLY MATCH EXISTING IN TERMS OF COLOR, TEXTURE, FINISH MATERIALS, ETC., EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR OTHER ANCHORAGE DEVICES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND CODE COMPLIANT INSTALLATION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INSTALLATIONS THAT ARE CONSTRUCTED LEVEL, ERECT, EVENLY ALIGNED, PLUMB AND TRUE BASED ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL COMPARE EXISTING CONDITIONS WITH THE PROPOSED DESIGN PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE NETWORK CARRIER REPRESENTATIVE AND FURTHER TO THE AEE SUCH THAT THE NEW INSTALLATION WILL LIKEWISE BE LEVEL, ERECT, EVENLY ALIGNED, PLUMB AND TRUE. NETWORK CARRIER SHALL BE NOTIFIED OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES.
- WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR REVISIONS AVAILABLE AS REQUIRED BY THE GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT STORE OR STAGE MATERIALS ON PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE GOVERNING AGENCIES FOR THIS PURPOSE.
- GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN ALL CONDITIONS UNLESS ILLUSTRATED AND NOTED OTHERWISE.
- TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC., SO AS TO BE PREPARED PROPERLY BY THE WORK OF OTHER TRADES.
- ALL DEBRIS AND REFUSE SHALL BE REMOVED FROM THE PROJECT PREMISES AND LEFT IN A CLEAN SWEEP CONDITION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK.
- NETWORK CARRIER DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR ANY EQUIPMENT NAMED BY A TRADE OR MANUFACTURER GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE THROUGH THE COMPANY OR MANUFACTURER PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
- CAUTION CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
- WHEN APPLICABLE, CONTRACTOR IS RESPONSIBLE TO CALL, COORDINATE AND MAKE ARRANGEMENTS FOR R.O.W. AND/OR PRIVATE PROPERTY LOCATES BASED ON SPECIFIC SITE REQUIREMENTS.
- SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.
- CONTRACTORS TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO NETWORK CARRIER'S REPRESENTATIVE ALONG WITH REDLINED CONSTRUCTION SET.
- CONTRACTOR SHALL DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED ALONG WITH PHOTOGRAPHS PER NETWORK CARRIER REQUIREMENTS.
- GENERAL CONTRACTOR SHALL COORDINATE AND SEEK APPROVAL OF ALL POWER DRAW, INSTALLATION AND/OR MODIFICATIONS WITH POWER COMPANY, OWNER AND JURISDICTION AS REQUIRED. CONTRACTOR SHALL REPORT POWER INSTALLATION SOLUTIONS TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.
- ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY NETWORK CARRIER CONSTRUCTION MANAGER.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE. EXCEPTION UNDER THIS CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR: EXCEPT THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, DESIGNATED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATERIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING WITH DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.

CALIFORNIA SPECIFIC CODE COMPLIANCE NOTES:

- WHEN COMPLETED, THE SUBJECT PROJECT SHALL COMPLY WITH LOCAL SECURITY CODES.
- WHEN COMPLETED, THE SUBJECT PROJECT SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE TITLE-24 ENERGY CONSERVATION REQUIREMENTS.
- WHEN GLASS OR GLAZING REPLACEMENT IS A PART OF THE SCOPE OF THE PROJECT, GLASS AND GLAZING SHALL COMPLY WITH CHAPTER 54 OF THE U.S. CONSUMER SAFETY COMMISSION WITH SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS BEING COMPLY WITH PER (42 CFR 1428, CFR PART 1201 & LOCAL SECURITY REQUIREMENTS).

SYMBOLS:

- GRID REFERENCE
- DETAIL REFERENCE
- ELEVATION REFERENCE
- SECTION REFERENCE
- CENTERLINE
- PROPERTY/LEASE LINE
- MATCH LINE
- WORK POINT
- GROUND CONDUCTOR
- TELEPHONE CONDUIT
- ELECTRICAL CONDUIT
- COAXIAL CABLE
- OVERHEAD SERVICE CONDUCTORS
- GROUT OR PLASTER
- (E) BRICK
- (E) MASONRY
- CONCRETE
- EARTH
- GRAVEL
- PLYWOOD
- SAND
- WOOD CONTINUOUS
- WOOD BLOCKING
- STEEL
- NEW
- EXISTING
- NEW ANTENNA
- EXISTING ANTENNA
- GROUND ROD
- GROUND BUS BAR
- MECHANICAL GRND CONN.
- CADWELD
- GROUND ACCESS WELL
- ELECTRIC BOX
- TELEPHONE BOX
- LIGHT POLE
- PO MONUMENT
- SPOT ELEVATION
- SET POINT
- REVISION





PROJECT INFORMATION:

NETWORK VISION WMBIS-ATKJH

JAMUL WATER TANK

SD34XC522

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE: 01/04/13

ISSUE NO: REVISED CONSTRUCTION

REVISIONS				
REV	DATE	DESCRIPTION	INITIAL	CHK
0	05/21/12	ISSUED FOR 80% CD REVIEW	CBR	
1	07/16/12	REVISED BOX CONSTRUCTION	AF	
2	08/31/12	ISSUED FOR REVISED CONSTRUCTION	RLD	
3	10/17/12	CONDITION OF APPROVAL	RLD	
4	01/04/13	REVISED CONSTRUCTION	AF	

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

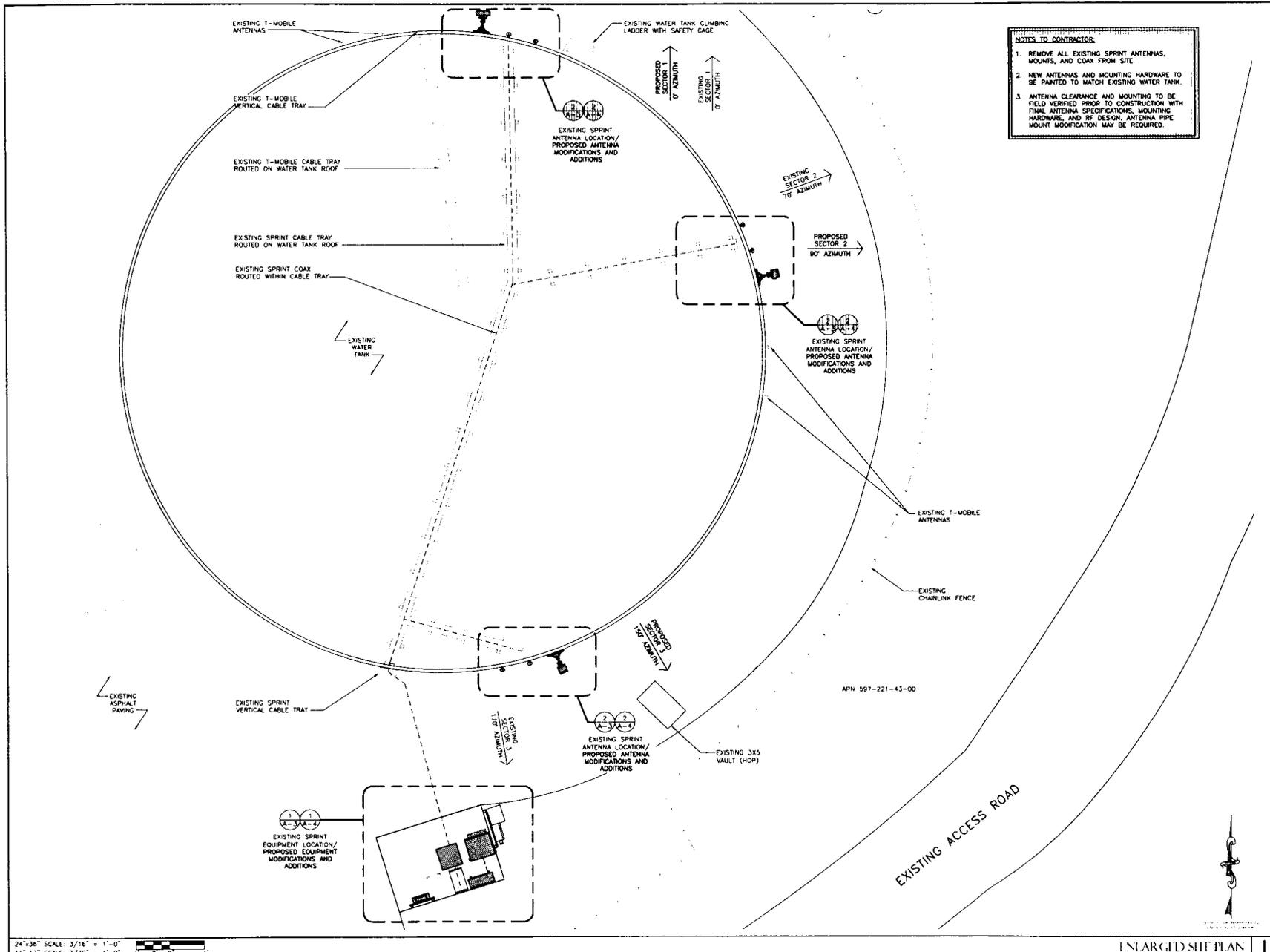
LICENSEE:



SHEET TITLE: GENERAL NOTES & SYMBOLS

SHEET NUMBER: G-1

REVISION: 4



NOTES TO CONTRACTOR:

1. REMOVE ALL EXISTING SPRINT ANTENNAS, MOUNTS, AND COAX FROM SITE.
2. NEW ANTENNAS AND MOUNTING HARDWARE TO BE PAINTED TO MATCH EXISTING WATER TANK.
3. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.



PROJECT INFORMATION:

NETWORK VISION SERVICES, INC.

JAMUL WATER TANK
 SD34XC522

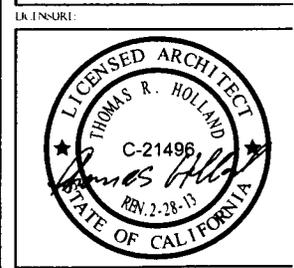
13619-13639 BEAR MOUNTAIN WAY
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SHEET TITLE: ENLARGED SITE PLAN

SHEET NUMBER: A-2 REVISION: 4

24"x36" SCALE: 3/16" = 1'-0"
 11"x17" SCALE: 3/32" = 1'-0"

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

ENLARGED SITE PLAN | 1



PROJECT INFORMATION:

NETWORK VISION AMHS LAUNCH

JAMUL WATER TANK SD34XC522

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

INCLUDED FOR:

REVISED CONSTRUCTION

REVISIONS

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4	01/04/13	REVISED CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

REGISTERED:



SHEET TITLE:

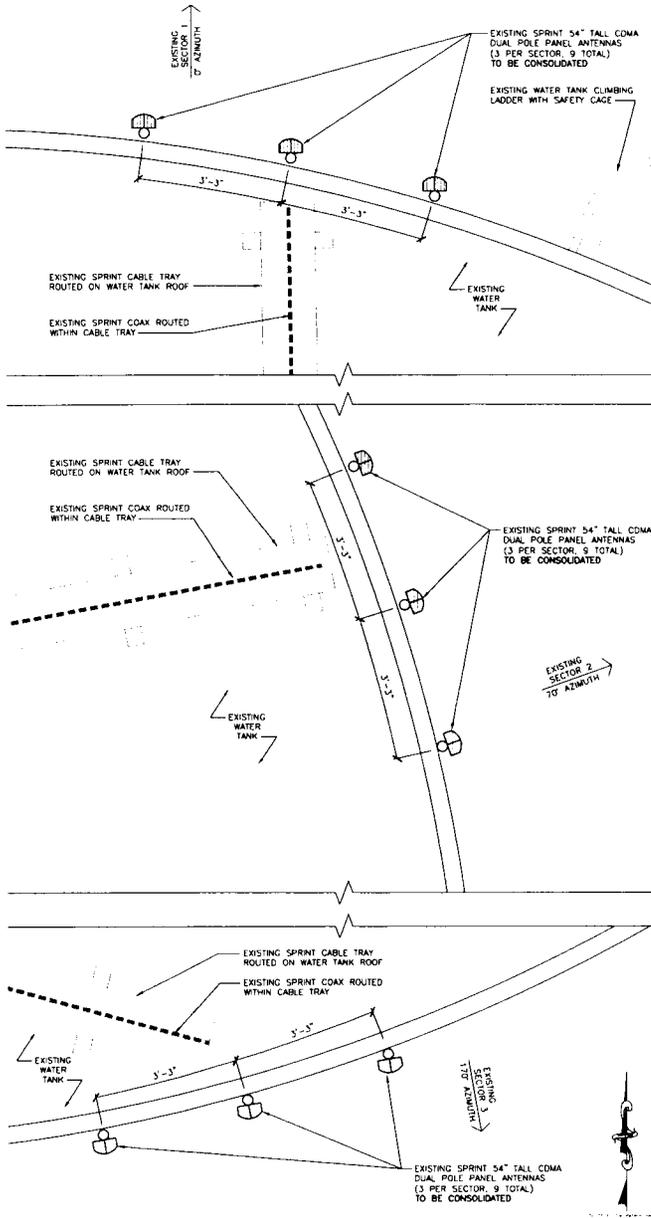
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AND ANTENNA PLAN

SHEET NUMBER:

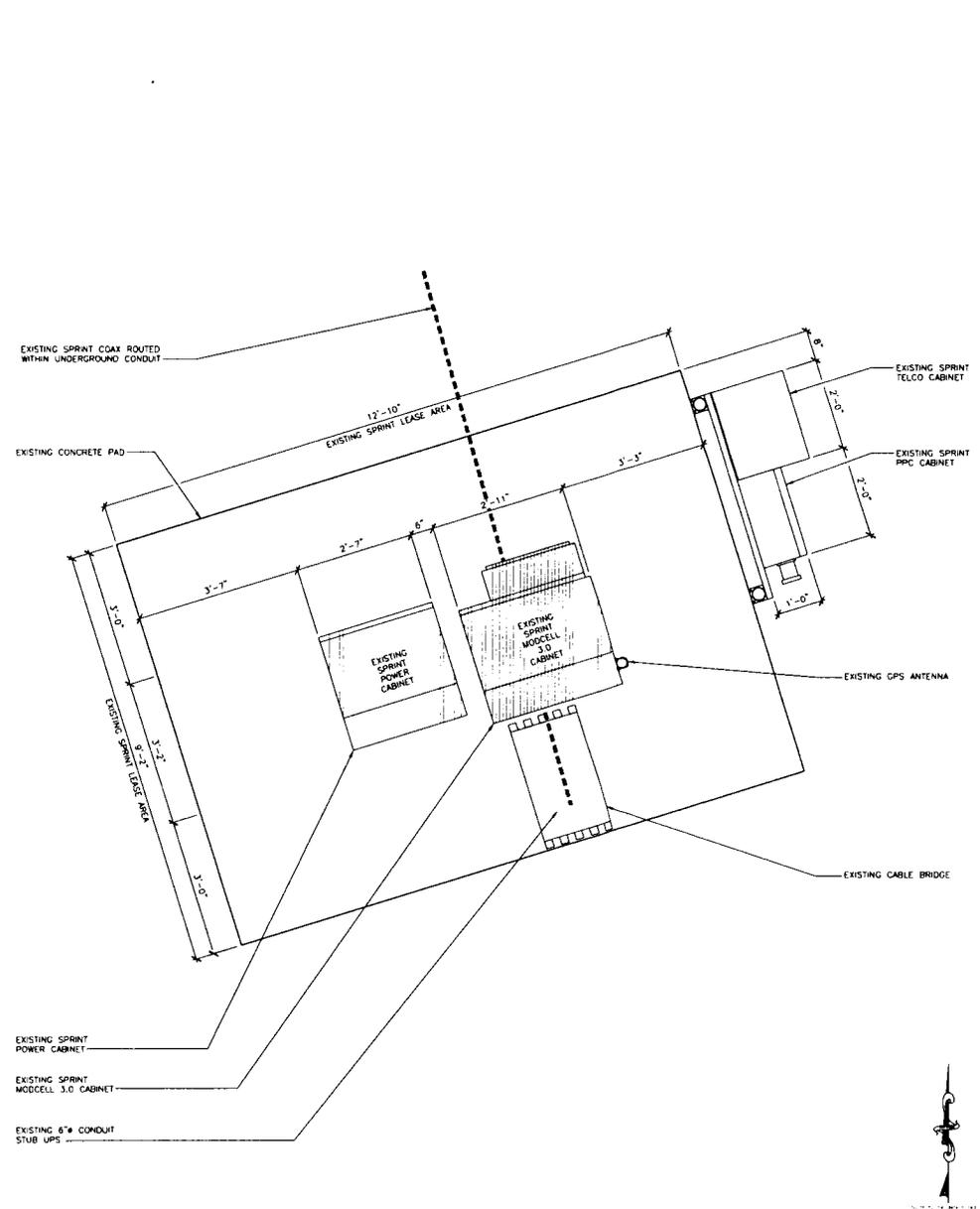
A-3

REVISION:

4



24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"
EXISTING ENLARGED ANTENNA PLAN 2

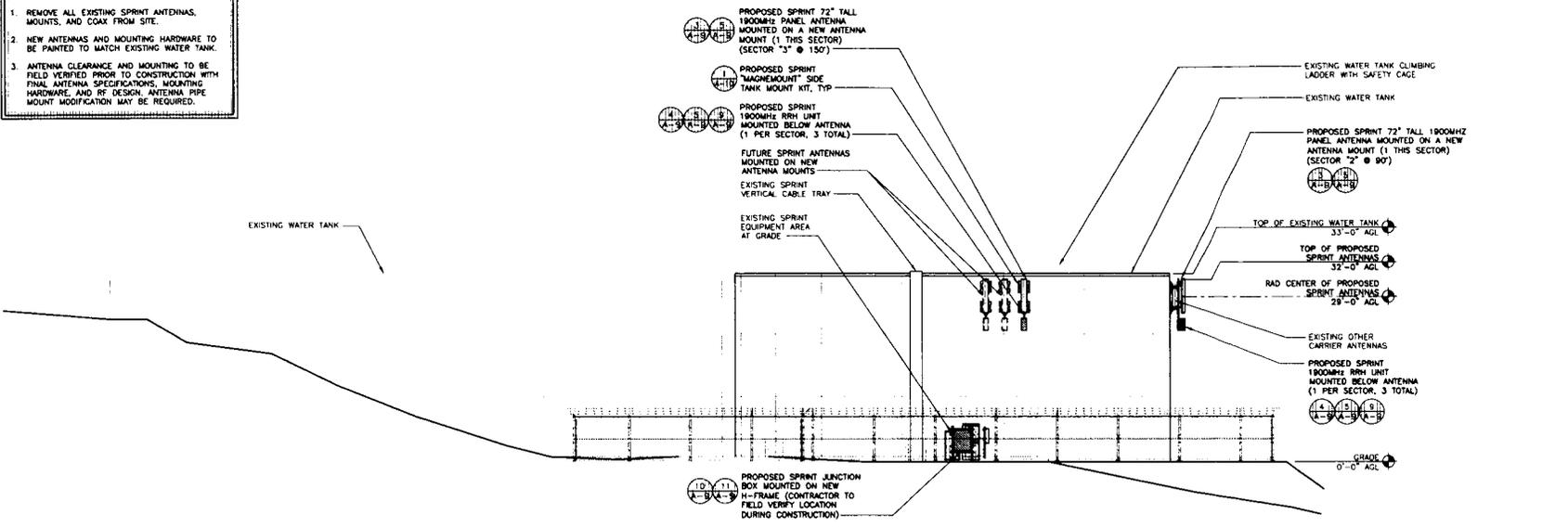


24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"
EXISTING ENLARGED EQUIPMENT PLAN 1

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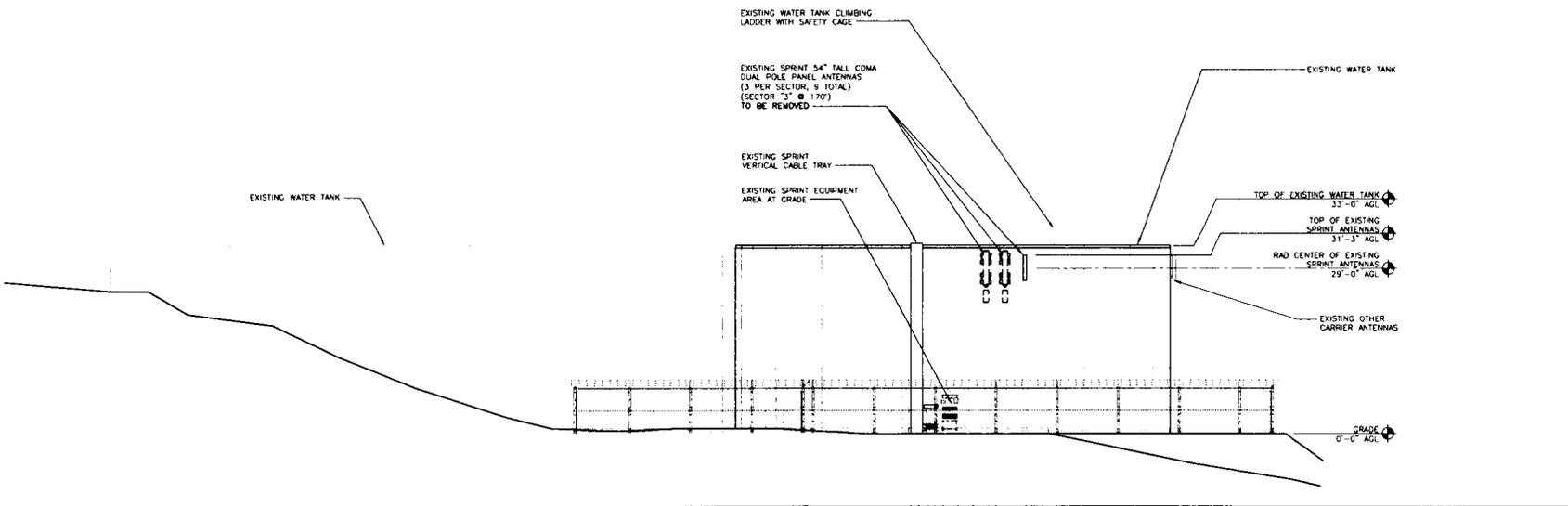
NOTES TO CONTRACTOR

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24"x36" SCALE: 1" = 10'-0"
 11"x17" SCALE: 1" = 20'-0"

PROPOSED SOUTH ELEVATION 2



24"x36" SCALE: 1" = 10'-0"
 11"x17" SCALE: 1" = 20'-0"

EXISTING SOUTH ELEVATION 1



PROJECT INFORMATION

NETWORK VISION MMBHSLAUN11

JAMUL WATER TANK
 SD34XC.522

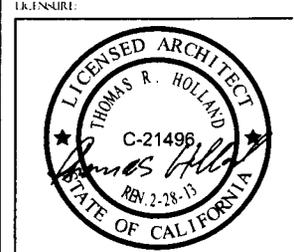
13619-13639 BEAR MOUNTAIN WAY
 JAMUL, CA 91935
 SAN DIEGO COUNTY

ISSUE DATE: 01/04/13

ISSUE FOR: REVISED CONSTRUCTION

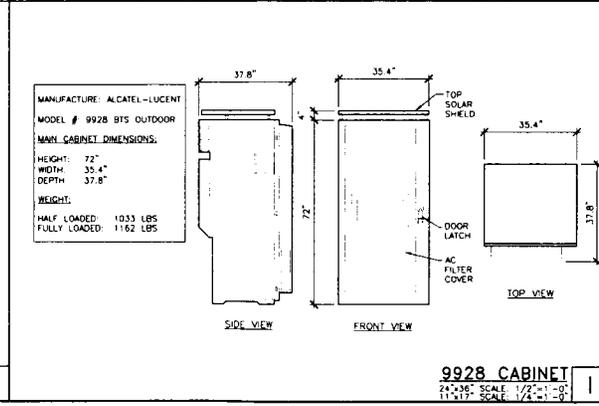
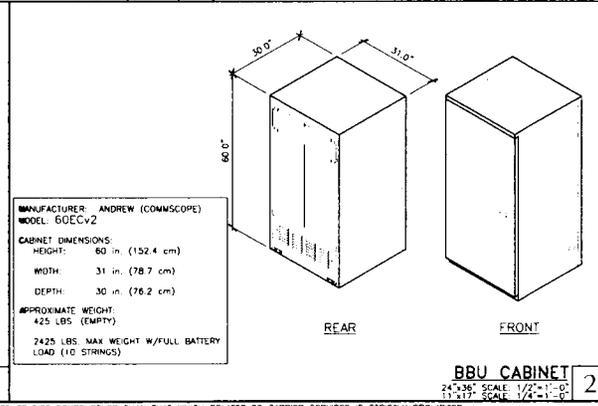
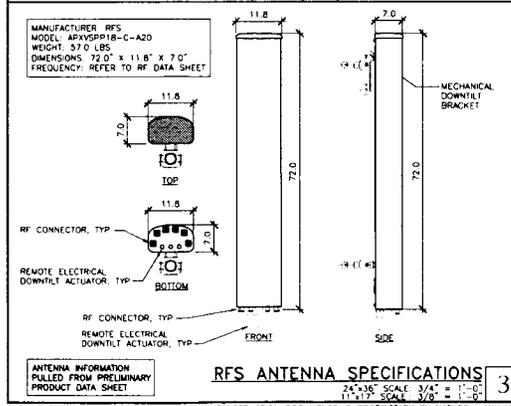
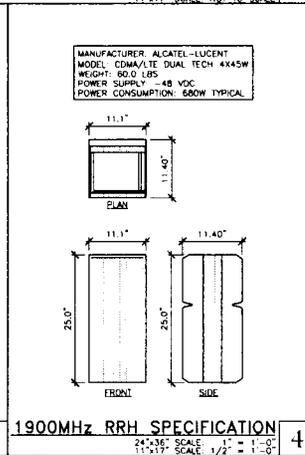
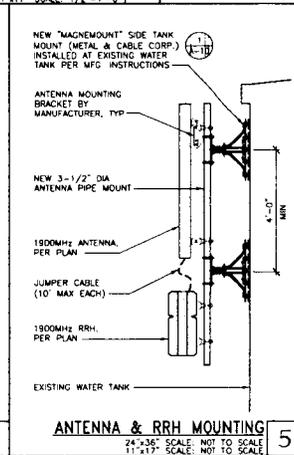
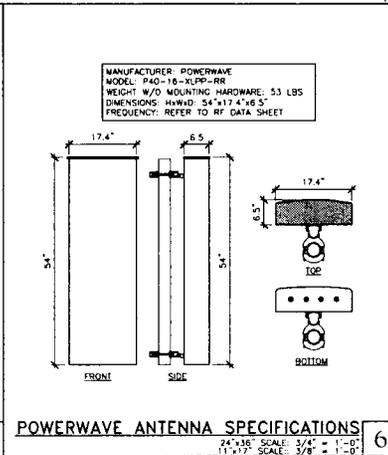
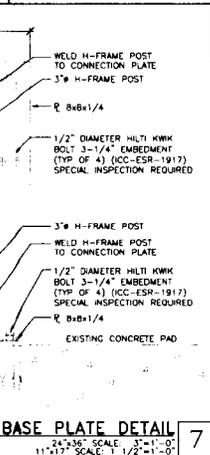
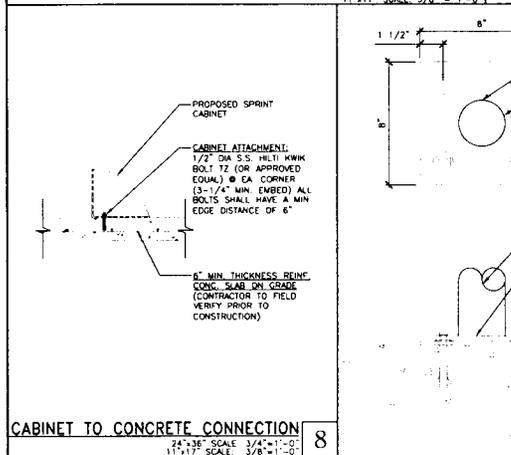
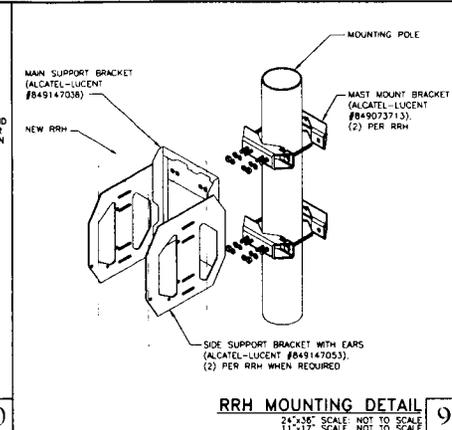
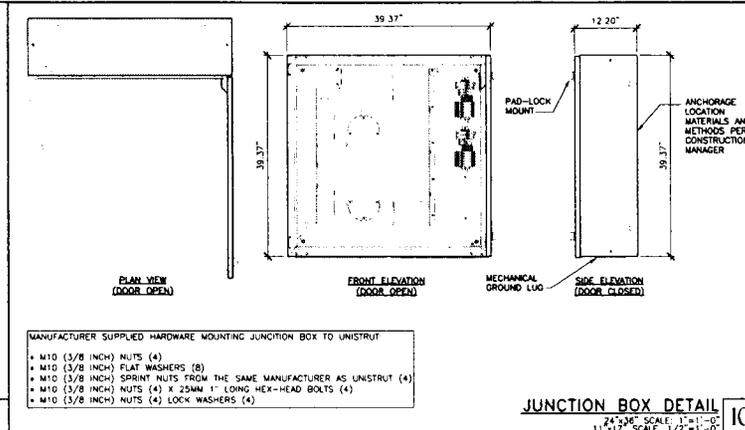
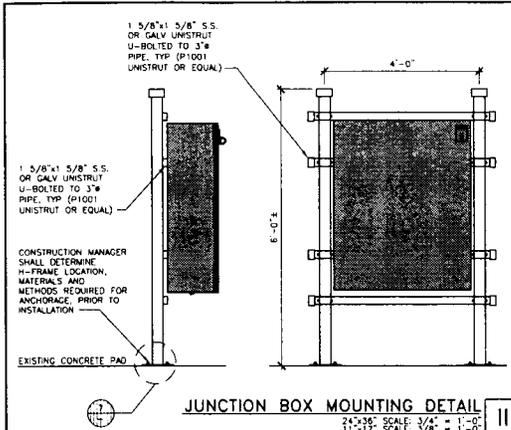
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2	08/31/12	ISSUED FOR REVISED CONSTRUCTION	RLD
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SHEET TITLE: EXISTING & PROPOSED SOUTH ELEVATION

SHEET NUMBER: A-7
 REVISION: 4



Sprint

Alcatel-Lucent

PTS
PACIFIC TELCOM SERVICES, LLC
3180C AIRPORT LOOP DRIVE
COSTA MESA, CA 92626

PROJECT INFORMATION

NETWORK VISION MMHSTAINC.H

JAMUL WATER TANK
SD34XC.522

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE: 01/04/13

ISSUE FOR: REVISED CONSTRUCTION

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LICENSEE:

LICENSED ARCHITECT
THOMAS R. HOLLAND
C-21496
REV. 2-28-13
STATE OF CALIFORNIA

SHEET TITLE: EQUIPMENT & CONSTRUCTION DETAILS

SHEET NUMBER: A-9

REVISION: 4

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 SD34XC522
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 SAN DIEGO COUNTY

ISSUE DATE:

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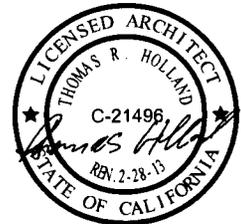
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CONSTRUCTION DETAILS

SHEET NUMBER:

A-10

REVISION:

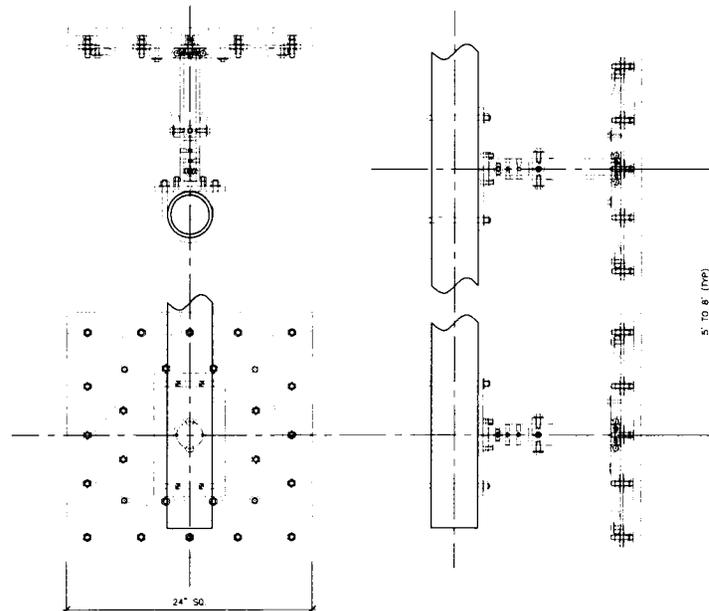
4

MFR INSTALLATION INSTRUCTIONS FOR THE MAGNEMOUNT TOWER SIDE MOUNT.

TOOLS NEEDED: 1/2" ANGLED BOX WRENCH, 9/16" AND 3/4" SOCKETS, TORQUE WRENCH.

1. PRIOR TO THE INSTALLATION OF THE MAGNEMOUNT - DO NOT REMOVE THE ATTACHED INSULATING CORRUGATED CARDBOARD BASE.
2. 1/3 OF THE MAST MUST BE ABOVE THE CENTER OF THE UPPER MAGNEMOUNT SECTION, AND 2/3 BELOW IT. KEEP FINGERS CLEAR OF THE MAGNETS WHEN LIFTING THE MOUNT INTO PLACE.
3. LAY OUT AND INSTALL BOTH SECTIONS OF THE MAGNEMOUNTS SO THAT THE BOLTHOLES ON THE PLATES ARE APPROXIMATELY VERTICAL.
4. REMOVE THE CARDBOARD BASE AND PLACE THE TOP MAGNEMOUNT ON THE TOWER WITH THE 2 CENTERLINES OF THE MAGNEMOUNT ALIGNED WITH THE VERTICAL INSTALLATION LINE. TO CORRECT ANY MISALIGNMENT, TAP THE PLATE WITH A LIGHT HAMMER.
5. REMOVE THE CARDBOARD BASE FROM THE SECOND MAGNEMOUNT. ALIGN IT WITH THE VERTICAL INSTALLATION LINE. PLACE IT SO THAT THE BOTTOM U-BOLT HOLES ARE NO MORE THAN 2/3 OF THE LENGTH OF THE MAST BELOW THE CENTER OF THE TOP MAGNEMOUNT.
6. TOTALLY LOOSEN THE 24 KEPS NUTS ON EACH MAGNEMOUNT TO ALLOW THE MAGNETS TO BE INDEPENDENTLY SEATED. (AT LEAST 1/4" ABOVE THE WASHER.)
7. FINGER TIGHTEN EACH KEPS NUT. THEN, WITH A HAND WRENCH ONLY, TURN EACH KEPS NUT 1 TURN TO SET THE TEETH.
8. INSTALL THE 4 U-BOLTS AND DOUBLE NUTS. SLIDE THE MAST THROUGH THE U-BOLTS. THE PLATES ROTATE TO ALLOW THE MAST TO ADJUST FOR MISALIGNMENT. IF IT IS NECESSARY TO ADJUST THE POSITION OF THE MAGNEMOUNTS FOR ALIGNMENT, TAP THE PLATE WITH A LIGHT HAMMER.
9. TIGHTEN THE DOUBLE NUTS ON EACH U-BOLT LEG AND TIGHTEN THE 2 BOLTS ON EACH SIDE OF THE SHORT MAST SECTION TO 20 FT-LB.
10. FOR SAFETY, TETHER THE MOUNT TO THE TOWER.

MANUFACTURER: METAL & CABLE CORP., INC.
 MODEL: SIDE TANK MOUNT
 PART#: STM



"MAGNEMOUNT" SIDE TANK MOUNT SPECIFICATIONS

24\"/>

LOADS
Design Criteria

- 2010 California Building Code
- ASCE 7-05

- Notes**
- Figure 6-21 C1
 - Force = p * CMA

Ice Wt = 56 pcf	Design Wind Pressure = 43.13 pcf
Design Ice Thickness = 1.40 in	Design Wind Pressure (Ice) = 4.17 pcf
Height of Component, z = 103 ft	Fp = 0.63 W (0.7E)
Sg = 1.500 g	G = 0.85 4.5 8.1

APPEARANCE	Manufacturer	Quantity	Blocked Face	Blocked Side	NOTICE	ICE						Overturning Moments					
						Weight lbs.	Force Face lbs.	Force Side lbs.	0.7Eh lbs.	0.7Ev lbs.	Weight lbs.	Force Face lbs.	Force Side lbs.	Height feet	Wind 1.0W lb-ft	Seismic 3.7E lb-ft	Wind (Ice) 1.0W lb-ft
H-Frame 2.1" x 4" Std. Steel Pipe	AISC Manual	2	0	0		69.60	149.07	149.07	48.86	14.42	141.74	23.02	23.32	3.8	223.60	111.44	34.23
Fiber Junction Box (Spant)	Spant	1	0	0		40.00	504.66	172.53	24.20	8.40	341.74	56.62	22.34	3.8	756.99	64.05	84.93
P1000 Unistrut x 4'-0"	Unistrut	4	2	0		30.24	93.46	186.91	19.05	6.36	142.35	20.13	40.26	3.8	140.18	48.42	30.20
Totals						139.84	747.2	586.5	88.1	27.6	445.8	77.8	85.3		1126.76	223.93	109.44

Bolt Spacing feet Min. Pipe (ASD) lb-ft 1120.78 Zx (max) in² 0.64 Min. 2" std. steel pipe

Bolts Per Face 2

Total bolts 4

ASD Load Combinations	Quantity	Roof Loads per Edge	
		Single Edge T lb	Single Edge C lb
D	1	49.94	67.72
1.0D+W	5	-2171.63	2311.47
0.6D+W	7	-2199.88	2281.51
1.0D+1.4SD+0.7E	5E	-348.65	617.74
0.6+1.4SD+0.7E	8E	-486.89	688.82
D+C 70%+0.7W	2I	22.44	664.63
0.6D+0.7D+0.7W	7I	3.63	628.66
Max Loads Wind		-2199.88	2311.47
Max Seismic Loads		-486.89	617.74

Bolt Load per Conn	Vertical		Lateral	
	T lb/bolt	C lb/bolt	T lb/bolt	Shear lb/bolt
	24.94	0.89	-1866.82	186.89
	-174.28	22.82	-202.94	22.82
	18.24	17.64	4.24	17.64
	-1899.88	186.88	-882.96	22.82

Bolts to Steel Platform / thru bolts to wood
1/2" A307 bolts (Max. T = 4.17 kips, Max. V = 2.359 kips)

0.33 O.K.

Bolts to Concrete Section
1/2" Hilti Fmk Bolt 1/2 3 1/4" min embed (Max. T = 2.028 kips, Max. V = 2.39 kips)
Cracked Concrete, Seismic Conditions, FC = 5,000 psi min

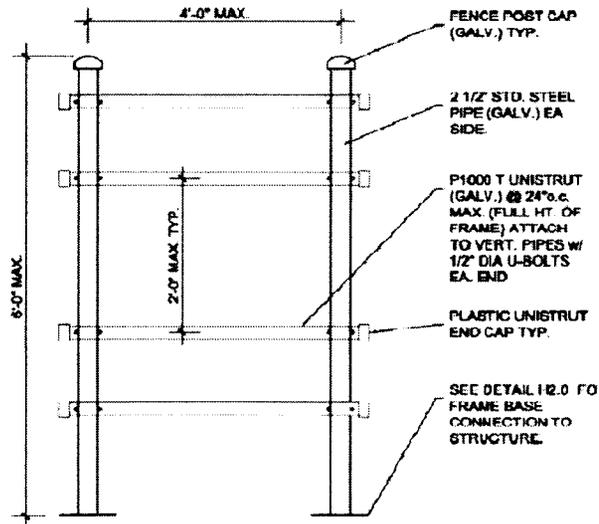
0.11 O.K.

Bolts to Concrete Wind
1/2" Hilti Fmk Bolt 1/2 3 1/4" min embed (Max. T = 2.600 kips, Max. V = 2.345 kips)
Cracked Concrete, Seismic Conditions, FC = 5,000 psi min

0.68 O.K.

6" x 6" x 1/4" base plate, 34 ksl, bolts of 4" o.c.
Zx = 0.78126 in²
Mmax = 1403.449 lb-ft

0.68 O.K.



H-FRAME CALCULATION DETAIL

24x36 SCALE NTS
11x17 SCALE NTS



PROJECT INFORMATION

NETWORK VISION ADMINISTRATION
JAMUL WATER TANK
SD34XC522
13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

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REVISED CONSTRUCTION

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SHEET TITLE:

H-FRAME CALCULATION DETAIL

SHEET NUMBER:

A-11

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4



LOADS
Design Criteria:
 • 2010 California Building Code
 • ASCE 7-05

Notes:
 • Figure 4.21-CF
 • Force in g/GWA
 • Center of gravity for beam load on cabinet is based on 20' dia height
 • Bx, By is max only of total

Use W₁ = 55 psf
 Dead Load Floor Live = 0.00 psf
 Height of Component = 8' 0"

Design Wind Pressure = 0.00 psf
 Design Wind Pressure = 0.00 psf
 Ex = 0.50 W
 Ex = 0.50 W
 Ex = 0.50 W
 Ex = 0.50 W

Use 1.00 p

NEW CABINET CONNECTION TO CONCRETE & THICK (MIN) SLAB-ON-GRADE:

APPLICABLE ANCHORS	Manufacturer	Quantity	NO ICE		NO ICE			ICE			Overturning Moments				
			Blocked	Blocked	Weight	Force Face	Force Side	OTM	Wind	Seismic	Wind Load				
Model					Weight	Force Face	Force Side	OTM	Wind	Seismic	Wind Load				
NEW Cabinet #8000 (Open)	MasterLock	1			2425.00	327.49	319.13	3228.90	932.46	0.00	0.00	0.00	823.74	4647.21	0.00
Total					2425.00	327.49	319.13	3228.90	932.46	0.00	0.00	0.00	823.74	4647.21	0.00

Minimum width (W) = 7.50 feet
 8.4N Per Face = 2
 Total Bolt = 4

ASB Load Combinations	Vertical	Soil Load per Cms.	
		Latent	Shear
D	1	464.74	0.00
D+L+W	5	464.80	83.37
D+L+W	7	464.80	83.37
(D+L+W)(1.25)+D(1.25)	5E	-71.07	301.48
(D+L+W)(1.25)+D(1.25)	5E	-153.90	301.48
D+L(1.25)+W	2I	464.80	0.00
D+L(1.25)+W	2I	-69.83	0.00
Max Load		-153.90	301.48

Notes to Concrete Sub-on-Grade:
 For 1/2" diameter S&H Bolt, Bolt to be 1/2" embedment in Max. F = 1004 kips; Max. V = 6765 kips
 Based on cracked concrete, seismic conditions

Design Requirements to be provided:
 a) provide concrete embedment
 b) provide 1/2" dia. bolt
 c) provide concrete repair to embed bolts

Use 1/2" diameter S&H Bolt (3-1/4" min embed) of each cabinet corner

MANUFACTURED BY: MASTER LOCK
 MODEL: 8000
 CABINET DIMENSIONS: 20' W x 20' D x 8' H
 WEIGHT: 2425 LBS (1102.2 KG)
 APPROXIMATE WEIGHT PLUS LBS (EMPTY): 2413 LBS (1094.7 KG)
 2413 LBS MAX WEIGHT PLUS ALL BATTERY LOAD (NO OTHERS)



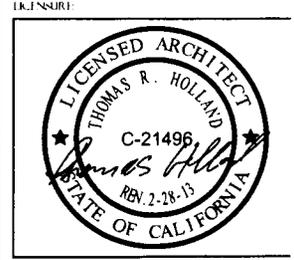
PROJECT INFORMATION:
 NETWORK VISION MMR15AUN.H
JAMUL WATER TANK
 SD34XC522
 13619-13639 BEAR MOUNTAIN WAY
 JAMUL, CA 91935
 SAN DIEGO COUNTY

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SHEET TITLE:
 CABINET STRUCTURAL CALCULATIONS DETAIL

SHEET NUMBER:
A-12

REVISION:
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CABINET STRUCTURAL CALCULATIONS DETAIL



Last Revision - 9/12/2011

1. Appendix A – Coaxial Cable Color Scheme

All cables shall be marked at the top and bottom with 2" colored tape, stencil tag colored tape, or colored heat shrink tubing. Colored tape may be obtained from Graybar Electronic. UV stabilized tape or heat shrink are preferred. The first ring shall be closest to the end of the cable, and 1" space between each ring. The cable color code shall be applied in accordance to table 1-1. Table 1-1 only shows 3 sectors but additional sectors are easily supported by adding the appropriate number of colored rings to the cable color code.

After the cable color code is applied the frequency color code, table 1-2, must be applied for the specific frequency band in use on a given line. A 2" gap shall separate the cable color code from the frequency color code. The 2" color rings for the frequency code shall be placed next to each other with no spaces.

Examples of the application of the cable and frequency color codes are shown in figure 1-1 and 1-2. Wrap 2" colored tape a minimum of 3 times around the circumference of the coax, keeping the tape in the same area as much as possible. This will allow the removal of tape that will be faded or discolored due to weather.



Last Revision - 9/12/2011

Table 1-1: Coaxial Cable Color Code

Sector	Cable	First Ring	Second Ring	Third Ring
1 Alpha	1		No Tape	No Tape
	2		No Tape	No Tape
	3		No Tape	No Tape
	4	White	No Tape	No Tape
	5		No Tape	No Tape
	6		No Tape	No Tape
	7		No Tape	No Tape
	8		No Tape	No Tape
2 Beta	1			No Tape
	2			No Tape
	3			No Tape
	4	White	White	No Tape
	5			No Tape
	6			No Tape
	7			No Tape
	8			No Tape
3 Gamma	1			
	2			
	3			
	4	White	White	White
	5			
	6			
	7			
	8			



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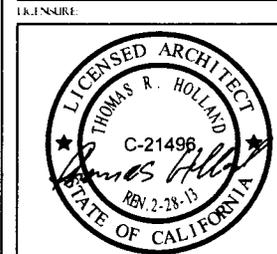
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 SAN DIEGO COUNTY

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SHEET TITLE:
 CABLE COLOR CODING REQUIREMENTS

SHEET NUMBER: **A-13** REVISION: 4



Last Revision - 9/12/2011

Table 1-2: Frequency Color Code

Frequency	Indicator	ID
800 #1	Yellow	
1900 #1	Yellow	
1900 #2	Yellow	
Reserved	Yellow	White
1600 #1	Yellow	

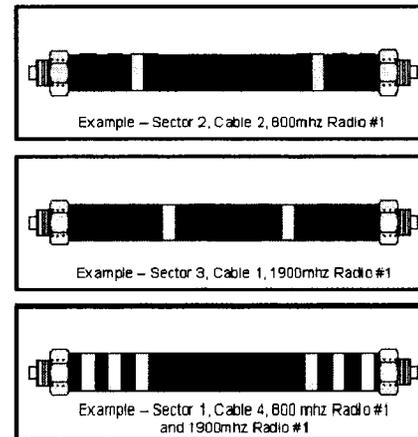
Official SprintNextel_Ant_and_Line_color_coding_V1.docx

3



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Figure 1-1: Coax Cable Color Code Example



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4



PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
JAMUL WATER TANK
 SD34XC522
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 JAMUL, CA 91935
 SAN DIEGO COUNTY

ISSUE DATE:

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4	01/04/13	REVISED CONSTRUCTION	AF

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CABLE COLOR CODING REQUIREMENTS

SHEET NUMBER:

A-14

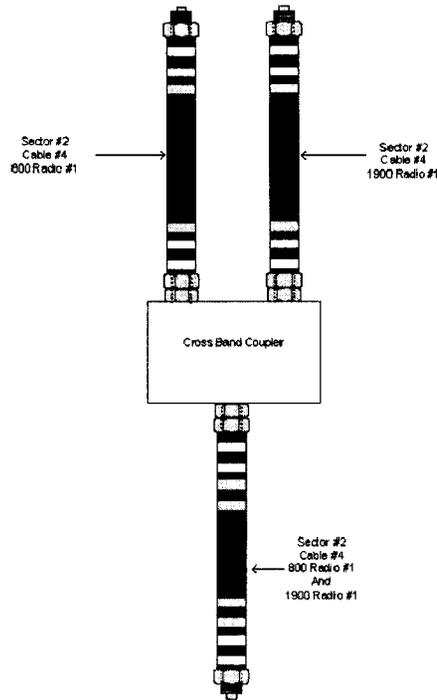
REVISION:

4



Last Revision - 9/12/2011

Figure 1-2: Coax Cable Color Coding Cross Band Coupler Example



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5



Last Revision - 9/12/2011

2. Appendix B - Hybrid Cable Color Scheme

Hybrid cable will be marked in a similar manner as coax cable described in the previous section. The main "trunk" of the hybrid cable will NOT be marked with the frequency code as the hybrid cable can contain all frequencies. The individual power pairs and fiber cables will be labeled with both the cable AND frequency markings. See Figure 2-1 as one example. The fiber and copper counts are just a representative of one possible configuration. Other fiber and power count combinations are possible.

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6



PROJECT INFORMATION:

NETWORK VISION MMBITS LAUNCH

JAMUL WATER TANK

SD34XC522

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE:

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CABLE COLOR CODING REQUIREMENTS

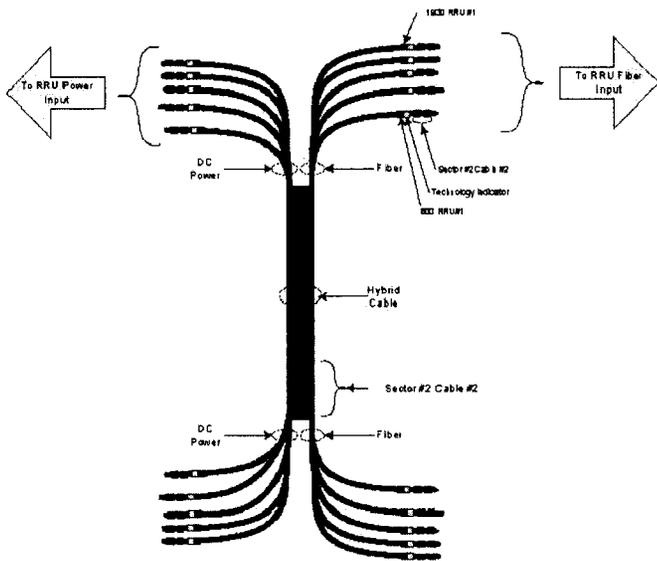
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REVISION

A-15

4

Figure 2-1. Hybrid Cabled Color Code Example



3. Appendix C - RRU and Combiner Cabling

Coax jumpers connecting between remote radio units, combiners, and antenna at the tower top will not use a color code labeling scheme. These jumpers will use an appropriate weather proof label on both ends near the connectors. The labeling scheme will be determined by the OEM installation team. Each label will uniquely identify each jumper/cable.

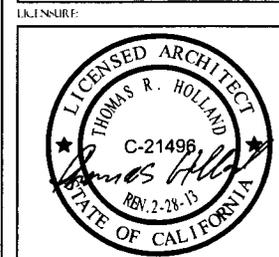
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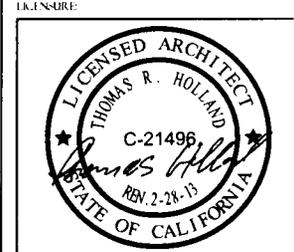
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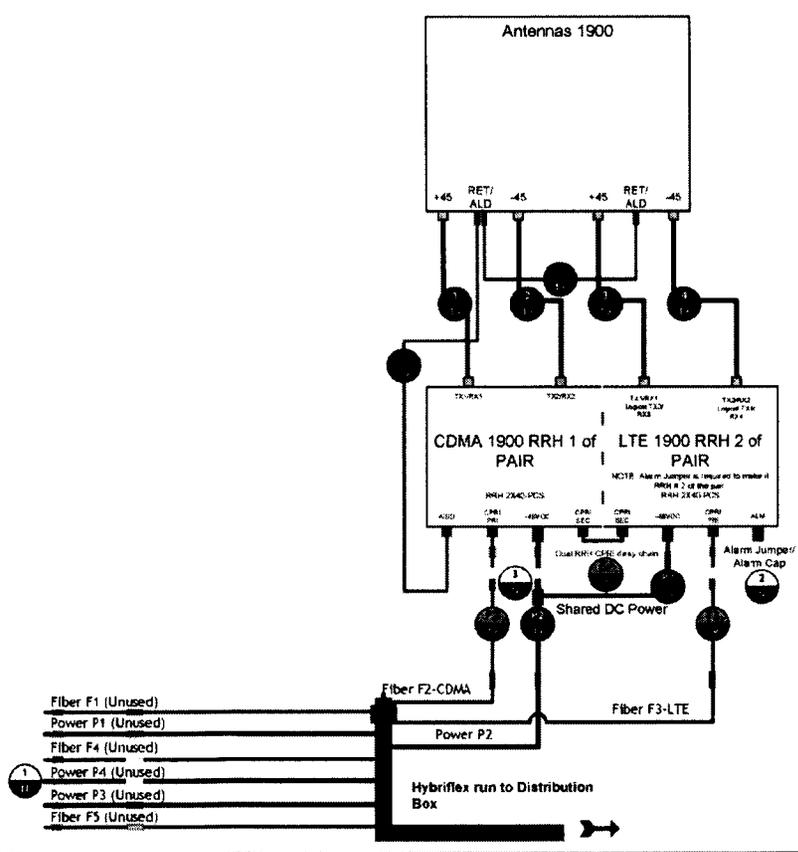


SHEET TITLE:
 PLUMBING DIAGRAMS

SHEET NUMBER: **A-17**
 REVISION: 4

TOWER TOP SCENARIO 6

SINGLE 1900 RRH PAIR with no 800 RRH Equipped



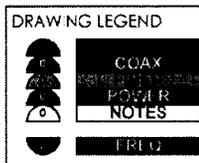
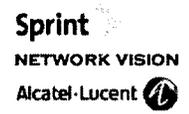
Power Feed Polarity Definition:
 Black = -48VDC Feed (Battery)
 Black/White Stripe = Return

NOTE: For power feed use the same Hybriflex OEM color designator as the fiber.

MM Pair 1 = F1 = Green = P1 (Green)
 MM Pair 2 = F2 = Blue = P2 (Blue)
 MM Pair 3 = F3 = Red = P3 (Red)
 MM Pair 4 = F4 = Yellow = P4 (Yellow)
 MM Pair 5 = F5 = Orange = (No P5 power feed)

OEM COLOR CODE
 HYBRIFLEX

J. STEVE WILSON
 STEVE.WILSON@NCSYSTEMS.NET
 PH: 9122460527



SEE CONNECTION LEGEND FOR MORE DETAILS

SCENARIO 6 V1.6.VSD

SHEET DESCRIPTION
TOWER TOP

SHEET NUMBER
S6-TT



PROJECT INFORMATION:

NETWORK VISION MMRIS LAUNCH
JAMUL WATER TANK
 SD34XC522
 13619-13639 BEAR MOUNTAIN WAY
 JAMUL, CA 91935
 SAN DIEGO COUNTY

ISSUE DATE:
 01/04/13

ISSUE WORK:
 REVISED CONSTRUCTION

REVISIONS			
REV	DATE	DESCRIPTION	INITIAL
0	05/21/12	ISSUED FOR 90% CD REVIEW	CBK
1	07/16/12	REVISED 90% CONSTRUCTION	AF
2	08/31/12	ISSUED FOR REVISED CONSTRUCTION	RLD
3	10/17/12	CONDITION OF APPROVAL	RLD
4	01/04/13	REVISED CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
 LABELED AS CONSTRUCTION SET

LICENSEE:



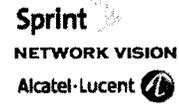
SHEET TITLE:
 PLUMBING DIAGRAMS

SHEET NUMBER: REVISION:

A-18

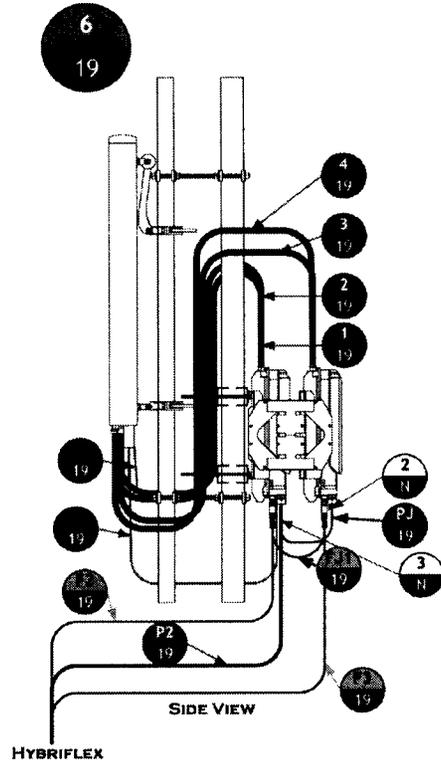
4

I. STEVE WILSON
 STEVE.WILSON@NCS1TECH.NET
 PH: 9122460227



**SITE CONNECTIONS
 AND IDENTIFICATION
 DIAGRAMS**

SHEET DESCRIPTION
TOWER TOP DETAIL
 SHEET NUMBER
S6-TTD





PROJECT INFORMATION

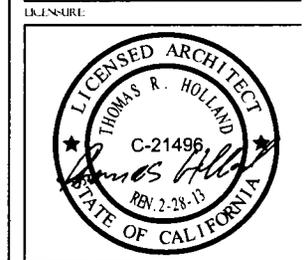
NETWORK VISION MMBIS LAUNCH
JAMUL WATER TANK
 SD34XC522
 13619 - 13639 BEAR MOUNTAIN WAY
 JAMUL, CA 91935
 SAN DIEGO COUNTY

ISSUE DATE: 01/04/13

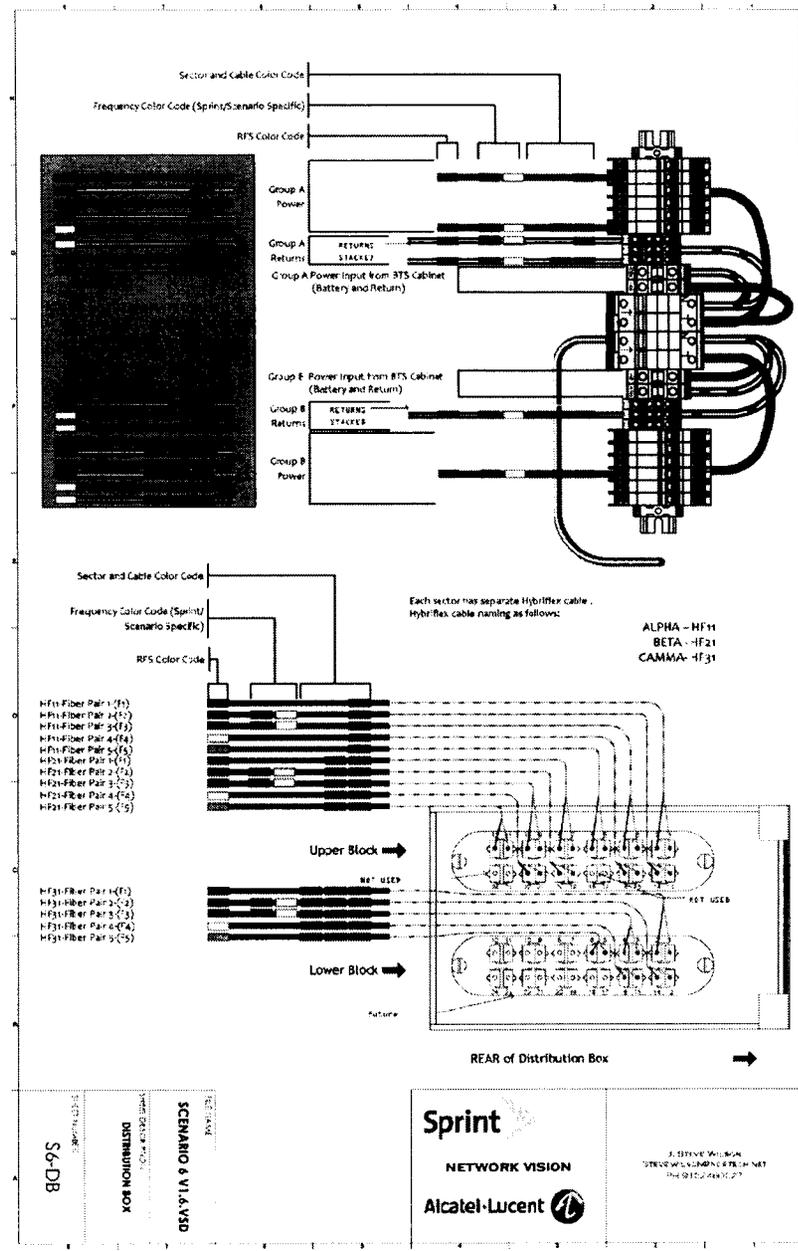
INDUSTRY: REVISED CONSTRUCTION

REVISIONS				
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1	07/16/12	REVISED 90% CONSTRUCTION	AF	
2	08/31/12	ISSUED FOR REVISED CONSTRUCTION	RLD	
3	10/17/12	CONDITION OF APPROVAL	RLD	
4	01/04/13	REVISED CONSTRUCTION	AF	

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SHEET TITLE: PLUMBING DIAGRAMS
 SHEET NUMBER: A-19
 REVISION: 4





PROJECT INFORMATION:

NETWORK VISION MMIBS LAUNCH II

JAMUL WATER TANK

SD34XC522

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUED FOR:

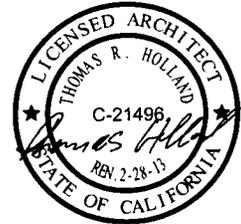
REVISED CONSTRUCTION

REVISIONS

REV	DATE	DESCRIPTION	INITIAL
0	05/21/12	ISSUED FOR 90% CD REVIEW	CBK
1	07/16/12	REVISED SD34 CONSTRUCTION	AF
2	08/31/12	ISSUED FOR REVISED CONSTRUCTION	RLO
3	10/17/12	CONDITION OF APPROVAL	RLO
4	01/04/13	REVISED CONSTRUCTION	AF

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSEE:



SHEET TITLE:

PLUMBING DIAGRAMS

SHEET NUMBER:

A-21

REVISION:

4

J. STEVE WILSON
STEVE.WILSON@NCS.TECH.NET
PH 9122460227



SCENARIO 6 V1.6.VSD

SHEET DESCRIPTION
NOTES 1

SHEET NUMBER
S6-N1

REVISIONS/CHANGES

12/16/11 V1.3
Initial release
01/19/12 V1.4 Draft
Removed revision blocks on drawings.
01/25/12 V1.5
Changed Distribution Box diagrams. Spares do not get terminated to breakers

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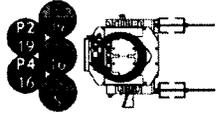
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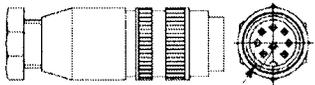
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A

A

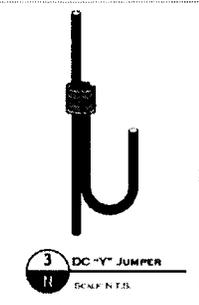


1 SPARE FIBER AND POWER CABLE MANAGEMENT
SCALE: 1:1.5



2 8 Pin DIN MALE Connector with Pins 3-8 Shorted

ALARM CAP
SCALE: N.T.S.



3 DC-Y JUMPER
SCALE: N.T.S.

8

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PROJECT INFORMATION

NETWORK VISION A/V/BTS LAUNCH

JAMUL WATER TANK

SD34XC522

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUE DRAW:

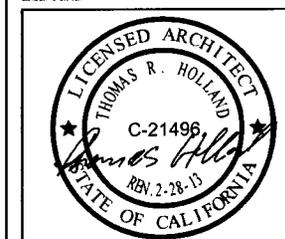
REVISED CONSTRUCTION

REVISIONS

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LICENSE:



SHEET TITLE:

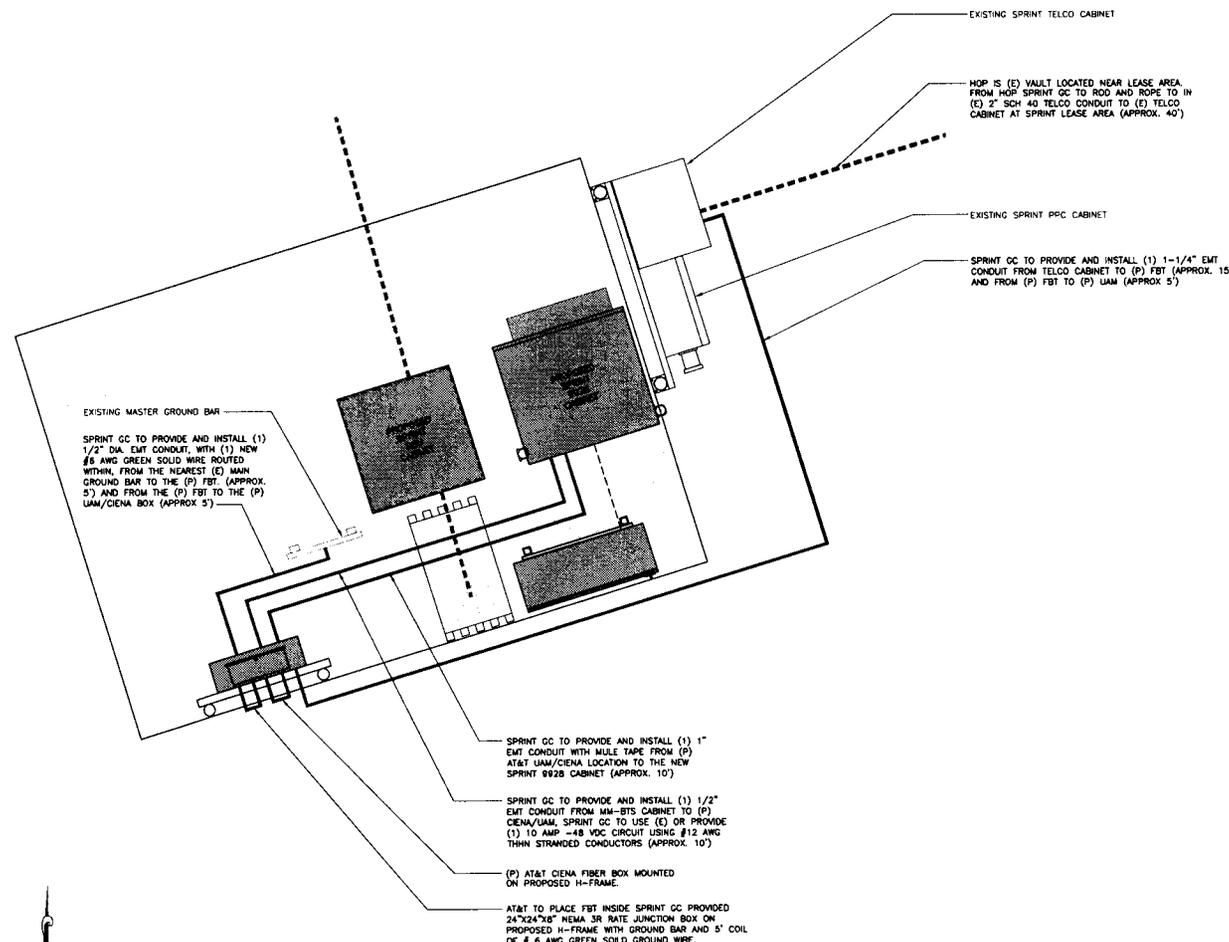
FIBER PLAN

SHEET NUMBER:

F-1

REVISION:

4



SCOPE OF WORK:

ACCESS NOTE: NO ACCESS RESTRICTIONS WATER TANKS ARE ON HILL. ROAD GATE COMBO IS *2207. COMBO LOCK IS 9168.

AVG HOP/FIBER PATH: HOP IS (E) VAULT LOCATED NEAR LEASE AREA FROM HOP SPRINT GC TO ROD AND ROPE TO IN (E) 2" SCH 40 TELCO CONDUIT TO (E) TELCO CABINET AT SPRINT LEASE AREA (APPROX. 40').

AT&T FIBER PATH: SPRINT GC TO PROVIDE AND INSTALL (1) 1-1/4" EMT CONDUIT FROM TELCO CABINET TO (P) FBT (APPROX. 15') AND FROM (P) FBT TO (P) UAM (APPROX. 5').

FBT LOCATION: AT&T TO PLACE FBT INSIDE SPRINT GC PROVIDED 24"x24"x6" NEMA 3R RATE JUNCTION BOX W/ PLYWOOD BACKBOARD WITH GROUND BAR AND 5' COIL OF # 6 AWG GREEN SOLID GROUND WIRE MOUNTED ON (P) H-FRAME BELOW CIENA/UAM.

EQUIPMENT: SPRINT GC TO PROVIDE AND INSTALL THE PROPOSED H-FRAME. SPRINT GC TO INSTALL THE AT&T SUPPLIED UAM AND BRACKET ON (P) H-FRAME. AT&T TO PROVIDE AND INSTALL CIENA BOX ON SPRINT GC PROVIDED AND INSTALLED H-FRAME.

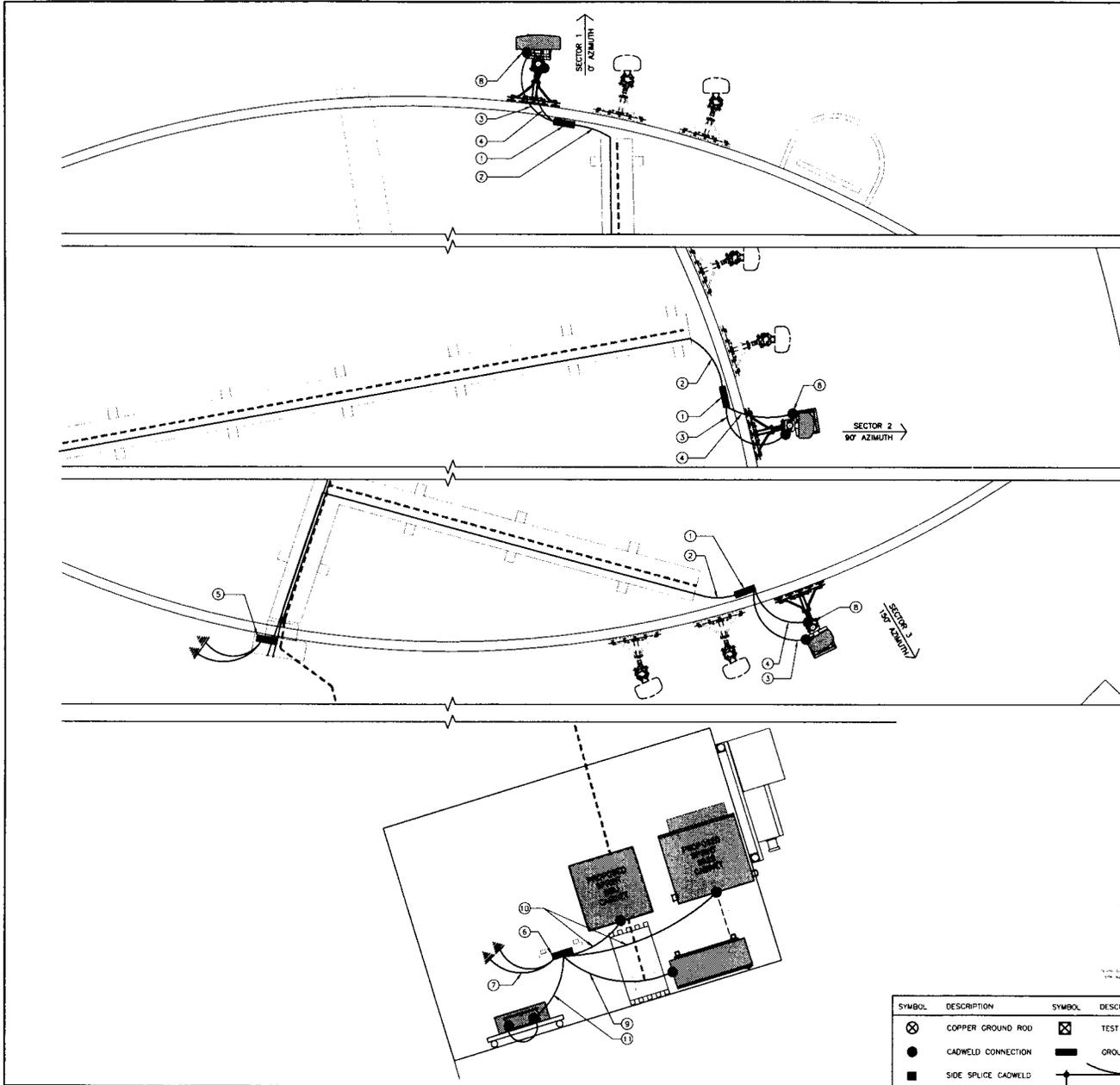
POWER: SPRINT GC TO PROVIDE AND INSTALL (1) 1/2" EMT CONDUIT FROM MM-BTS CABINET TO (P) CIENA/UAM, SPRINT GC TO USE (E) OR PROVIDE (1) 10 AMP -48 VDC CIRCUIT USING #12 AWG THIN STRANDED CONDUCTORS (APPROX. 10').

GROUNDING: SPRINT GC TO PROVIDE AND INSTALL (1) 1/2" DIA. EMT CONDUIT WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN, FROM THE NEAREST (E) MAIN GROUND BAR TO THE (P) FBT (APPROX. 5') AND FROM THE (P) FBT TO THE (P) UAM/CIENA BOX (APPROX. 5').

CUSTOMER FIBER PATH: SPRINT GC TO PROVIDE AND INSTALL (1) 1" EMT CONDUIT WITH MULE TAPE, FROM (P) AT&T UAM/CIENA LOCATION TO THE (E) SPRINT MM-BTS CABINET (APPROX. 10').

At all new services & grounding trenches, provide "WARNING" tape at 12" below grade.

DIG ALERT
"CALL BEFORE YOU DIG"
1-800-227-2600
UTILITY NOTIFICATION CENTER OF SOUTHERN CALIFORNIA



24"x36" SCALE: 1/2" = 1'-0"
 11"x17" SCALE: 1/4" = 1'-0"

SCHEMATIC GROUNDING PLAN

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

- GROUNDING KEYED NOTES:**
- ANTENNA GROUND BUS BAR NEAR ANTENNA MOUNTS. SEE DETAIL 2/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 2/E-2 FOR GROUND WIRE CONNECTIONS.
 - #6 AWG GROUND FROM ANTENNA GROUND BUS BAR TO EXISTING GROUND BUS BAR NEAR GRADE (TYP OF 2 PLACES)
 - #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUS BAR (TYP OF 3). SEE DETAIL 2/E-2
 - #6 AWG GROUND FROM RRH UNITS TO ANTENNA GROUND BUS BAR. SEE DETAIL 2/E-2
 - EXISTING TOWER GROUND BUS BAR GROUND BUS BAR NEAR GRADE. SEE 2/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 2/E-2 FOR GROUND WIRE INSTALLATION
 - EXISTING GROUND BUS BAR NEAR EQUIPMENT. SEE DETAIL 2/E-2 FOR GROUND BAR CONSTRUCTION. SEE DETAIL 2/E-2 FOR GROUND WIRE CONNECTIONS.
 - #6 AWG GROUND FROM EXISTING GROUND BUS BAR TO THE INTO EXISTING GROUNDING SYSTEM (TYP OF 2 PLACES)
 - CAD WELD (TYP), SEE DETAIL 1/E-2
 - #6 AWG GROUND FROM FIBER JUNCTION BOX TO THE INTO EXISTING GROUND BUS BAR. SEE DETAIL 2/E-2
 - #6 AWG GROUND FROM 9928 CABINET AND BBU CABINET TO THE INTO EXISTING GROUND BUS BAR. SEE DETAIL 2/E-2
 - #6 AWG GROUND FROM CIENA FIBER BOX TO JUNCTION BOX FROM JUNCTION BOX TO THE INTO EXISTING GROUND BUS BAR. SEE DETAIL 2/A-2

GROUNDING NOTES & LEGEND

GENERAL GROUNDING NOTES

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND ITS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING NER'S PRACTICES.
- SOME GROUND CONNECTIONS SHALL BE CADWELDED. ALL WIRES SHALL BE COPPER THIN/THIN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
- CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY SPRINT WIRELESS, LLC REPRESENTATIVE.
- REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS. ELECTRICAL CONTRACTOR SHALL OBTAIN, REVIEW, PROVIDE TRAINING AND FULLY IMPLEMENT ALL GUIDELINES & REQUIREMENTS ASSOCIATED WITH SPRINT STANDARD GROUNDING METHODS FOR ROOF TOP INSTALLATIONS. INCLUDING METHOD FOR CONNECTIVITY FROM ROOF TOP MGB TO BUILDING GROUND SYSTEM (SPRINT STANDARD GROUNDING METHODS MOST RECENT REVISIONS SHALL BE REFERENCED)
- ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED SPRINT MOBILITY REPRESENTATIVE. PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING
- NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE CONDITIONS.

GROUNDING ROD NOTES
(WHERE APPLICABLE)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊗	COPPER GROUND ROD	⊠	TEST WELL
●	CADWELD CONNECTION	▬	GROUND BAR
■	SIDE SPLICE CADWELD	⊕	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM

REVISIONS

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0	05/21/12	ISSUED FOR 90% CD REVIEW	CBK
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3	10/17/12	CONDITION OF APPROVAL	RLD
4	01/04/13	REVISED CONSTRUCTION	AF

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4	01/04/13	REVISED CONSTRUCTION	AF



PROJECT INFORMATION:

NETWORK VISION MMBTSLAUN11

JAMUL WATER TANK
 SD34XC522

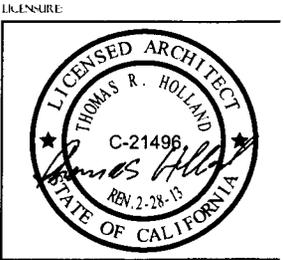
13619-13639 BEAR MOUNTAIN WAY
 JAMUL, CA 91935
 SAN DIEGO COUNTY

ISSUE DATE: 01/04/13

ISSUE FOR: REVISED CONSTRUCTION

REVISIONS

REV.	DATE	DESCRIPTION	INITIAL
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3	10/17/12	CONDITION OF APPROVAL	RLD
4	01/04/13	REVISED CONSTRUCTION	AF



SHEET TITLE: SCHEMATIC GROUNDING PLAN

SHEET NUMBER: E-1

4



PROJECT INFORMATION:

NETWORK VISION WMBIS-LAMPULH

JAMUL WATER TANK

SD34XC522

13619-13639 BEAR MOUNTAIN WAY
JAMUL, CA 91935
SAN DIEGO COUNTY

ISSUE DATE:

01/04/13

ISSUE NO.:

REVISED CONSTRUCTION

REVISIONS

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3	10/17/12	CONDITION OF APPROVAL	RLD
4	01/04/13	REVISED CONSTRUCTION	AF

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LABELED AS CONSTRUCTION SET

EXPIRES:



SHEET TITLE:

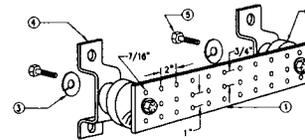
GROUNDING DETAILS

SHEET NUMBER

REVISION

E-2

4



NOTE:

1. GALVANIZED STEEL GROUND BAR. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS NEWTON INSTRUMENT CAT NO 3061-4 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-B OR APPROVED EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO A-6056 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO 3012-1 OR APPROVED EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS
7. NETWORK VISION WMBIS DEPLOYMENTS INSTALLED AT LEGACY CDMA OR IDEN SITES SHALL USE THE EXISTING COPPER GROUND BARS IF THEY ARE PRESENT. IF THE COPPER GROUND BARS HAVE BEEN STOLEN THEY SHALL BE REPLACED WITH THE STAINLESS STEEL BAR AF000063 - MIN 010326 FOR WMBIS OUTDOOR AND AF000063 - MIN 010330 FOR LEGACY SHELTER CELL SITES

NOT USED

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

10

GROUND BAR (IF REQUIRED)

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

9

NOT USED

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

8

NOT USED

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

7

NOT USED

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

6

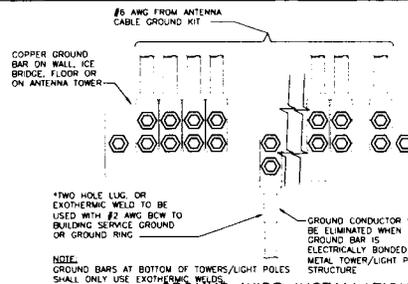
ELECTRICAL NOTE

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

5

NOTE(S):

1. EXISTING SINGLE PHASE, 120/240 VAC, 60HZ SERVICE WILL PROVIDE SUFFICIENT POWER REQUIREMENTS FOR NEW PROPOSED SPRINT EQUIPMENT, CABLES & ANTENNA UPGRADES



GROUND WIRE INSTALLATION

NOT USED

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

4

NOT USED

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

3

NOT USED

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

2

CADWELD GROUNDING CONNECTIONS

24'-36" SCALE: NOT TO SCALE
11'-17" SCALE: NOT TO SCALE

1

FIRST AMENDMENT TO LEASE

This First Amendment to Lease (the "First Amendment") is made this day of ____, 2013, ("Effective Date") by and between Otay Water District ("OTAY") and Sprint PCS Assets, L.L.C., a Delaware limited liability company ("TENANT"), with reference to the facts set forth in the Recitals below:

RECITALS

- A. OTAY is the owner of that certain real property and facility known as the "Singing Hills" (803-3) Reservoir Site (the "Property").
- B. OTAY and TENANT are parties to that certain Lease dated December 8, 2000 (the "Lease" or "Agreement") pursuant to which TENANT is leasing from OTAY land at the Property, together with the right of access to and from the nearest public right-of-way and the right to install utilities (collectively, the "Premises").
- C. Tenant has requested a modification to the type and mounting of the Improvements currently on the Premises (the "New Improvements").
- D. OTAY and TENANT have agreed to amend the Agreement to memorialize the addition of the New Improvements to the Premises.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. **New Improvements.** OTAY consents to TENANT construction and installation of new communications facilities, as more particularly described and depicted on Exhibit "B-1" which is attached hereto and made a part hereof. The parties acknowledge and agree that the attached Exhibit "B-1" is intended to supplement the Exhibit "B" attached to the Agreement.
2. **Governmental Approvals.** Any required permits for the use or operation of the New Improvements shall be obtained by TENANT at TENANT's sole expense. Furthermore, it is understood and agreed that TENANT's ability to install the New Improvements is contingent upon its obtaining all of the certificates, permits and other approvals that may be required by any Federal, State or Local authorities which will permit TENANT to install and operate the New Improvements within the Premises. OTAY agrees, at no expense to OTAY, to reasonably cooperate with TENANT in making application for and obtaining all governmental licenses, permits and approvals that may be required for TENANT'S intended use of the Premises.
3. **Amended Provisions.** The following provisions shall be amended as follows:
 - 3a. Section 5; Rent shall be replaced with the following:

5.1 Tenant agrees to pay all costs and expenses incurred by Otay in connection with the Facilities and this Agreement, including negotiation and processing hereof, plan checking and inspection of Tenant facilities, costs of inspection, repairs or replacement of any Otay facilities affected or damaged, and all other costs or expenses of Otay attributable to the matters herein contemplated, plus a reasonable amount for Otay's overhead costs in connection therewith.

a. **Deposit.** Tenant has made a deposit, concurrent with its application, and has agreed to make any additional deposits required in connection with Otay's review of the application, negotiation of this Agreement, including legal review, site visits, review of drawings and other costs relating such matters incurred by Otay up to the time this Agreement is executed. Tenant forfeits any claim to such deposits except to the extent Otay determines after this Agreement is executed that amounts in excess of the District's costs and expenses have been paid. Any such excess amounts may, at the sole discretion of the District, be credited toward administrative fees or any other costs then due by Tenant, if any. If no amounts are due, excess deposits will be reimbursed to Tenant.

b. **Administrative Fees.** Administrative fees may be charged at Otay's discretion during the Term to recover costs and expenses incurred by Otay, including but not limited to attorneys and consultant's fees, review, processing of Tenant's conditional use permits, inspection of the Facilities during construction and other related costs if any, in connection with any Tenant activity that requires Otay staff to spend time in supervision, inspection, investigation or other review; such costs include but are not limited to any amendments to this Agreement, any default or any failure of Tenant to secure or renew any permit, approval, license or easement and any investigation Otay deems reasonably required in connection with the Premises or the Facilities, including without limitation any investigation of a potential contamination of any portion of the Property due to any Tenant activity or improvement.

c. **Security Deposit.** Concurrently upon execution of this Agreement, Tenant shall pay to Otay a sum equal to two months' rent as a deposit ("Security Deposit") to secure the Tenant's performance of the covenants contained herein. Tenant shall maintain the Security Deposit balance equal to the amount established herein over the life of the agreement. If Otay applies any portion of the Security Deposit, Tenant shall within 30 days after demand by Otay, deposit an amount sufficient to restore the Security Deposit to its original amount. No part of the Security Deposit is to be considered as an advance payment of rent, including last months' rent, nor is it to be used or refunded prior to the leased premises being permanently and totally vacated by the Tenant. After the Tenant has vacated the premises, Otay shall furnish Tenant with an itemized written statement of the basis for, and the amount of, any of the security deposit retained by Otay. Otay may withhold that portion of Tenant's security deposit necessary (a) to remedy any default by Tenant in the payment of rent or any other provision

of this Agreement, (b) to repair damages to the premises or any expense, loss, or damage that Otay may suffer because of Tenant's default, (c) to restore the premises to meet Otay's standards, (d) any amount that Otay may incur or become obligated to spend in exercising Otay's rights under this Agreement or available at law. The unused portion of this deposit shall be returned to the Tenant without interest no later than 60 days after termination of this Agreement.

Tenant waives the provisions of California Civil Code §1950.7, and all other provisions of law now in force or that become in force after the date of execution of this Agreement, that provide that Otay may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of accrued Rent, to repair damage caused by Tenant, or to clean the Premises. Otay and Tenant agree that Otay may, in addition, claim those sums reasonably necessary to compensate Otay for any other foreseeable or unforeseeable loss or damage caused by the act or omission of Tenant or Tenant's officers, agents, employees, Independent contractors, or invitees, including future rent payments.

d. None of the deposits or other payment of costs or administrative fees constitutes or shall be considered Rent (defined below).

5.2 Beginning on the Commencement Date, Tenant shall pay Otay as rent the sum of \$2,000.00 per month ("Rent") payable on the first day of each month in advance. If the Commencement Date is prior to the fifteenth day of the month of commencement, the full month's Rent will be due on the Commencement Date. If the Commencement Date is on or after the fifteenth day of the month of commencement, payment of Rent will begin the first day of the following month.

Tenant may make Rent payments up to 5 days past due date without penalty, unless continual late payments for two consecutive months occur. A fee shall be imposed after the 5th day and shall be 20% of the amount currently due. Failure to pay Rent within ten (10) calendar days of the first of the month shall be an Event of Default as provided by Section 13.2. Failure to pay Rent on the due date for more than two (2) consecutive months or four (4) times over any twelve (12) month period shall be a non-curable Event of Default without the necessity of any notice or cure period. At District's sole discretion, immediately following such a non-curable Event of Default, District may terminate the Agreement and seek any remedy available by this Agreement or at law. If Tenant tenders a check, which is dishonored by a banking institution, then the Tenant shall tender cash or cashier's check only for all future payments, which shall continue until such time as written consent is obtained from Otay. In addition, Tenant shall be liable in the sum of \$25 for each dishonored check that is returned to Otay.

a. Rent Increases. The Rent shall be increased on each calendar anniversary of the Commencement Date at a rate of four percent (4%) per annum or the annual Consumer Price Index change ("CPI"), whichever is greater. CPI shall be the average percentage increases in the consumer price index published by the United States Department of Labor, Bureau of Labor Statistics (1982-1984 = 100)

(the "CPI") for "All Items – All Urban Consumers" for the San Diego Metropolitan Statistical Area.

3b. Section 7; Improvements, and Section 8; Installation of Equipment shall be replaced with the following:

7. Installation and Maintenance of Improvements. Tenant is authorized to install, maintain and operate on the Premises only the Facilities described and depicted on Exhibit B; provided that all permits and zoning approvals shall have first been obtained by Tenant and shall at all times while the Facilities operate remain in full force and effect.

a. Installation of the Improvements. Tenant's design and installation of all portions of the Facilities shall be done, at no cost to Otay, according to plans approved by Otay, provided that such approval shall not be unreasonably withheld. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay of the method of attachment at Otay's sole discretion. If such Facilities are to be attached or mounted to a water tank, Tenant shall use an installation method such as a magnetic mount or other, non-destructive alternative. The Tenant shall be responsible for painting its antennas and/or equipment to match Otay's facility. Otay will provide Tenant with specifications regarding paint type, color and application method to accomplish this requirement. Painting/coating submittals shall be provided to Otay by the Tenant prior to receiving permission to begin painting. Otay may specify a camouflage design if not inconsistent with requirements of the city or county within which the Facilities are located. These camouflage designs may include but are not limited to faux palm trees, pine trees, cypress trees, broadleaf trees, and flag poles, unipoles, and other camouflaged antenna and antenna supports.

b. Record Drawings. Within thirty (30) days after completion of the Facilities, Tenant shall provide Otay with "record" (also called "as-built") drawings of the Facilities showing and identifying all the equipment and improvements installed on the Premises. Said drawings shall be accompanied by a complete and detailed inventory of all equipment, including without limitation all personal property and antennas located on the Premises and any such property of Tenant located in the Easement. No property of Tenant other than such identified property shall be located on the Premises or the Property at any time. Upon acceptance by Otay of Tenant's record drawings, in form and content satisfactory to Otay, such drawings shall replace and supersede any similar drawings contained in any exhibit attached hereto.

c. Alterations. Tenant shall not alter or change its Improvements in a material manner without the prior approval of Otay, such approval not to be unreasonably withheld. "Material" refers to any physical change that could affect the building structure, antenna support, interconnecting facilities or its appearance

or any change that requires access to the Premises for installation of new equipment, removal of old equipment, trenching or digging or that could disrupt Otay's workplace or communications in any way or any change that requires a renewed or amended easement, permit or approval. All of Tenant's construction and installation work shall be performed at Tenant's sole cost and expense in a good and workmanlike manner and fully compliant with all government permit and code requirements. Tenant shall have the right to remove all Improvements it installs at its sole expense on or before the expiration or termination of this Agreement, but must at such time restore the ground and surface underlying the removed Improvements to its pre-installation condition, wear and tear excepted, and to the reasonable satisfaction of Otay.

d. Alterations to Improvements / Additional Space. If, at any time during the Term, Tenant requests permission from Otay to add improvements requiring construction to its then existing Improvements, the then current Administrative Fees shall be paid to Otay before any such changes are negotiated. In addition, if the requested Tenant improvements include additional area, a new agreement or, at Otay's discretion, an amendment for the additional lease space must be executed prior to start of construction and Tenant shall comply with Otay's requirements then in effect, including payment of additional rent, if any, for the additional area.

e. Permits and Compliance with Applicable Laws. During the Term, and prior to commencing any construction or installation of any improvements or equipment, as applicable, Tenant shall obtain all necessary approvals, permits and access easements or licenses, all of which shall be maintained in full force and effect at all times in accordance with all applicable laws, rules and regulations.

i. Prior to commencing construction, Tenant shall deliver to Otay copies of all executed licenses, approvals and permits required by local, state or federal agency in connection with the Improvements, which permits shall be attached hereto as Exhibit B.

ii. From time to time, as required by law or regulation in connection with the normal operation of the Improvements or as needed due to improvements or alterations to the same, Tenant shall provide Otay with updated permits, licenses and/or approvals, including without limitation written evidence, satisfactory to Otay, of all FCC approvals and other governmental permits and approvals, including but not limited to compliance with the FCC's electromagnetic radiation rules, set forth at 47 C.F.R. § 1.1307 et seq. and FCC Office of Engineering and Technology Bulletin 65, each as hereafter amended.

iii. Otay agrees, at no expense to Otay, to reasonably cooperate with Tenant in making application for and obtaining all governmental licenses,

permits and approvals that may be required for Tenant's intended use of the Premises.

f. Utilities. Tenant shall be authorized to install utilities for the Premises and the Improvements at Tenant's expense and to improve the present utilities on or near the Premises (including, but not limited to the installation of an emergency back-up power) subject to Otay's approval of the location, route, design and capacity, which approval shall not be unreasonably withheld. Tenant shall fully and promptly pay for all utilities furnished to the Premises for the use, operation and maintenance of Tenant's Improvements. If inadequate electrical power is available to provide for the Improvements, or additional electrical power is required to be installed on the Premises by Otay in its sole discretion, such installation shall be at Tenant's sole expense. The location, route, design and capacity of the additional power facility shall be approved by Otay, which shall not be unreasonably withheld.

g. Repair of Otay's Improvements/Systems. Any damage done to the Property or to any Otay improvement, facility or system in connection with the construction, installation, maintenance, repair, improvement, replacement or operation of the Improvements shall be repaired or replaced immediately at Tenant's expense and to Otay's reasonable satisfaction by Otay staff or contractors approved by Otay. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay. Tenant shall pay all costs and expenses in relation to maintaining the integrity of Otay's facilities, improvements and systems affected in any way by Tenant's Improvements or its use of the Property or the Premises.

h. Maintenance and Repair. At all time during the Term, Tenant shall maintain the Premises and the Improvements in a manner acceptable to Otay. Tenant's use of its Improvements shall not at any time or in any way adversely impact, impede or interfere with Otay's access to, use or operation of, its improvements, equipment or systems.

i. Liens. Tenant shall not encumber or allow the Premises or the Property to be encumbered in any manner other than as expressly authorized herein.

j. Security. Tenant recognizes and agrees that the Premises and the Reservoir Site are a sensitive area and that Otay's operations and services are highly sensitive and regulated. Tenant shall provide for the proper supervision of all Tenant Parties assigned or allowed by Tenant to enter and do work at the Premises. Tenant also agrees, holding Otay harmless for any cost or expense, to comply with any and all security measures instituted by Otay from time to time.

8. Maintenance, Repair or Replacement of Otay's Improvements. At any time while this Agreement remains in effect, Otay may, at its option and upon One Hundred Eighty (180) days prior written notice to Tenant, remove or cause

Tenant to remove all or any portion of its Facilities at Tenant's expense, in order for Otay to paint, repair, or make replacements to any or all its improvements on the Premises (the "Maintenance or Replacement Work"), as deemed necessary by Otay in its sole discretion. Tenant agrees to fully cooperate with Otay's efforts in connection with any Maintenance or Replacement Work, including without limitation timely, and at Tenant's cost, removing and re-installing any portion of the Facilities, as requested by Otay.

a. Temporary Facilities. During the Maintenance or Replacement Work, Tenant may, holding Otay harmless from any cost or expense, install temporary antennas on the Premises subject to Otay's approval of the location and type of replacement facilities, such approval shall not be unreasonably withheld or delayed. Once the Maintenance or Replacement Work is completed by Otay, Tenant agrees to promptly dismantle any temporary facilities and to relocate the facilities to their original location or to any other location approved by Otay. All work related to the removal of any portion of the Facilities, installation of temporary facilities, dismantling, relocation to their original location and any related work, shall be done at Tenant's sole cost and expense and in good and workmanlike manner.

b. Repair of damage. Tenant shall repair any damage caused by Tenant in connection with the installation, maintenance, operation or removal of any temporary facilities or the Facilities, and Tenant shall restore any distributed portions of the Property to their condition immediately prior to the installation of the temporary facilities.

c. Otay's option to remove temporary facilities. If any temporary facilities are not removed within sixty (60) days from the date the Maintenance or Replacement Work is completed, Otay shall have the right, but not the duty, to remove the temporary facilities at Tenant's cost and expense.

d. Painting of the Facilities. If the Maintenance or Replacement Work includes the painting, or any work affecting the surface of Otay's improvements, the Tenant shall be responsible for repainting or performing other surface treatment of its antennas and equipment to match Otay's. Otay will provide specifications to the Tenant regarding the treatment, paint type, color and application method to accomplish this requirement. The Tenant shall be required to obtain approval of specifications from Otay prior to commencing work on this requirement. Subject to Otay's prior written consent, Tenant may substitute an alternate treatment, paint type and application method if it reasonably determines that Otay's selection will adversely affect or otherwise degrade Tenant's wireless signal from the Reservoir Site.

3c. Section 9; Co-Location shall be replaced with the following:

9.1. Co-Location by Otay. Tenant agrees that Otay may enter into leases or other types of agreements with other communication carriers, wireless communications carriers and other utilities for use of any portion of the "Reservoir Site" as long as said leases do not result in unreasonable interference with Tenant's use of or access to the Premises. Tenant shall reasonably cooperate with Otay's efforts in this regard including, at Otay's request, the relocation of, or changes to, the Facilities; provided that any alterations or relocation needed to accommodate the new carrier or utility shall be performed at the expense of Otay or the new carrier or utility.

9.2. Co-Location by Tenant - Subleasing/Encumbrance. Tenant shall not sub-lease or sub-license or otherwise encumber the Premises or any portion of the Facilities without Otay's prior written consent, which may be granted or denied at Otay's sole discretion. Any sub-lease or other encumbrance shall require an amendment to this Agreement and shall specify the terms and conditions, including making provision for rent and increases thereto for the sub-lease or other encumbrance.

3d. Section 13; Termination shall be replaced with the following:

13.1 Termination.

(a) This Agreement may be terminated by Tenant without further liability if:

(i) Tenant delivers to Otay 30-day written notice at any time prior to commencing any work at the Premises in connection with the installation of any Facilities, for any reason or no reason;

(ii) Tenant gives Otay sixty (60) days' notice of Tenant's determination that a governmental or non-governmental license, permit, consent, approval, easement or waiver necessary to enable Tenant to construct, install or operate the Facilities cannot be obtained or renewed at reasonable expense or in reasonable time period for wireless sites at water reservoirs in metropolitan areas within San Diego County. If this notice is given, Tenant must immediately cease any and all transmissions through and from the Premises and shall promptly remove, within a period of time not to exceed sixty (60) days, any and all Tenant's personal property and improvements from the Property. This Agreement and any related easements shall automatically expire upon the earlier of removal of the Tenant's improvements or the 60th day from the notice; excepting only Tenant's indemnities and liabilities hereunder, including the obligation to pay Rent for any holdover period. Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated.

(iii) Tenant determines at any time after the Commencement Date that the Premises are not appropriate or suitable for its operations for economic, environmental or technological reasons, including without limitation, any ruling or directive of the FCC or other governmental or regulatory agency, or problems with signal strength or interference not encompassed by subsection (iv) below; provided that the right to terminate under this subsection (iii) is exercisable only upon payment by Tenant, as a termination fee, of the lesser of twelve monthly installments of rent or the balance of the rent due for the then current Initial Term, Extension Term or Additional Term, as applicable; and Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated;

(iv) Otay commits a default under this Agreement and fails to cure pursuant to Section 13.2, below;

(v) The Property or the Premises are totally or partially destroyed by fire or other casualty (not caused by Tenant) so as to hinder Tenant's normal operations and Otay does not provide to Tenant within thirty (30) days after the casualty occurs a suitable temporary relocation site for Tenant's facility pending repair and restoration of the Premises; or

(vi) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

(b) This Agreement may be terminated by Otay without further liability if:

(i) Tenant commits a default under this Agreement and fails to cure such default pursuant to Section 13.2, below;

(ii) Otay determines that continuing the Agreement or continuing to allow the Tenant to construct, install, maintain or operate the Facilities in any way violates a law, rule or regulation; or

(iii) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

13.2 Default.

a. Event of Default. The parties covenant and agree that a default or breach of this Agreement (an "Event of Default") shall occur and be deemed to exist if, after notice and opportunity to cure as provided below:

(i) Tenant shall default in the payment of Rent, or any other amounts due Otay hereunder, and said default shall continue for ten (10) business days after the same becomes due; or

(ii) Either party shall default in the performance or observance of any other covenant or condition of this Agreement to be performed or observed if such failure persists for a period of thirty (30) days after the non-defaulting party provides written notice of the default to the defaulting party.

b. Rights upon Default. Upon the occurrence of an Event of Default, in addition to any other rights or remedies available to the non-defaulting party under any law, the non-defaulting party shall have the right to terminate the Agreement.

c. Cure Rights. An Event of Default shall not exist unless written notice has been given in accordance with this Agreement, and the defaulting party has had the opportunity to cure as provided herein. The defaulting party shall cure the alleged default within the manner provided herein; provided however, that if the nature of an alleged default is such that it cannot reasonably be cured within such thirty (30) day period, the defaulting party shall not be in breach of this Agreement if it diligently commences a cure within such period, and thereafter diligently proceeds with the actions necessary to complete such cure.

3e. Section 17; Indemnity, shall be replaced with the following:

Tenant specifically agrees that it shall hold harmless, defend (with counsel, and if needed experts, reasonably acceptable to Otay), indemnify and otherwise protect Otay and each Otay Party, from and against all claims, suits or actions of any kind and description relating to (a) Tenant's obligations under this Agreement and any amendment hereto or (b) Tenant or Tenant Parties use of, and access to, the Premises, the Facilities or the Property. These obligations extend to and include without limitation any and all costs and expenses (including attorney's fees and court costs) incurred by Otay or the Otay Parties in connection with (i) damage to property (including the Premises, the Property or any personal property of Otay or any third party), (ii) any action or proceeding (including an enforcement action or criminal proceeding) related in any way to any permit (governmental or otherwise), approval or easement obtained by or required of Tenant in connection with this Agreement or the Facilities; and (iii) personal injury or death, except to the extent that such claims, suits or actions directly arise from the gross negligence or willful misconduct of Otay or an Otay Party. This indemnification clause in no way limits any other specific indemnities given by Tenant under other provisions of this Agreement.

Nothing contained herein shall prohibit Otay, in its sole discretion, from participating in the defense of any demand, claim, action, proceeding, or litigation. In no event shall Otay's participation in the defense of any demand

claim, action, proceeding, or litigation affect the obligations imposed upon Tenant herein.

This and all other Tenant indemnities shall survive the termination of this Agreement and shall remain in effect for as long as the underlying claim or action remains viable.

3f. Section 19; Assignment, shall be replaced with the following:

Tenant shall not assign this Agreement or any portion of its rights or obligations hereunder without Otay's prior written consent, except to an affiliated parent entity, subsidiary, purchaser of at least 50% of the aggregate of the assets of Tenant ("assets" means and includes without limitation any and all real, personal or financial property or thing owned or controlled by Tenant or over which Tenant has an interest) or holder of Tenant's FCC license.

a. If during the Term hereof, Tenant requests the written consent of Otay to any assignment, and upon demonstration satisfactory to Otay of the proposed assignee's legal, financial, and technical qualifications to assume all of the Tenant's duties and obligations herein, Otay's consent thereto shall not unreasonably be withheld. Consent to one assignment shall not be deemed consent to any subsequent assignment.

b. Any attempted assignment not permitted under the first paragraph of this Section 19, without Otay's prior consent as set forth in Section 19(a), shall be void and, at Otay's option, shall constitute a termination of this Agreement for which a termination fee as described in Section 13.1.a(iii) shall be immediately due.

c. Any assignment of this Agreement shall require an executed "Assignment of Lease" whether or not the Consent of Otay is required pursuant to this section 19 or any other provision of this Agreement. A sample form of the "Assignment of Lease" is attached to this Agreement as Exhibit F which may be amended or modified in Otay's sole discretion.

4. **Continued Effect.** Except as specifically modified by this First Amendment, all of the terms and conditions of the Agreement shall remain in full force and effect. In the event of a conflict between any term or provision of the Agreement and this First Amendment, the terms and provisions of this First Amendment shall control. In addition, except as otherwise stated in this First Amendment, all initially capitalized terms will have the same respective defined meaning stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this First Amendment.

5. **Administrative Fees.** TENANT shall pay OTAY the amount of \$4,500 within (30) days of the date of execution of this Amendment by OTAY and TENANT.

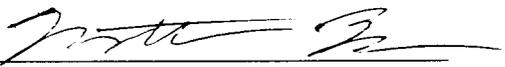
6. **Current Rent.** The current monthly Rent amount at the Effective Date of this First Amendment is \$2,735.93.

IN WITNESS WHEREOF, OTAY and TENANT have caused this First Amendment to be executed by each party's duly authorized representative effective as of the date first above written.

OTAY WATER DISTRICT:

Sprint PCS Assets, L.L.C.,
a Delaware limited liability company, :

By: _____
Name: Mark Watton
Title: General Manager
Date: _____

By: 
Name: Matthew Bell
Title: Manager Real Estate
Date: 5/29/2013

Approved as to Form:

By: _____
OWD General Counsel

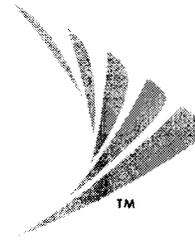
Approved as to Form:

By: _____
Its: _____

Exhibit B-1

NEW IMPROVEMENTS

Sprint



SAN DIEGO MARKET

SITE NUMBER: **SD34XC555**
 SITE NAME: **SINGING HILLS RESERVOIR**
 SITE TYPE: **OUTDOOR**

CITY: **EL CAJON**
 COUNTY: **SAN DIEGO**
 REFERENCE: **TBD**

APPLICANT:

SPRINT PCS
 SAN DIEGO, CALIFORNIA

PROJECT DESCRIPTION:

FIBER UPGRADE WITH AT&T BACKHAUL
 INSTALLATION TO EXISTING SPRINT
 WIRELESS TELECOMMUNICATIONS CELL SITE

ZONING CLASSIFICATION: CN-1
 CONSTRUCTION TYPE: TBD
 CURRENT OCCUPANCY: TBD

SITE INFORMATION:

2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019
 LATITUDE: 32.734885
 LONGITUDE: -116.89135

PARCEL NUMBERS:

515-051-07

PROPERTY OWNER:

OTAY WATER DISTRICT
 2524 SWEETWATER SPRINGS BOULEVARD
 SPRING VALLEY, CA 91978
 CONTACT: MARY SUTTON
 PHONE: (619) 670-2269

PROJECT SUMMARY

CLIENT:

SPRINT PCS
 SAN DIEGO, CALIFORNIA

FIBER VENDOR:

CONTACT: BLAKE STATION
 PH: (858) 886-1688

DESIGN CONSULTANT:

ALCATEL-LUCENT
 CONTACT: TOM FANALE
 PH: (760) 809-1140

PROJECT ARCHITECT:

JEFFREY ROME & ASSOCIATES
 1 SAN JOAQUIN PLAZA
 NEWPORT BEACH, CALIFORNIA 92660
 CONTACT: JEFFREY ROME
 PHONE: (949) 760-3929
 EMAIL: J.ROME@AOL.COM

PROJECT TEAM

SHEET DESCRIPTION

T-1 TITLE SHEET
 T-2 SITE PHOTOS
 A-1 SITE PLAN
 A-2 DETAILS

SHEET INDEX

ACCESS:

GENERAL ACCESS: NEED TO PASS THROUGH 4 GATES AND ALL COMBOS ARE 9127

AAV HOP / FIBER PATH:

THE HOP WILL BE THE EXISTING PREDESTAL LOCATED 800' FROM (E) SPRINT LEASE AREA AT&T TO PLACE FIBER FROM EXISTING PREDESTAL THROUGH (E) TELCO CONDUIT TO (E) TELCO CABINET TO (N) FBT JUNCTION BOX LOCATED INSIDE (E) SPRINT LEASE AREA.

INNERDUCT:

SPRINT GC TO RIG AND PLACE APPROXIMATELY 60% OF 1-1/4" INNERDUCT WITH TAPE FROM (E) PREDESTAL THROUGH (E) TELCO CONDUIT TO (E) TELCO CABINET TO (N) FBT JUNCTION BOX LOCATED IN (E) SPRINT LEASE AREA.

FBT LOCATION:

SPRINT GC TO INSTALL (N) FBT EQUIPMENT IN (N) 24"x24"x8" NEMA 3R RATED JUNCTION BOX WITH PLYWOOD BACKBOARD AND GROUND BAR WITH #6 SOLID GREEN GROUND WIRE (1" CO.) PROVIDED BY AT&T.

EQUIPMENT:

SPRINT TO WALL MOUNT. AT&T PROVIDED UAM/C/DNA EQUIPMENT USING (N) UNISTRUT (SEE PHOTOS FOR LOCATION)

POWER:

SPRINT GC TO PROVIDE AND INSTALL (1) 8" EMT CONDUIT FROM THE (E) MM-BTS CABINET TO (N) UAM/C/DNA CABINET, (1) 30 AMP -80V DC CIRCUIT USING #12 AWG THHN STRANDED CONDUCTORS; APPROXIMATELY 15'-0" CONDUIT RUN.

GROUNDING:

SPRINT GC TO PROVIDE AND INSTALL (N) (2) 1/2" DIA. EMT CONDUITS WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN FROM (E) GROUND BAR LOCATED INSIDE EXISTING TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN. RUN TO (N) AT&T UAM/C/DNA AND (N) FBT JUNCTION BOX.

CUSTOMER FIBER PATH:

SPRINT GC TO PROVIDE AND INSTALL (1) 1" EMT CONDUIT FROM (N) UAM/C/DNA CABINET TO SPRINT UAM-BTS CABINET; APPROXIMATELY 15'-0" CONDUIT RUN.

SCOPE OF WORK

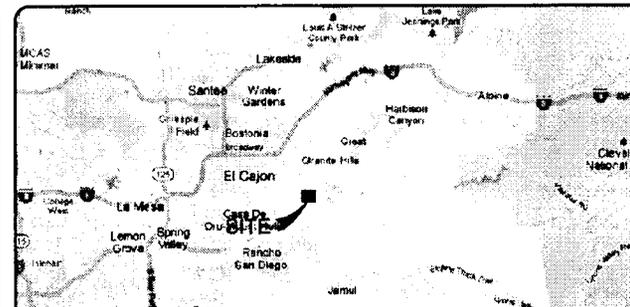
CONTRACTOR & CREWS SHALL ABIDE BY SPRINT CONSTRUCTION STANDARDS/REQUIREMENTS AS DESCRIBED IN THE A&T SPRINT SAFETY HANDBOOK. OSHA REGULATIONS/STANDARDS SHALL BE REVIEWED & FOLLOWED BY ALL EQUIPMENT INSTALLERS & TOWER/ROOF TOP CONTRACTORS/SUBCONTRACTORS DURING CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR AND/OR UNSUITABLE MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE AND ACCEPTED UNDER CONTRACT. UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION: THE RESPONDING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, CONSIDERED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATER-TIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.)

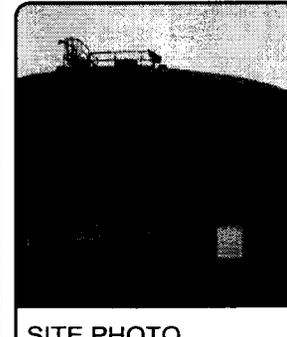
THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT AND MAKE FINAL PAYMENT FOR SAID DOCUMENT.

GENERAL NOTES



VICINITY MAP



SITE PHOTO

FROM THE ALU OFFICES AT: 8605 SCRANTON ROAD, SAN DIEGO, CALIFORNIA 92121

- HEAD SOUTH ON SCRANTON ROAD TOWARD MIRA SORRENTO PLACE (0.3 MILES)
- TURN RIGHT ONTO MIRA MESA BOULEVARD (0.2 MILES)
- CONTINUE ONTO SORRENTO VALLEY ROAD (0.1 MILE)
- TAKE THE RAMP ONTO I-805 SOUTH (9.4 MILES)
- TAKE EXIT 176 TO MERGE ONTO I-8 EAST TOWARD EL CENTRO (13.2 MILES)
- TAKE EXIT 19 FOR 2ND STREET (0.2 MILES)
- TURN RIGHT ONTO NORTH 2ND STREET (0.5 MILES)
- CONTINUE ONTO JAMACHA ROAD (0.7 MILES)
- TURN LEFT ONTO EAST WASHINGTON AVENUE (0.6 MILES)
- CONTINUE ONTO DESHA ROAD (0.7 MILES)
- TURN RIGHT ONTO VISTA GRANDE ROAD (0.5 MILES)
- TAKE THE 2ND LEFT ONTO SANTA LOMAS (0.2 MILES)
- TURN RIGHT ONTO PENCE DRIVE (0.5 MILES)
- ARRIVE AT 2568 PENCE DRIVE

DRIVING DIRECTIONS

Sprint

Alcatel-Lucent

JRA
 Jeffrey Rome & Associates, Inc.

1 SAN JOAQUIN PLAZA
 NEWPORT BEACH, CALIFORNIA 92660
 PHONE: (949) 760-3929
 FAX: (949) 760-3930
 EMAIL: J.ROME@AOL.COM

PROJECT INFORMATION:

ANTENNA MODIFICATION PROJECT

SINGING HILLS
 RESERVOIR
 SD34XC555

2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:

04/27/12

ISSUED FOR:

100% ISSUED FOR
 CONSTRUCTION

REVISIONS

REV.	DATE	DESCRIPTION	INIT.
1	04/27/12	100% ISSUED FOR CONSTRUCTION	UC

NOT FOR CONSTRUCTION UNLESS
 LABELED AS CONSTRUCTION SET

LICENSE:



SHEET TITLE:

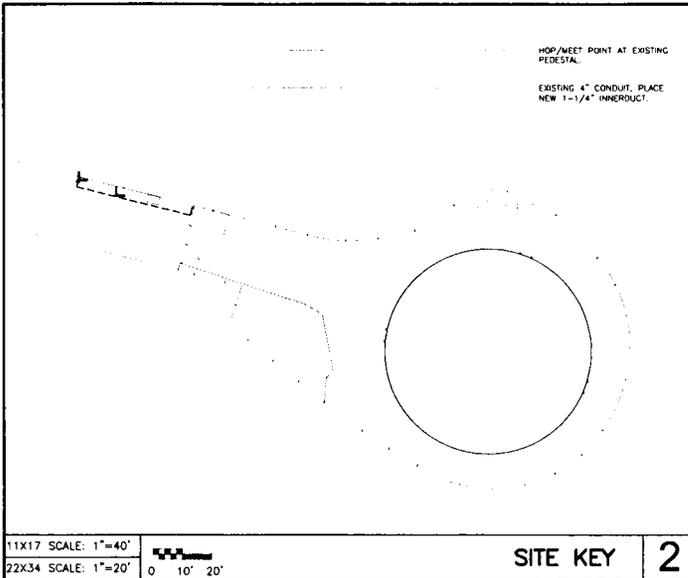
TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

1



SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FB7 JUNCTION BOX TO (N) UAM/OIENA CABINET, APPROXIMATELY 5'-0" CONDUIT RUN.

(E) AT&T 4" CONDUIT WITH SPRINT GC TO ROD AND PLACE (N) 1-1/4" INNERDUCT WITH WALK TAPE FROM EXISTING PEDESTAL LOCATED ON WEST FROM (E) SPRINT LEASE AREA APPROXIMATELY 60'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) (2) 3/4" DIA. EMT CONDUITS WITH (1) NEW #8 AWG GREEN SOLID WIRE ROUTED WITHIN FROM (E) GROUND BAR LOCATED INSIDE EXISTING TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN; RUN TO (N) AT&T UAM/OIENA AND (N) FB7 JUNCTION BOX.

SPRINT GC TO PROVIDE AND INSTALL (1) 3/4" EMT CONDUIT FROM THE (E) UMI-BTS CABINET TO (N) UAM/OIENA CABINET, (1) 20 AMP -48V DC CIRCUIT USING #12 AWG THIN-STRANDED CONDUCTORS, APPROXIMATELY 15'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1" EMT CONDUIT FROM (N) AT&T UAM/OIENA CABINET TO SPRINT'S UMI-BTS CABINET, APPROXIMATELY 15'-0" CONDUIT RUN.

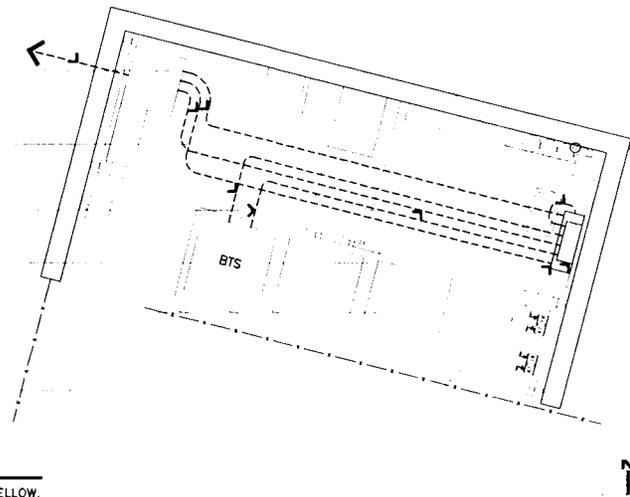
SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FB7 JUNCTION BOX TO (E) TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) 24"x24"x38" NEMA 3R JUNCTION BOX WITH 3/4" PLYWOOD AND GROUND BAR WITH SET SCREWS PROVIDE 3'-0" COIL OF #8 AWG SOLID GREEN WIRE. (N) WALL MOUNTED UNISTRUT.

SPRINT GC TO INSTALL AT&T PROVIDED (N) UAM/OIENA CABINET MOUNTED ON (N) UNISTRUT, SEE DETAIL 2/A-2.

GENERAL NOTES:

PAINT ALL CONDUITS MOUNTED ON GROUND YELLOW.



Sprint

Alcatel-Lucent

JRA
Jeffrey Rome & Associates, Inc.
1000 South Main Street, Suite 1000
Folsom, California 95630
Phone: (916) 451-1100
Fax: (916) 451-1101

PROJECT INFORMATION:

ANTENNA MODIFICATION PROJECT

SINGING HILLS RESERVOIR

SD34XC555

2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:

04/27/12

ISSUED FOR:

100% ISSUED FOR CONSTRUCTION

REVISIONS

REV.	DATE	DESCRIPTION	INT.
1	04/27/12	100% ISSUED FOR CONSTRUCTION	UC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE



SHEET TITLE

SITE PLAN

SHEET NUMBER

A-1

REVISION

1



PROJECT INFORMATION

ANTENNA MODIFICATION PROJECT

SINGING HILLS RESERVOIR

SD34XC555

2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:

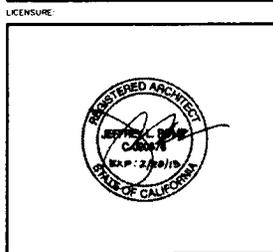
04/27/12

ISSUED FOR:

100% ISSUED FOR CONSTRUCTION

REVISIONS			
REV.	DATE	DESCRIPTION	INIT.
1	04/27/12	100% ISSUED FOR CONSTRUCTION	UC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:

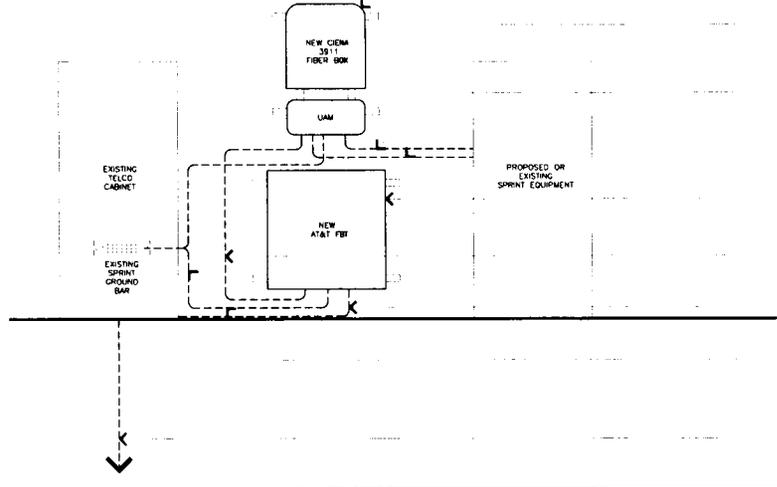
DETAILS (AT&T)

SHEET NUMBER: **A-2**

REVISION: **1**

GENERAL NOTES:

PAINT ALL CONDUITS MOUNTED ON GROUND YELLOW.
EQUIPMENT VIEW ADJUSTED FOR CLARITY.



- (N) CIENA 3911 FIBER BOX AND (N) UNISTRUT. SEE DETAILS 1/A-2. AT&T TO INSTALL (N) AT&T CIENA 3911.
- SPRINT GC TO PROVIDE AND INSTALL (1) 1" EMT CONDUIT FROM (N) UAM/CIENA CABINET TO SPRINT MM-BTS, APPROXIMATELY 15'-0" CONDUIT RUN.
- SPRINT GC TO PROVIDE AND INSTALL (1) AT EMT CONDUIT FROM THE (E) MM-BTS CABINET TO (N) UAM/CIENA CABINET. (1) 20 AMP - 48V DC CIRCUIT USING #12 AWG THIN STRANDED CONDUCTORS. APPROXIMATELY 15'-0" CONDUIT RUN.
- SPRINT GC TO PROVIDE AND INSTALL (N) 24"x24"x1/2" MEDIA 391 JUNCTION BOX WITH 1/2" PLYWOOD AND GROUND BAR WITH SET SCREWS. PROVIDE 5'-0" COIL OF #6 AWG SOLID GREEN WIRE.
- SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FBT JUNCTION BOX TO (N) UAM/CIENA CABINET. APPROXIMATELY 5'-0" CONDUIT RUN.
- SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FBT JUNCTION BOX TO (E) TELCO CABINET. APPROXIMATELY 15'-0" CONDUIT RUN.
- SPRINT GC TO PROVIDE AND INSTALL (N) (2) 3/8" DIA. EMT CONDUITS WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN FROM (E) GROUND BAR LOCATED INSIDE EXISTING TELCO CABINET. APPROXIMATELY 15'-0" CONDUIT RUN. RUN TO (N) AT&T UAM/CIENA AND (N) FBT JUNCTION BOX.
- (E) AT&T 4" CONDUIT WITH SPRINT GC TO ROD AND PLACE (N) 1-1/4" INNERDUCT WITH MULE TAPE FROM (E) PEDESTAL. APPROXIMATELY 60'-0" CONDUIT RUN.

11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

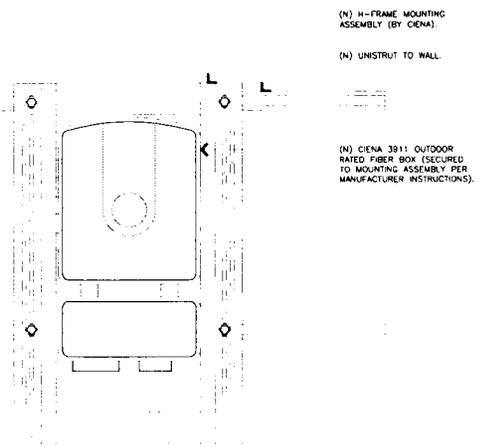
NOT USED **4**

11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

ROUTING DIAGRAM 3

H-FRAME MOUNT ASSEMBLY (PER MANUFACTURER):

- SELECT AN APPROXIMATE H-FRAME STRUCTURE THAT WILL SUPPORT APPROXIMATELY 200 POUNDS OR 90 KILOGRAMS WITH A MINIMUM HEIGHT OF 4' ABOVE GRADE.
NOTE: THE H-FRAME MOUNT KIT IS REQUIRED TO CONNECT WITH AT LEAST 2 HORIZONTAL SUPPORT CHANNELS OF YOUR H-FRAME STRUCTURE. THE CHANNELS SHOULD BE SPACED BETWEEN 15' AND 25' APART. THE PREFERRED SPACING IS 18'.
- REMOVE AND SET ASIDE THE SCREWS THAT HOLD THE H-FRAME MOUNT KIT TOGETHER FOR SHIPMENT. THESE SCREWS WILL BE USED LATER IN STEP #3.
- LOOSELY ASSEMBLE THE HORIZONTAL SUPPORT BRACKET TO THE 2 VERTICAL SUPPORT BRACKETS USING THE SCREWS FROM STEP #2.
- FIRMLY ATTACH THE H-FRAME ASSEMBLY TO THE H-FRAME STRUCTURE. THE MAXIMUM OVERHANG OF THE VERTICAL SUPPORT BRACKETS SHOULD BE NO MORE THAN 6" PAST THE H-FRAME STRUCTURE.
- TIGHTEN ALL H-FRAME MOUNTING HARDWARE.
- REFERENCE THE SECTION ENTITLED H-FRAME MOUNT ILLUSTRATION.

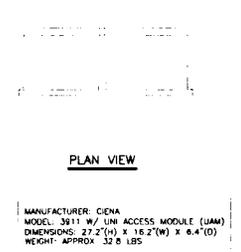


11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

FIBER BOX H-FRAME MOUNTING 2

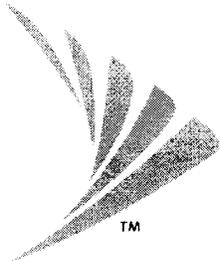
11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

FIBER BOX SPECIFICATIONS 1





SAN DIEGO MARKET



NETWORK VISION MMBTS LAUNCH SINGING HILLS (7 RESERVOIR (7 O)) SD34XC555

WATER TANK

2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

LATITUDE: 32.77357 (32° 46' 24.85" N)
LONGITUDE: -116.89131 (116° 53' 28.71" W)

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	SPECIFICATIONS AND NOTES
T-3	SKETCH AND NOTES
A-1	SITE PLAN
A-1.1	ENLARGED SITE PLAN
A-2	EQUIPMENT PLAN
A-3	ANTENNA LAYOUT PLAN
A-4	NORTH ELEVATION
A-4.1	SOUTH ELEVATION
A-4.2	EAST ELEVATION
A-4.3	WEST ELEVATION
A-5.1	EQUIPMENT DETAILS
A-6	ANTENNA AND RRH DETAILS
A-6.1	ANTENNA AND RRH DETAILS
E-1	GROUNDING SCHEMATICS
E-2	ANTENNA LINE COLOUR CODING
E-3	HYBRIFLEX SPECIFICATIONS AND ELECTRICAL NOTES
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS
D-4	DETAILS
D-5	DETAILS
AAV SHEETS	
T-1	TITLE SHEET
T-2	SITE PHOTOS
A-1	SITE PLAN
A-2	DETAILS

SHEET INDEX

CALIFORNIA STATE CODE COMPLIANCE

SPRINT PROPOSES THAT 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. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

CALIFORNIA FIRE CODE, 2010 EDITION
CALIFORNIA BUILDING CODE, 2010 EDITION
CALIFORNIA PLUMBING CODE, 2010 EDITION
CALIFORNIA MECHANICAL CODE, 2010 EDITION
CALIFORNIA ELECTRICAL CODE, 2010 EDITION
CALIFORNIA GREEN BUILDING CODE, 2010 EDITION

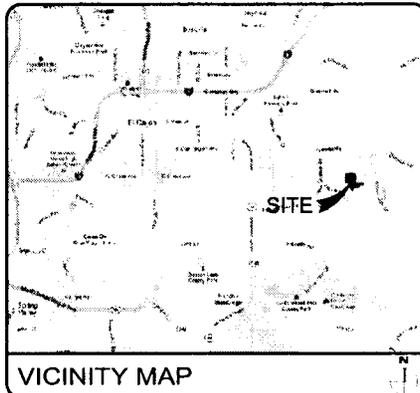
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

ACCESSIBILITY REQUIREMENTS

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



CODE BLOCK



VICINITY MAP

SPRINT PROPOSES TO MODIFY ITS EXISTING ANTENNA AND EQUIPMENT IN AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY

- INSTALL (9) (N) PANEL ANTENNAS
- REMOVE (6) (E) PANEL ANTENNAS
- INSTALL (3) (N) RRH'S
- REMOVE ALL (E) COAX COAX
- INSTALL (3) (N) FIBER OPTIC CABLE USING EXISTING COAX ROUTE.
- REMOVE (1) (E) BTS CABINET
- INSTALL (1) (N) BTS CABINET
- INSTALL (1) (N) JUNCTION BOX
- REMOVE (1) (E) POWER CABINET
- INSTALL (1) (N) 600V2 BBU CABINET

SCOPE OF WORK

PROPERTY LINE	1/4" = 1'	DETAIL REFERENCE
FENCE LINE		
HOLLOW METAL FENCE	1/4" = 1'	ELEVATION REFERENCE
COAXIAL CABLE		
CABLE TRAY	BTS: COAX	BASE TRANSCIVER STATION
CABLE BRIDGE	RRH: GPS	CODE DIVISION MULTIPLE ACCESS
		REMOTE RADIO HEADS
		GLOBAL POSITIONING SYSTEM

LEGEND

- FROM THE SAN DIEGO INTERNATIONAL AIRPORT:
- HEAD WEST ON AIRPORT TERMINAL ROAD (420 FEET)
 - SLIGHT LEFT TO STAY ON AIRPORT TERMINAL (1.3 MILES)
 - KEEP RIGHT AT THE FORK (143 FEET)
 - TURN LEFT ONTO NORTH HARBOR DRIVE (1.4 MILES)
 - TURN LEFT ONTO WEST GRAPE STREET (4 MILES)
 - TAKE THE INTERSTATE 5 SOUTH RAMP (2 MILES)
 - MERGE ONTO I-5 SOUTH (1.0 MILES)
 - TAKE EXIT 15B TO MERGE ONTO CA-94 EAST (13.9 MILES)
 - TURN RIGHT ONTO CA-94 EAST/CAMPO ROAD (8 MILES)

DRIVING DIRECTIONS

APPLICANT:
NATION GROUP CONSULTING ON BEHALF OF
ALCATEL-LUCENT FOR SPRINT PCS
9605 SCRANTON ROAD, SUITE 400
SAN DIEGO, CALIFORNIA 92121

PROPERTY OWNER:
OTAY WATER DISTRICT
2534 SWEETWATER SPRINGS BOULEVARD
SPRING VALLEY, CALIFORNIA 91977

PROPERTY INFORMATION:
2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ZONING CLASSIFICATION: RV
CALIFORNIA BUILDING CODE, 2010 EDITION
EXISTING CONSTRUCTION TYPE: TBD
PROPOSED CONSTRUCTION TYPE: TBD
EXISTING OCCUPANCY: WATER TANK
PROPOSED OCCUPANCY: TELECOMMUNICATIONS FACILITY
JURISDICTION: COUNTY OF SAN DIEGO
EXISTING USE: TELECOMMUNICATIONS
PROPOSED USE: TELECOMMUNICATIONS
NO OF STORES: NOT APPLICABLE - WATER TANK
PROPOSED USE: NOT APPLICABLE - WATER TANK

PARCEL NUMBER:
515-051-07
LEASE AREA:
NO INCREASE IN EXISTING LEASE AREA.

PROJECT SUMMARY

PROJECT ARCHITECT

JEFFREY ROME & ASSOCIATES
1 SAN JOAQUIN PLAZA
SUITE 250
NEWPORT BEACH, CALIFORNIA 92660
CONTACT: JEFFREY ROME
PHONE: (949) 760-3929
EMAIL: J.ROME@AOL.COM

STRUCTURAL ENGINEER

S.E. PEYTON-TOMITA & ASSOCIATES STRUCTURAL ENGINEERS
954 TOWN & COUNTRY ROAD
ORANGE, CALIFORNIA 92668
CONTACT: MARK S. TOMITA
PHONE: (714) 245-4931
EMAIL: peytontomita@aol.com

SITE ACQUISITION MANAGER

ALCATEL-LUCENT
CONTACT: FELICIA PHILIPS
PHONE: (714) 791-8643
EMAIL: FELICIA.PHILIPS@ALCATEL-LUCENT.COM

CONSTRUCTION MANAGER:

ALCATEL-LUCENT
9605 SCRANTON ROAD, SUITE 400
SAN DIEGO, CALIFORNIA 92121
CONTACT: ROBERT GUAGE
PHONE: (858) 320-3191
EMAIL: ROBERT.GUAGE@ALCATEL-LUCENT.COM

PLANNING CONSULTANT

NATION GROUP CONSULTING, LTD.
CONTACT: DANIELLE GOLDMAN
PH: (619) 972-4944
EMAIL: DANIELLE.GOLDMAN@NATIONTELECOM.COM

TELCO COMPANY:

AT&T
PH: (888) 944-0447

POWER COMPANY:

SDG&E
PH: (800) 336-7343

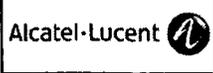
RF ENGINEER:

DARRIN MAI
EMAIL: DARRIN.MAI@ALCATEL-LUCENT.COM

PROJECT TEAM

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 11"x17" OR 22"x34" FORMAT. IF THIS DRAWING SET IS NOT 11"x17" OR 22"x34", THIS SET IS NOT TO SCALE.

DRAWING SCALE



PROJECT INFORMATION

NETWORK VISION
MMBTS LAUNCH
SINGING HILLS (7
RESERVOIR (7 O))
SD34XC555
2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:

01/24/13

ISSUED FOR:

100% FINAL CD'S

REVISIONS

REV	DATE	DESCRIPTION	INIT
0	05/12/12	90% CD'S REVIEW	FR
1	11/26/12	100% CD'S REVIEW	FR
2	01/24/13	100% FINAL CD'S	FR

NOT FOR CONSTRUCTION UNLESS LABELLED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

REVISION

2

GENERAL GUIDELINES

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COPIED AND REPRODUCED HEREIN.
2. THIS FACILITY IS AN UNLICENSED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING GEOTECHNICAL, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE SPRINT CONSTRUCTION CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSIONS, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.
4. DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIMENSIONAL ONLY. REQUIRED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD UNLESS SPECIFICALLY NOTED. DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE CONTRACTOR DRAINING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
5. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
6. CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNUSUAL, UNREASONABLE, OR NOT IN ACCORDANCE WITH CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE CONSIDERED THAT THERE IS NO DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE TO SHOW THE END RESULT OF THE DESIGN. WORK MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
7. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT NECESSARY MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
8. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LOCATIONS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH SPRINT CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ENCISSION RADIO SYSTEMS.
9. ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONDENSED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONING REGARDING THE EXACT MEANING, THE SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO SPRINT.
11. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE. THE CONTRACTOR SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE FULLY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
12. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:
 - NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION O-ARE INTERNATIONAL CENTER 10255 W. HIGGINS ROAD, SUITE 600 ROSEMONT, IL 60018
 - SMAOMA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION 4201 LAVAYETTE CENTER DRIVE CHANTILLY, VA 20711-1106
 - ILP INTERNATIONAL INSTITUTE FOR LATH AND PLASTER 820 BROWNSER ROAD ST. PAUL, MN 55114-1406
13. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
14. THE CONTRACTOR SHALL VERIFY, COORDINATE AND PROVIDE ALL NECESSARY BLOCKING, BRACING, FRAMING, HANGARS AND OTHER SUPPORTS FOR ALL ITEMS SHOWN ON THESE DRAWINGS.
15. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (DISA) REQUIREMENTS.
16. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS AND SPRINT PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF SPRINT AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REPAIR, ANY DAMAGE TO EXISTING UTILITIES OR OTHER PROPERTY DAMAGED BY OR IN CONNECTION WITH THE EXECUTION OF WORK UNDER THIS CONTRACT.
18. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR DAMAGE TO UTILITIES OR OTHER PROPERTY DAMAGED IN CONNECTION WITH THE EXECUTION OF WORK.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY SPRINT.

20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, SPRINT, AND THE CITY OR GOVERNING AGENCY.
21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RELOCATING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING AGENCY. ONE SET OF REQUIRED DRAWINGS SHALL BE PROVIDED TO THE SPRINT CONSTRUCTION MANAGER.
22. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE POSTED IN A PLAIN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDITIONS AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
23. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANUP THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP. UPON COMPLETION OF WORK, ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY AND MAINTAIN CLEAN CONDITION FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE AT COMPLETION OF WORK.
24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
25. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.
26. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH UL LISTED OR FIRE MARSHALL APPROVED MATERIALS AND WHERE APPLICABLE TO THE CITY AND PRIVATE SITES.
27. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-ABC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.
28. ELECTRICAL POWER AND SYSTEMS CHECKED BELOW:
 - ARTICLES 250 AND 810
29. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CALKED OR SEALED TO PREVENT INFILTRATION OF AIR AND MOISTURE.
30. UPON COMPLETION OF CONSTRUCTION, SPRINT CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER. IT IS THE ACCEPTANCE OF THE PROJECT BY SPRINT.
32. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
33. NOTIFY SPRINT PRIOR TO ANY RF OR SITE CONCERNS 1-866-400-8040

ROOFING & WATERPROOFING NOTES

1. CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES. SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR IF ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE SPRINT PROJECT MANAGER. IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIING WITH THE ORIGINAL ROOF MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.
3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.
4. IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LIKE-NEW CONDITION. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE SPRINT CONSTRUCTION MANAGER IN ADVANCE.
5. AT THE SPRINT CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE ROOFER WALK PAGES TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BITS UNITS AND ALONG COAX CABLE ROUTING ON ROOF. CONTRACTOR SHALL PROVIDE WALK PAGES SHALL BE "TACK BOARDS" AS MANUFACTURED BY APC OR EQUAL, OR SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFING. REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (DISA) REQUIREMENTS BY NOTES 1 & 2 ABOVE.

PENETRATION AT FIRE RATED ASSEMBLIES

1. AT THE SPRINT PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HEAT" HIGH PERFORMANCE FIRE STOP SYSTEM #55601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING UNDER THIS CONTRACT.

WORK ENVIRONMENT

1. CONTRACTOR AND CREW SHALL ABIDE BY THE UNITED STATES DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS (OSHA) AS DESCRIBED IN OSHA'S HANDBOOK OF GUIDELINES.
2. CONTRACTOR AND CREW SHALL ABIDE BY SPRINT SAFETY STANDARDS AS DESCRIBED IN SPRINT'S SAFETY HANDBOOK.

PAINTING NOTES & SPECIFICATIONS

1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.
2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
3. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.
5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE SPRINT CONSTRUCTION MANAGER.
6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP-1.
7. FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
9. APPLY BLOCK FLOOR TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PROPERLY COMPLETELY FILLED.
10. CONTRACTOR SHALL CORRECT RUNS, SACS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE SPRINT CONSTRUCTION MANAGER. REPAIR AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	PAINTING OF EXTERIOR WALLS		SQ. YD.		
2	PAINTING OF INTERIOR WALLS		SQ. YD.		
3	PAINTING OF CEILING		SQ. YD.		
4	PAINTING OF FLOOR		SQ. YD.		
5	PAINTING OF METAL SURFACES		SQ. YD.		
6	PAINTING OF WOOD SURFACES		SQ. YD.		
7	PAINTING OF CONCRETE SURFACES		SQ. YD.		
8	PAINTING OF GLASS SURFACES		SQ. YD.		
9	PAINTING OF OTHER SURFACES		SQ. YD.		

11. PAINTING SYSTEM SPECIFICATIONS
 - 1.01B ACRYLIC COATING (SERIES 866) BY SHERWIN WILLIAMS CO. 100% DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (BR640)
 - 1.02B ACRYLIC LATEX COATING EQUIVALENT TO 1-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1.00 DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER & PRIMER
12. ANTENNAS
 - PRIMER - KEM AQUA E61-W525
 - TOPCOAT - CORDTHANE II B65W200/B60V22
- BITS CABINET
 - PRIMER - KEM AQUA E61-W525
 - TOPCOAT - CORDTHANE II B65W200/B60V22
- COAXIAL CABLES
 - AS REQUIRED FOR ADHESION, APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W200 REDUCED 25%
 - TOPCOAT - 2 COATS CORDTHANE II POLYURETHANE B65W200/B60V2
- RAW STEEL
 - PRIMER - KEM BOND HS B50W24, DMT ACRYLIC PRIMER
 - TOPCOAT - 2 COATS CORDTHANE II POLYURETHANE B65W200/B60V2
- GALVANIZED METAL
 - ACID ETCH WITH COMMERCIAL ETCH OR WINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)
- STAINLESS STEEL
 - PRIMER - OTM WASH PRIMER, B7111
 - TOPCOAT - 2 COATS CORDTHANE II POLYURETHANE B65W200/B60V2
- PRE-PRIMED STEEL
 - TOUCH-UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, 550W24
- ALUMINUM & COPPER
 - PRIMER - OTM WASH PRIMER, B7111
 - TOPCOAT - 2 COATS CORDTHANE II POLYURETHANE B65W200/B60V2
- CONCRETE MASONRY
 - PRIMER - PRO MAR EXTERIOR BLOCK FILLER
 - TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
- CONCRETE STUCCO/CEMENTING
 - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
- STUCCO
 - PRIMER - PRO MAR MASONRY CONDITIONER B-46-W12000
 - TOPCOAT - SUPER PAINT A-B0 SERIES A-89 SATIN A-84 GLOSS
- WOOD
 - A-100 EXTERIOR ALKYL WOODS PRIMER Y-24W20
 - TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES
- FIELD CUTS/DAMAGE (PRIOR TO PRIME & PAINT)
 - FIRST & SECOND COAT - CURING CLEAR WOOD PRESERVATIVE #158-0356
 - ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CALKED WITH "SIKAFLEX" SEALANT
- STEEL TOUCH UP
 - STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

STRUCTURAL SPECIFICATIONS

1. PRECEDENCE UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE:
 - A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
 - B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
 - C. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
3. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
4. SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS FULLY COMPLETED. THIS INCLUDES UNSUPPORTING EXISTING FOOTINGS WHERE APPLICABLE.
5. SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
6. WATERPROOFING, WATERPROOFING AND DRAINAGE DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.
7. STEEL
 - 1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM B570 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
 - 2. ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325.
 - 3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
 - 4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
 - 5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.
 - 6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
 - B. R00 OWENS
 - B. R00 OWENS
 - C. GRINDERS.
 - 7. NO BUZZ BOXES SHALL BE USED.
 - 8. ALL STRUCTURAL STEEL SHALL BE CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
 - 9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
 - 10. STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
 - 11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALLY NOTED "FULL STRESS" AT END OF WELD SYMBOL.
8. CONCRETE
 - 1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:

LOCATION	STRENGTH	WT. SUMP	ADMIXTURE
SLAB/ROOFING 2500psi	150psi	4"	NONE
 - 2. INSULATION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT AT A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.
 - 3. REBAR GRIDS: REINFORCING STEEL SHALL BE CLEAN PERFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
 - #4 & SMALLER BARS: GRADE 40
 - #5 & LARGER BARS: GRADE 60
 - ALL BARS AT CAISSON FOOTING: GRADE 50
 - 4. CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150
 - 5. PER/CASSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
 - 6. AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE SEPARATION, SHIRING, OR CRACKS. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:
 - A. FOUNDATIONS & SLABS "9" OR LESS: 3/4" GRAVEL
 - B. PIER/CASSON FOOTING: 1" GRAVEL
 - 7. WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.
 - 7. MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-34. NO MORE THAN 60 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.
 - 8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL, GAS IN WALLS, COLUMNS, CAISSON, AND OTHER CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCOMPACTED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.
 - 9. SPACES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WROTE TOGETHER. SPICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.
 - 10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:
 - A. CONCRETE IN CONTACT WITH EARTH, UNFORMED 3"
 - B. CONCRETE IN CONTACT WITH FORMED 2"
 - C. WALL, EXTERIOR FACE 1-1/2"
 - D. WALL, INTERIOR FACE 1"
 - E. STRUCTURAL SLABS 3/4"
 - F. JOISTS 3/4"
 - G. BEAMS, GIRDERS & COLUMNS 1-1/2"
 - 11. PENETRATIONS: NO SLEEVES OR CHASSES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASSES. ALL EXISTING ELECTRICAL PENETRATIONS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
 - 12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.
 - 13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC. SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.
 - 14. CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.
 - 15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
 - D. TUBER
 - 16. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - 17. STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD. & B7R GRADE DOUGLAS FIR, S4S 24" STUD WALLS SHALL BE D.F., STANDARD & B7R.
 - 18. ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
 - 19. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/76. EDGE NAIL WITH 8@ 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH 8@ 12" O.C.
 - 20. PLYWOOD SHEETS SHALL BE LAD WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
 - 21. PLYWOOD SHALL BE GRADE MARKED BY DFWA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.
 - 22. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.
 - 23. MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
 - 24. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
 - 25. LAG BOLTS SHALL BE SCREWED INTO DRILLED, NOT DRIVEN, LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
 - 26. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SANSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
 - 27. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
 - 28. ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS
 - A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-VI-2
 - B. STRENGTH PROPERTIES:
 - F_b BOTTOM FIBER BENDING STRESS 2000psi MIN
 - F_v TOP FIBER BENDING STRESS 1000psi MIN
 - F_t SHEAR STRESS 190psi MIN
 - F_c COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN
 - E. MODULUS OF ELASTICITY 1400psi MIN
 - C. FEMUR TO RADIUS OF 1600 U.O.N.
 - D. ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE
 - E. MANUFACTURE OF GLB'S SHALL CONFORM TO THE USEC
 - F. CLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/ATC 1190.1 AND ASTM D3737.



PROJECT INFORMATION:
 NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555
 2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
 01/24/13
 ISSUED FOR:
 100% FINAL CD'S

REV.	DATE	DESCRIPTION	INIT.
0	05/12/12	90% CD'S REVIEW	FR
1	11/26/12	100% CD'S REVIEW	FR
2	01/24/13	100% FINAL CD'S	FR

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET
 LICENSEURE

SHEET TITLE:
 SPECIFICATIONS AND NOTES
 SHEET NUMBER: T-2
 REVISION: 2

BATTERY INFORMATION/ NOTES:

BATTERY MFG	EAST PENN MANUFACTURING	A. QUANTITIES OF 50 GALLONS OR LESS ARE EXEMPT PER TABLE 3-E OF THE 2010 C.F.C.
MODEL NUMBER	12AVR-145L	B. SINGLE VESSEL CAPACITIES OF 10 GALLONS OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GALLONS ARE EXEMPT PER ARTICLE 64 OF THE 2010 C.F.C.
ELECTROLYTE STORED PER BATTERY	2.18 GALLONS	C. QUANTITIES LESS THAN 50 GALLONS ARE EXEMPT FROM C.F.C. ARTICLE 80, AND SHALL NOT REQUIRE REMIT.
ELECTROLYTE HAZARD CLASSIFICATION PER 2010 C.F.C. ELECTROLYTE (PER BATTERY)	23.68 LBS CORROSIVE	D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2010 C.F.C. ARTICLE 64, AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50
PURE ACID (PER BATTERY)	5.6X SULFURIC ACID CORROSIVE	E. BATTERIES SPECIFICATIONS : BATTERIES ARE APPROXIMATELY 6.97"W X 16.82"L X 10.10"H WEIGHT: 100 LBS
NUMBER OF BATTERIES TO BE INSTALLED	20 PER CABINET	
TOTAL ELECTROLYTE CONTAINED ON SITE (2.18 X 20)	43.6 GALLONS MAX	

TYPE OF BATTERIES: GEL; ABSORBED ELECTROLYTE SEALED; VALVE-REGULATED NON-SPILLABLE BATTERY

FIRE DEPARTMENT NOTES:

- FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
- A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE.
- A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
- A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
TOXIC LIQUID
CORROSIVE LIQUID
OTHER HEALTH HAZARDOUS LIQUID

- AN APPROVED METHOD TO NEUTRALIZE SUPPLIED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
- BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
- LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE INSPECTOR.
- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
- EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.
- REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH, IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
- REQUIRED SIGNAGE SHALL INCLUDE BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN; SEE DETAILS 1, 2, AND 3.



REQUIRED NFPA SIGNAGE

**IN CASE OF
EMERGENCY
CALL
1-866-400-6040**

SITE NUMBER: SD34XC555
SITE NAME: SINGING HILLS (7 RESERVOIR (7 0))

EMERGENCY CONTACT SIGNAGE

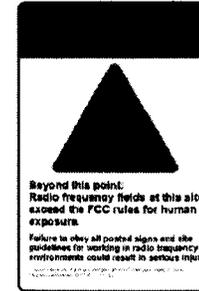
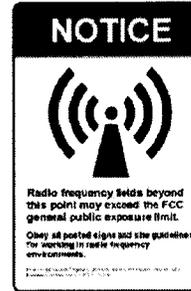
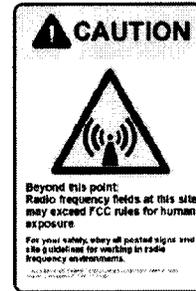
SITE IDENTIFICATION SIGNAGE

3



HAZARDOUS MATERIAL SIGNAGE

2

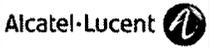


SITE IDENTIFICATION SIGNAGE

4

RF SIGNAGE

1



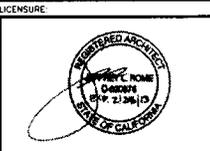
PROJECT INFORMATION:
NETWORK VISION
MMBTS LAUNCH
SINGING HILLS (7
RESERVOIR (7 0)
SD34XC555
2568 FENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:
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LABELED AS CONSTRUCTION SET



SHEET TITLE:
SIGNAGE AND NOTES

SHEET NUMBER: T-3
REVISION: 2

JPA JOB NUMBER: T-0519

SITE PLAN GENERAL NOTES

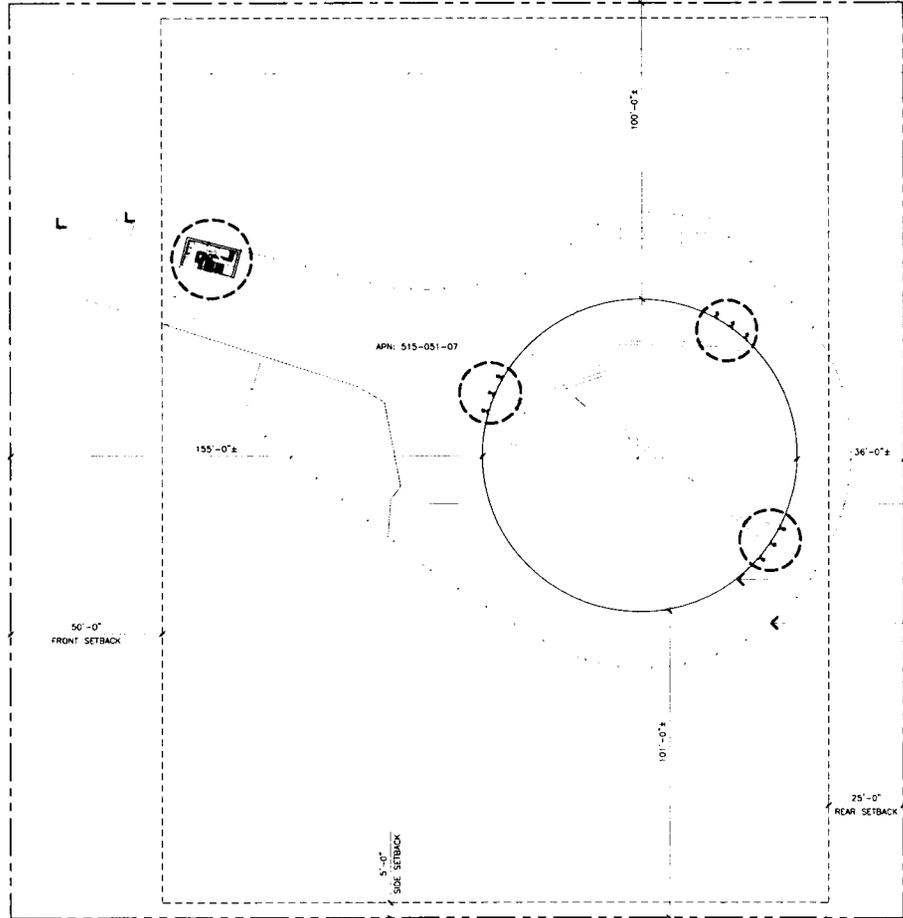
- SETBACKS
 FRONT YARD = 50'-0"
 BACK YARD = 25'-0"
 SIDE YARDS = 5'-0"
1. SITE CONTRACTOR TO CALL DIG ALERT (1-800-227-2600) TO LOCATE ANY AND ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
 2. ALL FACILITIES TO BE INSTALLED ARE UNMANNED; NO EXISTING PARKING SPACES WILL BE IMPACTED BY THE NEW USE.
 3. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL INCORPORATE ANY CONSTRUCTION BEST MANAGEMENT PRACTICES NECESSARY.
 4. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL SUBMIT A WATER POLLUTION CONTROL PLAN (WPCP). THE WPCP SHALL BE PREPARED IN ACCORDANCE WITH THE CITY'S STORM WATER STANDARDS.

STORM WATER QUALITY NOTES CONSTRUCTION BMP'S

- THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.
- NOTES 1-6 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S
1. SUFFICIENT BMP'S MUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREACH IN THE INSTALLED CONSTRUCTION BMP'S.
 2. ALL STOCK PILES OF UNCOMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD GREATER THAN SEVEN CALENDAR DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS. SUCH SOIL MUST BE PROTECTED EACH DAY WHEN THE PROBABILITY OF RAIN IS X40 OR GREATER.
 3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
 4. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
 5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
 6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

STATEMENT OF SPECIAL INSPECTION

- NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD:
1. BY USING THIS PERMITTED CONSTRUCTION DRAWING FOR CONSTRUCTION / INSTALLATION OF WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION AND, AS REQUIRED BY THE STATE OF CALIFORNIA CODES.
- NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/OWNER-BUILDER
2. BY USING THIS PERMITTED CONSTRUCTION DRAWING FOR CONSTRUCTION / INSTALLATION OF WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION AND, AS REQUIRED BY THE STATE OF CALIFORNIA CODES.
 3. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
 4. THE CONSTRUCTION MATERIAL TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT.
 5. THE SPECIAL INSPECTION IDENTIFIED ON THE PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.
- SPECIAL INSPECTION REQUIRED:
 SEE DETAIL 1/A-5
 SEE DETAIL 3/A-5.1



EXISTING ACCESS ROUTE.

EXISTING SPRINT METER LOCATED INSIDE ELECTRICAL CABINET.

EXISTING SPRINT LEASE AREA. SEE SHEET A-1.1.

AREA OF PROPOSED WORK IN EXISTING SPRINT LEASE AREA. SEE SHEET A-1.1.

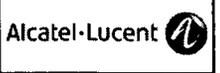
AREA OF PROPOSED WORK IN EXISTING SPRINT LEASE AREA. SEE SHEET A-1.1.

AREA OF PROPOSED WORK IN EXISTING SPRINT LEASE AREA. SEE SHEET A-1.1.

EXISTING WATER TANK

EXISTING CHAIN LINK FENCE

EXISTING PROPERTY LINE.



PROJECT INFORMATION

NETWORK VISION
 MMBTS LAUNCH

SINGING HILLS (7
 RESERVOIR (7 0)

SD34XC555

2588 FENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
 01/24/13

ISSUED FOR:
 100% FINAL CD'S

REVISIONS				
REV	DATE	DESCRIPTION	INT.	
0	05/12/12	90% CD'S REVIEW	FR	
1	11/26/12	100% CD'S REVIEW	FR	
2	01/24/13	100% FINAL CD'S	FR	

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
 SITE PLAN

SHEET NUMBER:
 A-1

REVISION:
 2

SITE PLAN

11X17 SCALE: 1"=40'
 24X36 SCALE: 1"=20'

1

JRA JOB NUMBER: 133810

NOTES TO CONTRACTOR:

1. REMOVE ALL EXISTING CDMA COAX AND ANTENNAS FROM SITE.
2. NEW ANTENNAS AND HARDWARE TO BE PAINTED TO MATCH EXISTING BUILDING.
3. CONTRACTOR TO SET ELECTRICAL TILT.

SECTOR	ANTENNA	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	ANTENNA MODEL	ELECTRICAL TILT	MECHANICAL TILT	RRH	RRH MODEL	FIBER OPTIC MODEL	FIBER OPTIC LENGTH (±5')
1		1900	0°	24'	1	APXVSPPIB-C-A20	0	-	1900 NV 4X45W	(1) HYBRIFLEX 1-1/4" HB114-1-08U4-MSU	252'
2		1900	90°	32'	1	APXVSPPIB-C-A20	0	-	1900 NV 4X45W	(1) HYBRIFLEX 1-1/4" HB114-1-08U4-MSU	252'
3		1900	280°	32'	1	APXVSPPIB-C-A20	0	-	1900 NV 4X45W	(1) HYBRIFLEX 1-1/4" HB114-1-08U4-MSU	151'
4									N/A		

IMPORTANT NOTE: INSTALLERS TO VERIFY LATEST RF DATA SHEET AND PLUMBING/WIRING DIAGRAMS, PRIOR TO INSTALLATION.

ANTENNA SCHEDULE

SCALE: NONE **2**



Jeffrey Rome & Associates, Inc.
 Architecture & Telecommunications
 1 San Joaquin Plaza, Suite 250
 Newport Beach, California 92660
 Phone: (949) 760-3825
 Fax: (949) 760-3831

PROJECT INFORMATION:

NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555

2568 FENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:

01/24/13

ISSUED FOR:

100% FINAL CD'S

REVISIONS

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LICENSURE:



SHEET TITLE:

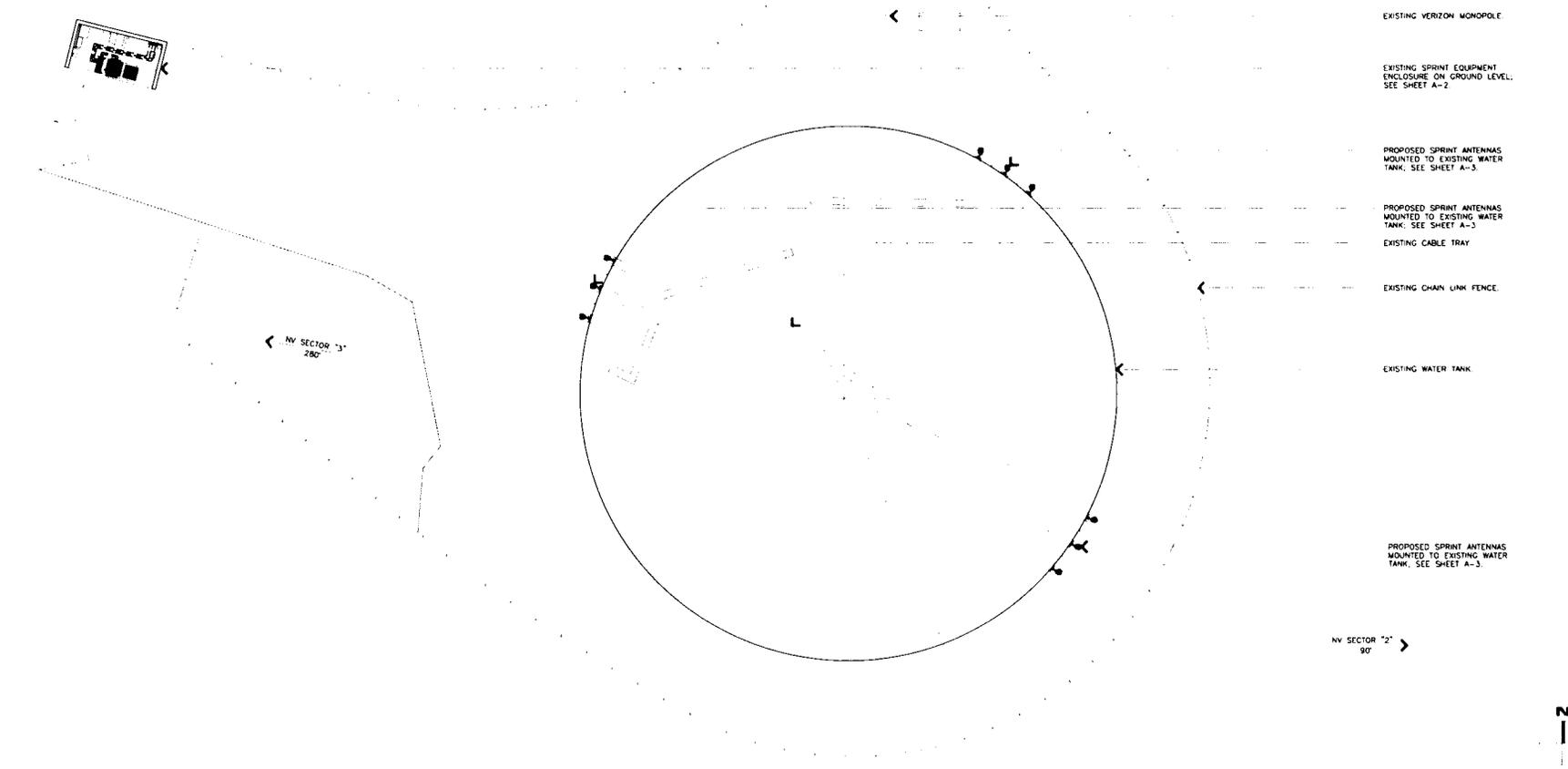
ENLARGED SITE PLAN

SHEET NUMBER:

A-1.1

REVISION:

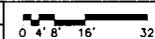
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ENLARGED SITE PLAN

11x17 SCALE: 1/32"=1'-0"

22x34 SCALE: 1/16"=1'-0"



1

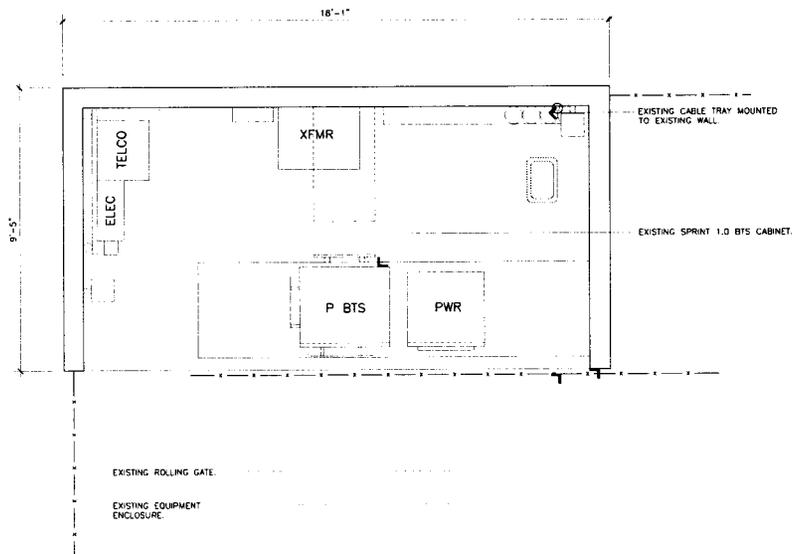
JRA JOB NUMBER: 1-12519

EQUIPMENT PLAN SYMBOL LEGEND

- EXISTING SPRINT TELCO CABINET.
- EXISTING ELECTRICAL PANEL.
- EXISTING SPRINT BATTERY CABINET.
- EXISTING SPRINT POWER CABINET.
- EXISTING SPRINT PRIMARY BTS CABINET.
- EXISTING ELECTRICAL TRANSFORMER.
- EXISTING SPRINT SITE LIGHT.
- EXISTING SPRINT MAIN GROUND BUS BAR.
- EXISTING SPRINT ELECTRICAL METER.
- EXISTING SPRINT GPS ANTENNA.

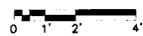
EQUIPMENT PLAN SYMBOL LEGEND

- EXISTING SPRINT TELCO CABINET.
- EXISTING ELECTRICAL PANEL.
- EXISTING SPRINT BATTERY CABINET.
- EXISTING SPRINT POWER CABINET.
- EXISTING SPRINT PRIMARY BTS CABINET.
- EXISTING ELECTRICAL TRANSFORMER.
- EXISTING SPRINT SITE LIGHT.
- EXISTING SPRINT MAIN GROUND BUS BAR.
- EXISTING SPRINT ELECTRICAL METER.
- EXISTING SPRINT GPS ANTENNA.
- PROPOSED SPRINT BTS CABINET.
- PROPOSED SPRINT BATTERY BACKUP CABINET.
- PROPOSED FIBER AND DC DISTRIBUTION BOX.
- PROPOSED FIBER AND DC CONDUIT.

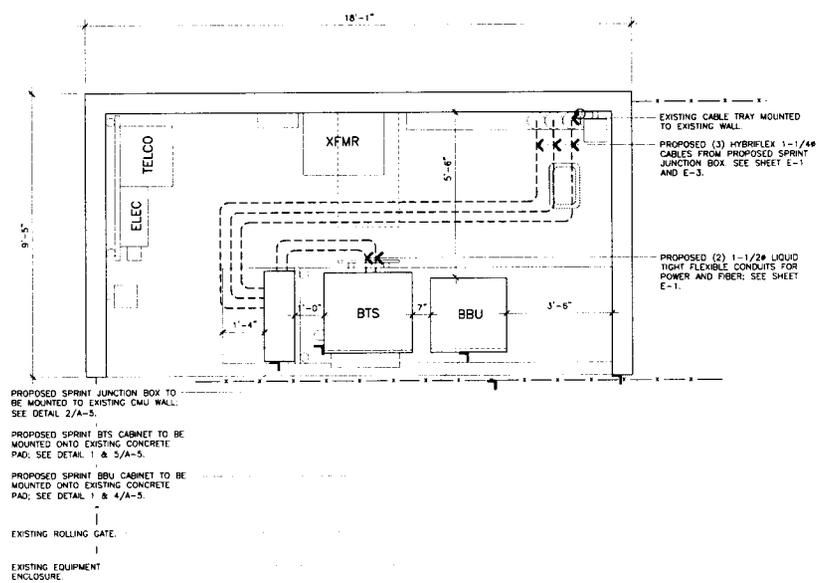


EXISTING EQUIPMENT PLAN

11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"

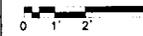


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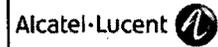


PROPOSED EQUIPMENT PLAN

11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"



1



Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 350
Newport Beach, California 92660
Phone: (949) 780-3929
Fax: (949) 780-3931

PROJECT INFORMATION

NETWORK VISION
MMBTS LAUNCH
SINGING HILLS (7
RESERVOIR (7 0)

SD34XC555

2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE

01/24/13

ISSUED FOR

100% FINAL CD'S

REVISIONS

REV.	DATE	DESCRIPTION	INT.
0	05/12/12	90% CD'S REVIEW	FR
1	11/26/12	100% CD'S REVIEW	FR
2	01/24/13	100% FINAL CD'S	FR

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LABELED AS CONSTRUCTION SET

LICENSURE



SHEET TITLE

EQUIPMENT PLAN

SHEET NUMBER

A-2

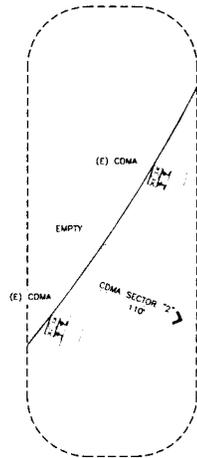
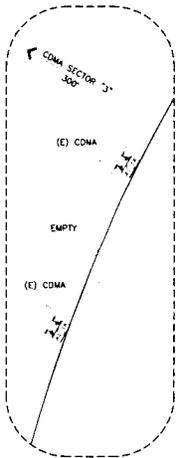
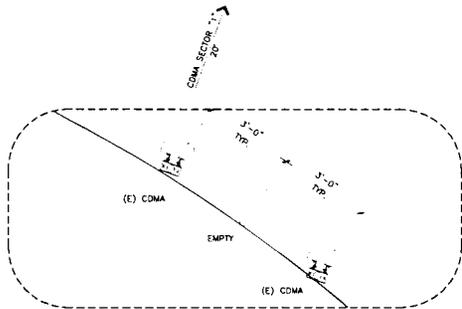
REVISION

2

ANTENNA LAYOUT PLAN NOTES

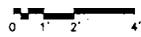
1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.

(E) EXISTING ANTENNA
(N) PROPOSED ANTENNA



EXISTING ANTENNA LAYOUT PLAN

11x17 SCALE: 1/4"=1'-0"
22x34 SCALE: 1/2"=1'-0"

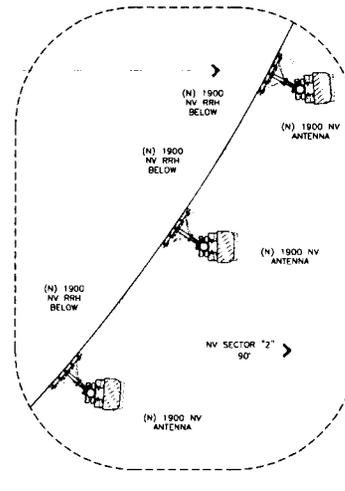
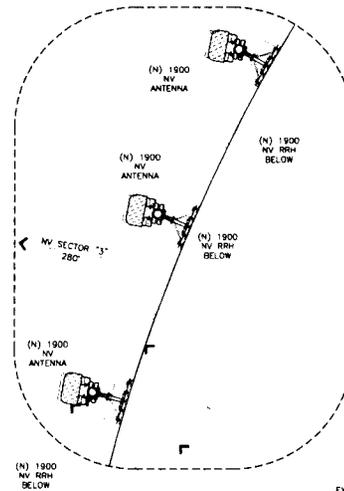
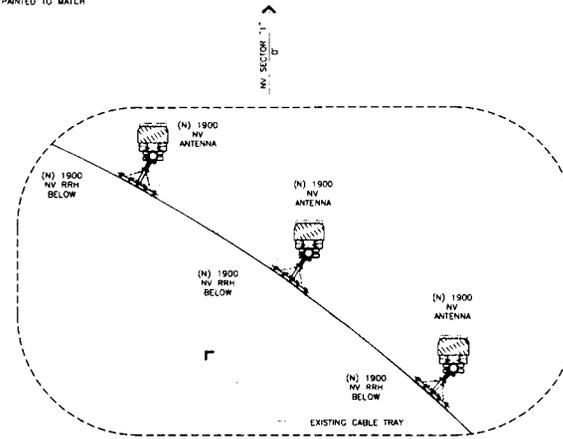


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ANTENNA LAYOUT PLAN NOTES

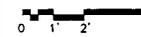
1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE AND RF DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.
2. ALL ANTENNAS MUST BE PAINTED TO MATCH EXISTING WATER TANK

(E) EXISTING ANTENNA
(N) PROPOSED ANTENNA



PROPOSED ANTENNA LAYOUT PLAN

11x17 SCALE: 1/4"=1'-0"
22x34 SCALE: 1/2"=1'-0"



1



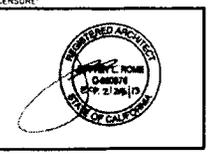
JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 250
Newport Beach, California 92660
Phone: (949) 780-3829
Fax: (949) 780-3831

PROJECT INFORMATION:
NETWORK VISION
MMBTS LAUNCH
SINGING HILLS (7
RESERVOIR (7 0)
SDJ4XC555
2568 FENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:
01/24/13
ISSUED FOR:
100% FINAL CD'S

REVISIONS				
REV	DATE	DESCRIPTION	UNIT	FR
0	05/12/12	90% CD'S REVIEW	JR	
1	11/26/12	100% CD'S REVIEW	FR	
2	01/24/13	100% FINAL CD'S	FR	

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SHEET NUMBER: REVISION

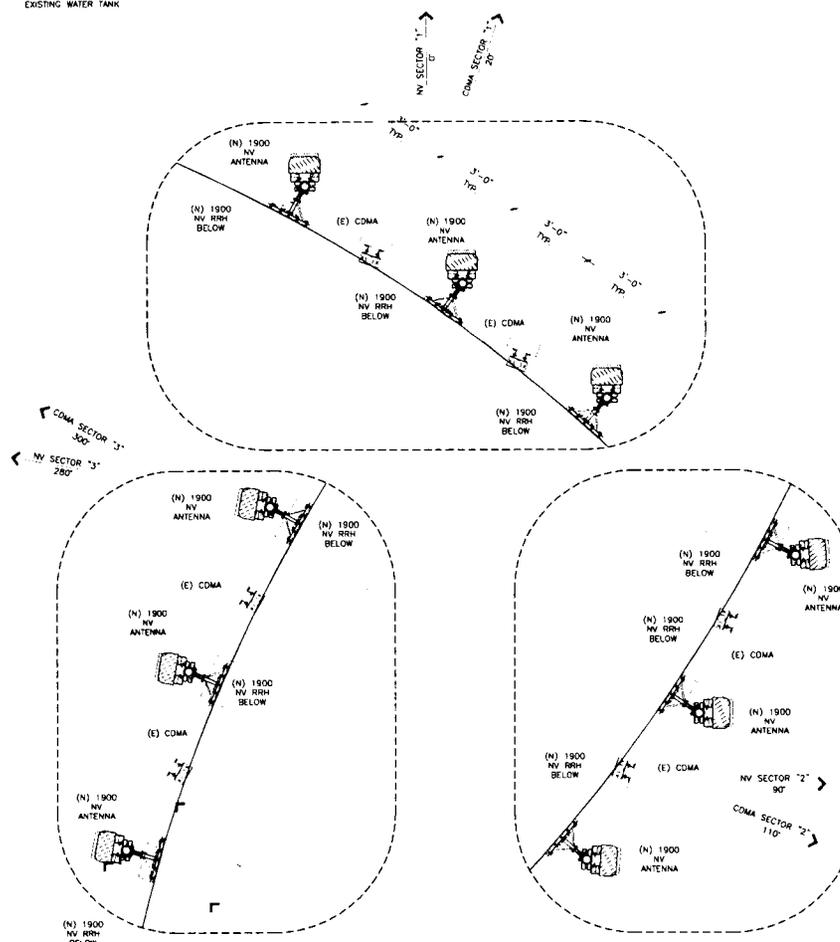
A-3 2

JRA JOB NUMBER: 13219

ANTENNA LAYOUT PLAN NOTES

1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE AND BE DESIGN. ANTENNA PIPE MOUNT MODIFICATION MAY BE REQUIRED.
2. ALL ANTENNAS MUST BE PAINTED TO MATCH EXISTING WATER TANK

(E) EXISTING ANTENNA
(N) PROPOSED ANTENNA



EXISTING WATER TANK

EXISTING CABLE TRAY

PROPOSED SPRINT 1900 NV RRH:
(3) PER SECTOR, (9) TOTAL. SEE DETAIL 3/A-6

PROPOSED SPRINT 1900 NV ANTENNA: (3) PER SECTOR, (9) TOTAL. SEE DETAIL 4/A-6



JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 250
Hunting Beach, California 92640
Phone: (949) 780-3929
Fax: (949) 780-3931

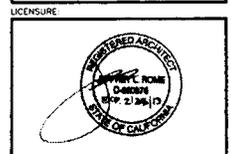
PROJECT INFORMATION:
NETWORK VISION
MMBTS LAUNCH
SINGING HILLS (7
RESERVOIR (7 0)
SD34XC555
2588 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:
01/24/13

ISSUED FOR:
100% FINAL CD'S

REVISIONS				
REV	DATE	DESCRIPTION	UNIT	
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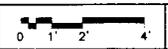
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SHEET NUMBER:	REVISION:
A-3.1	2

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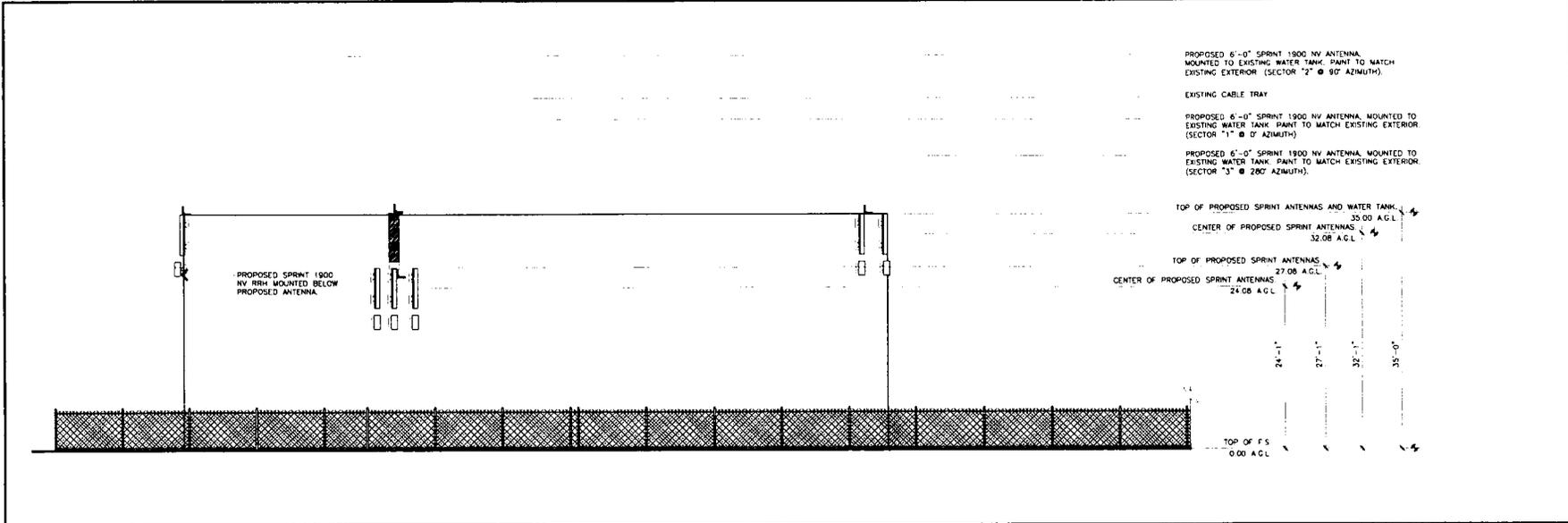
2 INTERIM ANTENNA LAYOUT PLAN

11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"



1

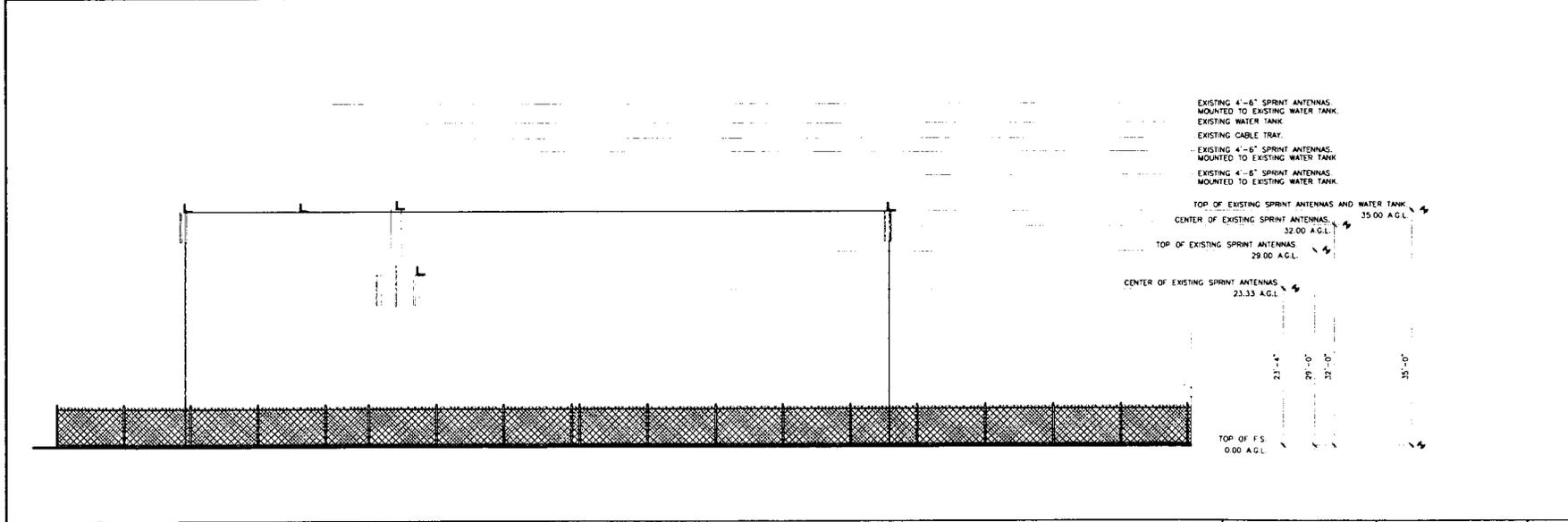
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PROPOSED NORTH ELEVATION

11x17 SCALE: 1/16"=1'-0"
 24x36 SCALE: 1/8"=1'-0" 0 2' 4' 8' 16'

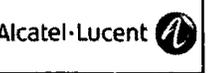
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EXISTING NORTH ELEVATION

11x17 SCALE: 1/16"=1'-0"
 24x36 SCALE: 1/8"=1'-0" 0 2' 4' 8' 16'

1



JRA
 Jeffrey Rome & Associates, Inc.
 Architecture & Telecommunications
 1 San Joaquin Plaza, Suite 2300
 Newport Beach, California 92660
 Phone: (949) 780-3829
 Fax: (949) 760-3831

PROJECT INFORMATION:
 NETWORK VISION
 MVBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555
 2368 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
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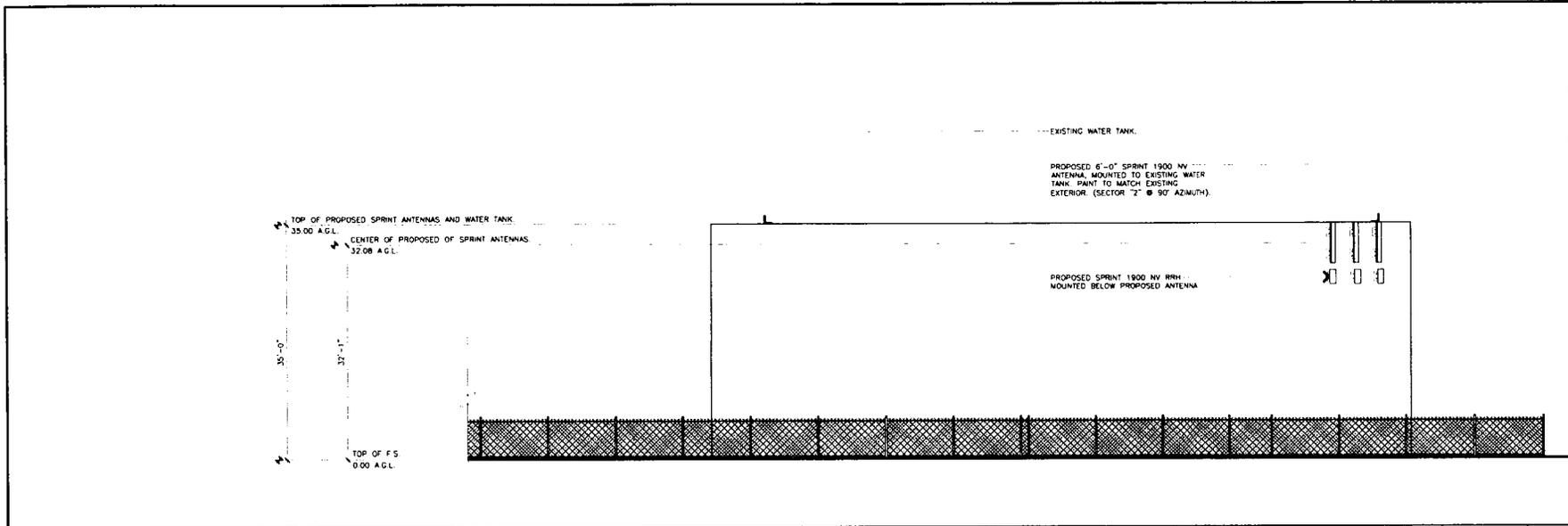
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SHEET TITLE:
 SHEET NUMBER:
 REVISION:

A-4 2

JRA JOB NUMBER: 11019

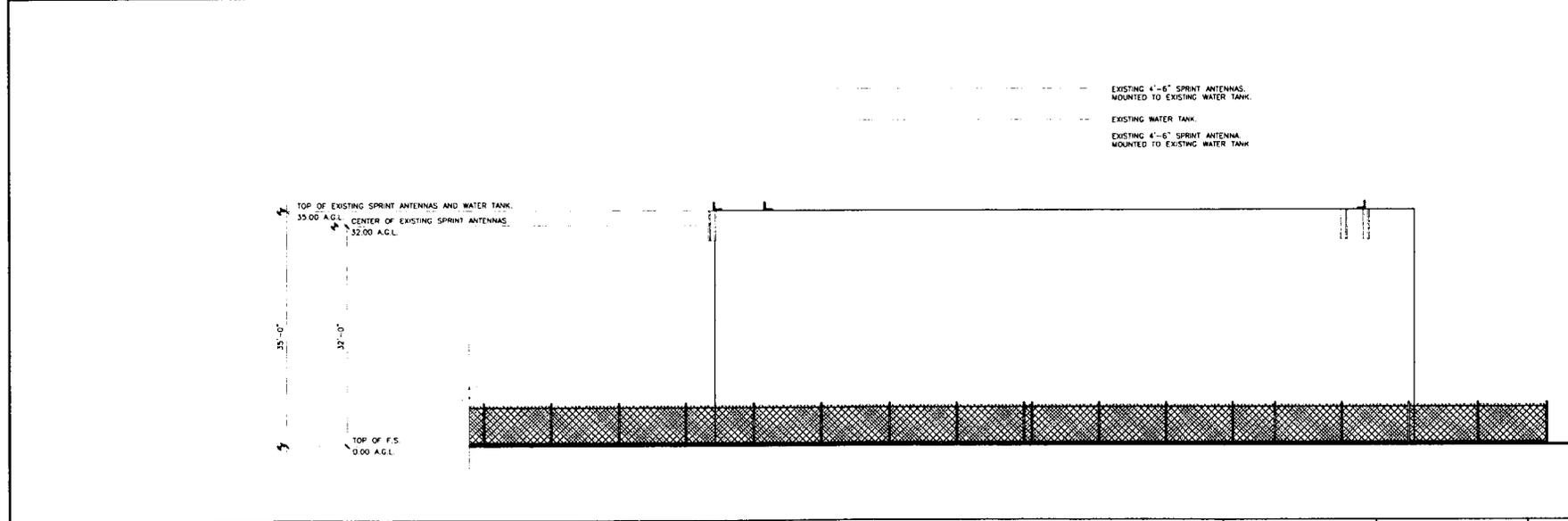


PROPOSED SOUTH ELEVATION

11x17 SCALE: 1/16"=1'-0"
24x36 SCALE: 1/8"=1'-0"



2

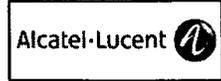


EXISTING SOUTH ELEVATION

11x17 SCALE: 1/16"=1'-0"
24x36 SCALE: 1/8"=1'-0"



1



JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 2300
Newport Beach, California 92660
Phone: (949) 780-3928
Fax: (949) 780-3931

PROJECT INFORMATION:
NETWORK VISION
MMBTS LAUNCH
SINGING HILLS (7
RESERVOIR (7 0)
SD34XC555
2588 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

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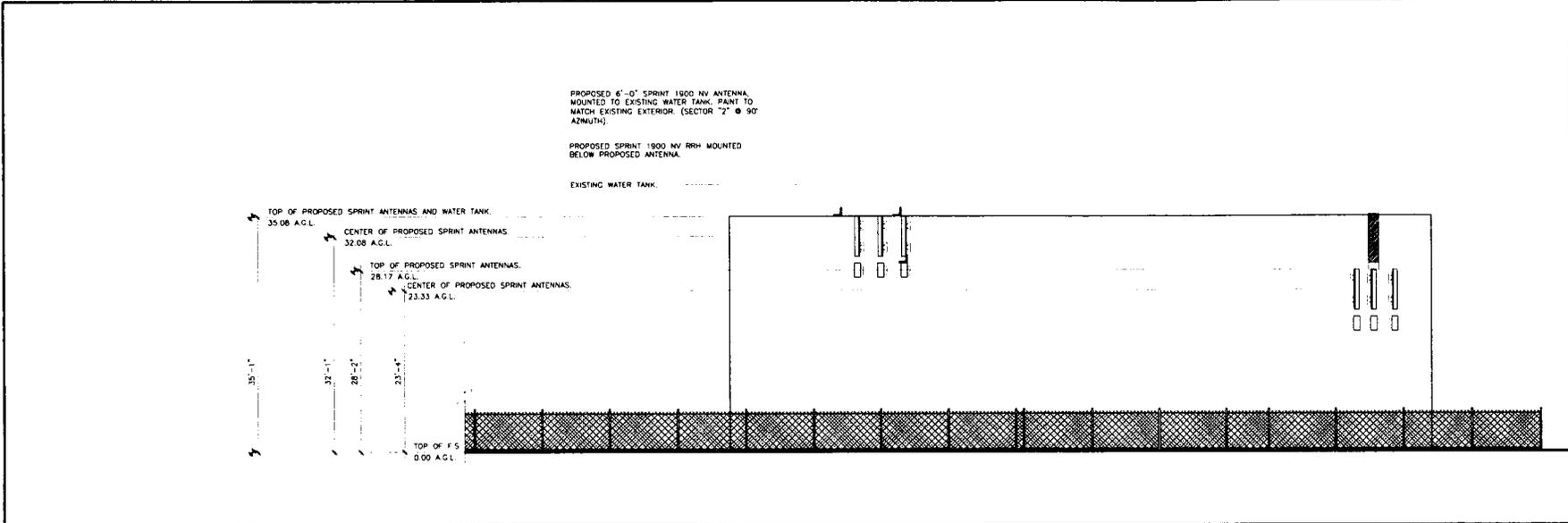
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2	01/24/13	100% FINAL CD'S	FR	

NOT FOR CONSTRUCTION UNLESS
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SHEET TITLE: ELEVATION
ELEVATION

SHEET NUMBER: A-4.1
REVISION: 2

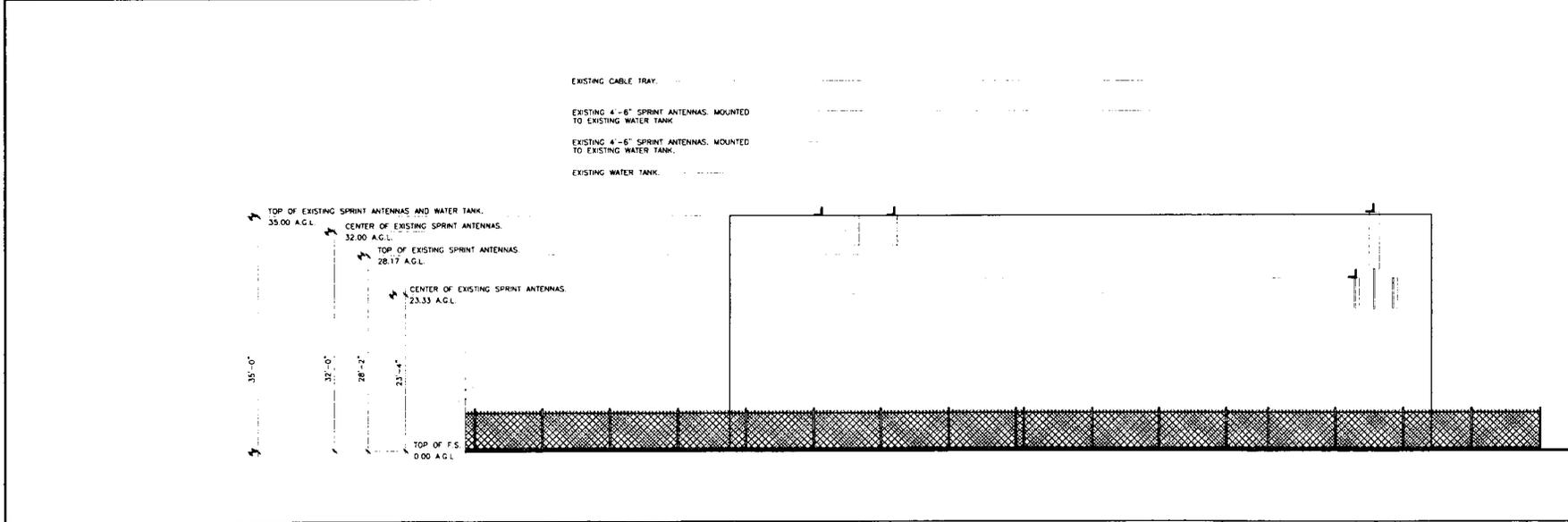


PROPOSED EAST ELEVATION

11x17 SCALE: 1/16"=1'-0"
24x36 SCALE: 1/8"=1'-0"

0' 2' 4' 8' 16'

2

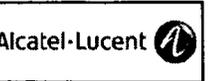


EXISTING EAST ELEVATION

11x17 SCALE: 1/16"=1'-0"
24x36 SCALE: 1/8"=1'-0"

0' 2' 4' 8' 16'

1



JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 2300
Newport Beach, California 92660
Phone: (949) 780-3929
Fax: (949) 780-3931

PROJECT INFORMATION:
NETWORK VISION
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SD34XC555
2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

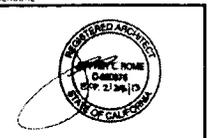
ISSUED DATE:
01/24/13

ISSUED FOR:
100% FINAL CD'S

REVISIONS

REV	DATE	DESCRIPTION	INIT.
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1	11/26/12	100% CD'S REVIEW	FR
2	01/24/13	100% FINAL CD'S	FR

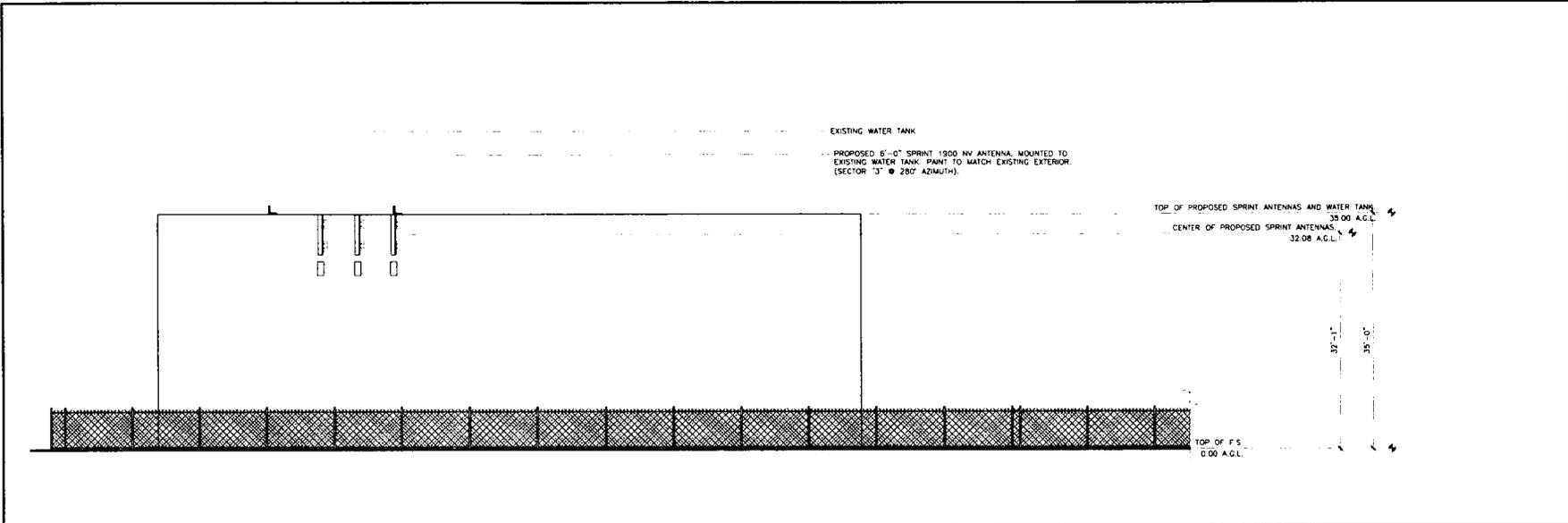
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SHEET TITLE:
ELEVATION

SHEET NUMBER: A-4.2
REVISION: 2

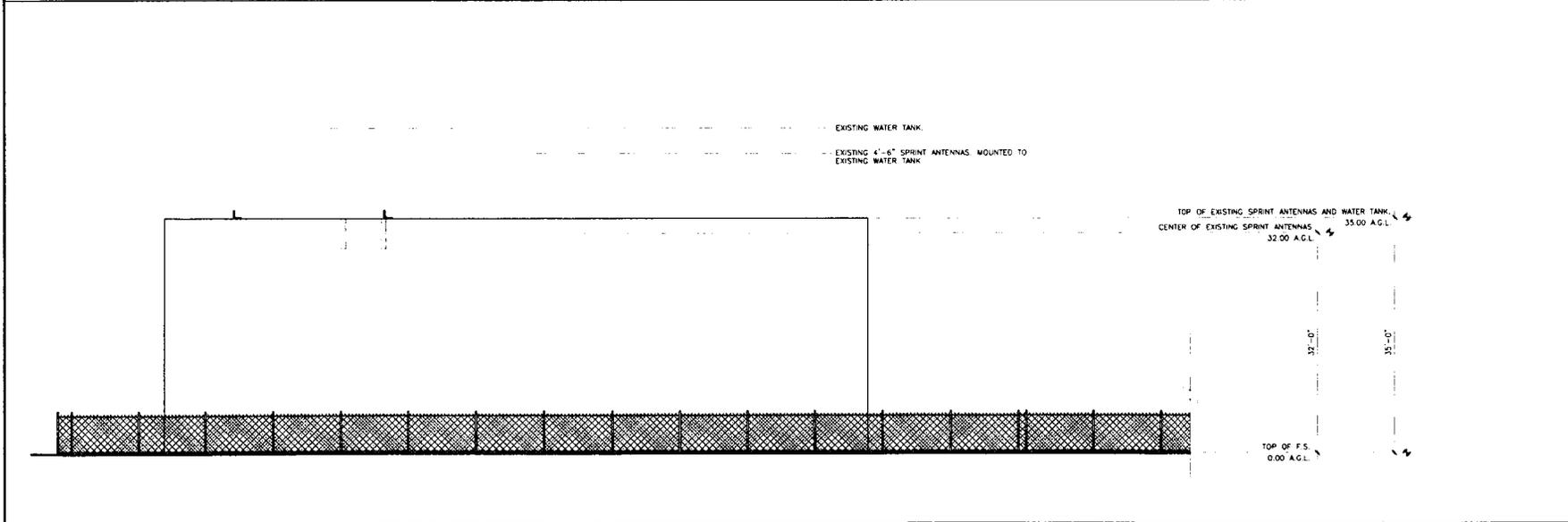
1/24/13



PROPOSED WEST ELEVATION

11x17 SCALE: 1/16"=1'-0"
 24x36 SCALE: 1/8"=1'-0" 0' 2' 4' 8' 16'

2



EXISTING WEST ELEVATION

11x17 SCALE: 1/16"=1'-0"
 24x36 SCALE: 1/8"=1'-0" 0' 2' 4' 8' 16'

1



JRA
 Jeffrey Rome & Associates, Inc.
 Architecture & Telecommunications
 1 San Joaquin Plaza, Suite 250
 Newport Beach, California 92660
 Phone: (949) 780-5829
 Fax: (949) 780-5831

PROJECT INFORMATION:
 NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555
 2560 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
 01/24/13

ISSUED FOR:
 100% FINAL CD'S

REVISIONS

REV	DATE	DESCRIPTION	INT
0	05/12/12	90% CD'S REVIEW	FR
1	11/26/12	100% CD'S REVIEW	FR
2	01/24/13	100% FINAL CD'S	FR

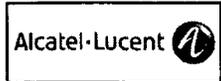
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 LABELED AS CONSTRUCTION SET



SHEET TITLE:
 ELEVATION

SHEET NUMBER: A-4.3
 REVISION: 2

JRA JOB NUMBER: 112019



PROJECT INFORMATION:

NETWORK VISION
MMBTS LAUNCH

SINGING HILLS (7
RESERVOIR (7 0)

SD34XC555

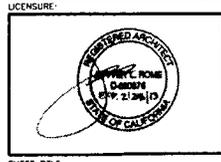
2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:
01/24/13

ISSUED FOR:
100% FINAL CD'S

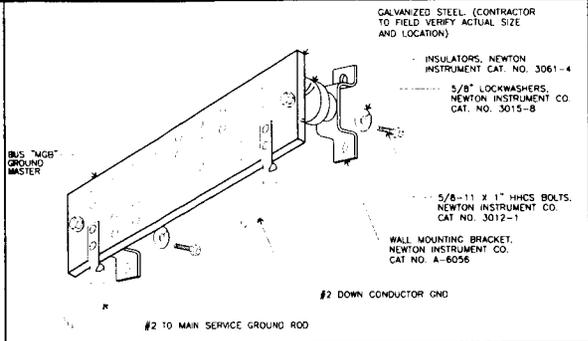
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REV.	DATE	DESCRIPTION	INIT.
0	05/12/12	90% CD'S REVIEW	FR
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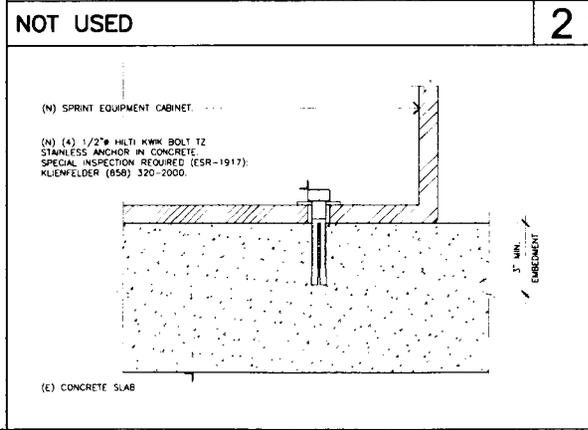
SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER: A-5
REVISION: 2

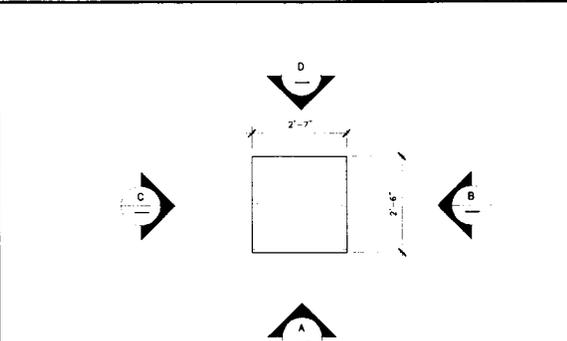


GROUND BAR (IF REQUIRED) SCALE: NONE 3

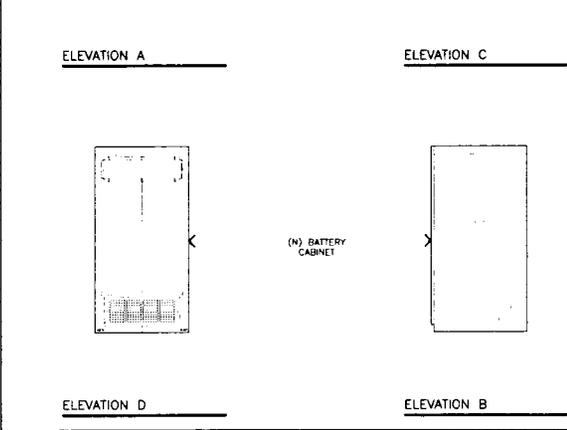
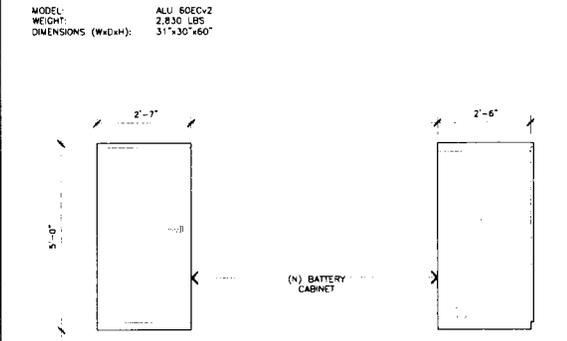
NOT USED 2



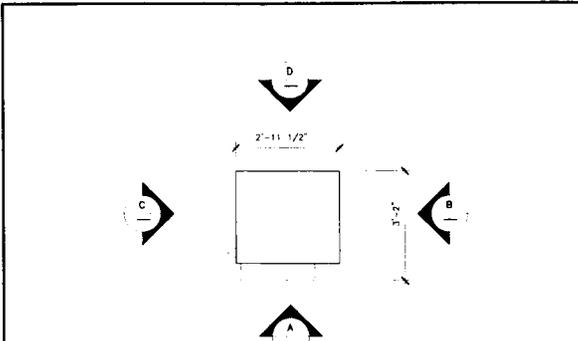
EQUIPMENT ANCHORAGE SCALE: NONE 1



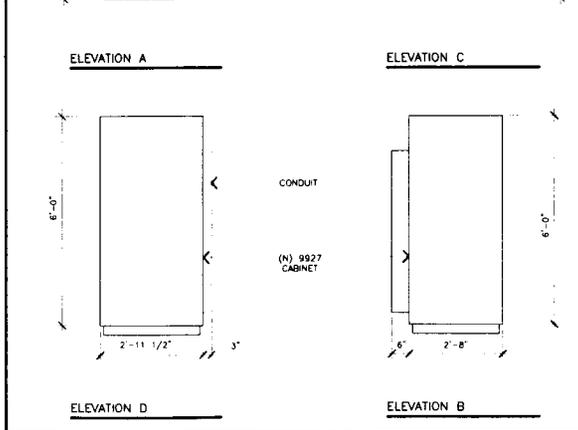
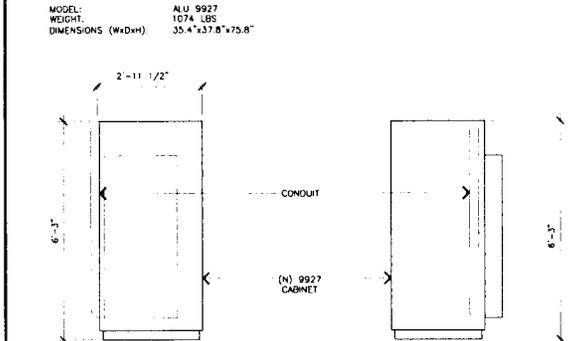
BATTERY CABINET - NEW
MODEL: ALU 60ECV2
WEIGHT: 2,830 LBS
DIMENSIONS (WxDxH): 31\"/>



BATTERY CABINET SCALE: NONE 4



BTS CABINET - NEW
MODEL: ALU 9927
WEIGHT: 1074 LBS
DIMENSIONS (WxDxH): 35.4\"/>



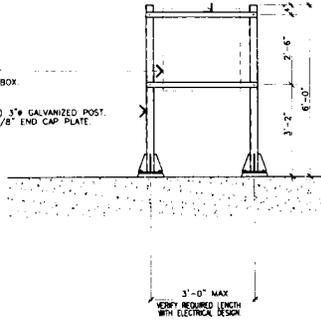
BTS CABINET SCALE: NONE 5

SHEET NUMBER: 1-0219

(N) (2) P1000 UNISTRUT ATTACH TO POST

(N) SPRINT JUNCTION BOX

(N) OR (E) 3" GALVANIZED POST. PROVIDE 1/8" END CAP PLATE

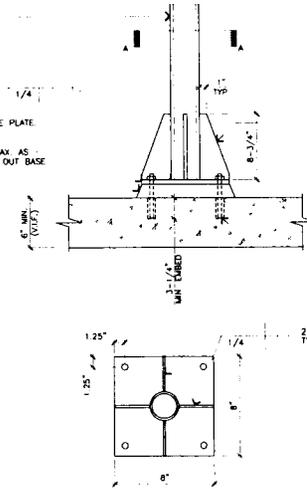


(N) 3" GALVANIZED STD. PIPE

(N) 6"X8"X3/8" BASE PLATE

(N) 1" DRY PACK MAX. AS REQUIRED TO LEVEL OUT BASE

(N) 1/4" PLATE STIFFENER, (4) TOTAL



(N) (4) MULTI KWIK BOLT T2 CARBON STEEL SIZE: 1/2" MIN-ESR 1917. SPECIAL INSPECTION REQUIRED. KLEINWELDER (805) 320-2000

SECTION A-A

ALL STEEL TO BE GALVANIZED.

H-FRAME UTILITY RACK

SCALE:
NONE

5

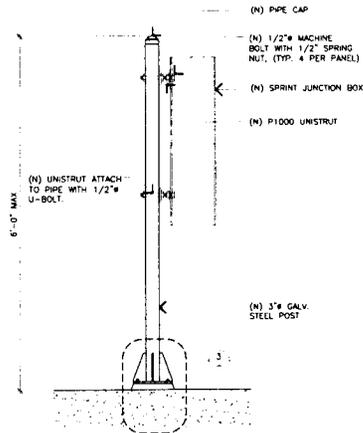
BASE PLATE DETAIL

SCALE:
NONE

3

NOT USED

2



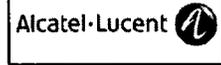
H-FRAME MOUNT

SCALE:
NONE

4

NOT USED

1



JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 2500
Hesperia Beach, California 92340
Phone: (949) 740-3829
Fax: (949) 740-3831

PROJECT INFORMATION:
NETWORK VISION
MMBTS LAUNCH
SINGING HILLS (7
RESERVOIR (7 0)
SD34XC555
2580 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:
01/24/13

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REVISIONS				
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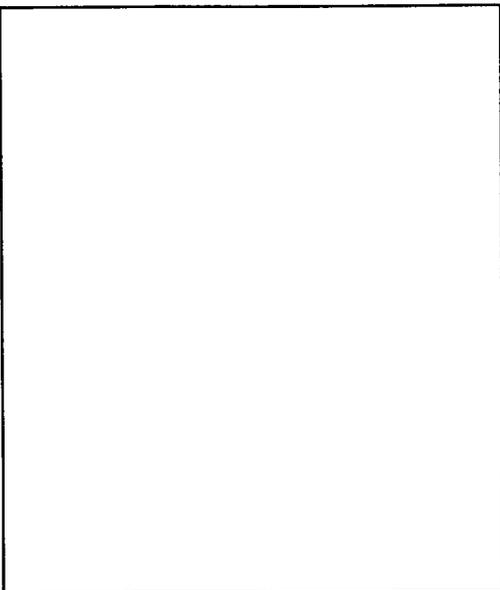
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SHEET TITLE:
EQUIPMENT DETAILS

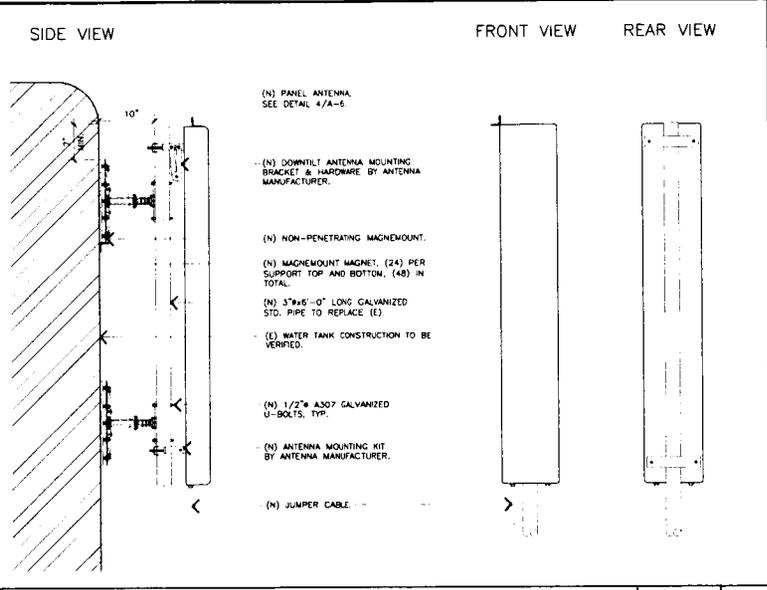
SHEET NUMBER: A-5.1
REVISION: 2

JRA - JOB NUMBER: 11-0313



1900 APXVSP18-C-A20

ANTENNA COLOR: LIGHT GREY RAL7035
 DIMENSIONS, HxWxD: 72" x 11.8" x 7"
 WEIGHT: 57 LBS
 CONNECTOR: (6) 7/16 DIN FEMALE



SIDE VIEW

FRONT VIEW

REAR VIEW

(N) PANEL ANTENNA
 SEE DETAIL 4/A-6

(N) DOWNTILT ANTENNA MOUNTING
 BRACKET & HARDWARE BY ANTENNA
 MANUFACTURER.

(N) NON-PENETRATING MAGMOUNT.

(N) MAGMOUNT MAGNET, (24) PER
 SUPPORT TOP AND BOTTOM, (48) IN
 TOTAL.

(N) 5"x6"-0" LONG GALVANIZED
 STD. PIPE TO REPLACE (E).

(E) WATER TANK CONSTRUCTION TO BE
 VERIFIED.

(N) 1/2" A307 GALVANIZED
 U-BOLTS, TYP.

(N) ANTENNA MOUNTING KIT
 BY ANTENNA MANUFACTURER.

(N) JUMPER CABLE

NOT USED

6

1900 NV ANTENNA

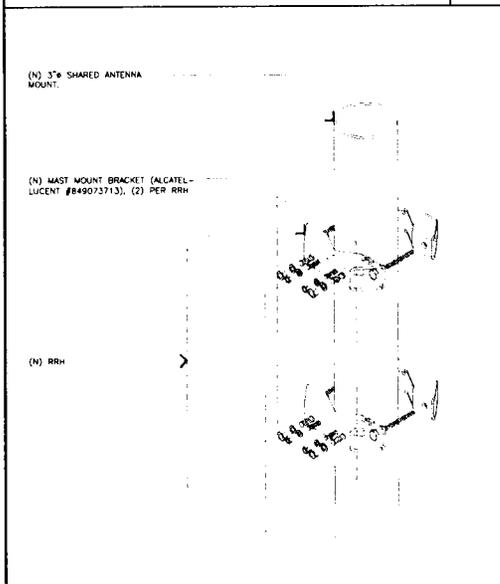
SCALE:
NONE

4

1900 NV ANTENNA MOUNT DETAIL

SCALE:
NONE

2



1900 NV RRH

MANUFACTURER: ALCATEL-LUCENT
 MODEL: 1900 NV, 4x45w
 WEIGHT: 60 LBS

TOP VIEW

SIDE VIEW

FRONT VIEW

REAR VIEW



SIDE VIEW

FRONT VIEW

(N) NON-PENETRATING MAGMOUNT

(N) 1/2" A307 GALVANIZED
 U-BOLTS, TYP.

(N) 1900 NV RRH;
 SEE DETAIL 3/A-6

(N) MOUNTING PIPE;
 SEE DETAIL 5/A-6

(N) MAGMOUNT MAGNET, (24) PER
 SUPPORT.

(N) JUMPER CABLE

TYPICAL RRH MOUNTING TO NEW PIPE MOUNT.

RRH MOUNTING DETAIL

SCALE:
NONE

5

1900 NV RRH

SCALE:
NONE

3

1900 NV RRH MOUNT DETAIL

SCALE:
NONE

1



PROJECT INFORMATION:
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 RESERVOIR (7 0)
 SD34XC555
 2568 PINCE DRIVE
 EL CAJON, CALIFORNIA 92019

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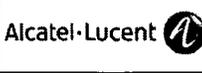
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SHEET TITLE:
EQUIPMENT DETAILS

SHEET NUMBER: A-6
 REVISION: 2

JRA JOB NUMBER: 1-0319



JRA
 Jeffrey Rome & Associates, Inc.
 Architecture & Telecommunications
 1 San Joaquin Plaza, Suite 2500
 Newport Beach, California 92660
 Phone: (949) 780-5829
 Fax: (949) 780-5831

PROJECT INFORMATION:
 NETWORK VISION
 MMBTS LAUNCH
**SINGING HILLS (7
 RESERVOIR (7 0)**
 SD34XC555
 2568 FENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
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ISSUED FOR:
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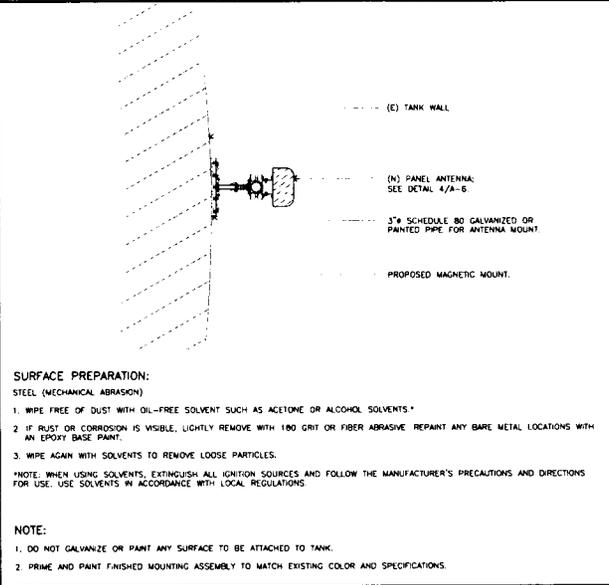
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2	01/24/13	100% FINAL CD'S	FR	

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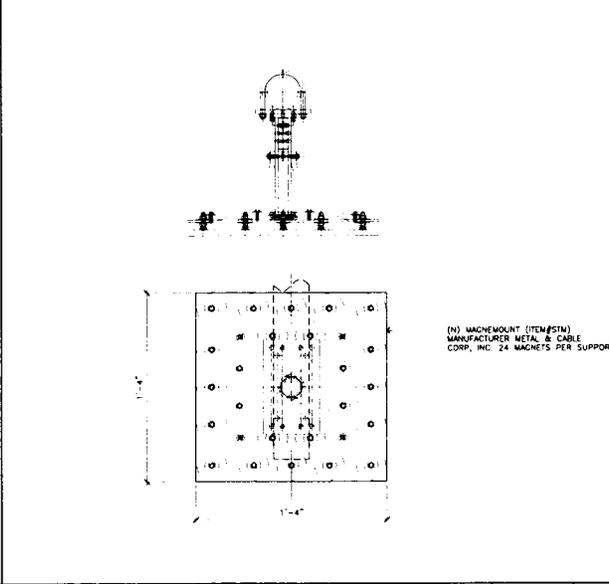


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EQUIPMENT DETAILS

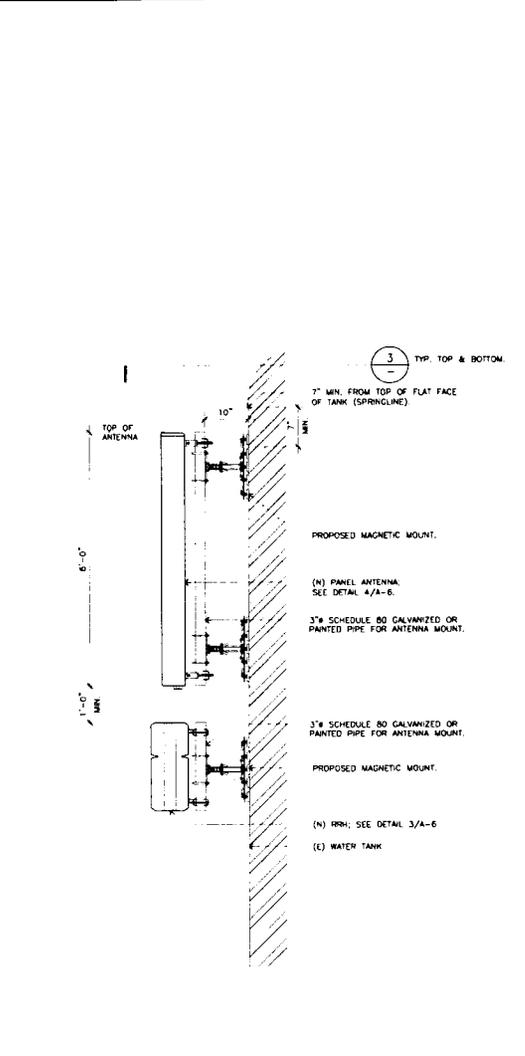
SHEET NUMBER: **A-6.1** REVISION: **2**



TANK ANTENNA DETAIL SCALE: NONE **3**



4 MAGNETIC MOUNTS SCALE: NONE **2**

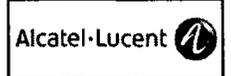
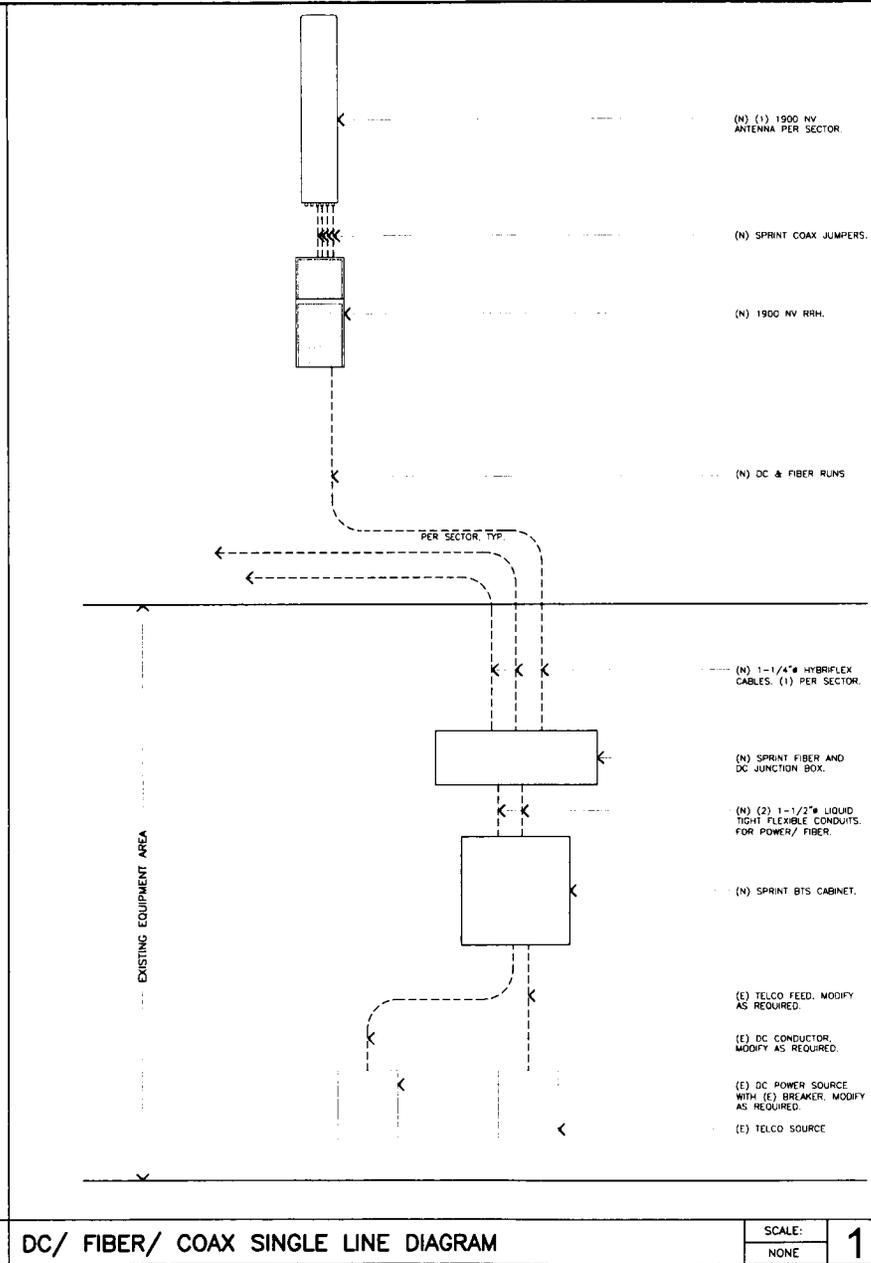
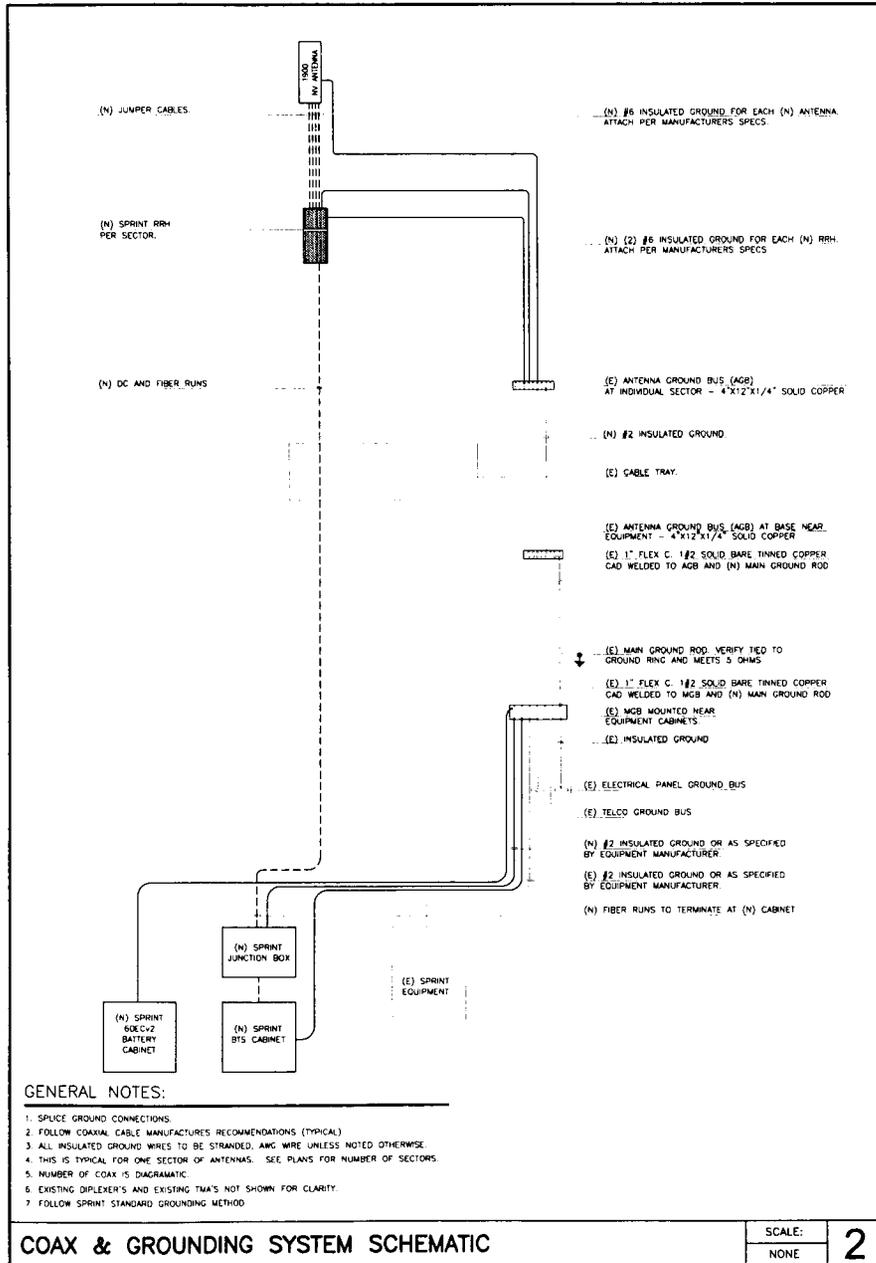


ANTENNA SECTION SCALE: NONE **1**

NOT USED

NOT USED SCALE: NONE **1**

JRA JOB NUMBER 1-0319



JRA
 Jeffrey Rome & Associates, Inc.
 Architecture & Telecommunications
 1 San Joaquin Plaza, Suite 230
 Newport Beach, California 92660
 Phone: (949) 780-3829
 Fax: (949) 780-3831

PROJECT INFORMATION

NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555

2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

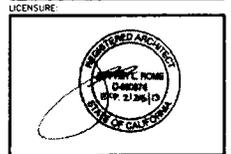
ISSUED DATE:
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SHEET TITLE
 GROUNDING SCHEMATICS

SHEET NUMBER: E-1
 REVISION: 2

COAX & GROUNDING SYSTEM SCHEMATIC

SCALE: NONE
 2

DC/ FIBER/ COAX SINGLE LINE DIAGRAM

SCALE: NONE
 1

PVA JOB NUMBER: 11019



1. Appendix A - Coaxial Cable Color Scheme

Leaf # Revision: 01/2013

All cables shall be marked at the top and bottom with 2 colored rings indicating color and ring width. The rings shall be 1/4" wide and 1/8" apart. The rings shall be marked with the following information: Cable ID number, Cable length, and Cable type. The marking shall be placed in the middle of the cable with 1/4" between each ring. The cable color code shall be applied as per the following table. The 2' cable color code requires no additional markings are needed to support the information number of colored rings to the cable color code.

Note: The cable color code as applied to the frequency color code. Table 1.2 shall be applied to the specific frequency band. The color coding shall be applied to the cable color code from the frequency color code. The 2' cable color code requires no additional markings are needed to support the information number of colored rings to the cable color code.

Examples of the application of the color and frequency color codes are shown in Figure 1.1 and 1.2. When 2' cables are a maximum of 3 tones, as shown in Figure 1.1, the color coding of the cable in the same 2' cable as a maximum of 3 tones. The color coding of the cable will be based on the color code to be used.



2. Appendix B - Hybrid Cable Color Scheme

Leaf # Revision: 01/2013

Table 1.1 - Coaxial Cable Color Code

Section	Cable	First Ring	Second Ring	Third Ring
1 Alpha	1	No Tape	No Tape	No Tape
	2	No Tape	No Tape	No Tape
	3	No Tape	No Tape	No Tape
	4	No Tape	No Tape	No Tape
	5	No Tape	No Tape	No Tape
	6	No Tape	No Tape	No Tape
	7	No Tape	No Tape	No Tape
	8	No Tape	No Tape	No Tape
	9	No Tape	No Tape	No Tape
	10	No Tape	No Tape	No Tape
	11	No Tape	No Tape	No Tape
	12	No Tape	No Tape	No Tape
	13	No Tape	No Tape	No Tape
	14	No Tape	No Tape	No Tape
	15	No Tape	No Tape	No Tape
	16	No Tape	No Tape	No Tape
	17	No Tape	No Tape	No Tape
	18	No Tape	No Tape	No Tape
	19	No Tape	No Tape	No Tape
	20	No Tape	No Tape	No Tape
	21	No Tape	No Tape	No Tape
	22	White	White	No Tape
	23	No Tape	No Tape	No Tape
	24	No Tape	No Tape	No Tape
	25	No Tape	No Tape	No Tape
	26	No Tape	No Tape	No Tape
	27	No Tape	No Tape	No Tape
	28	No Tape	No Tape	No Tape
	29	No Tape	No Tape	No Tape
	30	No Tape	No Tape	No Tape
	31	No Tape	No Tape	No Tape
	32	No Tape	No Tape	No Tape
	33	White	White	White
	34	No Tape	No Tape	No Tape
	35	No Tape	No Tape	No Tape
	36	No Tape	No Tape	No Tape
	37	No Tape	No Tape	No Tape
	38	No Tape	No Tape	No Tape
	39	No Tape	No Tape	No Tape
	40	No Tape	No Tape	No Tape



3. Appendix C - Hybrid Cable Color Scheme

Leaf # Revision: 01/2013

Table 1.2 - Frequency Color Code

Frequency	Color
700MHz	White
750MHz	White
800MHz	White
850MHz	White
900MHz	White
950MHz	White
1000MHz	White
1050MHz	White
1100MHz	White
1150MHz	White
1200MHz	White
1250MHz	White
1300MHz	White
1350MHz	White
1400MHz	White
1450MHz	White
1500MHz	White
1550MHz	White
1600MHz	White
1650MHz	White
1700MHz	White
1750MHz	White
1800MHz	White
1850MHz	White
1900MHz	White
1950MHz	White
2000MHz	White
2050MHz	White
2100MHz	White
2150MHz	White
2200MHz	White
2250MHz	White
2300MHz	White
2350MHz	White
2400MHz	White
2450MHz	White
2500MHz	White
2550MHz	White
2600MHz	White
2650MHz	White
2700MHz	White
2750MHz	White
2800MHz	White
2850MHz	White
2900MHz	White
2950MHz	White
3000MHz	White



Figure 1.1 - Coaxial Cable Color Scheme

Leaf # Revision: 01/2013

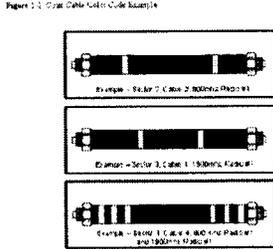
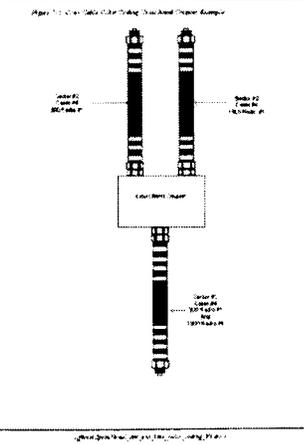


Figure 1.1 - Coaxial Cable Color Coding - Two Band Channel Example

Leaf # Revision: 01/2013



2. Appendix B - Hybrid Cable Color Scheme

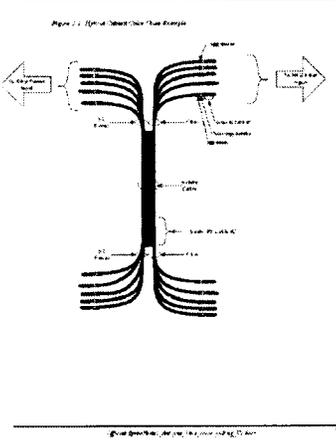
Leaf # Revision: 01/2013

Hybrid cables will be marked with a color code at the top and bottom of the cable. The color code will be marked with the following information: Cable ID number, Cable length, and Cable type. The marking shall be placed in the middle of the cable with 1/4" between each ring. The cable color code shall be applied as per the following table. The 2' cable color code requires no additional markings are needed to support the information number of colored rings to the cable color code.



Figure 1.2 - Hybrid Cable Color Coding Example

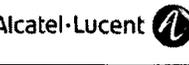
Leaf # Revision: 01/2013



3. Appendix C - Hybrid Cable Color Scheme

Leaf # Revision: 01/2013

Hybrid cables will be marked with a color code at the top and bottom of the cable. The color code will be marked with the following information: Cable ID number, Cable length, and Cable type. The marking shall be placed in the middle of the cable with 1/4" between each ring. The cable color code shall be applied as per the following table. The 2' cable color code requires no additional markings are needed to support the information number of colored rings to the cable color code.



JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 2000
Hempden Beach, California 92840
Phone: (949) 780-3928
Fax: (949) 780-3931

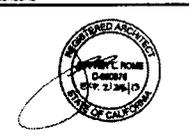
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MMBTS LAUNCH
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SHEET TITLE: ANTENNA LINE COLOR CODING

SHEET NUMBER: E-2 REVISION: 2

ANTENNA LINE COLOR CODE

JRA JOB NUMBER: 110219

GENERAL ELECTRICAL NOTES

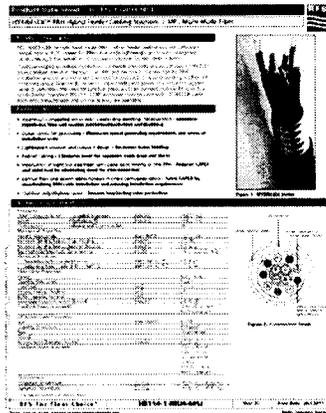
1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL LOCAL AND STATE CODE, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
2. CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY FOR REQUIREMENTS OF POWER SERVICE LINE TO THE METER BASE. POWER SERVICE REQUIREMENT IS COMMERCIAL AC NOMINAL 120/208 VOLT OR 120/240 VOLT, SINGLE PHASE WITH 200 AMP RATING.
3. CONTRACTOR SHALL COORDINATE WITH LOCAL TELEPHONE COMPANY FOR REQUIREMENTS OF "T1" SERVICE LINE TO TERMINATE AT THE PPC CABINET.
4. UNDERGROUND POWER AND TELCO SERVICE LINES SHALL BE ROUTED IN A COMMON TRENCH. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 AND CONDUIT EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL UNLESS OTHERWISE INDICATED.
5. ALL TELCO CONDUIT LINES SHALL BE 4" SCH. 40 PVC CONDUIT UNLESS OTHERWISE INDICATED. THE TELCO CONDUIT FROM THE PPC SHALL BE ROUTED AND TERMINATED AT DESIGNATED TELCO DEMARCATION OR 2'-FEET OUTSIDE FENCED AREA, NEAR UTILITY POLE (IN FENCED AREA), OR END CAP OFF AND PROVIDE MARKER STAKE PAINTED BRIGHT ORANGE WITH DESIGNATION FOR TELCO SERVICE.
6. CONDUITS INSTALLED AT PCS EQUIPMENT ENDS PRIOR TO THE EQUIPMENT INSTALLATION SHALL BE SUBBED AND CAPPED AT 6" ABOVE GRADE OR PLATFORM. IF SERVICE LINES CAN'T BE INSTALLED INITIALLY, PROVIDE NYLON PULL CORD IN CONDUITS.
7. THE SPRINT CABINET, INCLUDING 200 AMP LOAD PANEL AND TELCO PANEL, SHALL BE PROVIDED BY OWNER AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS TO INSTALL BREAKER(S) NOT PROVIDED BY MANUFACTURER. SEE PANEL SCHEDULE ON THIS SHEET FOR BREAKER REQUIREMENTS.
8. LOCATION OF ELECTRIC METER AND DISCONNECT SWITCH TO BE COORDINATED BY ELECTRICAL CONTRACTOR AND FIELD CONSTRUCTION MANAGER.
9. #2 WIRE TO BE UTILIZED IN ELECTRIC SERVICE RUNS EXCEEDING 100'.
10. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION. NOT AFTER THE CONTRACT HAS BEEN AWARDED.
11. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH-IN.
12. THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.
13. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.
14. ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
15. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUNDING BUSHINGS.
16. ALL WIRE SHALL BE TYPE THWN, SOLID, ANNEALED COPPER UP TO SIZE #10 AWG (#8 AND LARGER SHALL BE CONCENTRIC STRANDED) 75 DEGREE C, (157 DEGREE F), 98% CONDUCTIVITY, MINIMUM #12.
17. ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS, ACTION CRAFT, BRADY, OR APPROVED EQUAL.
18. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
19. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION TO CONFLICTS, VERIFY WITH MECHANICAL CONTRACTOR AND COMPLY AS REQUIRED.
20. ALL PANEL DIRECTORIES SHALL BE TYPED/WRITTEN NOT HAND WRITTEN.
21. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.
22. THE CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS, DOCUMENT ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. SUBMIT AT SUBSTANTIAL COMPLETION.
23. ALL DISCONNECT SWITCHES AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM (NO EXCEPTIONS).
24. ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL COMPLY WITH (ACA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE APPLICABLE STATE.
25. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT CONSTRUCTION MANAGERS APPROVAL. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.
26. ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUIT AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT CHARACTERISTICS MAY VARY FROM DESIGN AS SHOWN ON THESE DRAWINGS).
27. LOCATION OF ALL OUTLET, BOXES, ETC., AND THE TYPE OF CONNECTION (PLUG OR DIRECT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
28. SPLIT BREAKERS SHALL BE USED ON 120V LOADS IN THE EVENT THAT ADDITIONAL CIRCUIT SPACE IS REQUIRED FOR PROPOSED EQUIPMENT.
29. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENT ON DETAIL 2/E-1 REFLECTS MIGRATION PERIOD CIRCUMSTANCES. REFER TO DETAIL 1/E-1 FOR POST-MIGRATION PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENT IN WHICH EXISTING LEGACY EQUIPMENT HAS BEEN REMOVED.

ELECTRICAL NOTES

4

NOT USED

2

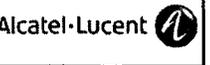


HYBRIFLEX 1 1/4"Ø SPECS

3

NOT USED

1



PROJECT INFORMATION:
 NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555
 2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
 01/24/13

ISSUED FOR:
 100% FINAL CD'S

REVISIONS

REV.	DATE	DESCRIPTION	INT.
0	05/12/12	90% CD'S REVIEW	FR
1	11/26/12	100% CD'S REVIEW	FR
2	01/24/13	100% FINAL CD'S	FR

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
 HYBRIFLEX SPECIFICATIONS
 AND ELECTRICAL NOTES

SHEET NUMBER: E-3
REVISION: 2

Sprint

Alcatel-Lucent

JRA

Jeffrey Rome & Associates, Inc.

Architecture & Telecommunications
 1 San Jacquin Plaza, Suite 2300
 Newport Beach, California 92660
 Phone: (949) 780-3329
 Fax: (949) 780-3831

PROJECT INFORMATION:

NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555

2588 PINCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:

01/24/13

ISSUED FOR:

100% FINAL CD'S

REVISIONS

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2	01/24/13	100% FINAL CD'S	FR

NOT FOR CONSTRUCTION UNLESS
 LABELED AS CONSTRUCTION SET

LICENSEURE:



SHEET TITLE:

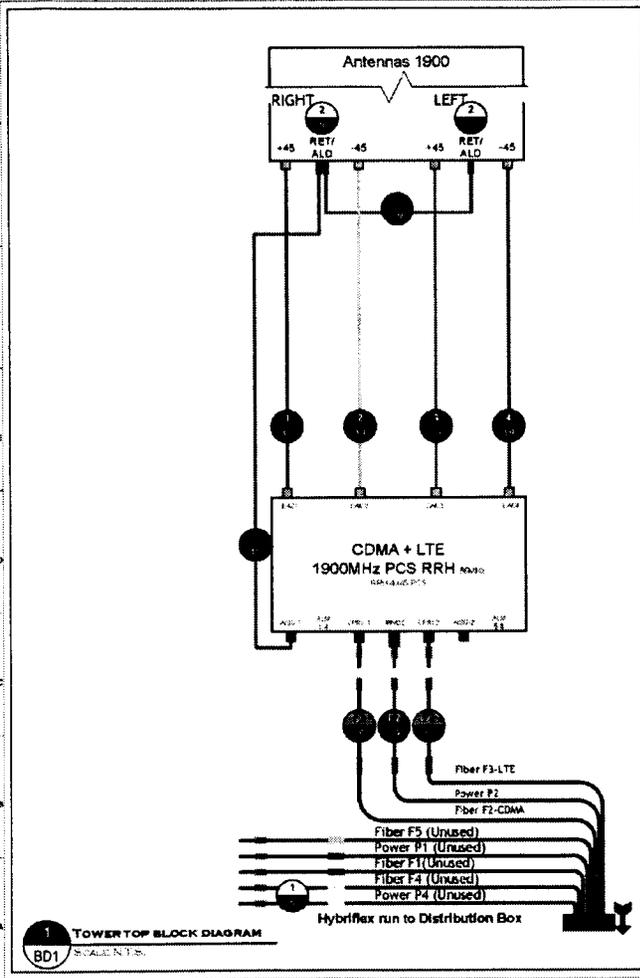
DETAILS

SHEET NUMBER:

D-1

REVISION:

2



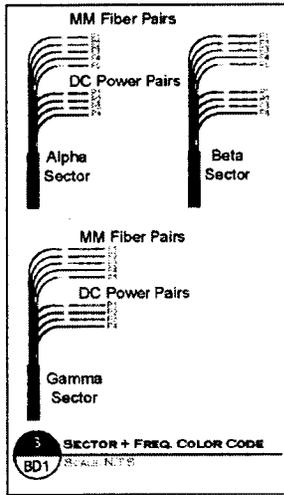
Power Feed Polarity Definition:
 IF wires are BLACK AND BLACK/
 WHITE STRIPE:
 ■ Black= -48VDC Feed (Battery)
 ■ Black/White Stripe= Return

IF wires are RED AND BLACK:
 ■ Red= -48VDC Feed (Battery)
 ■ Black= Return

NOTE: For power feed use the same Hybriflex OEM color designator as the fiber.

■ MM Pair 1= F1= Green= P1(Green)
 ■ MM Pair 2= F2= Blue= P2(Blue)
 ■ MM Pair 3= F3= Red= P3(Red)
 ■ MM Pair 4= F4= Yellow= P4(Yellow)
 ■ MM Pair 5= F5= Orange= (No P5 power feed)

2 HYBRIFLEX OEM COLOR CODE
 BD1 SCALE N.T.S.



J. STEVE WALSON
 SYSTEMS ENGINEER/PROJECT MANAGER
 PH: (949) 264-6222/7

Sprint
 NETWORK VISION
 Alcatel-Lucent



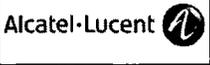
BACK TO TITLE SHEET

SCENARIO 130_V1.7.V08

SHEET DESCRIPTION
 TOWER TOP BLOCK DIAGRAM

SHEET NUMBER
 BD1

TOWER TOP BLOCK DIAGRAM



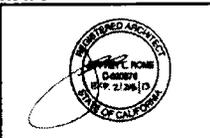
PROJECT INFORMATION:
 NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555
 2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
 01/24/13

ISSUED FOR:
 100% FINAL CD'S

REVISIONS				
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SHEET TITLE:
 DETAILS

SHEET NUMBER: D-2
 REVISION: 2

J. STEVE WILSON
 STEVE.WILSON@NCSTECH.NET
 PH: 912246C227

Sprint
 NETWORK VISION
 Alcatel-Lucent

COAX
 POWER
 NOTES

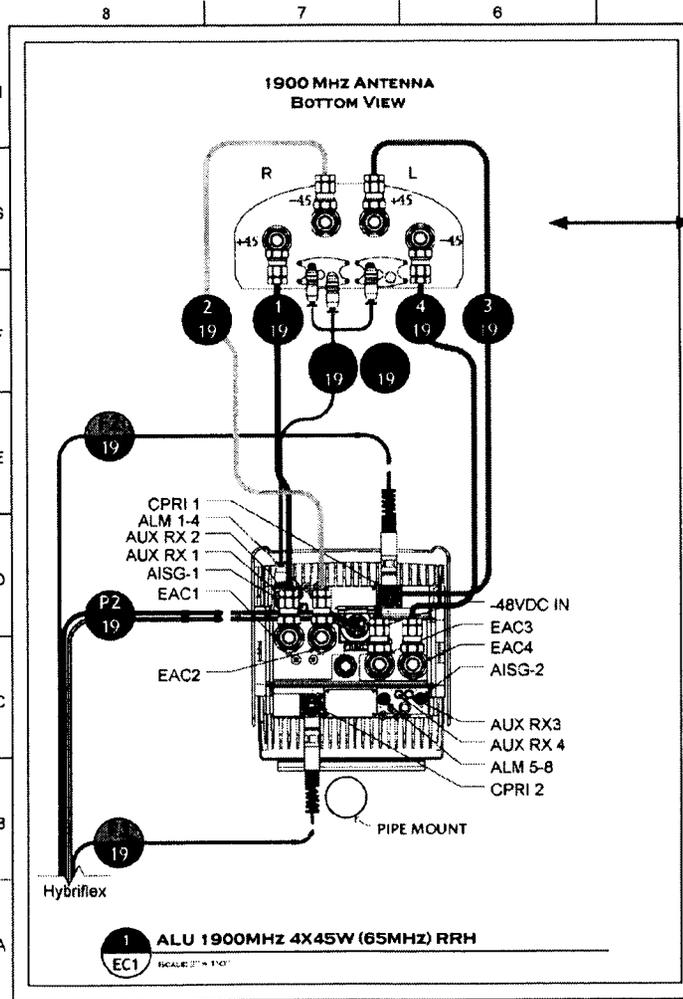
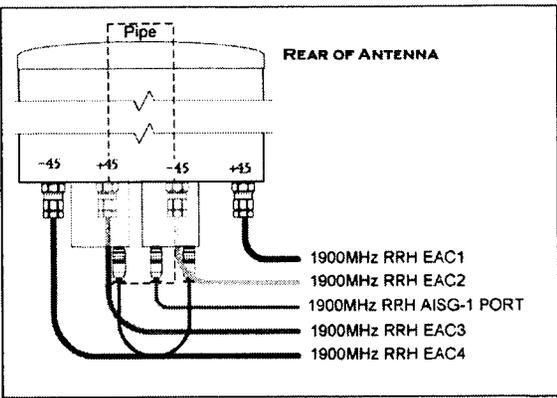
DIAGRAM LEGEND
 SCALE: N.T.S.

BACK TO TITLE SHEET

SCENARIO
 130_V1.7.v8d

SHEET DESCRIPTION
 1900MHZ TOWER MOUNTED
 RRH CONNECTIONS

SHEET NUMBER
 EC1



1900 NV TOWER MOUNTED RRH CONNECTIONS



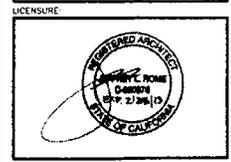
JRA
 Jeffrey Rome & Associates, Inc.
 Architecture & Telecommunications
 1 San Joaquin Plaza, Suite 230
 Newport Beach, California 92660
 Phone: (949) 780-3929
 Fax: (949) 780-3931

PROJECT INFORMATION:
 NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555
 2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
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 100% FINAL CD'S

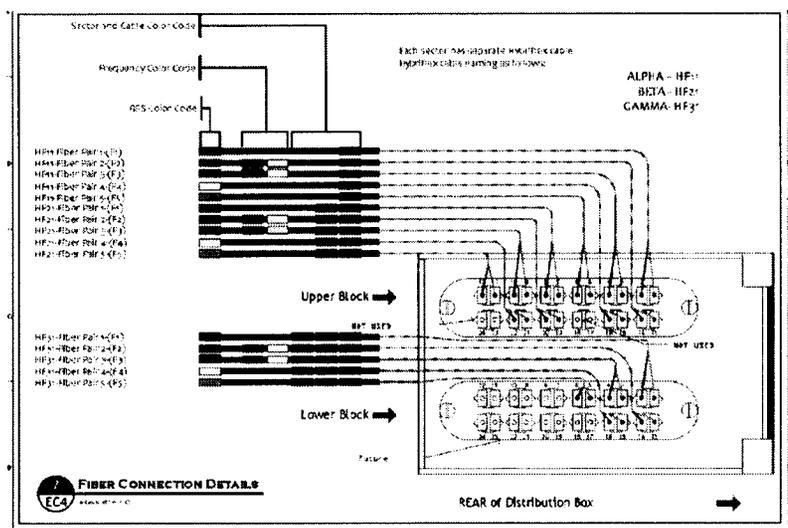
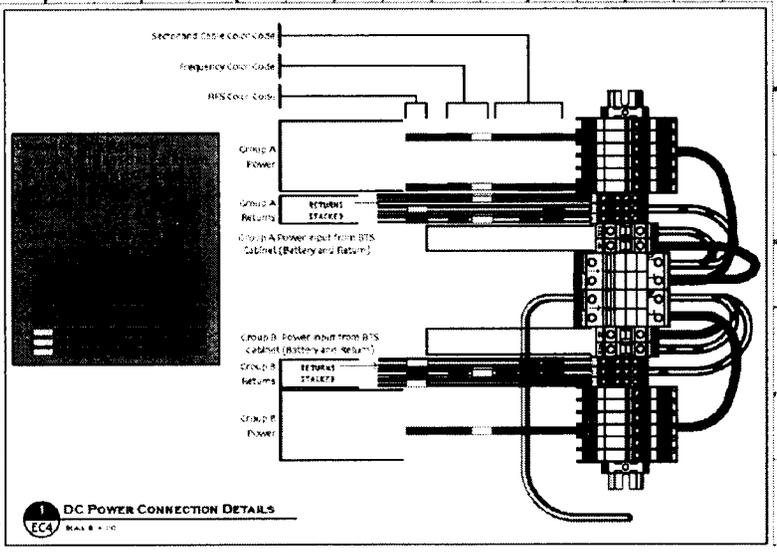
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SHEET TITLE:
DETAILS

SHEET NUMBER: **D-3** REVISION: **2**



Sprint

Alcatel-Lucent

JRA

Jeffrey Roma & Associates, Inc.

Architecture & Telecommunications
1 San Joaquin Plaza, Suite 1300
Newport Beach, California 92660
Phone: (949) 760-3828
Fax: (949) 760-3831

PROJECT INFORMATION:

NETWORK VISION
MMBTS LAUNCH

SINGING HILLS (7
RESERVOIR (7 0)

SD34XC555

2568 FENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:

01/24/13

ISSUED FOR:

100% FINAL CD'S

REVISIONS

REV	DATE	DESCRIPTION	INT
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2	01/24/13	100% FINAL CD'S	FR

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LICENSEURE



SHEET TITLE:

DETAILS

SHEET NUMBER

REVISION:

D-4

2

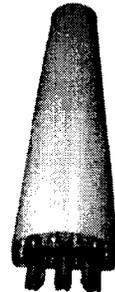
Product Data Sheet APXV5PP18-C

RFS

Triple Band Dual Polarized Antenna, 806-1995, 65deg, 16-18dBi, 1.8m, VET, 0-10deg, 0.5m AISG Cable

Product Description

This antenna is an ideal choice for dual band site upgrade for high traffic areas. It features 4 ports in 1900 MHz and 2 ports in 800 MHz.



Features/Benefits

- Variable electrical downtilt – provides enhanced precision in controlling intercell interference. The tilt is in-field adjustable 0-10 deg.
- High suppression of all upper sidelobes (Typically < 18 dB)
- Independent control of electrical downtilt for 800 and PCS bands
- Low profile for low visual impact
- Quick and easy to adjust
- High front-to-back ratio
- AISG compatible remote tilt available – Add suffix -A20 to the model number

Technical Specifications

Electrical Specifications	806-809	1903-1991	1850-1995
Frequency Range, MHz	806-809	1903-1991	1850-1995
Horizontal Beamwidth, deg	65	65	65
Vertical Beamwidth, deg	11.5	6.5	6.5
Electrical Downtilt, deg	0-10	0-10	0-10
Gain, dBi (typ)	15.5 (13.4 d)	18.0 (15.7)	18.0 (15.7)
1st Upper Side-lobe Suppression, dB typ. @ 10° & 15°	>18	>18	>18
Front-to-Back Ratio, dB @ 180° & 15°	>20	>20	>20
Isolation	Dual CS, >40dB		
Return Loss, dB	>12		
Isolation between Ports, dB	>20		
3rd Order IMD @ 2.43 MHz @ 7 min. duration	>110		
Carrier Power Discrimination (CPD) @ 48 dB	>25		
Group Delay Discrimination (GDD) @ 50 dB	>11		
MEM Separation rate (band ports)	>5		
Impedance, Ohms	50		
Maximum Power Input, W	250		
Lightning Protection	Direct Ground		
Connectors Type	50 Ohm SMA Female		

Mechanical Specifications

Dimensions - HxWxD, mm (in)	1829 x 302 x 178 (72.8 x 11.8 x 7)
Wind Load, kg/m ² (lb/ft ²)	21.8 (15.2)
Rated Wind Speed, km/h (mph)	127 (79)
Roaming Mode, d	A-F
Porting Mode	Light (0.5m AISG) / Heavy (0.6m AISG)
Mounting Hardware Material	Die-cast Aluminum and Carbon Steel

Ordering Information

Mounting Hardware	479440-1, Downright Kit
AISG System Cable	0.5 m, included
Electrical Test Equipment (meters)	621, 622, 623, 624, 625
Mounting Hardware (single) (kg lbs)	1.1 (2.5)

RFS The Clear Choice®

APXV5PP18-C

Rev: P5

Print Date: 2.11.2011

Please visit us on the internet at <http://www.rfsworld.com>

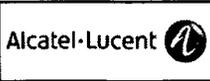
Radio Frequency Systems

ANTENNA SPECIFICATIONS

1

JPA JOB NUMBER: 11-0319

Market San Diego		San Diego		
Cascade ID		SD34XC555		
		SECTOR 1	SECTOR 2	SECTOR 3
Split sector present		No	No	No
1900MHz_Azimuth		0	90	280
1900MHz_No_of_Antennas		1	1	1
1900MHz_RADCenter(ft)		24.1	32.1	32.1
1900MHz_Antenna_Make		RFS	RFS	RFS
1900MHz_Antenna_Model		APXVSP18-C-A20	APXVSP18-C-A20	APXVSP18-C-A20
1900MHz_Horizontal_Beamwidth		65	65	65
1900MHz_Vertical_Beamwidth		5.5	5.5	5.5
1900MHz_AntennaHeight(ft)		6	6	6
1900MHz_AntennaGain(dBd)		15.9	15.9	15.9
1900MHz_E_Tilt		0	0	-4
1900MHz_M_Tilt		0	0	0
1900MHz_Carrier_Forecast_Year_2013		2	2	2
1900MHz_RRH_Manufacturer		ALU	ALU	ALU
1900MHz_RRH_Model		RRH 1900 4x45 65MHz	RRH 1900 4x45 65MHz	RRH 1900 4x45 65MHz
1900MHz_RRH_Count		1	1	1
1900MHz_RRH_Location		Top of the Pole/Tower	Top of the Pole/Tower	Top of the Pole/Tower
1900MHz_Combiner_Model		No Combiner Required	No Combiner Required	No Combiner Required
1900MHz_Top_Jumper #1_Length (RRH or Combiner-to-Antenna for TT or Main Coax to)		10	10	10
1900MHz_Top_Jumper #1_Cable_Model (RRH or Combiner-to-Antenna for TT or Main)		LCF12-50J	LCF12-50J	LCF12-50J
1900MHz_Top_Jumper #2_Length (RRH to Combiner for TT if applicable, ft)		N/A	N/A	N/A
1900MHz_Top_Jumper #2_Cable_Model (RRH to Combiner for TT if applicable)		N/A	N/A	N/A
1900MHz_Main_Coax_Cable_Length (ft)		N/A	N/A	N/A
1900MHz_Main_Coax_Cable_Model		N/A	N/A	N/A
1900MHz_Bottom_Jumper #1_Length (Ground based RRH to Combiner-OR-Main Coax, ft)		N/A	N/A	N/A
1900MHz_Bottom_Jumper #1_Cable_Model (Ground based RRH to Combiner-OR-Main)		N/A	N/A	N/A
1900MHz_Bottom_Jumper #2_Length (Ground based-Combiner to Main Coax, ft)		N/A	N/A	N/A
1900MHz_Bottom_Jumper #2_Cable_Model (Ground based-Combiner to Main Coax)		N/A	N/A	N/A
800MHz_Azimuth		N/A	N/A	N/A
800MHz_No_of_Antennas		0	0	0
800MHz_RADCenter(ft)		N/A	N/A	N/A
800MHz_AntennaMake		N/A	N/A	N/A
800MHz_Antenna_Model		N/A	N/A	N/A
800MHz_Horizontal_Beamwidth		N/A	N/A	N/A
800MHz_Vertical_Beamwidth		N/A	N/A	N/A
800MHz_AntennaHeight (ft)		N/A	N/A	N/A
800MHz_AntennaGain (dBd)		N/A	N/A	N/A
800MHz_E_Tilt		N/A	N/A	N/A
800MHz_M_Tilt		N/A	N/A	N/A
800MHz_RRH_Manufacturer		N/A	N/A	N/A
800MHz_RRH_Model		N/A	N/A	N/A
800MHz_RRH_Count		0	0	0
800MHz_RRH_Location		N/A	N/A	N/A
800MHz_Top_Jumper #1_Length (RRH to Antenna for TT or Main Coax to Antenna for GW)		N/A	N/A	N/A
800MHz_Top_Jumper #1_Cable_Model (RRH to Antenna for TT or Main Coax to Antenna for GW)		N/A	N/A	N/A
800MHz_Main_Coax_Cable_Length (ft)		N/A	N/A	N/A
800MHz_Main_Coax_Cable_Model		N/A	N/A	N/A
800MHz_Bottom_Jumper #1_Length (Ground based RRH to Main Coax)		N/A	N/A	N/A
800MHz_Bottom_Jumper #1_Cable_Model (Ground based RRH to Main Coax)		N/A	N/A	N/A
Plumbing Scenario		130	130	130
Comments	* If plumbing scenario does not match the material received, please contact your Construction Manager			
	11/9/2012			



PROJECT INFORMATION:
 NETWORK VISION
 MMBTS LAUNCH
 SINGING HILLS (7
 RESERVOIR (7 0)
 SD34XC555
 2558 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:
 01/24/13

ISSUED FOR:
 100% FINAL CD'S

REVISIONS			
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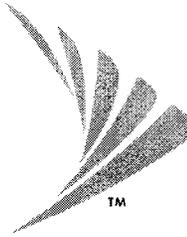
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 LABELED AS CONSTRUCTION SET



SHEET TITLE:
 DETAILS

SHEET NUMBER: D-5
 REVISION: 2

Sprint®



SAN DIEGO MARKET

SITE NUMBER: **SD34XC555**
 SITE NAME: **SINGING HILLS RESERVOIR**
 SITE TYPE: **OUTDOOR**

CITY: **EL CAJON**
 COUNTY: **SAN DIEGO**
 REFERENCE: **TBD**

APPLICANT:
 SPRINT PCS
 SAN DIEGO, CALIFORNIA

SITE INFORMATION:
 2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019
 LATITUDE: 32.773486
 LONGITUDE: -116.88135

PARCEL NUMBERS:
 315-051-07

PROPERTY OWNER:
 OTAY WATER DISTRICT
 2254 SWEETWATER SPRINGS BOULEVARD
 SPRING VALLEY, CA 91978
 CONTACT: MARY SARTON
 PHONE: (619) 670-2269

PROJECT DESCRIPTION:
 FIBER UPGRADE WITH AT&T BACKHAUL
 INSTALLATION TO EXISTING SPRINT
 WIRELESS TELECOMMUNICATIONS CELL SITE

ZONING CLASSIFICATION: CN-1
 CONSTRUCTION TYPE: TBD
 CURRENT OCCUPANCY: TBD

ACCESS:

GENERAL ACCESS: NEED TO PASS THROUGH 4 GATES AND ALL COMBOS ARE 9127

AVL HOP / FIBER PATH:

THE HOP WILL BE THE EXISTING PEDESTAL LOCATED 400' FROM (E) SPRINT LEASE AREA AT&T TO PLACE FIBER FROM EXISTING PEDESTAL THROUGH (E) TELCO CONDUIT TO (E) TELCO CABINET TO (N) FBT JUNCTION BOX LOCATED INSIDE (E) SPRINT LEASE AREA.

INNERDUCT:

SPRINT GC TO RUN AND PLACE APPROXIMATELY 80'± OF 1-1/4" INNERDUCT WITH NULE TAPE FROM (E) PEDESTAL THROUGH (E) TELCO CONDUIT TO (E) TELCO CABINET TO (N) FBT JUNCTION BOX LOCATED IN (E) SPRINT LEASE AREA.

FBT LOCATION:

SPRINT GC TO INSTALL (N) FBT EQUIPMENT IN (N) 24"x24"x48" NEMA 3R RATED JUNCTION BOX WITH PLYWOOD BACKBOARD AND GROUND BAR WITH #6 SOLID GREEN GROUND WIRE (5' COIL) PROVIDED BY AT&T.

EQUIPMENT:

SPRINT TO WALL MOUNT AT&T PROVIDED UAM/CIENA EQUIPMENT USING (N) UNISTRUT (SEE PHOTOS FOR LOCATION).

POWER:

SPRINT GC TO PROVIDE AND INSTALL (1) 3" EMT CONDUIT FROM THE (E) MM-BTS CABINET TO (N) UAM/CIENA CABINET. (1) 20 AMP -48V DC CIRCUIT USING #12 AWG THIN STRANDED CONDUCTORS, APPROXIMATELY 15'-0" CONDUIT RUN.

GROUNDING:

SPRINT GC TO PROVIDE AND INSTALL (N) (2) 1/2" DIA. EMT CONDUITS WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN FROM (E) GROUND BAR LOCATED INSIDE EXISTING TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN. RUN TO (N) AT&T UAM/CIENA AND (N) FBT JUNCTION BOX.

CUSTOMER FIBER PATH:

SPRINT GC TO PROVIDE AND INSTALL (1) 1" EMT CONDUIT FROM (N) UAM/CIENA CABINET TO SPRINT MM-BTS CABINET, APPROXIMATELY 15'-0" CONDUIT RUN.

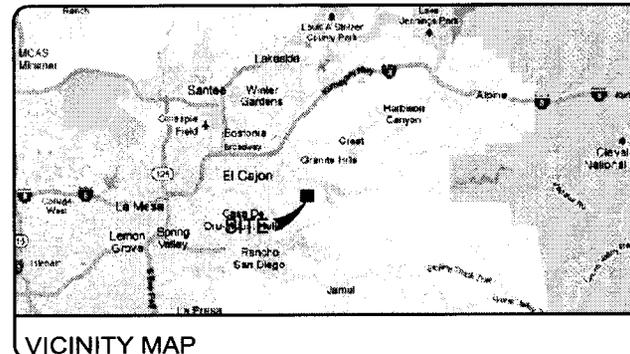
SCOPE OF WORK

CONTRACTOR & CREWS SHALL ABIDE BY SPRINT CONSTRUCTION STANDARDS/REQUIREMENTS AS DESCRIBED IN THE ALL SPRINT SAFETY HANDBOOK. OSHA REGULATIONS/STANDARDS SHALL BE REVIEWED & FOLLOWED BY ALL EQUIPMENT INSTALLERS & TOWER/ROOF TOP CONTRACTORS/SUBCONTRACTORS DURING CONSTRUCTION.

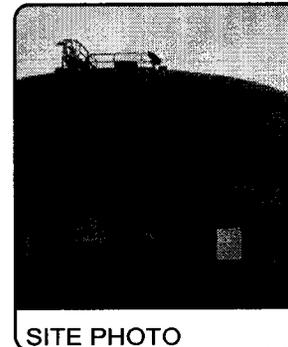
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE AND ACCEPTED UNDER THIS CONTRACT, UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE BY THE CONTRACTOR TO MAINTAIN THE ROOFING IN A WATER-TIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.

THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL THINGS DURING THE CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT AND MAKE FINAL PAYMENT FOR SAID DOCUMENT.



VICINITY MAP



SITE PHOTO

FROM THE ALU OFFICES AT: 9605 SCRANTON ROAD, SAN DIEGO, CALIFORNIA 92121

- HEAD SOUTH ON SCRANTON ROAD TOWARD MIRA SORRENTO PLACE (0.3 MILES)
- TURN RIGHT ONTO MIRA MESA BOULEVARD (0.2 MILES)
- CONTINUE ONTO SORRENTO VALLEY ROAD (0.1 MILE)
- TAKE THE RAMP ONTO I-805 SOUTH (9.4 MILES)
- TAKE EXIT 17B TO MERGE ONTO I-8 EAST TOWARD EL CENTRO (1.2 MILES)
- TAKE EXIT 19 FOR 2ND STREET (0.2 MILES)
- TURN RIGHT ONTO NORTH 2ND STREET (0.5 MILES)
- CONTINUE ONTO JAMACHA ROAD (0.7 MILES)
- TURN LEFT ONTO EAST WASHINGTON AVENUE (0.6 MILES)
- CONTINUE ONTO DEHESA ROAD (0.7 MILES)
- TURN RIGHT ONTO VISTA GRANDE ROAD (0.5 MILES)
- TAKE THE 2ND LEFT ONTO CANTA LOMAS (0.2 MILES)
- TURN RIGHT ONTO PENCE DRIVE (0.5 MILES)
- ARRIVE AT 2568 PENCE DRIVE

DRIVING DIRECTIONS

PROJECT SUMMARY

CLIENT:
 SPRINT PCS
 SAN DIEGO, CALIFORNIA

FIBER VENDOR:
 CONTACT: BLAKE STATION
 PH: (858) 586-1508

DESIGN CONSULTANT:
 ALCATEL-LUCENT
 CONTACT: TOM TANKLE
 PH: (760) 809-1140

PROJECT ARCHITECT:
 JEFFREY ROME & ASSOCIATES
 1 SAN JOAQUIN PLAZA
 NEWPORT BEACH, CALIFORNIA 92660
 CONTACT: JEFFREY ROME
 PHONE: (949) 780-3029
 EMAIL: ALU@JROMEAL.COM

PROJECT TEAM

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	SITE PHOTOS
A-1	SITE PLAN
A-2	DETAILS

SHEET INDEX

GENERAL NOTES

Sprint

Alcatel-Lucent

JRA
 Jeffrey Rome & Associates, Inc.
 1 SAN JOAQUIN PLAZA
 NEWPORT BEACH, CALIFORNIA 92660
 PHONE: (949) 780-3029
 FAX: (949) 780-3029
 EMAIL: ALU@JROMEAL.COM

PROJECT INFORMATION:

ANTENNA MODIFICATION PROJECT

SINGING HILLS
 RESERVOIR
 SD34XC555

2568 PENCE DRIVE
 EL CAJON, CALIFORNIA 92019

ISSUED DATE:

04/27/12

ISSUED FOR:

100% ISSUED FOR
 CONSTRUCTION

REVISIONS		
REV.	DATE	DESCRIPTION
1	04/27/12	100% ISSUED FOR CONSTRUCTION

NOT FOR CONSTRUCTION UNLESS
 LABELED AS CONSTRUCTION SET

LICENSEURE:



SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

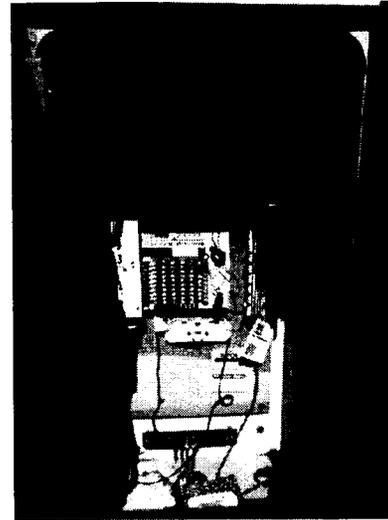
1



HOP/MEET POINT



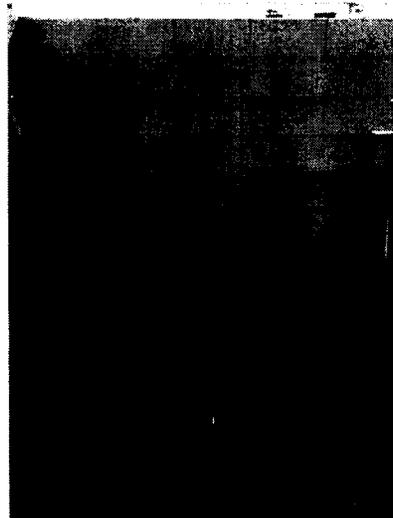
EXISTING EQUIPMENT AREA



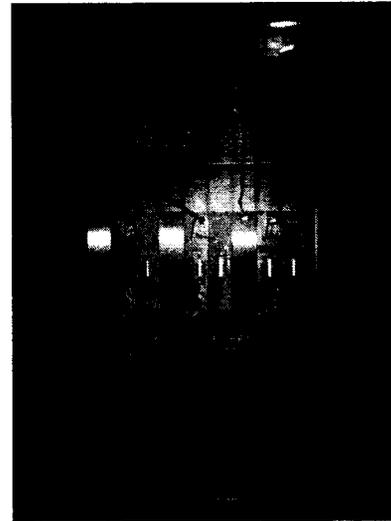
EXISTING TELCO BOX & MPOE



EXISTING GROUND BAR



PROPOSED CIENA BOX &
CONDUIT RUNS



EXISTING POWER CABINET



NEW CONDUIT ROUTING

Sprint

Alcatel-Lucent

JRA

Jeffrey Rome & Associates, Inc.

10000 Wilshire Blvd., Suite 1000
Beverly Hills, California 90210
(310) 206-8888
Fax: (310) 206-8811

PROJECT INFORMATION:

ANTENNA MODIFICATION PROJECT

SINGING HILLS
RESERVOIR
SD34XC555

2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:

04/27/12

ISSUED FOR:

100% ISSUED FOR
CONSTRUCTION

REVISIONS

REV.	DATE	DESCRIPTION	INT.
1	04/27/12	100% ISSUED FOR CONSTRUCTION	UC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

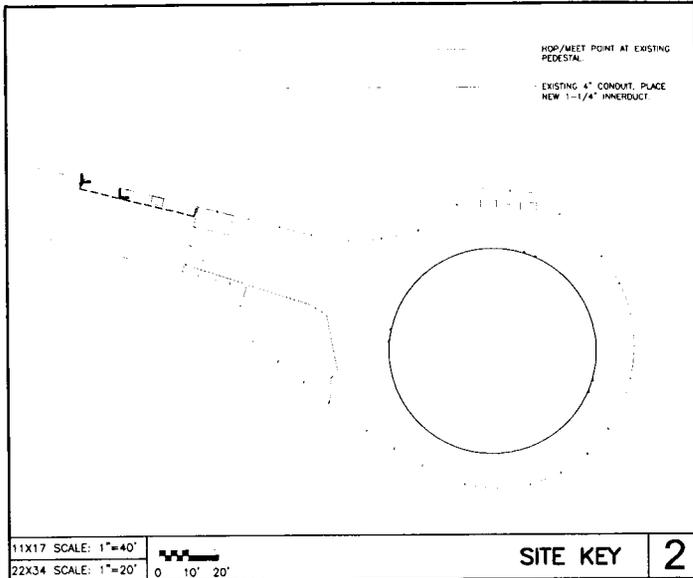
SITE PHOTOS
(AT&T)

SHEET NUMBER

REVISION:

T-2

1



SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FBT JUNCTION BOX TO (N) UAM/OENA CABINET, APPROXIMATELY 5'-0" CONDUIT RUN.

(E) AT&T 4" CONDUIT WITH SPRINT GC TO ROD AND PLACE (N) 1-1/4" INNERDUCT WITH MULE TAPE FROM EXISTING PEDESTAL, LOCATED ON WEST FROM (E) SPRINT LEASE AREA, APPROXIMATELY 60'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) (2) 3/8" DIA. EMT CONDUITS WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN FROM (E) GROUND BARS LOCATED INSIDE EXISTING TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN, RUN TO (N) AT&T UAM/OENA AND (N) FBT JUNCTION BOX.

SPRINT GC TO PROVIDE AND INSTALL (S) 3" EMT CONDUIT FROM THE (E) MM-BTS CABINET TO (N) UAM/OENA CABINET, (1) 20 AMP -85V DC CIRCUIT USING #12 AWG THHN STRANDED CONDUCTORS, APPROXIMATELY 15'-0" CONDUIT RUN.

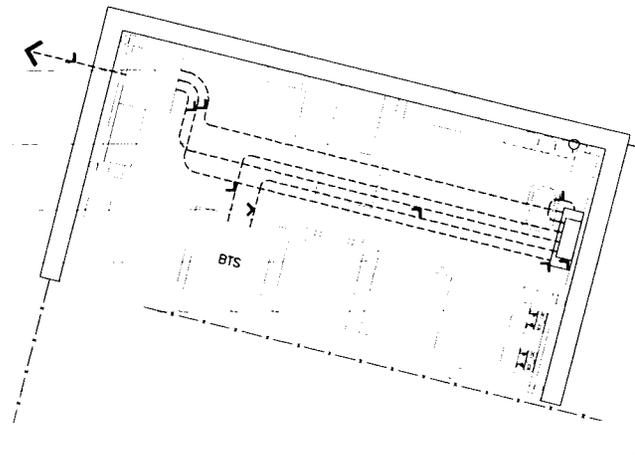
SPRINT GC TO PROVIDE AND INSTALL (N) 1" EMT CONDUIT FROM (N) AT&T UAM/OENA CABINET TO SPRINT'S MM-BTS CABINET, APPROXIMATELY 15'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FBT JUNCTION BOX TO (E) TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) 24"x24"x8" NEMA 3R JUNCTION BOX WITH 1/2" PLYWOOD AND GROUND BAR WITH SET SCREWS, PROVIDE 3'-0" COIL OF #6 AWG SOLID GREEN WIRE, (N) WALL MOUNTED UNISTRUT.

SPRINT GC TO INSTALL AT&T PROVIDED (N) UAM/OENA CABINET MOUNTED ON (N) UNISTRUT, SEE DETAIL 2/A-2.

GENERAL NOTES:
PAINT ALL CONDUITS MOUNTED ON GROUND YELLOW.



Sprint

Alcatel-Lucent

JRA

Jeffrey Rome & Associates, Inc.
1000 West 10th Street, Suite 200
San Jose, CA 95128
Phone: (408) 944-2222
Fax: (408) 944-2222

PROJECT INFORMATION

ANTENNA MODIFICATION PROJECT

SINGING HILLS RESERVOIR

SD34XC555

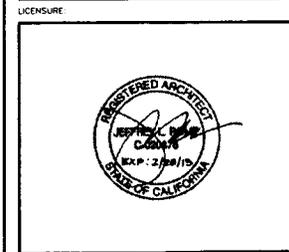
2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:
04/27/12

ISSUED FOR:
100% ISSUED FOR CONSTRUCTION

REVISIONS			
REV.	DATE	DESCRIPTION	INIT.
1	04/27/12	100% ISSUED FOR CONSTRUCTION	UC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
SITE PLAN

SHEET NUMBER: A-1
REVISION: 1



PROJECT INFORMATION:

ANTENNA MODIFICATION PROJECT

SINGING HILLS RESERVOIR
SD34XC555

2568 PENCE DRIVE
EL CAJON, CALIFORNIA 92019

ISSUED DATE:

04/27/12

ISSUED FOR:

100% ISSUED FOR CONSTRUCTION

REVISIONS

REV	DATE	DESCRIPTION	INT.
1	04/27/12	100% ISSUED FOR CONSTRUCTION	UC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

DETAILS (AT&T)

SHEET NUMBER:

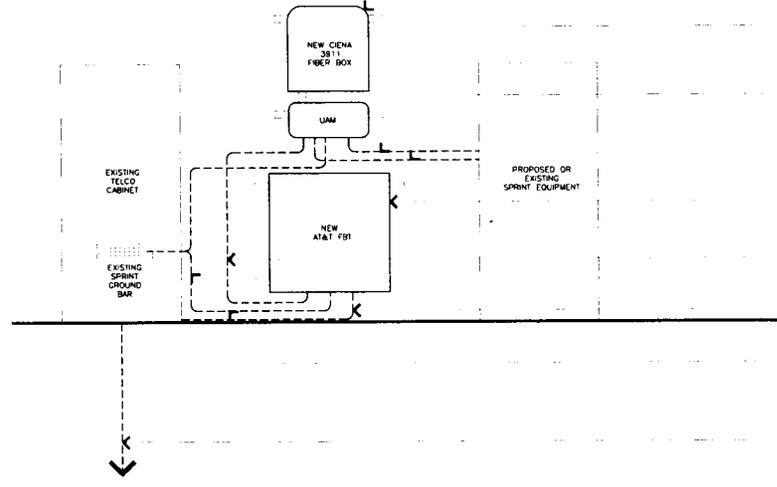
A-2

REVISION:

1

GENERAL NOTES:

PAINT ALL CONDUITS MOUNTED ON GROUND YELLOW. EQUIPMENT VIEW ADJUSTED FOR CLARITY.



(N) CIENA 3911 FIBER BOX AND (N) UNISTRUT. SEE DETAILS 1/A-2 AT&T TO INSTALL (N) AT&T CIENA 3911.

SPRINT GC TO PROVIDE AND INSTALL (1) 1" EMT CONDUIT FROM (N) UAM/CIENA CABINET TO SPRINT MM-BTS, APPROXIMATELY 15'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (1) 3" EMT CONDUIT FROM THE (E) MM-BTS CABINET TO (N) UAM/CIENA CABINET, (1) 20 AMP -48V DC CIRCUIT USING #12 AWG THHN STRANDED CONDUCTORS, APPROXIMATELY 15'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) 24"x24"x36" FEMA 39 JUNCTION BOX WITH X-PLYWOOD AND GROUND BAR WITH SET SCREWS, PROVIDE 5'-0" COIL OF #6 AWG SOLID GREEN WIRE.

SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FBT JUNCTION BOX TO (N) UAM/CIENA CABINET, APPROXIMATELY 5'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) (1) 1-1/4" EMT CONDUIT FROM (N) FBT JUNCTION BOX TO (E) TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN.

SPRINT GC TO PROVIDE AND INSTALL (N) (2) 3/8" DA EMT CONDUITS WITH (1) NEW #6 AWG GREEN SOLID WIRE ROUTED WITHIN FROM (E) GROUND BAR LOCATED INSIDE EXISTING TELCO CABINET, APPROXIMATELY 15'-0" CONDUIT RUN. RUN TO (N) AT&T UAM/CIENA AND (N) FBT JUNCTION BOX.

(E) AT&T 4" CONDUIT WITH SPRINT GC TO ROD AND PLACE (N) 1-1/4" INERDUCT WITH WULF TAP FROM (E) PEDESTAL, APPROXIMATELY 60'-0" CONDUIT RUN.

11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

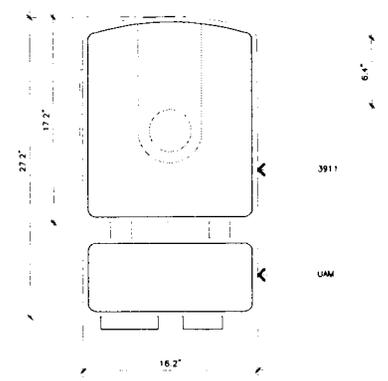
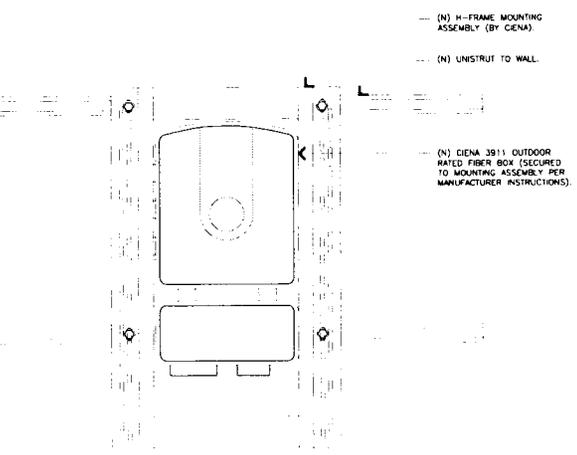
NOT USED 4

11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

ROUTING DIAGRAM 3

H-FRAME MOUNT ASSEMBLY (PER MANUFACTURER)

- SELECT AN APPROXIMATE H-FRAME STRUCTURE THAT WILL SUPPORT APPROXIMATELY 200 POUNDS OR 30 KILOGRAMS WITH A MINIMUM HEIGHT OF 4' ABOVE GRADE.
NOTE: THE H-FRAME MOUNT KIT IS REQUIRED TO CONNECT WITH AT LEAST 2 HORIZONTAL SUPPORT CHANNELS OF YOUR H-FRAME STRUCTURE. THE CHANNELS SHOULD BE SPACED BETWEEN 13" AND 23" APART. THE PREFERRED SPACING IS 18".
- REMOVE AND SET ASIDE THE SCREWS THAT HOLD THE H-FRAME MOUNT KIT TOGETHER FOR SHIPMENT. THESE SCREWS WILL BE USED LATER IN STEP #3.
- LOOSELY ASSEMBLE THE HORIZONTAL SUPPORT BRACKET TO THE 2 VERTICAL SUPPORT BRACKETS USING THE SCREWS FROM STEP #2.
- FIRMLY ATTACH THE H-FRAME ASSEMBLY TO THE H-FRAME STRUCTURE. THE MAXIMUM OVERHANG OF THE VERTICAL SUPPORT BRACKETS SHOULD BE NO MORE THAN 6" PAST THE H-FRAME STRUCTURE.
- TIGHTEN ALL H-FRAME MOUNTING HARDWARE.
- REFERENCE THE SECTION ENTITLED H-FRAME MOUNT ILLUSTRATION.



PLAN VIEW
MANUFACTURER: CIENA
MODEL: 3911 W/ UAM ACCESS MODULE (UAM)
DIMENSIONS: 29.2"(H) x 18.2"(W) x 6.4"(D)
WEIGHT: APPROX 32.8 LBS.

11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

FIBER BOX H-FRAME MOUNTING 2

11x17 SCALE: NOT TO SCALE
22x34 SCALE: NOT TO SCALE

FIBER BOX SPECIFICATIONS 1

FIRST AMENDMENT TO LEASE

This First Amendment to Lease (the "First Amendment") is made this day of ____, 2013, ("Effective Date") by and between Otay Water District ("OTAY") and Nextel of California, Inc., a Delaware corporation ("TENANT"), with reference to the facts set forth in the Recitals below:

RECITALS

- A. OTAY is the owner of that certain real property and facilities known as the "2-1" Site, at 12118 Campo Road, Spring Valley, California, a Reservoir Site (the "Property").
- B. OTAY and TENANT are parties to that certain Lease dated August 14, 1998 (the "Lease" or "Agreement") pursuant to which TENANT is leasing from OTAY land at the Property, together with the right of access to and from the nearest public right-of-way and the right to install utilities (collectively, the "Premises").
- C. Tenant has requested a modification to the type and mounting of the Improvements currently on the Premises (the "New Improvements").
- D. OTAY and TENANT have agreed to amend the Agreement to memorialize the addition of the New Improvements to the Premises.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. **New Improvements.** OTAY consents to TENANT construction and installation of new communications facilities, as more particularly described and depicted on Exhibit "B-1" which is attached hereto and made a part hereof. The parties acknowledge and agree that the attached Exhibit "B-1" is intended to supplement the Exhibit "B" attached to the Agreement.
- 2. **Governmental Approvals.** Any required permits for the use or operation of the New Improvements shall be obtained by TENANT at TENANT's sole expense. Furthermore, it is understood and agreed that TENANT's ability to install the New Improvements is contingent upon its obtaining all of the certificates, permits and other approvals that may be required by any Federal, State or Local authorities which will permit TENANT to install and operate the New Improvements within the Premises. OTAY agrees, at no expense to OTAY, to reasonably cooperate with TENANT in making application for and obtaining all governmental licenses, permits and approvals that may be required for TENANT'S intended use of the Premises.
- 3. **Amended Provisions.** The following provisions shall be amended as follows:
 - 3a. Section 5; Rent shall be replaced with the following:

5.1 Tenant agrees to pay all costs and expenses incurred by Otay in connection with the Facilities and this Agreement, including negotiation and processing hereof, plan checking and inspection of Tenant facilities, costs of inspection, repairs or replacement of any Otay facilities affected or damaged, and all other costs or expenses of Otay attributable to the matters herein contemplated, plus a reasonable amount for Otay's overhead costs in connection therewith.

a. Deposit. Tenant has made a deposit, concurrent with its application, and has agreed to make any additional deposits required in connection with Otay's review of the application, negotiation of this Agreement, including legal review, site visits, review of drawings and other costs relating such matters incurred by Otay up to the time this Agreement is executed. Tenant forfeits any claim to such deposits except to the extent Otay determines after this Agreement is executed that amounts in excess of the District's costs and expenses have been paid. Any such excess amounts may, at the sole discretion of the District, be credited toward administrative fees or any other costs then due by Tenant, if any. If no amounts are due, excess deposits will be reimbursed to Tenant.

b. Administrative Fees. Administrative fees may be charged at Otay's discretion during the Term to recover costs and expenses incurred by Otay, including but not limited to attorneys and consultant's fees, review, processing of Tenant's conditional use permits, inspection of the Facilities during construction and other related costs if any, in connection with any Tenant activity that requires Otay staff to spend time in supervision, inspection, investigation or other review; such costs include but are not limited to any amendments to this Agreement, any default or any failure of Tenant to secure or renew any permit, approval, license or easement and any investigation Otay deems reasonably required in connection with the Premises or the Facilities, including without limitation any investigation of a potential contamination of any portion of the Property due to any Tenant activity or improvement.

c. Security Deposit. Concurrently upon execution of this Agreement, Tenant shall pay to Otay a sum equal to two months' rent as a deposit ("Security Deposit") to secure the Tenant's performance of the covenants contained herein. Tenant shall maintain the Security Deposit balance equal to the amount established herein over the life of the agreement. If Otay applies any portion of the Security Deposit, Tenant shall within 30 days after demand by Otay, deposit an amount sufficient to restore the Security Deposit to its original amount. No part of the Security Deposit is to be considered as an advance payment of rent, including last months' rent, nor is it to be used or refunded prior to the leased premises being permanently and totally vacated by the Tenant. After the Tenant has vacated the premises, Otay shall furnish Tenant with an itemized written statement of the basis for, and the amount of, any of the security deposit retained by Otay. Otay may withhold that portion of Tenant's security deposit necessary (a) to remedy any default by Tenant in the payment of rent or any other provision of this Agreement, (b) to repair damages to the premises or any expense, loss, or

damage that Otay may suffer because of Tenant's default, (c) to restore the premises to meet Otay's standards, (d) any amount that Otay may incur or become obligated to spend in exercising Otay's rights under this Agreement or available at law. The unused portion of this deposit shall be returned to the Tenant without interest no later than 60 days after termination of this Agreement.

Tenant waives the provisions of California Civil Code §1950.7, and all other provisions of law now in force or that become in force after the date of execution of this Agreement, that provide that Otay may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of accrued Rent, to repair damage caused by Tenant, or to clean the Premises. Otay and Tenant agree that Otay may, in addition, claim those sums reasonably necessary to compensate Otay for any other foreseeable or unforeseeable loss or damage caused by the act or omission of Tenant or Tenant's officers, agents, employees, Independent contractors, or invitees, including future rent payments.

d. None of the deposits or other payment of costs or administrative fees constitutes or shall be considered Rent (defined below).

5.2 Beginning on the Commencement Date, Tenant shall pay Otay as rent the sum of \$1,500.00 per month ("Rent") payable on the first day of each month in advance. If the Commencement Date is prior to the fifteenth day of the month of commencement, the full month's Rent will be due on the Commencement Date. If the Commencement Date is on or after the fifteenth day of the month of commencement, payment of Rent will begin the first day of the following month.

Tenant may make Rent payments up to 5 days past due date without penalty, unless continual late payments for two consecutive months occur. A fee shall be imposed after the 5th day and shall be 20% of the amount currently due. Failure to pay Rent within ten (10) calendar days of the first of the month shall be an Event of Default as provided by Section 13.2. Failure to pay Rent on the due date for more than two (2) consecutive months or four (4) times over any twelve (12) month period shall be a non-curable Event of Default without the necessity of any notice or cure period. At District's sole discretion, immediately following such a non-curable Event of Default, District may terminate the Agreement and seek any remedy available by this Agreement or at law. If Tenant tenders a check, which is dishonored by a banking institution, then the Tenant shall tender cash or cashier's check only for all future payments, which shall continue until such time as written consent is obtained from Otay. In addition, Tenant shall be liable in the sum of \$25 for each dishonored check that is returned to Otay.

a. Rent Increases. The Rent shall be increased on each calendar anniversary of the Commencement Date at a rate of four percent (4%) per annum or the annual Consumer Price Index change ("CPI"), whichever is greater. CPI shall be the average percentage increases in the consumer price index published by the United States Department of Labor, Bureau of Labor Statistics (1982-1984 = 100)

(the "CPI") for "All Items - All Urban Consumers" for the San Diego Metropolitan Statistical Area.

3b. Section 7; Improvements, and Section 8; Installation of Equipment shall be replaced with the following:

7. Installation and Maintenance of Improvements. Tenant is authorized to install, maintain and operate on the Premises only the Facilities described and depicted on Exhibit B; provided that all permits and zoning approvals shall have first been obtained by Tenant and shall at all times while the Facilities operate remain in full force and effect.

a. Installation of the Improvements. Tenant's design and installation of all portions of the Facilities shall be done, at no cost to Otay, according to plans approved by Otay, provided that such approval shall not be unreasonably withheld. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay of the method of attachment at Otay's sole discretion. If such Facilities are to be attached or mounted to a water tank, Tenant shall use an installation method such as a magnetic mount or other, non-destructive alternative. The Tenant shall be responsible for painting its antennas and/or equipment to match Otay's facility. Otay will provide Tenant with specifications regarding paint type, color and application method to accomplish this requirement. Painting/coating submittals shall be provided to Otay by the Tenant prior to receiving permission to begin painting. Otay may specify a camouflage design if not inconsistent with requirements of the city or county within which the Facilities are located. These camouflage designs may include but are not limited to faux palm trees, pine trees, cypress trees, broadleaf trees, and flag poles, unipoles, and other camouflaged antenna and antenna supports.

b. Record Drawings. Within thirty (30) days after completion of the Facilities, Tenant shall provide Otay with "record" (also called "as-built") drawings of the Facilities showing and identifying all the equipment and improvements installed on the Premises. Said drawings shall be accompanied by a complete and detailed inventory of all equipment, including without limitation all personal property and antennas located on the Premises and any such property of Tenant located in the Easement. No property of Tenant other than such identified property shall be located on the Premises or the Property at any time. Upon acceptance by Otay of Tenant's record drawings, in form and content satisfactory to Otay, such drawings shall replace and supersede any similar drawings contained in any exhibit attached hereto.

c. Alterations. Tenant shall not alter or change its Improvements in a material manner without the prior approval of Otay, such approval not to be unreasonably withheld. "Material" refers to any physical change that could affect the building structure, antenna support, interconnecting facilities or its appearance

or any change that requires access to the Premises for installation of new equipment, removal of old equipment, trenching or digging or that could disrupt Otay's workplace or communications in any way or any change that requires a renewed or amended easement, permit or approval. All of Tenant's construction and installation work shall be performed at Tenant's sole cost and expense in a good and workmanlike manner and fully compliant with all government permit and code requirements. Tenant shall have the right to remove all Improvements it installs at its sole expense on or before the expiration or termination of this Agreement, but must at such time restore the ground and surface underlying the removed Improvements to its pre-installation condition, wear and tear excepted, and to the reasonable satisfaction of Otay.

d. Alterations to Improvements / Additional Space. If, at any time during the Term, Tenant requests permission from Otay to add improvements requiring construction to its then existing Improvements, the then current Administrative Fees shall be paid to Otay before any such changes are negotiated. In addition, if the requested Tenant improvements include additional area, a new agreement or, at Otay's discretion, an amendment for the additional lease space must be executed prior to start of construction and Tenant shall comply with Otay's requirements then in effect, including payment of additional rent, if any, for the additional area.

e. Permits and Compliance with Applicable Laws. During the Term, and prior to commencing any construction or installation of any improvements or equipment, as applicable, Tenant shall obtain all necessary approvals, permits and access easements or licenses, all of which shall be maintained in full force and effect at all times in accordance with all applicable laws, rules and regulations.

i. Prior to commencing construction, Tenant shall deliver to Otay copies of all executed licenses, approvals and permits required by local, state or federal agency in connection with the Improvements, which permits shall be attached hereto as Exhibit B.

ii. From time to time, as required by law or regulation in connection with the normal operation of the Improvements or as needed due to improvements or alterations to the same, Tenant shall provide Otay with updated permits, licenses and/or approvals, including without limitation written evidence, satisfactory to Otay, of all FCC approvals and other governmental permits and approvals, including but not limited to compliance with the FCC's electromagnetic radiation rules, set forth at 47 C.F.R. § 1.1307 et seq. and FCC Office of Engineering and Technology Bulletin 65, each as hereafter amended.

iii. Otay agrees, at no expense to Otay, to reasonably cooperate with Tenant in making application for and obtaining all governmental licenses,

permits and approvals that may be required for Tenant's intended use of the Premises.

f. Utilities. Tenant shall be authorized to install utilities for the Premises and the Improvements at Tenant's expense and to improve the present utilities on or near the Premises (including, but not limited to the installation of an emergency back-up power) subject to Otay's approval of the location, route, design and capacity, which approval shall not be unreasonably withheld. Tenant shall fully and promptly pay for all utilities furnished to the Premises for the use, operation and maintenance of Tenant's Improvements. If inadequate electrical power is available to provide for the Improvements, or additional electrical power is required to be installed on the Premises by Otay in its sole discretion, such installation shall be at Tenant's sole expense. The location, route, design and capacity of the additional power facility shall be approved by Otay, which shall not be unreasonably withheld.

g. Repair of Otay's Improvements/Systems. Any damage done to the Property or to any Otay improvement, facility or system in connection with the construction, installation, maintenance, repair, improvement, replacement or operation of the Improvements shall be repaired or replaced immediately at Tenant's expense and to Otay's reasonable satisfaction by Otay staff or contractors approved by Otay. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay. Tenant shall pay all costs and expenses in relation to maintaining the integrity of Otay's facilities, improvements and systems affected in any way by Tenant's Improvements or its use of the Property or the Premises.

h. Maintenance and Repair. At all time during the Term, Tenant shall maintain the Premises and the Improvements in a manner acceptable to Otay. Tenant's use of its Improvements shall not at any time or in any way adversely impact, impede or interfere with Otay's access to, use or operation of, its improvements, equipment or systems.

i. Liens. Tenant shall not encumber or allow the Premises or the Property to be encumbered in any manner other than as expressly authorized herein.

j. Security. Tenant recognizes and agrees that the Premises and the Reservoir Site are a sensitive area and that Otay's operations and services are highly sensitive and regulated. Tenant shall provide for the proper supervision of all Tenant Parties assigned or allowed by Tenant to enter and do work at the Premises. Tenant also agrees, holding Otay harmless for any cost or expense, to comply with any and all security measures instituted by Otay from time to time.

8. Maintenance, Repair or Replacement of Otay's Improvements. At any time while this Agreement remains in effect, Otay may, at its option and upon One Hundred Eighty (180) days prior written notice to Tenant, remove or cause

Tenant to remove all or any portion of its Facilities at Tenant's expense, in order for Otay to paint, repair, or make replacements to any or all its improvements on the Premises (the "Maintenance or Replacement Work"), as deemed necessary by Otay in its sole discretion. Tenant agrees to fully cooperate with Otay's efforts in connection with any Maintenance or Replacement Work, including without limitation timely, and at Tenant's cost, removing and re-installing any portion of the Facilities, as requested by Otay.

a. Temporary Facilities. During the Maintenance or Replacement Work, Tenant may, holding Otay harmless from any cost or expense, install temporary antennas on the Premises subject to Otay's approval of the location and type of replacement facilities, such approval shall not be unreasonably withheld or delayed. Once the Maintenance or Replacement Work is completed by Otay, Tenant agrees to promptly dismantle any temporary facilities and to relocate the facilities to their original location or to any other location approved by Otay. All work related to the removal of any portion of the Facilities, installation of temporary facilities, dismantling, relocation to their original location and any related work, shall be done at Tenant's sole cost and expense and in good and workmanlike manner.

b. Repair of damage. Tenant shall repair any damage caused by Tenant in connection with the installation, maintenance, operation or removal of any temporary facilities or the Facilities, and Tenant shall restore any distributed portions of the Property to their condition immediately prior to the installation of the temporary facilities.

c. Otay's option to remove temporary facilities. If any temporary facilities are not removed within sixty (60) days from the date the Maintenance or Replacement Work is completed, Otay shall have the right, but not the duty, to remove the temporary facilities at Tenant's cost and expense.

d. Painting of the Facilities. If the Maintenance or Replacement Work includes the painting, or any work affecting the surface of Otay's improvements, the Tenant shall be responsible for repainting or performing other surface treatment of its antennas and equipment to match Otay's. Otay will provide specifications to the Tenant regarding the treatment, paint type, color and application method to accomplish this requirement. The Tenant shall be required to obtain approval of specifications from Otay prior to commencing work on this requirement. Subject to Otay's prior written consent, Tenant may substitute an alternate treatment, paint type and application method if it reasonably determines that Otay's selection will adversely affect or otherwise degrade Tenant's wireless signal from the Reservoir Site.

3c. Section 9; Co-Location shall be replaced with the following:

9.1. Co-Location by Otay. Tenant agrees that Otay may enter into leases or other types of agreements with other communication carriers, wireless communications carriers and other utilities for use of any portion of the "Reservoir Site" as long as said leases do not result in unreasonable interference with Tenant's use of or access to the Premises. Tenant shall reasonably cooperate with Otay's efforts in this regard including, at Otay's request, the relocation of, or changes to, the Facilities; provided that any alterations or relocation needed to accommodate the new carrier or utility shall be performed at the expense of Otay or the new carrier or utility.

9.2. Co-Location by Tenant - Subleasing/Encumbrance. Tenant shall not sub-lease or sub-license or otherwise encumber the Premises or any portion of the Facilities without Otay's prior written consent, which may be granted or denied at Otay's sole discretion. Any sub-lease or other encumbrance shall require an amendment to this Agreement and shall specify the terms and conditions, including making provision for rent and increases thereto for the sub-lease or other encumbrance.

3d. Section 13; Termination shall be replaced with the following:

13.1 Termination.

(a) This Agreement may be terminated by Tenant without further liability if:

(i) Tenant delivers to Otay 30-day written notice at any time prior to commencing any work at the Premises in connection with the installation of any Facilities, for any reason or no reason;

(ii) Tenant gives Otay sixty (60) days' notice of Tenant's determination that a governmental or non-governmental license, permit, consent, approval, easement or waiver necessary to enable Tenant to construct, install or operate the Facilities cannot be obtained or renewed at reasonable expense or in reasonable time period for wireless sites at water reservoirs in metropolitan areas within San Diego County. If this notice is given, Tenant must immediately cease any and all transmissions through and from the Premises and shall promptly remove, within a period of time not to exceed sixty (60) days, any and all Tenant's personal property and improvements from the Property. This Agreement and any related easements shall automatically expire upon the earlier of removal of the Tenant's improvements or the 60th day from the notice; excepting only Tenant's indemnities and liabilities hereunder, including the obligation to pay Rent for any holdover period. Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated.

(iii) Tenant determines at any time after the Commencement Date that the Premises are not appropriate or suitable for its operations for economic, environmental or technological reasons, including without limitation, any ruling or directive of the FCC or other governmental or regulatory agency, or problems with signal strength or interference not encompassed by subsection (iv) below; provided that the right to terminate under this subsection (iii) is exercisable only upon payment by Tenant, as a termination fee, of the lesser of twelve monthly installments of rent or the balance of the rent due for the then current Initial Term, Extension Term or Additional Term, as applicable; and Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated;

(iv) Otay commits a default under this Agreement and fails to cure pursuant to Section 13.2, below;

(v) The Property or the Premises are totally or partially destroyed by fire or other casualty (not caused by Tenant) so as to hinder Tenant's normal operations and Otay does not provide to Tenant within thirty (30) days after the casualty occurs a suitable temporary relocation site for Tenant's facility pending repair and restoration of the Premises; or

(vi) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

(b) This Agreement may be terminated by Otay without further liability if:

(i) Tenant commits a default under this Agreement and fails to cure such default pursuant to Section 13.2, below;

(ii) Otay determines that continuing the Agreement or continuing to allow the Tenant to construct, install, maintain or operate the Facilities in any way violates a law, rule or regulation; or

(iii) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

13.2 Default.

a. Event of Default. The parties covenant and agree that a default or breach of this Agreement (an "Event of Default") shall occur and be deemed to exist if, after notice and opportunity to cure as provided below:

(i) Tenant shall default in the payment of Rent, or any other amounts due Otay hereunder, and said default shall continue for ten (10) business days after the same becomes due; or

(ii) Either party shall default in the performance or observance of any other covenant or condition of this Agreement to be performed or observed if such failure persists for a period of thirty (30) days after the non-defaulting party provides written notice of the default to the defaulting party.

b. Rights upon Default. Upon the occurrence of an Event of Default, in addition to any other rights or remedies available to the non-defaulting party under any law, the non-defaulting party shall have the right to terminate the Agreement.

c. Cure Rights. An Event of Default shall not exist unless written notice has been given in accordance with this Agreement, and the defaulting party has had the opportunity to cure as provided herein. The defaulting party shall cure the alleged default within the manner provided herein; provided however, that if the nature of an alleged default is such that it cannot reasonably be cured within such thirty (30) day period, the defaulting party shall not be in breach of this Agreement if it diligently commences a cure within such period, and thereafter diligently proceeds with the actions necessary to complete such cure.

3e. Section 17; Indemnity, shall be replaced with the following:

Tenant specifically agrees that it shall hold harmless, defend (with counsel, and if needed experts, reasonably acceptable to Otay), indemnify and otherwise protect Otay and each Otay Party, from and against all claims, suits or actions of any kind and description relating to (a) Tenant's obligations under this Agreement and any amendment hereto or (b) Tenant or Tenant Parties use of, and access to, the Premises, the Facilities or the Property. These obligations extend to and include without limitation any and all costs and expenses (including attorney's fees and court costs) incurred by Otay or the Otay Parties in connection with (i) damage to property (including the Premises, the Property or any personal property of Otay or any third party), (ii) any action or proceeding (including an enforcement action or criminal proceeding) related in any way to any permit (governmental or otherwise), approval or easement obtained by or required of Tenant in connection with this Agreement or the Facilities; and (iii) personal injury or death, except to the extent that such claims, suits or actions directly arise from the gross negligence or willful misconduct of Otay or an Otay Party. This indemnification

clause in no way limits any other specific indemnities given by Tenant under other provisions of this Agreement.

Nothing contained herein shall prohibit Otay, in its sole discretion, from participating in the defense of any demand, claim, action, proceeding, or litigation. In no event shall Otay's participation in the defense of any demand claim, action, proceeding, or litigation affect the obligations imposed upon Tenant herein.

This and all other Tenant indemnities shall survive the termination of this Agreement and shall remain in effect for as long as the underlying claim or action remains viable.

3f. Section 19; Assignment, shall be replaced with the following:

Tenant shall not assign this Agreement or any portion of its rights or obligations hereunder without Otay's prior written consent, except to an affiliated parent entity, subsidiary, purchaser of at least 50% of the aggregate of the assets of Tenant ("assets" means and includes without limitation any and all real, personal or financial property or thing owned or controlled by Tenant or over which Tenant has an interest) or holder of Tenant's FCC license.

a. If during the Term hereof, Tenant requests the written consent of Otay to any assignment, and upon demonstration satisfactory to Otay of the proposed assignee's legal, financial, and technical qualifications to assume all of the Tenant's duties and obligations herein, Otay's consent thereto shall not unreasonably be withheld. Consent to one assignment shall not be deemed consent to any subsequent assignment.

b. Any attempted assignment not permitted under the first paragraph of this Section 19, without Otay's prior consent as set forth in Section 19(a), shall be void and, at Otay's option, shall constitute a termination of this Agreement for which a termination fee as described in Section 13.1.a(iii) shall be immediately due.

c. Any assignment of this Agreement shall require an executed "Assignment of Lease" whether or not the Consent of Otay is required pursuant to this section 19 or any other provision of this Agreement. A sample form of the "Assignment of Lease" is attached to this Agreement as Exhibit F which may be amended or modified in Otay's sole discretion.

4. **Continued Effect.** Except as specifically modified by this First Amendment, all of the terms and conditions of the Agreement shall remain in full force and effect. In the event of a conflict between any term or provision of the Agreement and this First Amendment, the terms

and provisions of this First Amendment shall control. In addition, except as otherwise stated in this First Amendment, all initially capitalized terms will have the same respective defined meaning stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this First Amendment.

5. **Administrative Fees.** TENANT shall pay OTAY the amount of \$4,500 within (30) days of the date of execution of this Amendment by OTAY and TENANT.

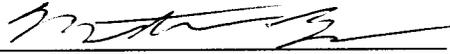
6. **Current Rent.** The current monthly Rent amount at the Effective Date of this First Amendment is \$2,268.87.

IN WITNESS WHEREOF, OTAY and TENANT have caused this First Amendment to be executed by each party's duly authorized representative effective as of the date first above written.

OTAY WATER DISTRICT:

Nextel of California, Inc.,
a Delaware corporation:

By: _____
Name: Mark Watton
Title: General Manager
Date: _____

By: 
Name: Matthew Bell
Title: Manager Real Estate
Date: 5/29/2013

Approved as to Form:

By: _____
OWD General Counsel

Approved as to Form:

By: _____
Its: _____

Exhibit B-1

NEW IMPROVEMENTS

BATTERY INFORMATION /NOTES:

BATTERY MFG: EAST PENN MANUFACTURING
 MODEL No.: 12AVR-145L
 ELECTROLYTE CONTENT PER BATTERY: 2.17 GALLONS
 ELECTROLYTE HAZARD CLASSIFICATION PER 10 C.F.C. (8.7% SULFURIC ACID): CORROSIVE
 No. OF BATTERIES TO BE INSTALLED: 0
 TOTAL ELECTROLYTE CONTAINED ON SITE (1.2 x 12 = 14.4): 24 GALLONS MAX

A. QUANTITIES OF 500 GAL. OR LESS ARE EXEMPT PER TABLE 3 E OF THE 2010 U.B.C.
 B. SINGLE VESSEL CAPACITIES OF 20 GAL. OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GAL. ARE EXEMPT PER ARTICLE 84 OF THE 2010 C.F.C.
 C. QUANTITIES LESS THAN 50 GAL. ARE EXEMPT FROM C.F.C. ARTICLE 80 AND SHALL NOT REQUIRE PERMIT.
 D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2010 C.F.C. ARTICLE 84, AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50

FIRE DEPARTMENT NOTES:

A. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
 B. A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE.
 C. A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
 D. A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
 TOXIC LIQUID
 CORROSIVE LIQUID
 OTHER HEALTH HAZARD LIQUID

E. AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
 F. BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
 G. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE FIRE INSPECTOR.
 H. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
 I. EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
 J. ADDRESS NUMBERS SHALL BE A MINIMUM 8 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.
 K. REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
 L. REQUIRED SIGNAGE SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN (SEE SIGNAGE)

NOT USED

3

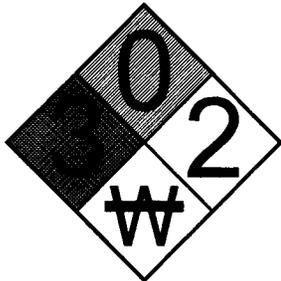


GENERAL NOTES

1

HAZARDOUS MATERIAL SIGNAGE

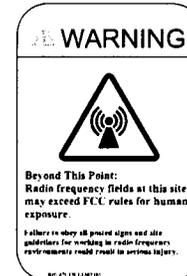
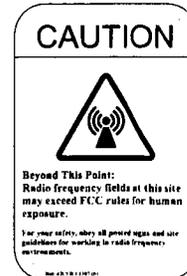
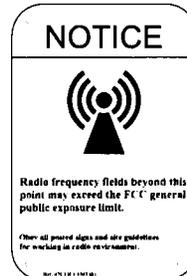
4



REQUIRED NFPA SIGNAGE

IN CASE OF EMERGENCY
CALL
1-818-756-9674
SITE NUMBER: SD73XC157
SITE NAME: COTTONWOOD

EMERGENCY CONTACT SIGNAGE



SITE IDENTIFICATION SIGNAGE

2

RF SIGNAGE

5



PLANS PREPARED BY:
Technology Associates Engineering Corporation Inc.
SAN DIEGO MARKET OFFICE
 5473 KEARNY VILLA RD. STE. 300
 SAN DIEGO, CA 92123

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 NETWORK VISION MMBTS LAUNCH
COTTONWOOD
 SD73XC157
 12118 CAMPO ROAD
 SPRING VALLEY, CA 92078

ISSUE DATE:
 04/04/2013
 ISSUED FOR:
 100% FINAL CD

REVISIONS

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A	04/04/13	ISSUED FOR 100% FINAL CD	SMS

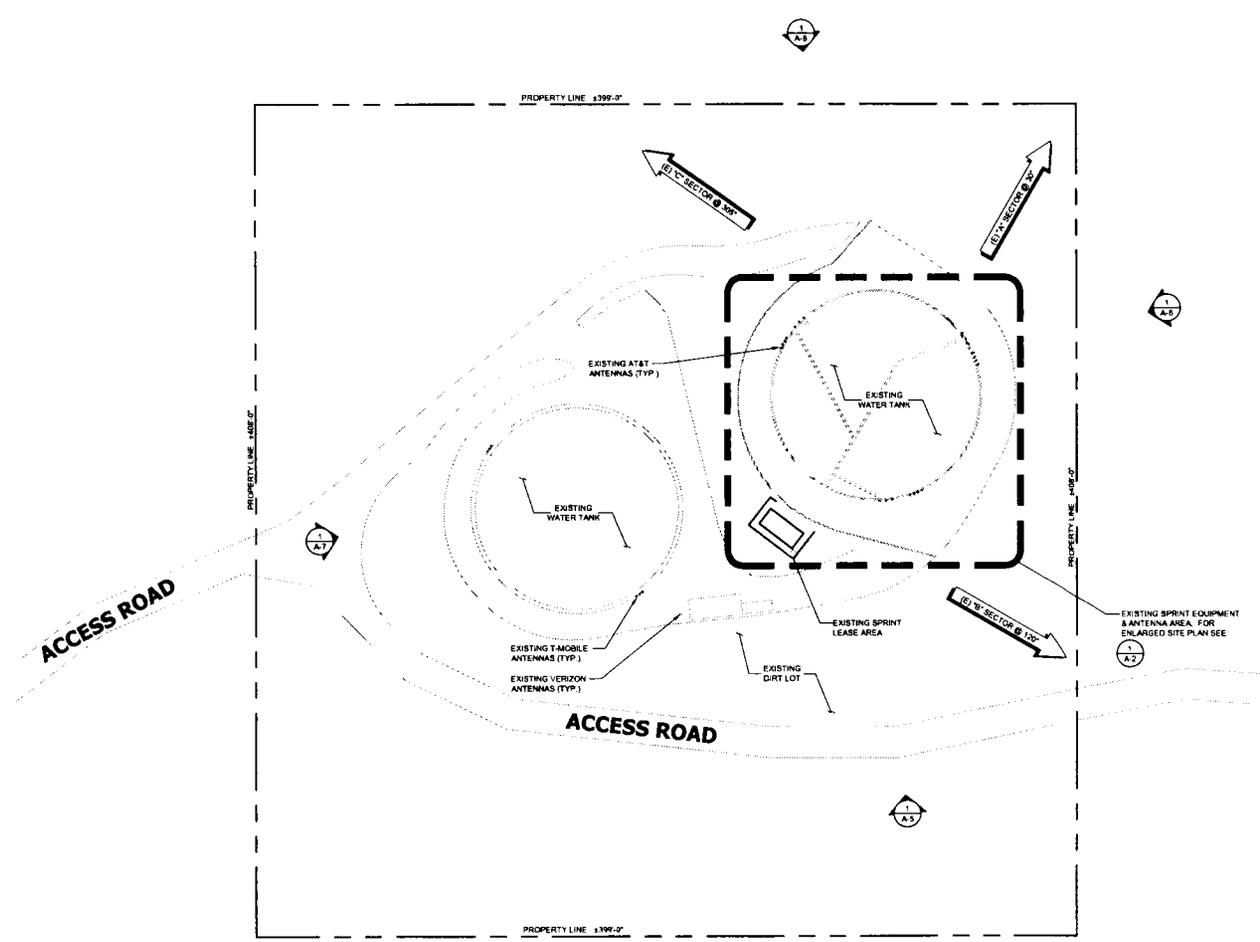
LICENSURE:
 SHEET TITLE:

SIGNAGE & NOTES

SHEET NUMBER: **T-3** REVISION: **A**

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COTTONWOOD

SD73XC157

12118 CAMPO ROAD
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OVERALL SITE PLAN

SHEET NUMBER:

REVISION:

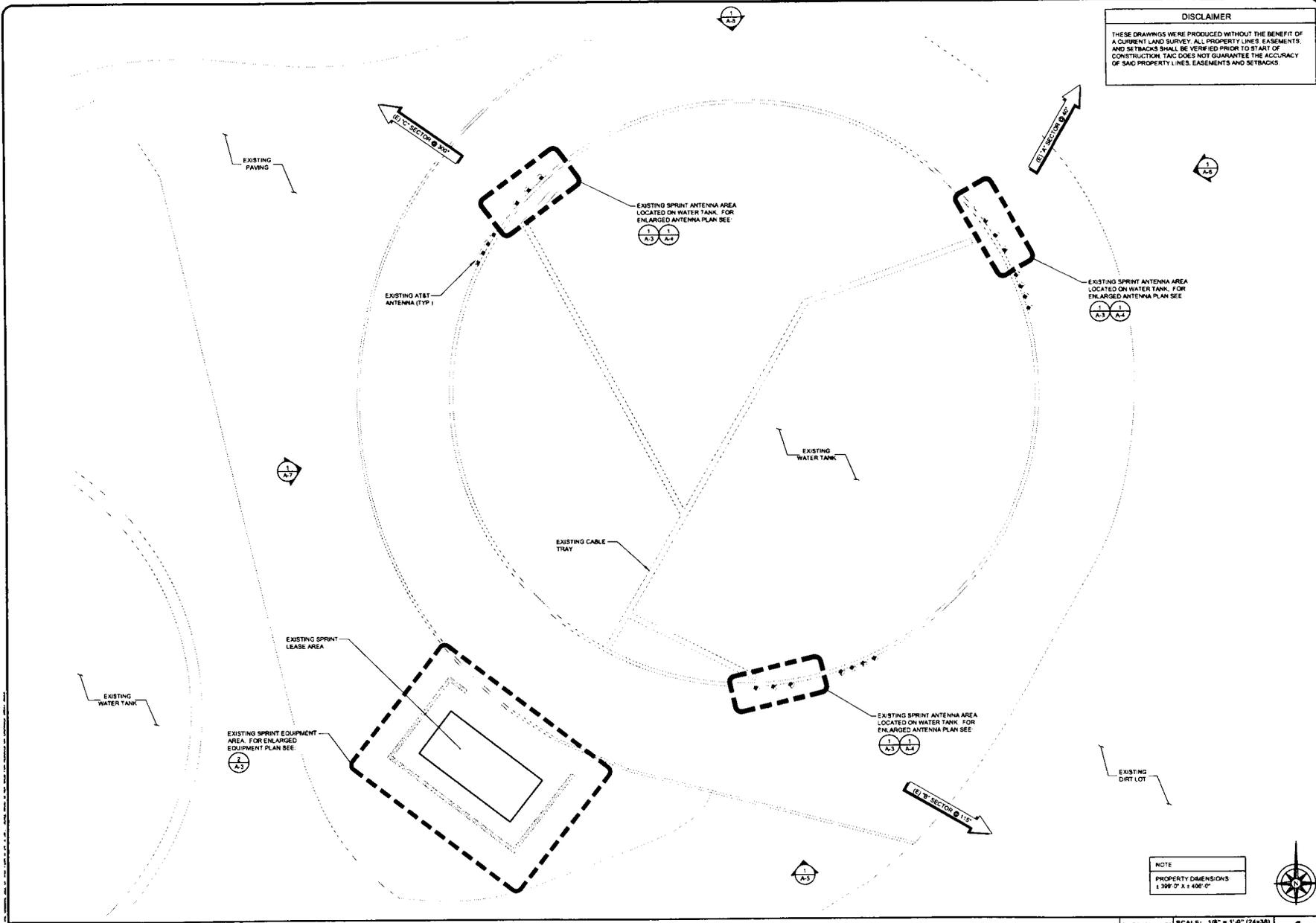
A-1 A

OVERALL SITE PLAN

30' 0 15' 30' SCALE: 1" = 30'-0" (24x36)
(OR) 1/2" = 30'-0" (11x17)



1



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Alcatel-Lucent
 9005 SCRANTON RD. SUITE 400
 SAN DIEGO, CA 92121

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 Engineering Corporation Inc.**
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SD73XC157
 12118 CAMPO ROAD
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LICENSURE:

SHEET TITLE:
**ENLARGED
 SITE PLAN**

SHEET NUMBER: **A-2** **REVISION:** **A**

NOTE
 PROPERTY DIMENSIONS
 ± 3/8" @ ± 1' 400'-0"



ENLARGED SITE PLAN

0 2' 4' 8' **SCALE:** 1/8" = 1'-0" (24x36)
 (OR) 1/16" = 1'-0" (11x17) **1**



Alcatel-Lucent
 9605 SCRANTON RD. SUITE 400
 SAN DIEGO, CA 92121

PLANS PREPARED BY:

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12118 CAMPO ROAD
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LICENSURE:

SHEET TITLE:

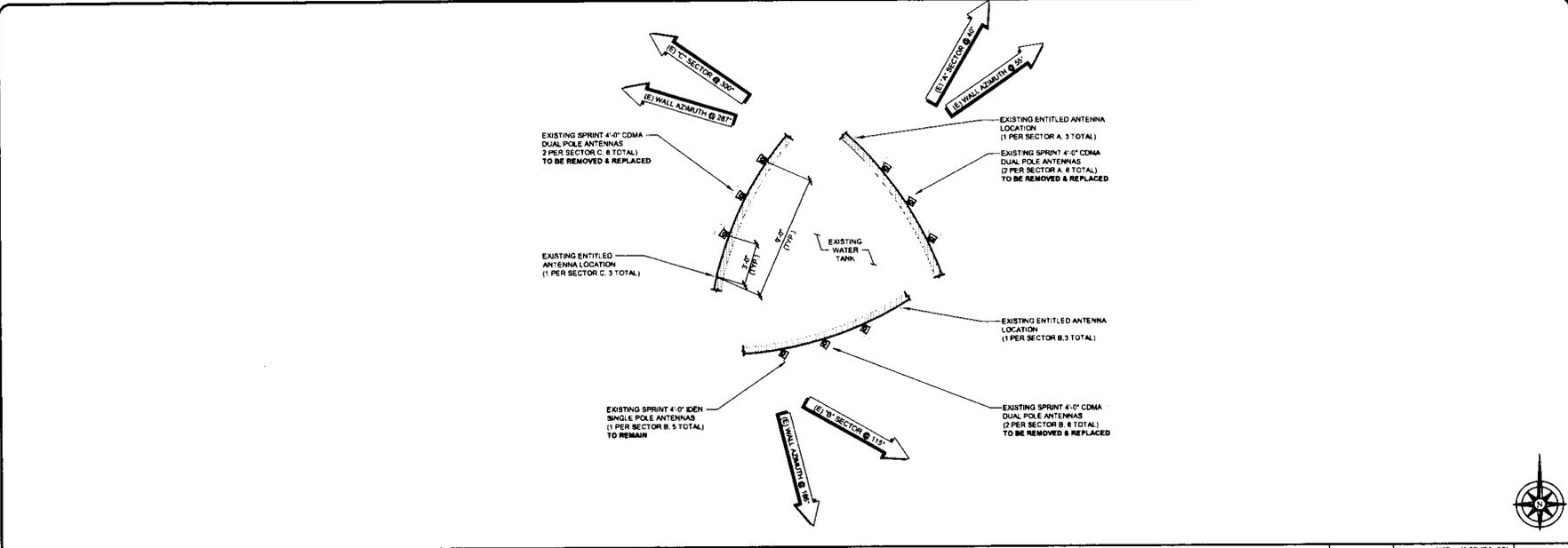
**EXISTING ANTENNA
 & EQUIPMENT PLANS**

SHEET NUMBER:

A-3

REVISION:

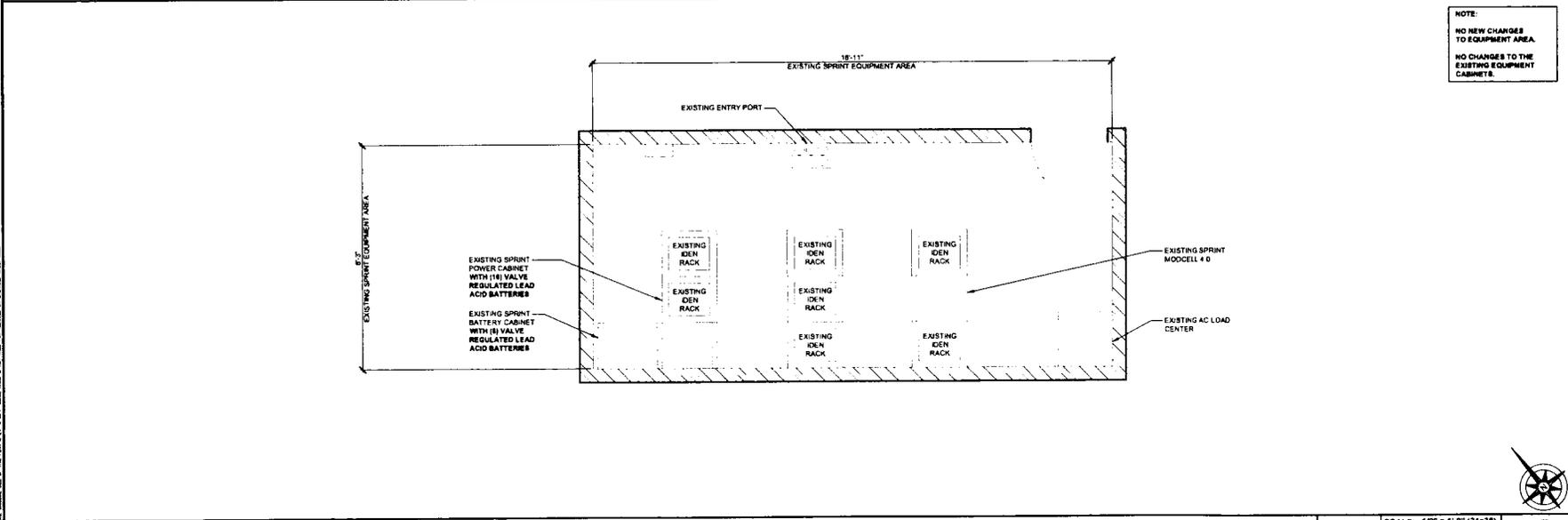
A



EXISTING ANTENNA PLAN

0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)
 (DR) 1/8" = 1'-0" (11x17) 1

NOTE:
 NO NEW CHANGES TO EQUIPMENT AREA.
 NO CHANGES TO THE EXISTING EQUIPMENT CABINETS.



EXISTING EQUIPMENT PLAN

0 6" 1' SCALE: 1/2" = 1'-0" (24x36)
 (DR) 1/4" = 1'-0" (11x17) 2



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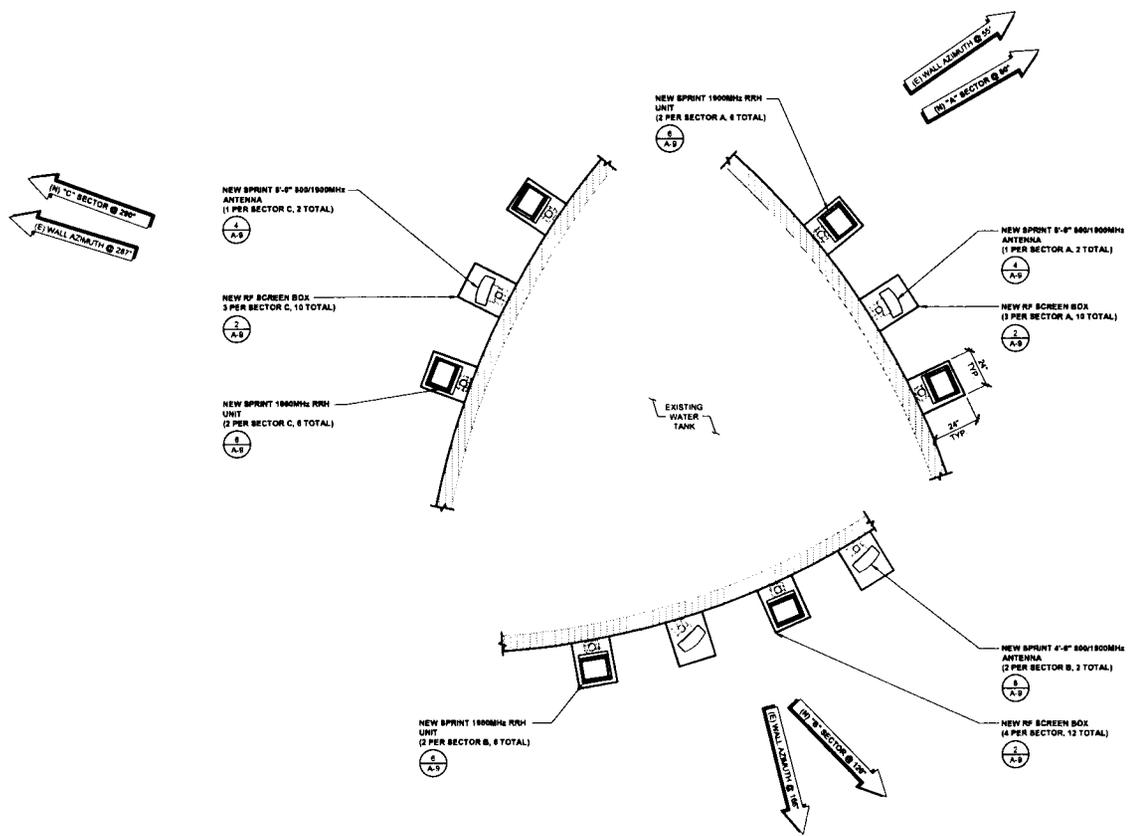
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LICENSURE:

SHEET TITLE:
NEW ANTENNA PLAN

SHEET NUMBER: **A-4** REVISION: **A**

NOTE
 1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING / WIRING DIAGRAMS, PRIOR TO INSTALLATION
 2. EACH ANTENNA AND RRH TO BE SCREENED BY RF SCREEN BOXES
 3. ANTENNAS, RRHS, & RF BOXES TO BE MOUNTED TO WATER TANK WITH MAGNETS.



NEW ANTENNA PLAN

SCALE: 1/2" = 1'-0" (24x36)
 (OR) 1/4" = 1'-0" (11x17)



1



Alcatel-Lucent
 9805 SCRANTON RD. SUITE 400
 SAN DIEGO, CA 92121

PLANS PREPARED BY:

**Technology Associates
 Engineering Corporation Inc.**
 SAN DIEGO MARKET OFFICE
 5473 KEARNY VILLA RD. STE. 300
 SAN DIEGO, CA 92123

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

COTTONWOOD

SD73XC157

12118 CAMPO ROAD
 SPRING VALLEY, CA 92078

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ISSUED FOR:

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REVISIONS

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LICENSURE:

SHEET TITLE:

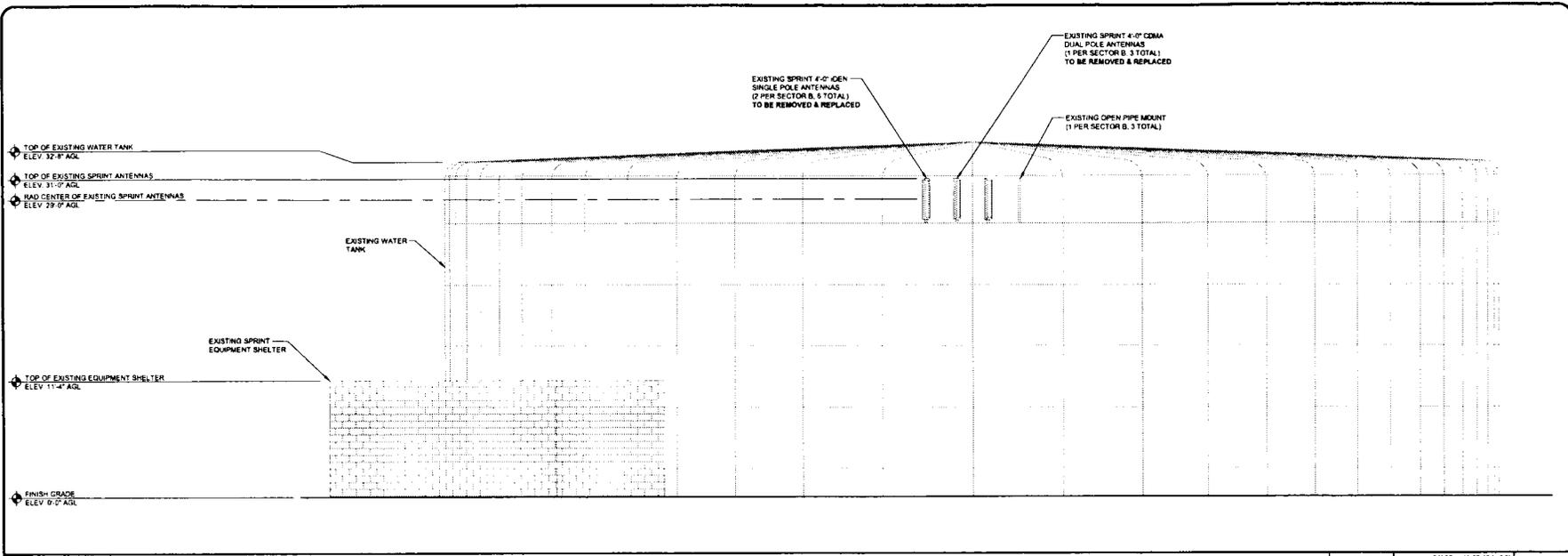
SOUTH ELEVATIONS

SHEET NUMBER:

REVISION:

A-5

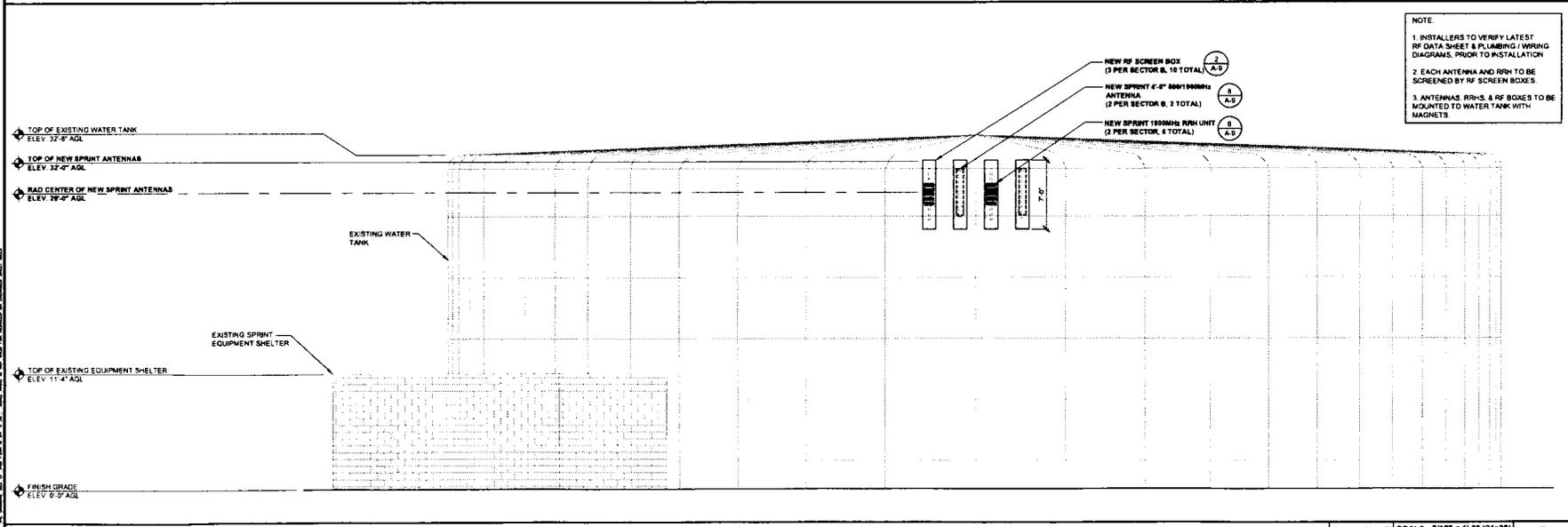
A



EXISTING SOUTH ELEVATION

0 1.5' 3" 5" SCALE: 3/16" = 1'-0" (24x36)
 (OR) 3/32" = 1'-0" (11x17)

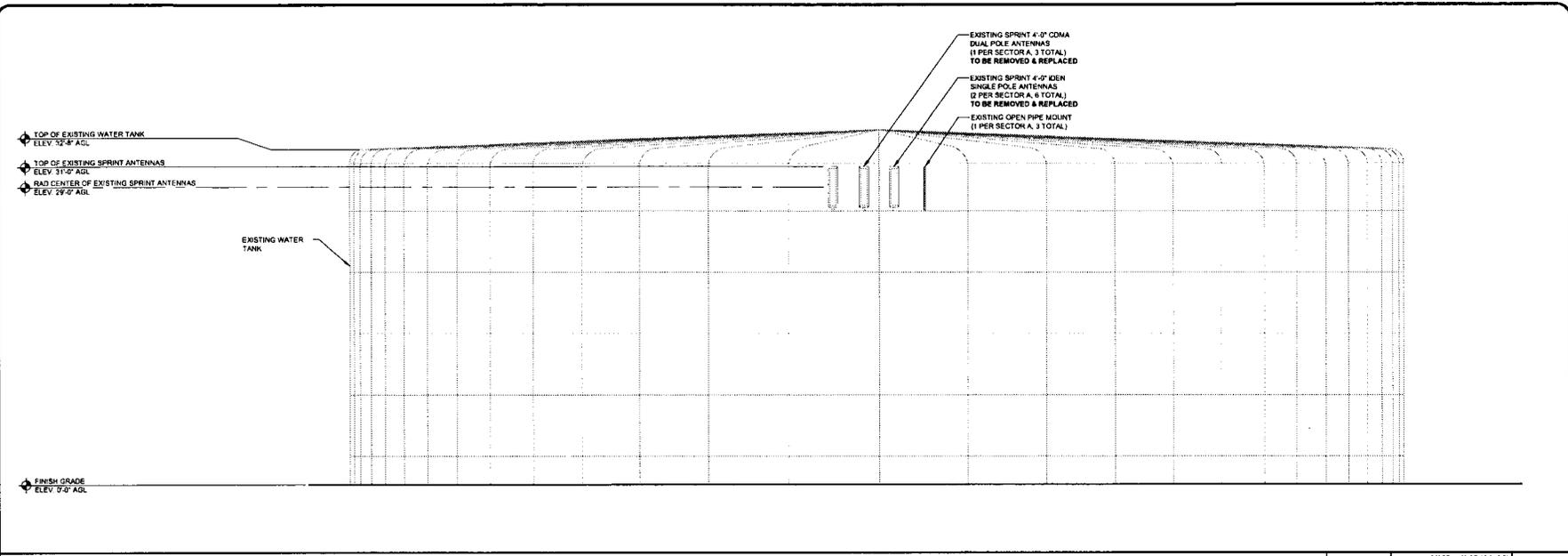
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NEW SOUTH ELEVATION

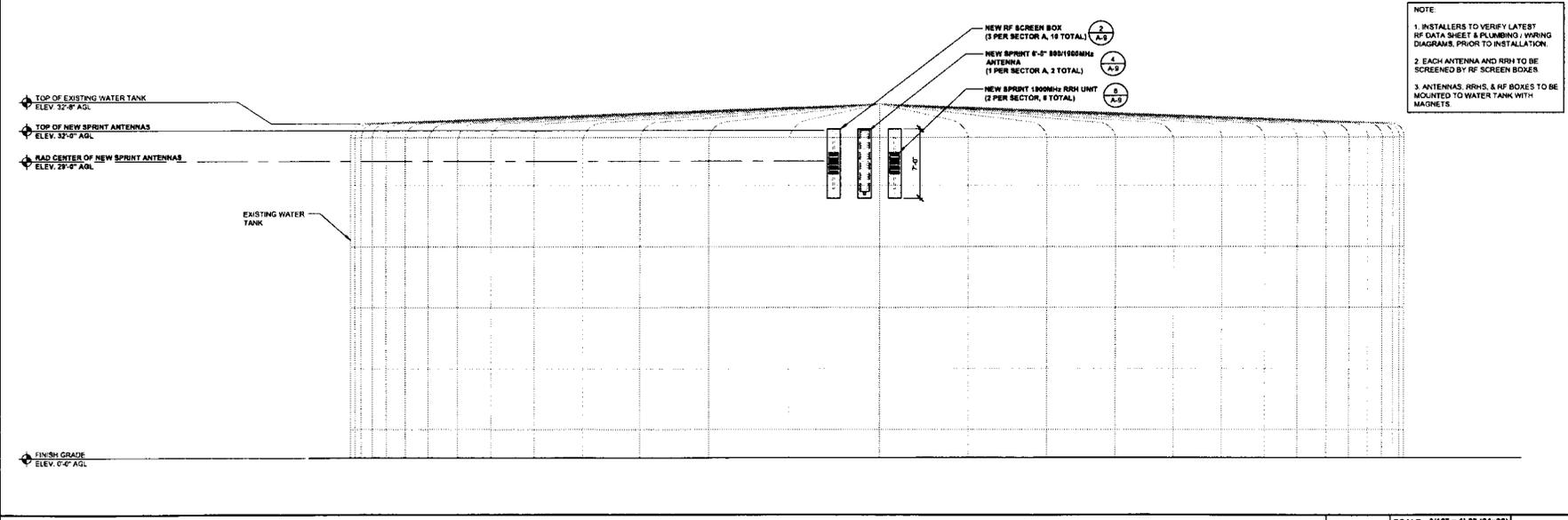
0 1.5' 3" 5" SCALE: 3/16" = 1'-0" (24x36)
 (OR) 3/32" = 1'-0" (11x17)

2



EXISTING EAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17) **1**



NEW EAST ELEVATION

0 1.5' 3' 5' SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17) **2**



Alcatel-Lucent
9605 SCRANTON RD. SUITE 400
SAN DIEGO, CA 92121

PLANS PREPARED BY:
**Technology Associates
Engineering Corporation Inc.**
SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD. STE. 300
SAN DIEGO, CA 92123

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PROJECT INFORMATION:
NETWORK VISION MMBTS LAUNCH
COTTONWOOD
SD73XC157
12118 CAMPO ROAD
SPRING VALLEY, CA 92078

ISSUE DATE:
04/04/2013

ISSUED FOR:
100% FINAL CD

REVISIONS

REV	DATE	DESCRIPTION	BY
0	03/26/13	ISSUED FOR 90% CD REVIEW	NAB
A	04/04/13	ISSUED FOR 100% FINAL CD	SMR

LICENSURE:

SHEET TITLE:
EAST ELEVATIONS

SHEET NUMBER: **A-6** REVISION: **A**

NOTE
1. INSTALLERS TO VERIFY LATEST
RF DATA SHEET & PLUMBING WIRING
DIAGRAMS, PRIOR TO INSTALLATION.
2. EACH ANTENNA AND RRH TO BE
SCREENED BY RF SCREEN BOXES
3. ANTENNAS, RRHS, & RF BOXES TO BE
MOUNTED TO WATER TANK WITH
HARDNETS.



PLANS PREPARED BY:

**Technology Associates
Engineering Corporation Inc.**
SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD. STE. 300
SAN DIEGO, CA 92123

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SPRING VALLEY, CA 92078

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A	04/04/13	ISSUED FOR 100% FINAL CD	SMS

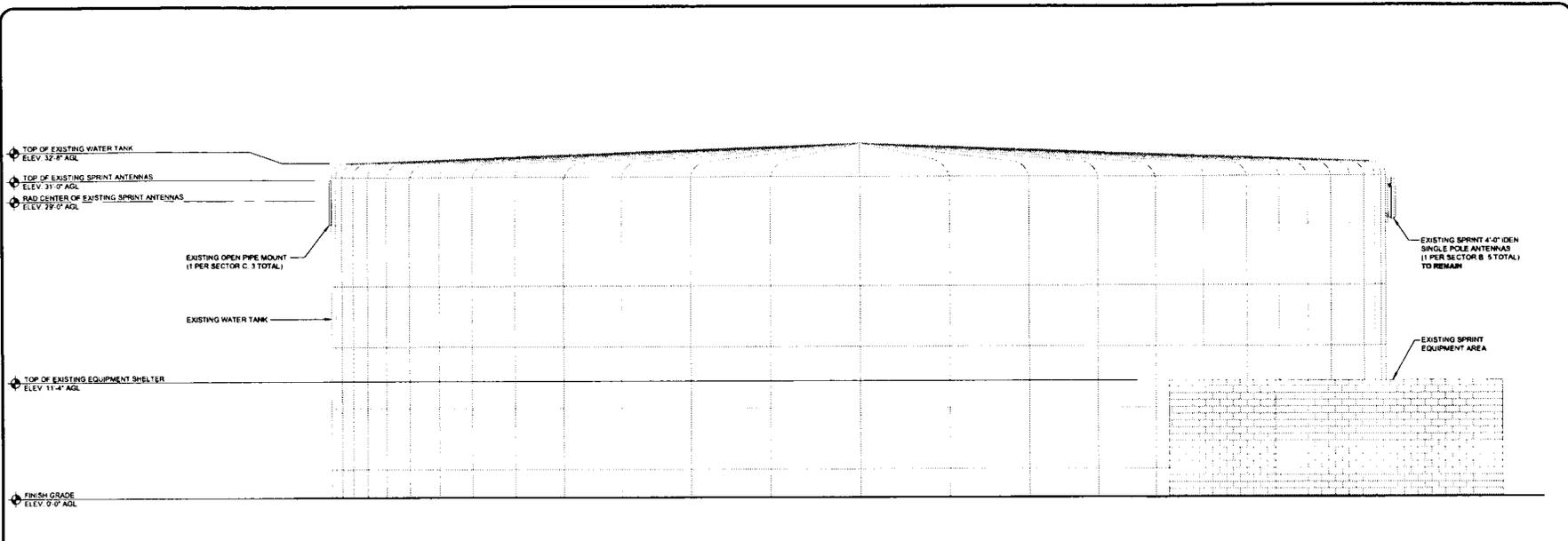
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SHEET TITLE:

WEST ELEVATIONS

SHEET NUMBER: REVISION:

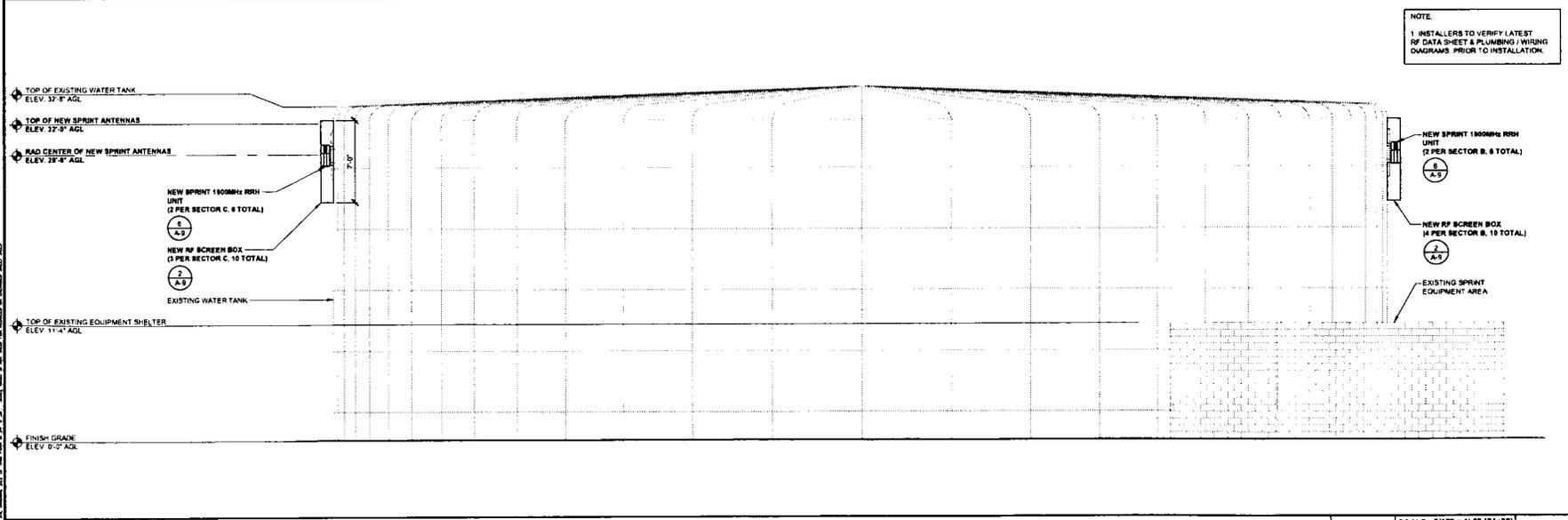
A-7 A



EXISTING WEST ELEVATION

0 1.5' 3" 5" SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17) **1**

NOTE:
1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING / WIRING DIAGRAMS PRIOR TO INSTALLATION.



FINAL WEST ELEVATION

0 1.5' 3" 5" SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17) **2**



PLANS PREPARED BY:

**Technology Associates
Engineering Corporation Inc.**
SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD. STE. 300
SAN DIEGO, CA 92123

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COTTONWOOD

SD73XC157

12118 CAMPO ROAD
SPRING VALLEY, CA 92078

ISSUE DATE:

04/04/2013

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REV	DATE	DESCRIPTION	BY
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A	04/04/13	ISSUED FOR 100% FINAL CD	SMS

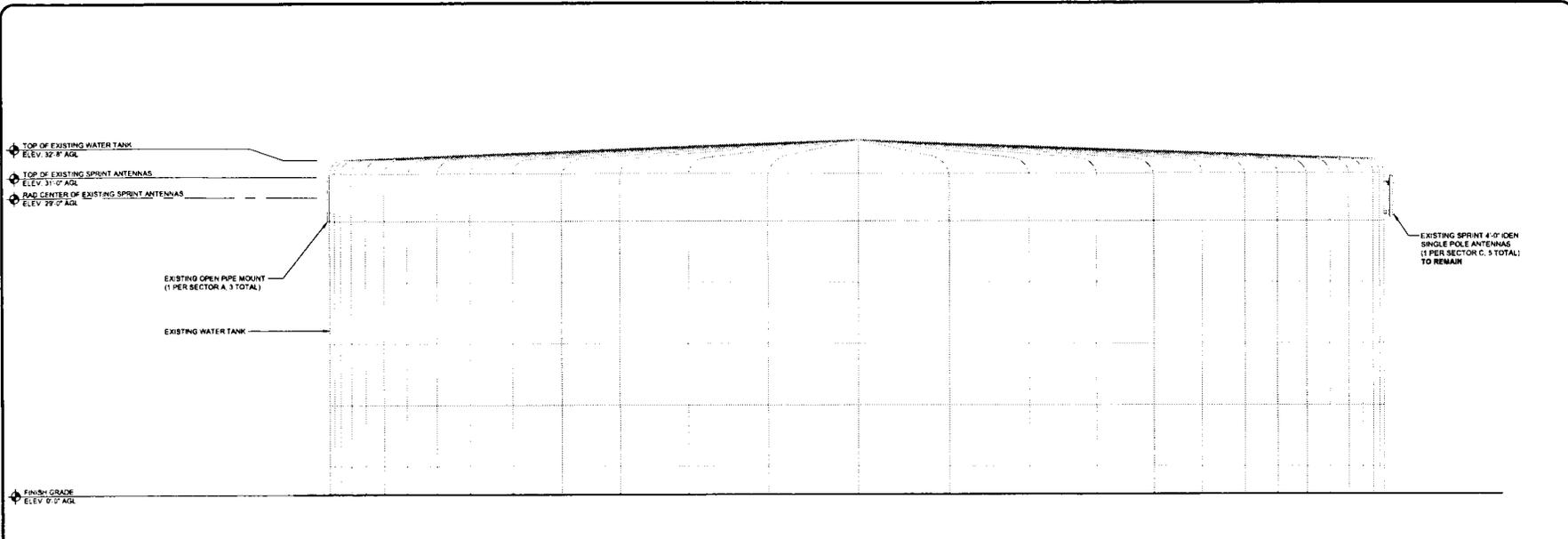
LICENSURE:

SHEET TITLE:

NORTH ELEVATIONS

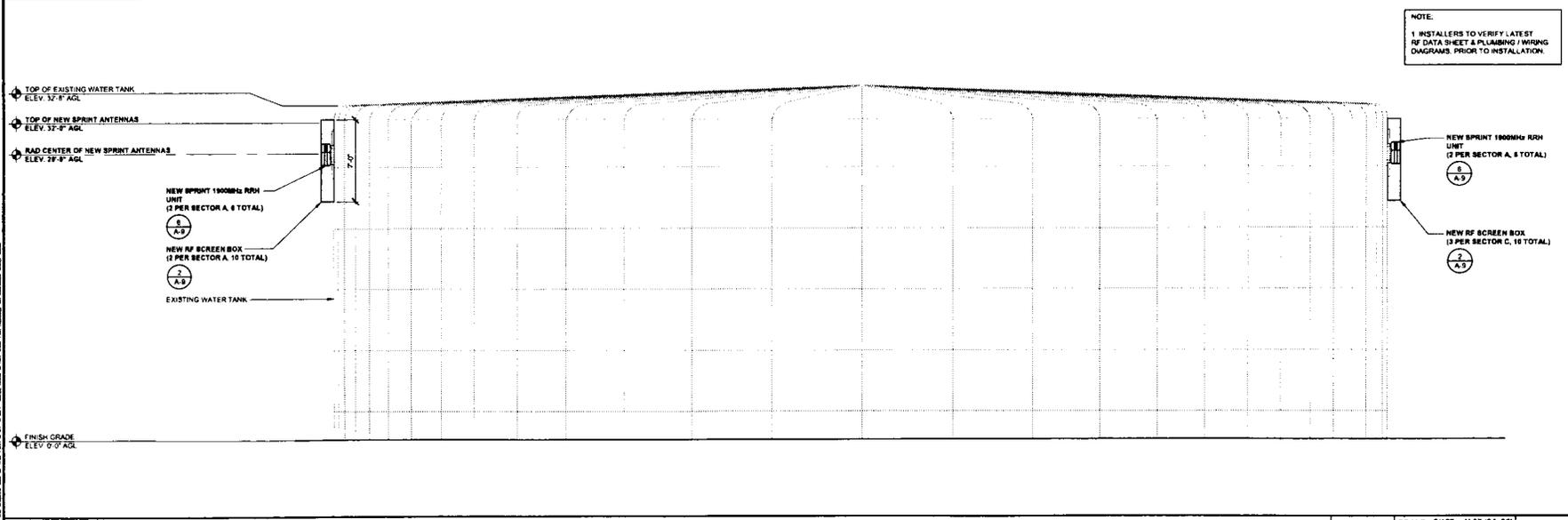
SHEET NUMBER: REVISION:

A-8 A



EXISTING NORTH ELEVATION

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(OR) 3/32" = 1'-0" (11x17) **1**



FINAL NORTH ELEVATION

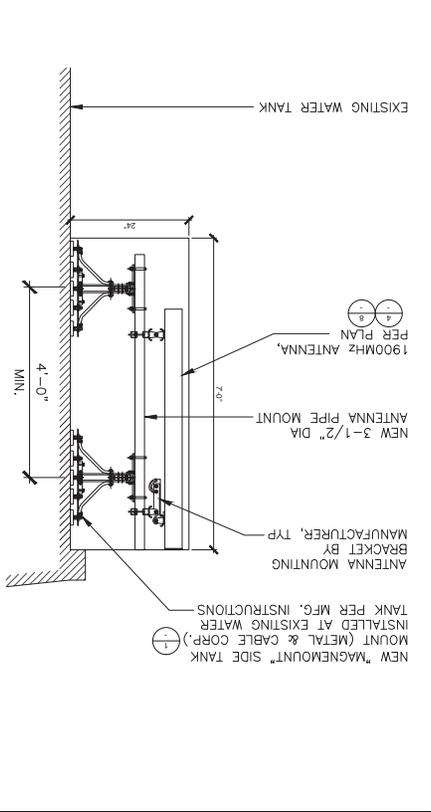
0 1.5' 3" 5" SCALE: 3/16" = 1'-0" (24x36)
(OR) 3/32" = 1'-0" (11x17) **2**

NOT USED

SCALE N.T.S.

2

ANTENNA MOUNTING DETAIL SCALE N.T.S.

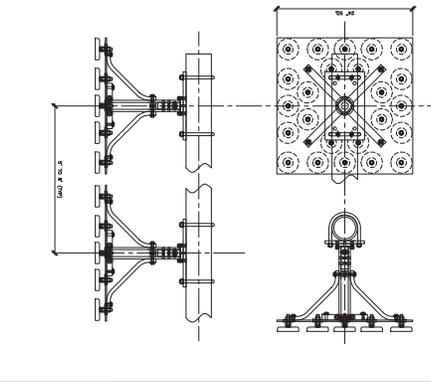


"MAGMOUNT" SIDE TANK MOUNT SPECIFICATIONS

SCALE N.T.S.

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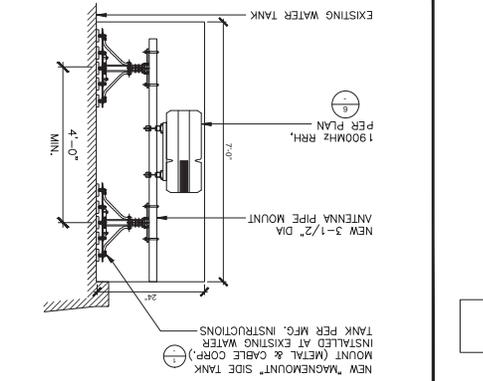
ANTENNA MOUNTING DETAIL SCALE N.T.S.



1900MHz RRH SPECIFICATIONS SCALE N.T.S.

6

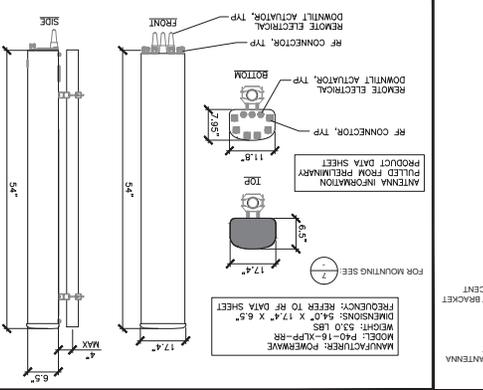
RRH MOUNTING DETAIL SCALE N.T.S.



RRH MOUNTING DETAIL SCALE N.T.S.

5

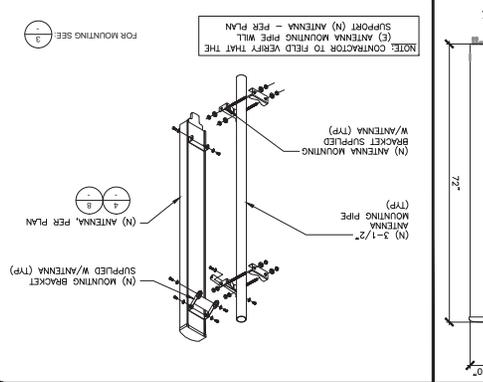
ANTENNA SPECIFICATIONS SCALE N.T.S.



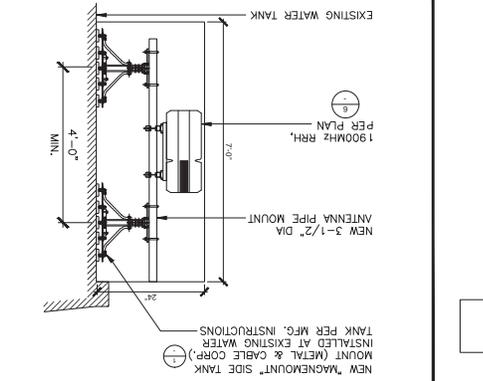
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ANTENNA MOUNTING SCALE N.T.S.

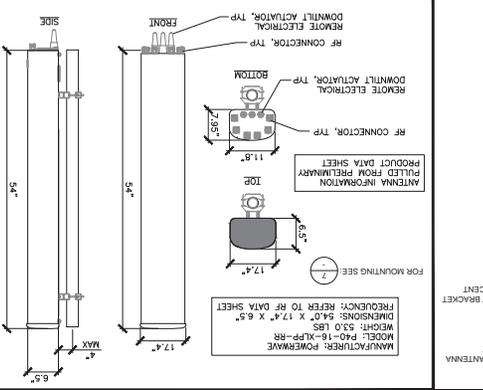


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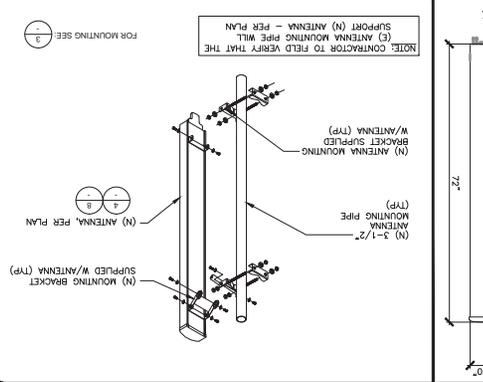
ANTENNA MOUNTING SCALE N.T.S.

8



RRH MOUNTING DETAIL SCALE N.T.S.

3



A-9 A

REVISIONS: SHEET NUMBER: ANTENNA DETAILS SHEET TITLE:

LICENSURE:

REV.	DATE	DESCRIPTION	BY	CHKD.
0	04/04/13	ISSUED FOR 90% CD REVIEW	NAB	
1	04/04/13	ISSUED FOR 100% FINAL CD	SWS	

REVISIONS

100% FINAL CD

ISSUED FOR: 04/04/2013

ISSUE DATE:

COTTONWOOD SD73XC157 NETWORK VISION MABTS LAUNCH 12118 CAMPO ROAD SPRING VALLEY, CA 92078

PROJECT INFORMATION: PROPRIETARY INFORMATION

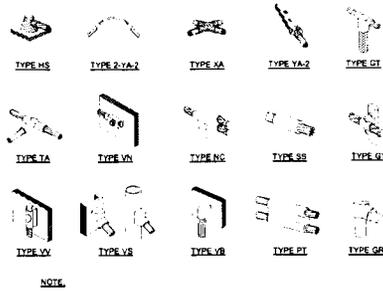
Technology Associates Engineering Corporation Inc. SAN DIEGO MARKET OFFICE 5473 KEARNY WILLA RD, STE. 300 SAN DIEGO, CA 92123

Alcatel-Lucent PLANS PREPARED BY: 9605 SCOTLAND RD, SUITE 400 SAN DIEGO, CA 92123

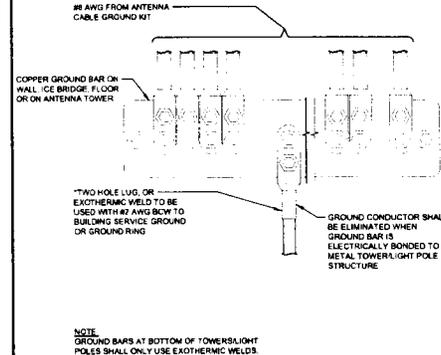


ELECTRICAL GROUNDING SPECIFICATIONS

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
- ALL GROUNDING DEVICES SHALL BE UL LISTED FOR THEIR INTENDED USE.
- GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
- CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CAD-WELDED) UNLESS OTHERWISE NOTED AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AT WEIRLESS BROADBAND STANDARDS.
- GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. WHEN REQUIRED, GROUND LEADS SHALL BE BENT TO A MINIMUM OF 6" RADIUS.
- WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING, INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 5' BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
- ALL GROUND BARS SHALL BE TINNED, 1/4" COPPER, SECTOR BARS 2" COLLECTOR AND MGB BARS 4" OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBLING LUGS, AND EACH INSTALLED WITH INSULATORS. WHEN CONNECTING GROUND BARS WITHIN 10 FEET OF GRADE, DIRECTLY TO THE GROUND RING, 2 EA. #2 SOLID DOWNLEADS SHALL BE CAD-WELDED TO THE GROUND BAR, 1 AT EACH OPPOSITE BOTTOM CORNER, AND EACH SHALL RUN IN 1/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING. WHEN CONNECTING SECTOR GROUND BARS, DRAIN CHAIN THE GROUND BARS AND RUN 1 EA. #2 AWG STRANDED COPPER WIRE WITH THIN INSULATION FROM THE MIDDLE GROUND BAR TO THE GROUND RING AND CAD-WELDED TO THE RING.
- WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2 HOLE COMPRESSION LUGS SHALL BE USED. PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF COPPER SHIELD OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
- WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #8 AWG STRANDED COPPER WIRE WITH INSULATION SHALL BE ATTACHED UTILIZING A 2 HOLE COMPRESSION TYPE LUG PROTECTED WITH WEATHERPROOF HEAT SHRINK. A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW.
- PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO SHINY METAL. FOLLOWING CAD-WELDED CONNECTIONS TO NON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT, "COLD GALV" OR EQUIVALENT.
- GROUND RODS SHALL BE COPPER-CLAD STEEL 6#X10, SPACED NO LESS THAN 10' ON CENTER. ERICO BRAND.
- ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE, UV RATED CLAMPS, BRACKET, AND/OR SUPPORTS.
- WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE NEW GROUNDING SYSTEM IS EQUAL TO OR LESS THAN 5 OHMS. A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE AT&T REPRESENTATIVE.
- ALL MATERIALS AND HARDWARE SHALL BE INSTALLED IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DESIGNED IN PART 7 AND APPROVED BY A.E.L.
- ALL ANTENNA MOUNTING PIPES MUST BE GROUND TO A BUSS BAR, EACH WITH ITS OWN GROUND LEAD.



NOTE:
ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.



NOTE:
GROUND BARS AT BOTTOM OF TOWER/LIGHT POLES SHALL ONLY USE EXOTHERMIC WELDS.

NOTES

1

EXOTHERMIC WELDING

SCALE
N.T.S.

3

GROUND WIRE CONNECTION

SCALE
N.T.S.

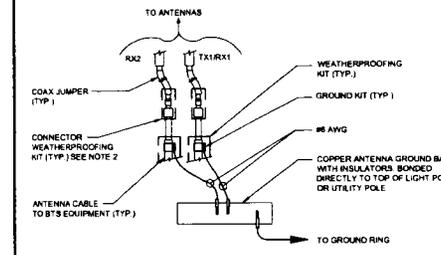
4

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COPPER GROUND ROD		TEST WELL
	MECHANICAL CONNECTION		GROUND BAR
	EXOTHERMIC WELD (CADWELDED/OTHERMOWELD)		SIDE SPLICE CADWELD
	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM		

KEY NOTES:

- ANTENNA GROUND BUSS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT. SEE DETAIL 601 FOR GROUND BAR CONSTRUCTION.
- #8 AWG GROUND FROM ANTENNA GROUND BUSS BAR TO THE INTO EXISTING EQUIPMENT GROUNDING SYSTEM (TYP OF (2) PLACES).
- #8 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUSS BAR (TYP OF 1).
- #8 AWG GROUND FROM RRH UNITS TO ANTENNA GROUND BUSS BAR.
- #8 AWG GROUND FROM H-FRAME TO THE INTO EXISTING GROUND BUSS BAR.
- #2 AWG GROUND FROM BBU CABINET TO TIE INTO EXISTING GROUND BUSS BAR.
- EXISTING GROUND BUSS BAR NEAR EQUIPMENT WITH COAX GROUND KIT. SEE DETAIL 601 FOR GROUND BAR CONSTRUCTION.
- #8 AWG GROUND FROM EXISTING GROUND BUSS BAR TO TIE INTO EXISTING ANTENNA GROUNDING SYSTEM (TYP OF (2) PLACES).
- CAD WELD (TYP).
- #8 AWG GROUND FROM FIBER JUNCTION BOX TO TIE INTO EXISTING GROUND BUSS BAR.
- QC SHALL VERIFY (2) #8 AWG THREE GROUND LEADS FROM EACH OF TWO REMOTE INDIVIDUAL BUSES TO BE COLLECTED AT ONE MAIN MGB AND FURTHER ROUTED TO EXISTING BUILDING STEEL OR OTHER EXISTING DESIGNATED BUILDING GROUNDING SYSTEM FINAL DESIGNATED POINT OF GROUNDING TO BE COORDINATED BETWEEN CM, GC AND BUILDING OWNER).
- #2 AWG GROUND FROM MODELL CABINET TO TIE INTO EXISTING GROUND BUSS BAR.

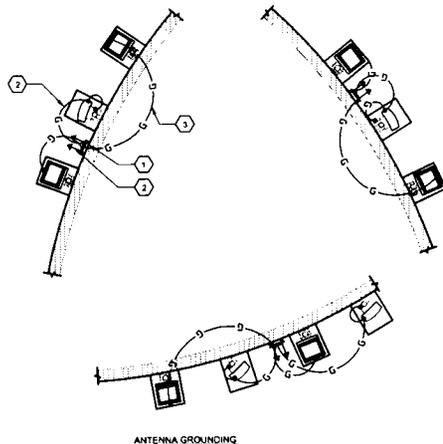


NOTE:
DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

ANTENNA GROUND KIT

SCALE
N.T.S.

5

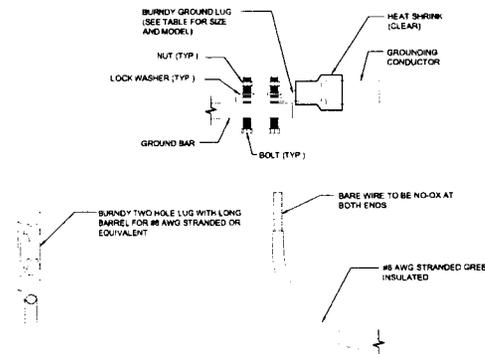


ANTENNA GROUNDING

WIRE SIZE	BURNDY LUG	BOLT SIZE
#8 AWG GREEN INSULATED	YA8C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#25 AWG STRANDED	YA28-2TC38	3/8" - 16 NC S 2 BOLT
#15 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT

NOTES:

- ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT WHERE ALL DISSIMILAR METALS CONNECT.
- COPPER SHIELD, ANTI-OX OR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
- ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



FINAL ANTENNA GROUNDING PLAN

SCALE: 3/8" = 1'-0" (24x38)
OR: 3/16" = 1'-0" (11x17)

2

MECHANICAL LUG CONNECTION

SCALE
N.T.S.

6



PLANS PREPARED BY:

**Technology Associates
Engineering Corporation Inc.**
SAN DIEGO MARKET OFFICE
5473 KEARNEY VILLA RD., STE. 300
SAN DIEGO, CA 92123

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SD73XC157
12118 CAMPO ROAD
SPRING VALLEY, CA 92078

ISSUE DATE:

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100% FINAL CD

REVISIONS

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0	03/26/13	ISSUED FOR 90% CD REVIEW	NAB
A	04/04/13	ISSUED FOR 100% FINAL CD	SM5

LICENSURE:

SHEET TITLE:

ANTENNA GROUNDING

SHEET NUMBER:

REVISION:

G-1 A

FIRST AMENDMENT TO LEASE

This First Amendment to Lease (the "First Amendment") is made this day of ____, 2013, ("Effective Date") by and between Otay Water District ("OTAY") and Sprint PCS Assets, L.L.C., a Delaware limited liability company ("TENANT"), with reference to the facts set forth in the Recitals below:

RECITALS

- A. OTAY is the owner of that certain real property located on 2554 Sweetwater Springs Boulevard, Spring Valley, California (the "Property").
- B. OTAY and TENANT are parties to that certain Lease dated August 24, 2000 (the "Lease" or "Agreement") pursuant to which TENANT is leasing from OTAY land at the Property, together with the right of access to and from the nearest public right-of-way and the right to install utilities (collectively, the "Premises").
- C. Tenant has requested a modification to the type and mounting of the Improvements currently on the Premises (the "New Improvements").
- D. OTAY and TENANT have agreed to amend the Agreement to memorialize the addition of the New Improvements to the Premises.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. **New Improvements.** OTAY consents to TENANT construction and installation of new communications facilities, as more particularly described and depicted on Exhibit "B-1" which is attached hereto and made a part hereof. The parties acknowledge and agree that the attached Exhibit "B-1" is intended to supplement the Exhibit "B" attached to the Agreement.
- 2. **Governmental Approvals.** Any required permits for the use or operation of the New Improvements shall be obtained by TENANT at TENANT's sole expense. Furthermore, it is understood and agreed that TENANT's ability to install the New Improvements is contingent upon its obtaining all of the certificates, permits and other approvals that may be required by any Federal, State or Local authorities which will permit TENANT to install and operate the New Improvements within the Premises. OTAY agrees, at no expense to OTAY, to reasonably cooperate with TENANT in making application for and obtaining all governmental licenses, permits and approvals that may be required for TENANT'S intended use of the Premises.
- 3. **Amended Provisions.** The following provisions shall be amended as follows:
 - 3a. Section 5; Rent shall be replaced with the following:

5.1 Tenant agrees to pay all costs and expenses incurred by Otay in connection with the Facilities and this Agreement, including negotiation and processing hereof, plan checking and inspection of Tenant facilities, costs of inspection, repairs or replacement of any Otay facilities affected or damaged, and all other costs or expenses of Otay attributable to the matters herein contemplated, plus a reasonable amount for Otay's overhead costs in connection therewith.

a. **Deposit.** Tenant has made a deposit, concurrent with its application, and has agreed to make any additional deposits required in connection with Otay's review of the application, negotiation of this Agreement, including legal review, site visits, review of drawings and other costs relating such matters incurred by Otay up to the time this Agreement is executed. Tenant forfeits any claim to such deposits except to the extent Otay determines after this Agreement is executed that amounts in excess of the District's costs and expenses have been paid. Any such excess amounts may, at the sole discretion of the District, be credited toward administrative fees or any other costs then due by Tenant, if any. If no amounts are due, excess deposits will be reimbursed to Tenant.

b. **Administrative Fees.** Administrative fees may be charged at Otay's discretion during the Term to recover costs and expenses incurred by Otay, including but not limited to attorneys and consultant's fees, review, processing of Tenant's conditional use permits, inspection of the Facilities during construction and other related costs if any, in connection with any Tenant activity that requires Otay staff to spend time in supervision, inspection, investigation or other review; such costs include but are not limited to any amendments to this Agreement, any default or any failure of Tenant to secure or renew any permit, approval, license or easement and any investigation Otay deems reasonably required in connection with the Premises or the Facilities, including without limitation any investigation of a potential contamination of any portion of the Property due to any Tenant activity or improvement.

c. **Security Deposit.** Concurrently upon execution of this Agreement, Tenant shall pay to Otay a sum equal to two months' rent as a deposit ("Security Deposit") to secure the Tenant's performance of the covenants contained herein. Tenant shall maintain the Security Deposit balance equal to the amount established herein over the life of the agreement. If Otay applies any portion of the Security Deposit, Tenant shall within 30 days after demand by Otay, deposit an amount sufficient to restore the Security Deposit to its original amount. No part of the Security Deposit is to be considered as an advance payment of rent, including last months' rent, nor is it to be used or refunded prior to the leased premises being permanently and totally vacated by the Tenant. After the Tenant has vacated the premises, Otay shall furnish Tenant with an itemized written statement of the basis for, and the amount of, any of the security deposit retained by Otay. Otay may withhold that portion of Tenant's security deposit necessary (a) to remedy any default by Tenant in the payment of rent or any other provision

of this Agreement, (b) to repair damages to the premises or any expense, loss, or damage that Otay may suffer because of Tenant's default, (c) to restore the premises to meet Otay's standards, (d) any amount that Otay may incur or become obligated to spend in exercising Otay's rights under this Agreement or available at law. The unused portion of this deposit shall be returned to the Tenant without interest no later than 60 days after termination of this Agreement.

Tenant waives the provisions of California Civil Code §1950.7, and all other provisions of law now in force or that become in force after the date of execution of this Agreement, that provide that Otay may claim from a security deposit only those sums reasonably necessary to remedy defaults in the payment of accrued Rent, to repair damage caused by Tenant, or to clean the Premises. Otay and Tenant agree that Otay may, in addition, claim those sums reasonably necessary to compensate Otay for any other foreseeable or unforeseeable loss or damage caused by the act or omission of Tenant or Tenant's officers, agents, employees, Independent contractors, or invitees, including future rent payments.

d. None of the deposits or other payment of costs or administrative fees constitutes or shall be considered Rent (defined below).

5.2 Beginning on the Commencement Date, Tenant shall pay Otay as rent the sum of \$2,000.00 per month ("Rent") payable on the first day of each month in advance. If the Commencement Date is prior to the fifteenth day of the month of commencement, the full month's Rent will be due on the Commencement Date. If the Commencement Date is on or after the fifteenth day of the month of commencement, payment of Rent will begin the first day of the following month.

Tenant may make Rent payments up to 5 days past due date without penalty, unless continual late payments for two consecutive months occur. A fee shall be imposed after the 5th day and shall be 20% of the amount currently due. Failure to pay Rent within ten (10) calendar days of the first of the month shall be an Event of Default as provided by Section 13.2. Failure to pay Rent on the due date for more than two (2) consecutive months or four (4) times over any twelve (12) month period shall be a non-curable Event of Default without the necessity of any notice or cure period. At District's sole discretion, immediately following such a non-curable Event of Default, District may terminate the Agreement and seek any remedy available by this Agreement or at law. If Tenant tenders a check, which is dishonored by a banking institution, then the Tenant shall tender cash or cashier's check only for all future payments, which shall continue until such time as written consent is obtained from Otay. In addition, Tenant shall be liable in the sum of \$25 for each dishonored check that is returned to Otay.

a. Rent Increases. The Rent shall be increased on each calendar anniversary of the Commencement Date at a rate of four percent (4%) per annum or the annual Consumer Price Index change ("CPI"), whichever is greater. CPI shall be the average percentage increases in the consumer price index published by the United States Department of Labor, Bureau of Labor Statistics (1982-1984 = 100)

(the "CPI") for "All Items – All Urban Consumers" for the San Diego Metropolitan Statistical Area.

3b. Section 7; Improvements, and Section 8; Installation of Equipment shall be replaced with the following:

7. Installation and Maintenance of Improvements. Tenant is authorized to install, maintain and operate on the Premises only the Facilities described and depicted on Exhibit B; provided that all permits and zoning approvals shall have first been obtained by Tenant and shall at all times while the Facilities operate remain in full force and effect.

a. Installation of the Improvements. Tenant's design and installation of all portions of the Facilities shall be done, at no cost to Otay, according to plans approved by Otay, provided that such approval shall not be unreasonably withheld. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay of the method of attachment at Otay's sole discretion. If such Facilities are to be attached or mounted to a water tank, Tenant shall use an installation method such as a magnetic mount or other, non-destructive alternative. The Tenant shall be responsible for painting its antennas and/or equipment to match Otay's facility. Otay will provide Tenant with specifications regarding paint type, color and application method to accomplish this requirement. Painting/coating submittals shall be provided to Otay by the Tenant prior to receiving permission to begin painting. Otay may specify a camouflage design if not inconsistent with requirements of the city or county within which the Facilities are located. These camouflage designs may include but are not limited to faux palm trees, pine trees, cypress trees, broadleaf trees, and flag poles, unipoles, and other camouflaged antenna and antenna supports.

b. Record Drawings. Within thirty (30) days after completion of the Facilities, Tenant shall provide Otay with "record" (also called "as-built") drawings of the Facilities showing and identifying all the equipment and improvements installed on the Premises. Said drawings shall be accompanied by a complete and detailed inventory of all equipment, including without limitation all personal property and antennas located on the Premises and any such property of Tenant located in the Easement. No property of Tenant other than such identified property shall be located on the Premises or the Property at any time. Upon acceptance by Otay of Tenant's record drawings, in form and content satisfactory to Otay, such drawings shall replace and supersede any similar drawings contained in any exhibit attached hereto.

c. Alterations. Tenant shall not alter or change its Improvements in a material manner without the prior approval of Otay, such approval not to be unreasonably withheld. "Material" refers to any physical change that could affect the building structure, antenna support, interconnecting facilities or its appearance

or any change that requires access to the Premises for installation of new equipment, removal of old equipment, trenching or digging or that could disrupt Otay's workplace or communications in any way or any change that requires a renewed or amended easement, permit or approval. All of Tenant's construction and installation work shall be performed at Tenant's sole cost and expense in a good and workmanlike manner and fully compliant with all government permit and code requirements. Tenant shall have the right to remove all Improvements it installs at its sole expense on or before the expiration or termination of this Agreement, but must at such time restore the ground and surface underlying the removed Improvements to its pre-installation condition, wear and tear excepted, and to the reasonable satisfaction of Otay.

d. Alterations to Improvements / Additional Space. If, at any time during the Term, Tenant requests permission from Otay to add improvements requiring construction to its then existing Improvements, the then current Administrative Fees shall be paid to Otay before any such changes are negotiated. In addition, if the requested Tenant improvements include additional area, a new agreement or, at Otay's discretion, an amendment for the additional lease space must be executed prior to start of construction and Tenant shall comply with Otay's requirements then in effect, including payment of additional rent, if any, for the additional area.

e. Permits and Compliance with Applicable Laws. During the Term, and prior to commencing any construction or installation of any improvements or equipment, as applicable, Tenant shall obtain all necessary approvals, permits and access easements or licenses, all of which shall be maintained in full force and effect at all times in accordance with all applicable laws, rules and regulations.

i. Prior to commencing construction, Tenant shall deliver to Otay copies of all executed licenses, approvals and permits required by local, state or federal agency in connection with the Improvements, which permits shall be attached hereto as Exhibit B.

ii. From time to time, as required by law or regulation in connection with the normal operation of the Improvements or as needed due to improvements or alterations to the same, Tenant shall provide Otay with updated permits, licenses and/or approvals, including without limitation written evidence, satisfactory to Otay, of all FCC approvals and other governmental permits and approvals, including but not limited to compliance with the FCC's electromagnetic radiation rules, set forth at 47 C.F.R. § 1.1307 et seq. and FCC Office of Engineering and Technology Bulletin 65, each as hereafter amended.

iii. Otay agrees, at no expense to Otay, to reasonably cooperate with Tenant in making application for and obtaining all governmental licenses,

permits and approvals that may be required for Tenant's intended use of the Premises.

f. Utilities. Tenant shall be authorized to install utilities for the Premises and the Improvements at Tenant's expense and to improve the present utilities on or near the Premises (including, but not limited to the installation of an emergency back-up power) subject to Otay's approval of the location, route, design and capacity, which approval shall not be unreasonably withheld. Tenant shall fully and promptly pay for all utilities furnished to the Premises for the use, operation and maintenance of Tenant's Improvements. If inadequate electrical power is available to provide for the Improvements, or additional electrical power is required to be installed on the Premises by Otay in its sole discretion, such installation shall be at Tenant's sole expense. The location, route, design and capacity of the additional power facility shall be approved by Otay, which shall not be unreasonably withheld.

g. Repair of Otay's Improvements/Systems. Any damage done to the Property or to any Otay improvement, facility or system in connection with the construction, installation, maintenance, repair, improvement, replacement or operation of the Improvements shall be repaired or replaced immediately at Tenant's expense and to Otay's reasonable satisfaction by Otay staff or contractors approved by Otay. Tenant shall not locate or attach any antennas or other equipment to any of Otay's facilities without the prior written approval of Otay. Tenant shall pay all costs and expenses in relation to maintaining the integrity of Otay's facilities, improvements and systems affected in any way by Tenant's Improvements or its use of the Property or the Premises.

h. Maintenance and Repair. At all time during the Term, Tenant shall maintain the Premises and the Improvements in a manner acceptable to Otay. Tenant's use of its Improvements shall not at any time or in any way adversely impact, impede or interfere with Otay's access to, use or operation of, its improvements, equipment or systems.

i. Liens. Tenant shall not encumber or allow the Premises or the Property to be encumbered in any manner other than as expressly authorized herein.

j. Security. Tenant recognizes and agrees that the Premises and the Reservoir Site are a sensitive area and that Otay's operations and services are highly sensitive and regulated. Tenant shall provide for the proper supervision of all Tenant Parties assigned or allowed by Tenant to enter and do work at the Premises. Tenant also agrees, holding Otay harmless for any cost or expense, to comply with any and all security measures instituted by Otay from time to time.

8. Maintenance, Repair or Replacement of Otay's Improvements. At any time while this Agreement remains in effect, Otay may, at its option and upon One Hundred Eighty (180) days prior written notice to Tenant, remove or cause

Tenant to remove all or any portion of its Facilities at Tenant's expense, in order for Otay to paint, repair, or make replacements to any or all its improvements on the Premises (the "Maintenance or Replacement Work"), as deemed necessary by Otay in its sole discretion. Tenant agrees to fully cooperate with Otay's efforts in connection with any Maintenance or Replacement Work, including without limitation timely, and at Tenant's cost, removing and re-installing any portion of the Facilities, as requested by Otay.

a. Temporary Facilities. During the Maintenance or Replacement Work, Tenant may, holding Otay harmless from any cost or expense, install temporary antennas on the Premises subject to Otay's approval of the location and type of replacement facilities, such approval shall not be unreasonably withheld or delayed. Once the Maintenance or Replacement Work is completed by Otay, Tenant agrees to promptly dismantle any temporary facilities and to relocate the facilities to their original location or to any other location approved by Otay. All work related to the removal of any portion of the Facilities, installation of temporary facilities, dismantling, relocation to their original location and any related work, shall be done at Tenant's sole cost and expense and in good and workmanlike manner.

b. Repair of damage. Tenant shall repair any damage caused by Tenant in connection with the installation, maintenance, operation or removal of any temporary facilities or the Facilities, and Tenant shall restore any distributed portions of the Property to their condition immediately prior to the installation of the temporary facilities.

c. Otay's option to remove temporary facilities. If any temporary facilities are not removed within sixty (60) days from the date the Maintenance or Replacement Work is completed, Otay shall have the right, but not the duty, to remove the temporary facilities at Tenant's cost and expense.

d. Painting of the Facilities. If the Maintenance or Replacement Work includes the painting, or any work affecting the surface of Otay's improvements, the Tenant shall be responsible for repainting or performing other surface treatment of its antennas and equipment to match Otay's. Otay will provide specifications to the Tenant regarding the treatment, paint type, color and application method to accomplish this requirement. The Tenant shall be required to obtain approval of specifications from Otay prior to commencing work on this requirement. Subject to Otay's prior written consent, Tenant may substitute an alternate treatment, paint type and application method if it reasonably determines that Otay's selection will adversely affect or otherwise degrade Tenant's wireless signal from the Reservoir Site.

3c. Section 9; Co-Location shall be replaced with the following:

9.1. Co-Location by Otay. Tenant agrees that Otay may enter into leases or other types of agreements with other communication carriers, wireless communications carriers and other utilities for use of any portion of the "Reservoir Site" as long as said leases do not result in unreasonable interference with Tenant's use of or access to the Premises. Tenant shall reasonably cooperate with Otay's efforts in this regard including, at Otay's request, the relocation of, or changes to, the Facilities; provided that any alterations or relocation needed to accommodate the new carrier or utility shall be performed at the expense of Otay or the new carrier or utility.

9.2. Co-Location by Tenant - Subleasing/Encumbrance. Tenant shall not sub-lease or sub-license or otherwise encumber the Premises or any portion of the Facilities without Otay's prior written consent, which may be granted or denied at Otay's sole discretion. Any sub-lease or other encumbrance shall require an amendment to this Agreement and shall specify the terms and conditions, including making provision for rent and increases thereto for the sub-lease or other encumbrance.

3d. Section 13; Termination shall be replaced with the following:

13.1 Termination.

(a) This Agreement may be terminated by Tenant without further liability if:

(i) Tenant delivers to Otay 30-day written notice at any time prior to commencing any work at the Premises in connection with the installation of any Facilities, for any reason or no reason;

(ii) Tenant gives Otay sixty (60) days' notice of Tenant's determination that a governmental or non-governmental license, permit, consent, approval, easement or waiver necessary to enable Tenant to construct, install or operate the Facilities cannot be obtained or renewed at reasonable expense or in reasonable time period for wireless sites at water reservoirs in metropolitan areas within San Diego County. If this notice is given, Tenant must immediately cease any and all transmissions through and from the Premises and shall promptly remove, within a period of time not to exceed sixty (60) days, any and all Tenant's personal property and improvements from the Property. This Agreement and any related easements shall automatically expire upon the earlier of removal of the Tenant's improvements or the 60th day from the notice; excepting only Tenant's indemnities and liabilities hereunder, including the obligation to pay Rent for any holdover period. Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated.

(iii) Tenant determines at any time after the Commencement Date that the Premises are not appropriate or suitable for its operations for economic, environmental or technological reasons, including without limitation, any ruling or directive of the FCC or other governmental or regulatory agency, or problems with signal strength or interference not encompassed by subsection (iv) below; provided that the right to terminate under this subsection (iii) is exercisable only upon payment by Tenant, as a termination fee, of the lesser of twelve monthly installments of rent or the balance of the rent due for the then current Initial Term, Extension Term or Additional Term, as applicable; and Tenant agrees that Otay may, without any liability or recourse against Otay, commit to re-let the Premises to other parties immediately upon receipt of the notice herein contemplated;

(iv) Otay commits a default under this Agreement and fails to cure pursuant to Section 13.2, below;

(v) The Property or the Premises are totally or partially destroyed by fire or other casualty (not caused by Tenant) so as to hinder Tenant's normal operations and Otay does not provide to Tenant within thirty (30) days after the casualty occurs a suitable temporary relocation site for Tenant's facility pending repair and restoration of the Premises; or

(vi) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

(b) This Agreement may be terminated by Otay without further liability if:

(i) Tenant commits a default under this Agreement and fails to cure such default pursuant to Section 13.2, below;

(ii) Otay determines that continuing the Agreement or continuing to allow the Tenant to construct, install, maintain or operate the Facilities in any way violates a law, rule or regulation; or

(iii) If Tenant and Otay cannot reasonably agree on the location of a replacement Easement pursuant to Section 2 herein.

13.2 Default.

a. Event of Default. The parties covenant and agree that a default or breach of this Agreement (an "Event of Default") shall occur and be deemed to exist if, after notice and opportunity to cure as provided below:

(i) Tenant shall default in the payment of Rent, or any other amounts due Otay hereunder, and said default shall continue for ten (10) business days after the same becomes due; or

(ii) Either party shall default in the performance or observance of any other covenant or condition of this Agreement to be performed or observed if such failure persists for a period of thirty (30) days after the non-defaulting party provides written notice of the default to the defaulting party.

b. Rights upon Default. Upon the occurrence of an Event of Default, in addition to any other rights or remedies available to the non-defaulting party under any law, the non-defaulting party shall have the right to terminate the Agreement.

c. Cure Rights. An Event of Default shall not exist unless written notice has been given in accordance with this Agreement, and the defaulting party has had the opportunity to cure as provided herein. The defaulting party shall cure the alleged default within the manner provided herein; provided however, that if the nature of an alleged default is such that it cannot reasonably be cured within such thirty (30) day period, the defaulting party shall not be in breach of this Agreement if it diligently commences a cure within such period, and thereafter diligently proceeds with the actions necessary to complete such cure.

3e. Section 17; Indemnity, shall be replaced with the following:

Tenant specifically agrees that it shall hold harmless, defend (with counsel, and if needed experts, reasonably acceptable to Otay), indemnify and otherwise protect Otay and each Otay Party, from and against all claims, suits or actions of any kind and description relating to (a) Tenant's obligations under this Agreement and any amendment hereto or (b) Tenant or Tenant Parties use of, and access to, the Premises, the Facilities or the Property. These obligations extend to and include without limitation any and all costs and expenses (including attorney's fees and court costs) incurred by Otay or the Otay Parties in connection with (i) damage to property (including the Premises, the Property or any personal property of Otay or any third party), (ii) any action or proceeding (including an enforcement action or criminal proceeding) related in any way to any permit (governmental or otherwise), approval or easement obtained by or required of Tenant in connection with this Agreement or the Facilities; and (iii) personal injury or death, except to the extent that such claims, suits or actions directly arise from the gross negligence or willful misconduct of Otay or an Otay Party. This indemnification clause in no way limits any other specific indemnities given by Tenant under other provisions of this Agreement.

Nothing contained herein shall prohibit Otay, in its sole discretion, from participating in the defense of any demand, claim, action, proceeding, or litigation. In no event shall Otay's participation in the defense of any demand

claim, action, proceeding, or litigation affect the obligations imposed upon Tenant herein.

This and all other Tenant indemnities shall survive the termination of this Agreement and shall remain in effect for as long as the underlying claim or action remains viable.

3f. Section 19; Assignment, shall be replaced with the following:

Tenant shall not assign this Agreement or any portion of its rights or obligations hereunder without Otay's prior written consent, except to an affiliated parent entity, subsidiary, purchaser of at least 50% of the aggregate of the assets of Tenant ("assets" means and includes without limitation any and all real, personal or financial property or thing owned or controlled by Tenant or over which Tenant has an interest) or holder of Tenant's FCC license.

a. If during the Term hereof, Tenant requests the written consent of Otay to any assignment, and upon demonstration satisfactory to Otay of the proposed assignee's legal, financial, and technical qualifications to assume all of the Tenant's duties and obligations herein, Otay's consent thereto shall not unreasonably be withheld. Consent to one assignment shall not be deemed consent to any subsequent assignment.

b. Any attempted assignment not permitted under the first paragraph of this Section 19, without Otay's prior consent as set forth in Section 19(a), shall be void and, at Otay's option, shall constitute a termination of this Agreement for which a termination fee as described in Section 13.1.a(iii) shall be immediately due.

c. Any assignment of this Agreement shall require an executed "Assignment of Lease" whether or not the Consent of Otay is required pursuant to this section 19 or any other provision of this Agreement. A sample form of the "Assignment of Lease" is attached to this Agreement as Exhibit F which may be amended or modified in Otay's sole discretion.

4. **Continued Effect.** Except as specifically modified by this First Amendment, all of the terms and conditions of the Agreement shall remain in full force and effect. In the event of a conflict between any term or provision of the Agreement and this First Amendment, the terms and provisions of this First Amendment shall control. In addition, except as otherwise stated in this First Amendment, all initially capitalized terms will have the same respective defined meaning stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this First Amendment.

5. **Administrative Fees.** TENANT shall pay OTAY the amount of \$4,500 within (30) days of the date of execution of this Amendment by OTAY and TENANT.

6. **Current Rent.** The current monthly Rent amount at the Effective Date of this First Amendment is \$2,783.39.

IN WITNESS WHEREOF, OTAY and TENANT have caused this First Amendment to be executed by each party's duly authorized representative effective as of the date first above written.

OTAY WATER DISTRICT:

Sprint PCS Assets, L.L.C.,
a Delaware limited liability company, :

By: _____
Name: Mark Watton
Title: General Manager
Date: _____

By: 
Name: Matthew Bell
Title: Manager Real Estate
Date: 5 / 29 / 2013

Approved as to Form:

Approved as to Form:

By: _____
OWD General Counsel

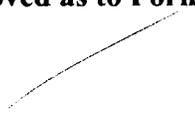
By: 
Its: _____

Exhibit B-1

NEW IMPROVEMENTS



NETWORK VISION MMBTS LAUNCH OTAY WATER DISTRICT OFFICE

**SD34XC534
ROOFTOP**

2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91977
CITY OF SAN DIEGO

LATITUDE: 32° 43' 26.7594" N (32.7241)
LONGITUDE: 116° 58' 4.8" W (-116.968)

SAN DIEGO MARKET



Know what's below.
CALL before you dig.

CALL AT LEAST TWO WORKING
DAYS BEFORE YOU DIG



PLANS PREPARED BY:

Technology Associates

SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD. STE. 300
SAN DIEGO, CA 92123

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL. TO SPENT ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO SPENT IS STRICTLY PROHIBITED.

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**OTAY WATER DISTRICT
OFFICE (8P)
SD34XC534**

2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91977

ISSUE DATE:

05/14/2013

ISSUED FOR:

FIELD SET

REVISIONS

REV	DATE	DESCRIPTION	BY
0	05/14/13	ISSUED FOR FIELD SET	AC

LICENSURE:



SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

0

CALIFORNIA STATE 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. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

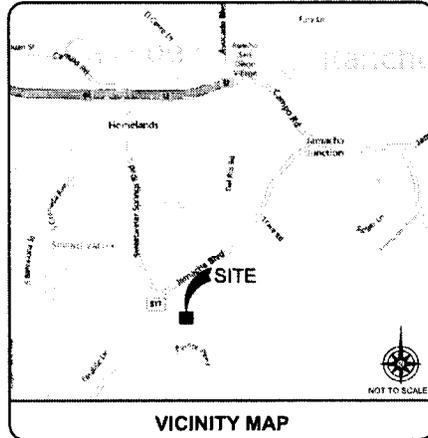
- CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2010
- 2010 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 CALIFORNIA MECHANICAL CODE
- ANS/IEA-22.7 LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE

ACCESSIBILITY REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

FCC NOTE:

THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.



VICINITY MAP

STARTING FROM SAN DIEGO AIRPORT, 3228 NORTH HARBOUR DRIVE, SAN DIEGO, CA 92101.

1. HEAD WEST ON AIRPORT TERMINAL RD
2. SLIGHT LEFT TO STAY ON AIRPORT TERMINAL RD
3. KEEP RIGHT AT THE FORK
4. TURN LEFT ONTO N HARBOUR DR
5. TURN LEFT ONTO W GARAGE ST
6. TAKE THE INTERSTATE 5 S RAMP
7. MERGE ONTO I-5 S
8. TAKE EXIT 148 TO MERGE ONTO CA-N E
9. TAKE EXIT 11 FOR SWEETWATER SPRINGS BLVD
10. TURN RIGHT ONTO SWEETWATER SPRINGS BLVD

DRIVING DIRECTIONS

SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY. THE PROJECT WILL CONSIST OF:

- REMOVE (6) EXISTING PANEL ANTENNAS
- REMOVE ALL RELATED COAX
- INSTALL (2) NEW 6" Ø (1) 4" Ø PANEL ANTENNAS
- INSTALL (3) NEW FIBER OPTICS CABLES USING EXISTING COAX ROUTE
- INSTALL (3) NEW RF SCREEN BOXES
- RETROFIT (1) EXISTING MODELL CABINET WITH NEW RADIO EQUIPMENT
- INSTALL (1) NEW BATTERY BACKUP CABINETS
- INSTALL (1) NEW FIBER JUNCTION BOX
- INSTALL (1) NEW CIENNA UNIT
- INSTALL (3) NEW RRHS
- INSTALL (3) NEW RRHS SLEDS
- PROPOSED SPRINT ALU BASE STATION EQUIPMENT TO BE PLACED WITHIN EXISTING ENTITLED EQUIPMENT FOOTPRINT

EXISTING WIRELESS FACILITIES:

- A TOTAL OF (1) WIRELESS COMMUNICATION FACILITY(S) EXISTING ON SITE

PROJECT DESCRIPTION

APPLICANT:

SPRINT
310 COMMERCE
IRVINE, CA 92602
CONTACT: GLOR. JAMES-SUAREZ
PROJECT MANAGER: ALU WEST AREA
NATIONAL SITE DEVELOPMENT
PHONE: (714) 588-0489

PROPERTY INFORMATION:

PROPERTY OWNER: OTAY WATER DISTRICT
ADDRESS: 2554 SWEETWATER SPRINGS BLVD
SPRING VALLEY, CA 91977
CONTACT: THOMAS J. HARRON
PH: 619-670-2297

ZONING CLASSIFICATION: M38
BUILDING CODE: CBC
CONSTRUCTION TYPE: V-N
OCCUPANCY: 5-2
JURISDICTION: CITY OF SAN DIEGO
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

PARCEL NUMBER(S):

305-230-18

LEASE AREA:

1,200 SQ. FT.

PROJECT SUMMARY

SHEET NO:	DESCRIPTION:
T-1	TITLE SHEET
T-3	NOTES & LEGAL DESCRIPTION
A-1	OVERALL SITE PLAN
A-3	EXISTING ANTENNA & EQUIPMENT PLANS
A-3A	DURING ANTENNA & EQUIPMENT PLANS
A-4	FINAL ANTENNA PLAN
A-4A	FINAL EQUIPMENT PLAN
A-5	EXISTING & FINAL NORTHEAST ELEVATIONS
A-6	EXISTING & FINAL SOUTHEAST ELEVATIONS
A-7	EXISTING & FINAL NORTHWEST ELEVATIONS
A-8	EXISTING & FINAL SOUTHWEST ELEVATIONS
A-9	ANTENNA DETAILS
A-10	EQUIPMENT DETAILS
A-11	ANTENNA CONNECTION DIAGRAM
A-12	ANTENNA CONNECTION DIAGRAM
A-13	ANTENNA CONNECTION DIAGRAM
A-14	ANTENNA CONNECTION DIAGRAM
F-1	FIBER SITE PLAN
F-2	FIBER EQUIPMENT PLAN
F-3	FIBER DETAILS
G-1	ANTENNA GROUNDING
G-1A	EQUIPMENT GROUNDING

SHEET INDEX

ARCHITECT:

TECHNOLOGY ASSOCIATES
5473 KEARNY VILLA ROAD #300
SAN DIEGO, CA 92123
CONTACT: ALEXANDER G. NAASZ
PH: (619) 300-2346 x 1515
EMAIL: alexander.naasz@tac.net

STRUCTURAL ENGINEER:

TECHNOLOGY ASSOCIATES
5473 KEARNY VILLA ROAD #300
SAN DIEGO, CA 92123
CONTACT: ALEXANDER G. NAASZ
PH: (619) 300-2346 x 1515
EMAIL: alexander.naasz@tac.net

SITE ACQUISITION PROJECT MANAGER:

ALCATEL-LUCENT
CONTACT: ALEX TSATUROV
PH: (619) 472-4048

CONSTRUCTION MANAGER:

ALCATEL-LUCENT
CONTACT: ROBERT OUADE
PHONE: (619) 220-3128

PLANNING CONSULTANT:

TECHNOLOGY ASSOCIATES
5473 KEARNY VILLA ROAD #300
SAN DIEGO, CA 92123
CONTACT: STEPHANIE VALDEZ
PHONE: (619) 300-2346 x 1331

POWER COMPANY:

SDG&E
PH: 1-800-336-7343

TELCO COMPANY:

AT&T
PH: 1-888-544-0447

PROJECT TEAM

CODE BLOCK

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

PROJECT MANAGER:	DATE:
CONSTRUCTION MANAGER:	DATE:
RF ENGINEER:	DATE:
TAC/SITE ACQUISITION:	DATE:
ALU SITE ACQUISITION:	DATE:
PLANNING CONSULTANT:	DATE:
PROPERTY OWNER:	DATE:
SPRINT REPRESENTATIVE:	DATE:

SIGNATURE BLOCK

BATTERY INFORMATION /NOTES:

BATTERY MFG MODEL NO ELECTROLYTE CONTENT PER BATTERY ELECTROLYTE HAZARD CLASSIFICATION PER 19 C.F.C. (87% SULFURIC ACID) NO. OF BATTERIES TO BE INSTALLED TOTAL ELECTROLYTE CONTAINED ON SITE (2 x 5.6)	EAST PENN MANUFACTURING 12VH-14N 2.17 GALLONS CORROSIVE 8 25 GALLONS MAX	A. QUANTITIES OF 500 GAL OR LESS ARE EXEMPT PER TABLE 3 E OF THE 2010 U.S.C. B. SINGLE VESSELS CAPACITIES OF 20 GAL OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GAL ARE EXEMPT PER ARTICLE 84 OF THE 2010 C.F.C. C. QUANTITIES LESS THAN 50 GAL ARE EXEMPT FROM C.F.C. ARTICLE 80, AND SHALL NOT REQUIRE TSDRI! D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2010 C.F.C. ARTICLE 84, AND SHALL NOT CONTAIN ELECTRICAL QUANTITIES IN EXCESS OF 50.
---	---	--

FIRE DEPARTMENT NOTES:

- A. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULED INSPECTION 2 DAYS IN ADVANCE.
- B. A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED F.O THE QUANTITIES ON SITE.
- C. A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
- D. A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
TOXIC LIQUID
CORROSIVE LIQUID
OTHER HEALTH HAZARD LIQUID

- E. AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
- F. BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
- G. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE FIRE INSPECTOR.
- H. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
- I. EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- J. ADDRESS NUMBERS SHALL BE A MINIMUM 8 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.
- K. REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
- L. REQUIRED SIGNAGE SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN (SEE SIGNAGE).

PARCEL 1
THAT PORTION OF SWEETWATER SPRINGS, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 576 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, JANUARY 15, 1989, DESCRIBED AS FOLLOWS:
BEGINNING AT THE INTERSECTION OF THE CENTERLINE OF SAN DIEGO COUNTY ROAD SURVEY NO. 826 WITH THE CENTERLINE OF SAN DIEGO COUNTY ROAD SURVEY NO. 193 AS SAID INTERSECTION IS SHOWN ON RECORD OF SURVEY MAP NO. 3233 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, THENCE SOUTH 46°09'47" EAST, 136.38 FEET; THENCE SOUTH 41°19'52" EAST, 89.08 FEET TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 24°42'27" WEST, 214.41 FEET; THENCE NORTH 15°20'34" WEST, 446.83 FEET; THENCE NORTH 15°43'50" EAST, 413.43 FEET TO ALGUNT WHOSE BEARS NORTH 48°15'57" EAST, 396.45 FEET TO THE TRUE POINT OF BEGINNING, CONTAINING 2.95 ACRES, MORE OR LESS.

PARCEL 2
THAT PORTION OF SWEETWATER SPRINGS, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 576 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, JANUARY 15, 1989, DESCRIBED AS FOLLOWS:
BEGINNING AT THE INTERSECTION OF THE CENTERLINE OF SAN DIEGO COUNTY ROAD SURVEY NO. 826 WITH THE CENTERLINE OF SAN DIEGO COUNTY ROAD SURVEY NO. 193 AS SAID INTERSECTION IS SHOWN ON RECORD OF SURVEY MAP NO. 3233 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, THENCE SOUTH 04°04'54" EAST, 166.38 FEET; THENCE SOUTH 41°19'52" EAST, 297.86 FEET; THENCE SOUTH 33°43'00" WEST, 160.0 FEET TO THE TRUE POINT OF BEGINNING; CONTAINING SOUTH 33°43'00" WEST, 253.45 FEET; THENCE NORTH 04°04'54" EAST, 70.50 FEET; THENCE NORTH 33°43'00" EAST, 157.88 FEET; THENCE NORTH 86°43'00" EAST, 41.96 TO THE TRUE POINT OF BEGINNING, CONTAINING 3.166 ACRES MORE OR LESS.

LEGAL DESCRIPTION

3

GENERAL NOTES

1

NOT USED

4

NOT USED

2

NOT USED

5



PLANS PREPARED BY:

Technology Associates
SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD., STE. 300
SAN DIEGO, CA 92123

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
OTAY WATER DISTRICT
OFFICE (8P)
SD34XC534
2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91977

ISSUE DATE:

04/11/2013

ISSUED FOR:

FIELD SET

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/11/13	ISSUED FOR FIELD SET	AG

LICENSURE:



SHEET TITLE:

NOTES & LEGAL DESCRIPTION

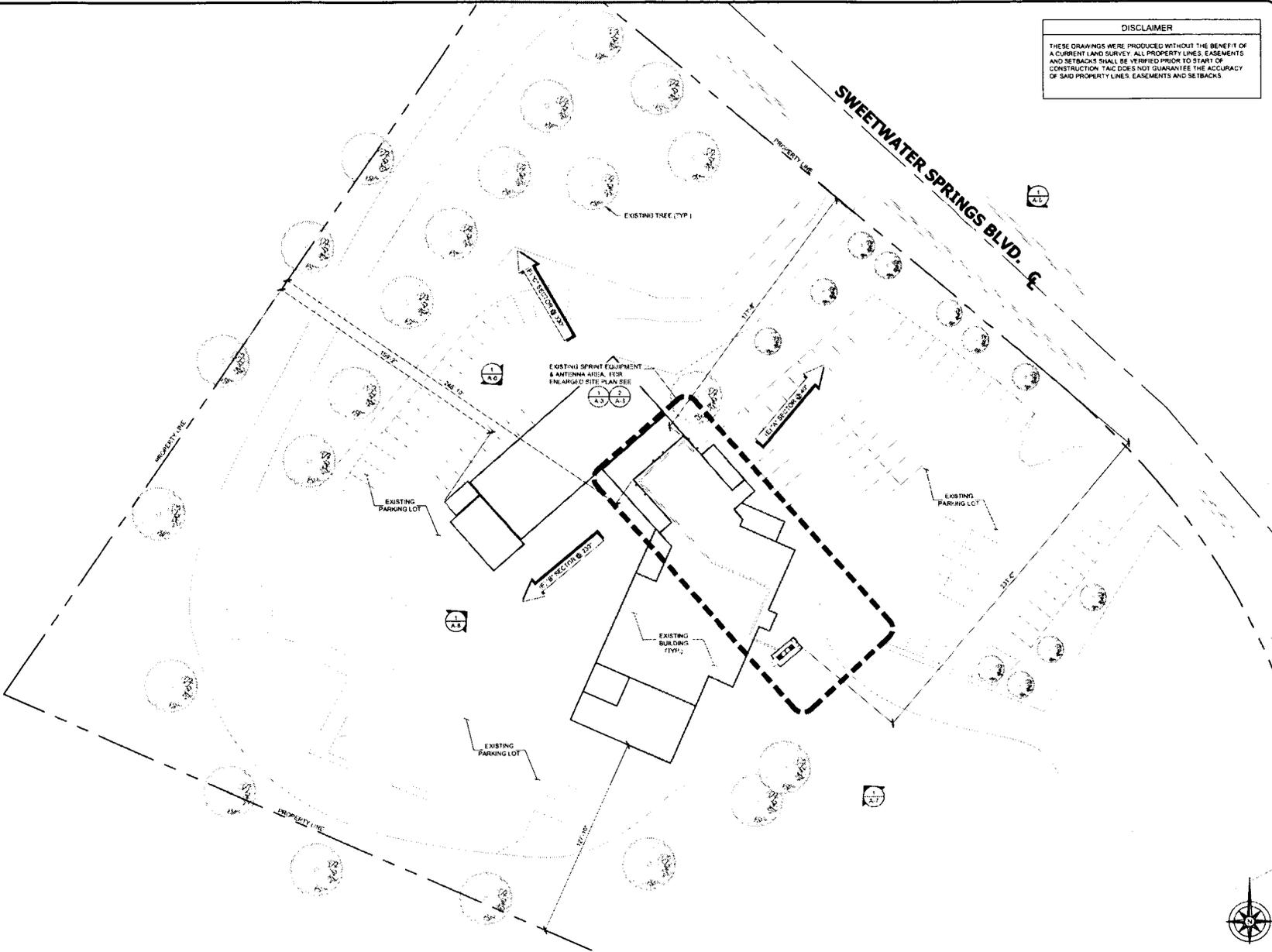
SHEET NUMBER:

REVISION:

T-3

0

DISCLAIMER
 THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. TAIC DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS AND SETBACKS.



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SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

A-1

REVISION:

0

OVERALL SITE PLAN

30' 0 15' 30" SCALE: 1" = 30'-0" (24x36)
 (OR) 1/2" = 30'-0" (11x17)



1



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LICENSURE:



SHEET TITLE:

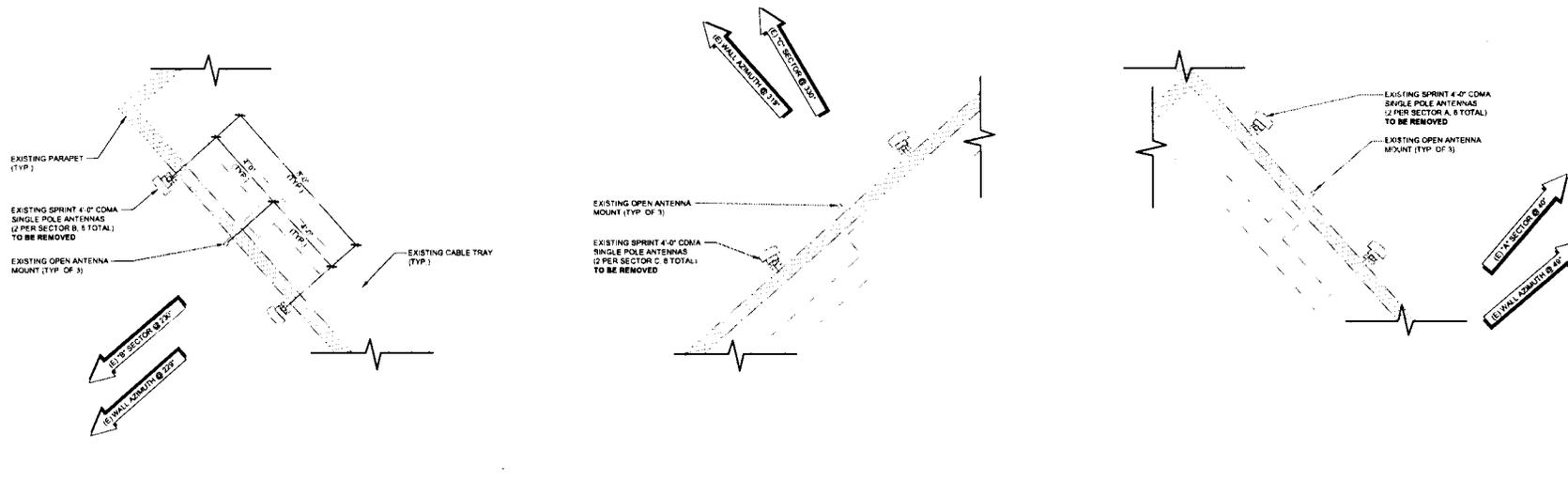
**EXISTING ANTENNA
& EQUIPMENT PLANS**

SHEET NUMBER:

A-3

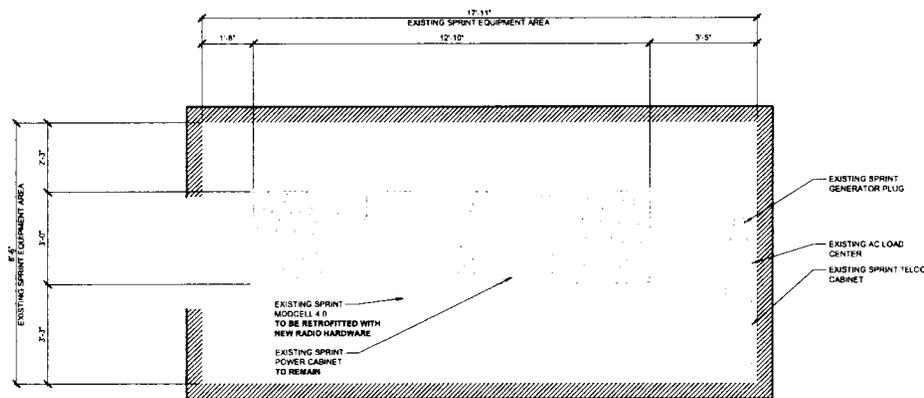
REVISION:

0



EXISTING ANTENNA PLAN

SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)



EXISTING EQUIPMENT PLAN

SCALE: 1/2" = 1'-0" (24x36)
(OR) 1/4" = 1'-0" (11x17)





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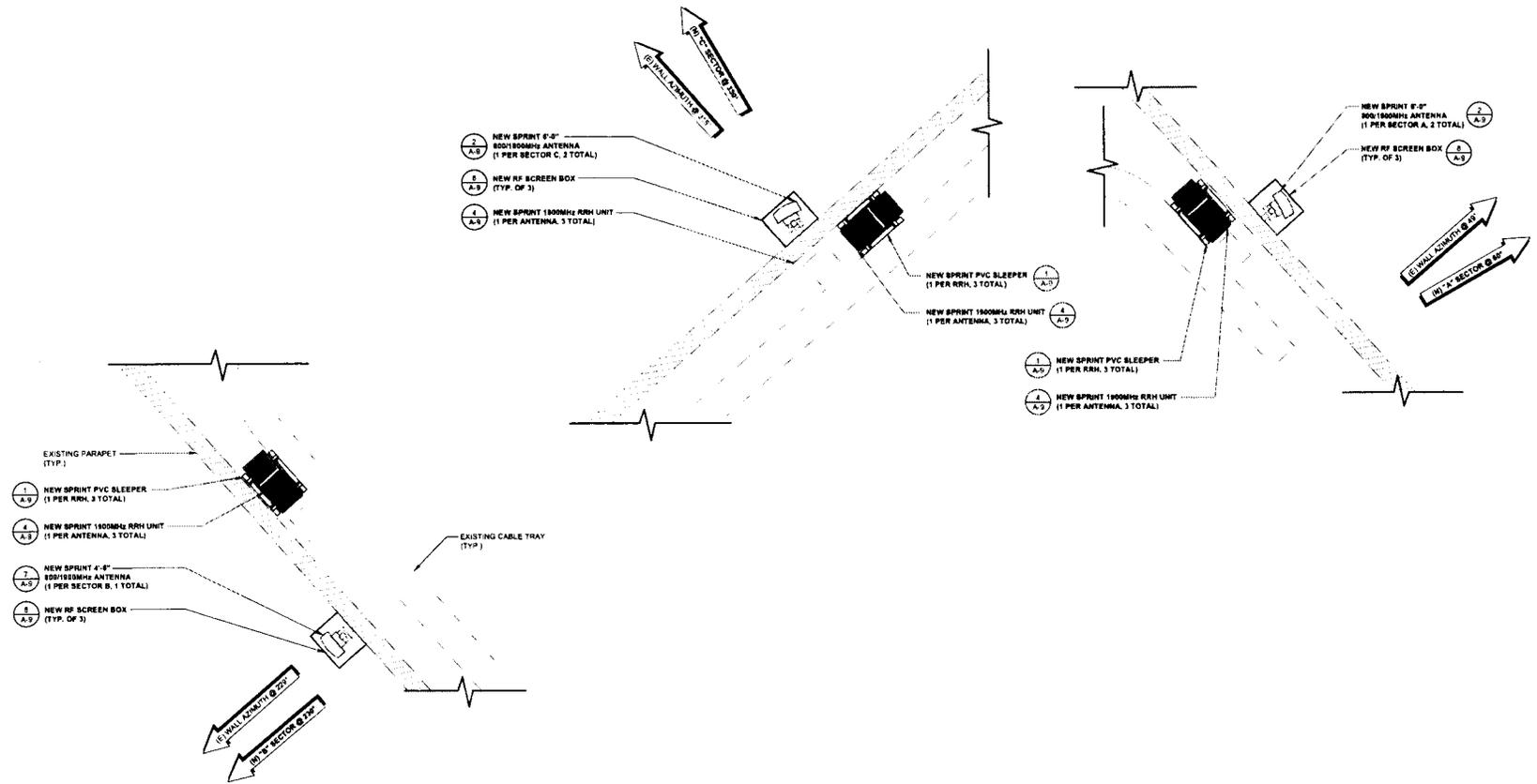
SHEET TITLE:

**FINAL ANTENNA
PLAN**

SHEET NUMBER: REVISION:

A-4 0

NOTE:
1. INSTALLERS TO VERIFY LATEST
OF DATA SHEET & PLUMBING / WIRING
DIAGRAMS, PRIOR TO INSTALLATION



COAX SCHEDULE

	SECTOR A	SECTOR B	SECTOR C	SECTOR D
1/2" HYBRIFLEX	± 225'	± 225'	± 225'	N/A
1/2" COAX JUMPER	± 10'	± 10'	± 10'	N/A

FINAL ANTENNA PLAN

SCALE: 1/2" = 1'-0" (24x36)
(OR) 1/4" = 1'-0" (11x17)



PLANS PREPARED BY:

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REV	DATE	DESCRIPTION	BY
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LICENSURE:



SHEET TITLE:

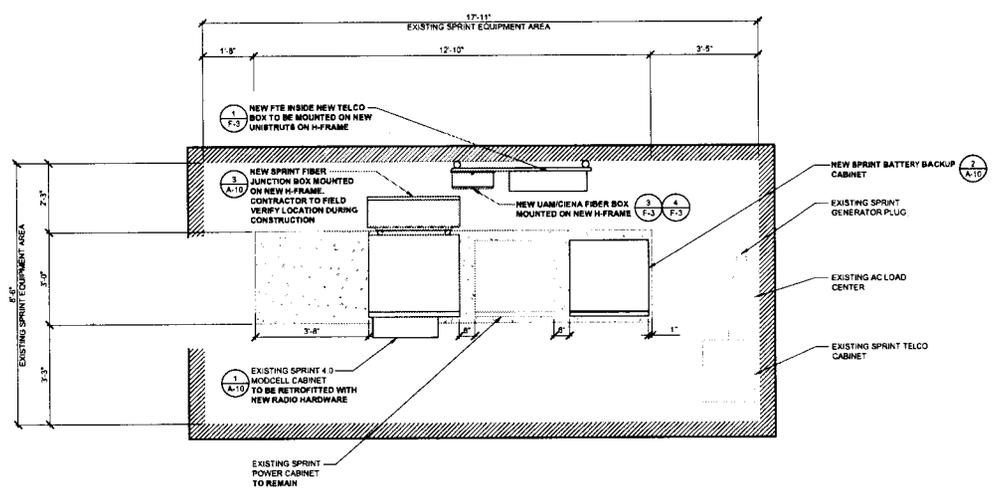
**FINAL EQUIPMENT
PLAN**

SHEET NUMBER:

A-4A

REVISION:

0

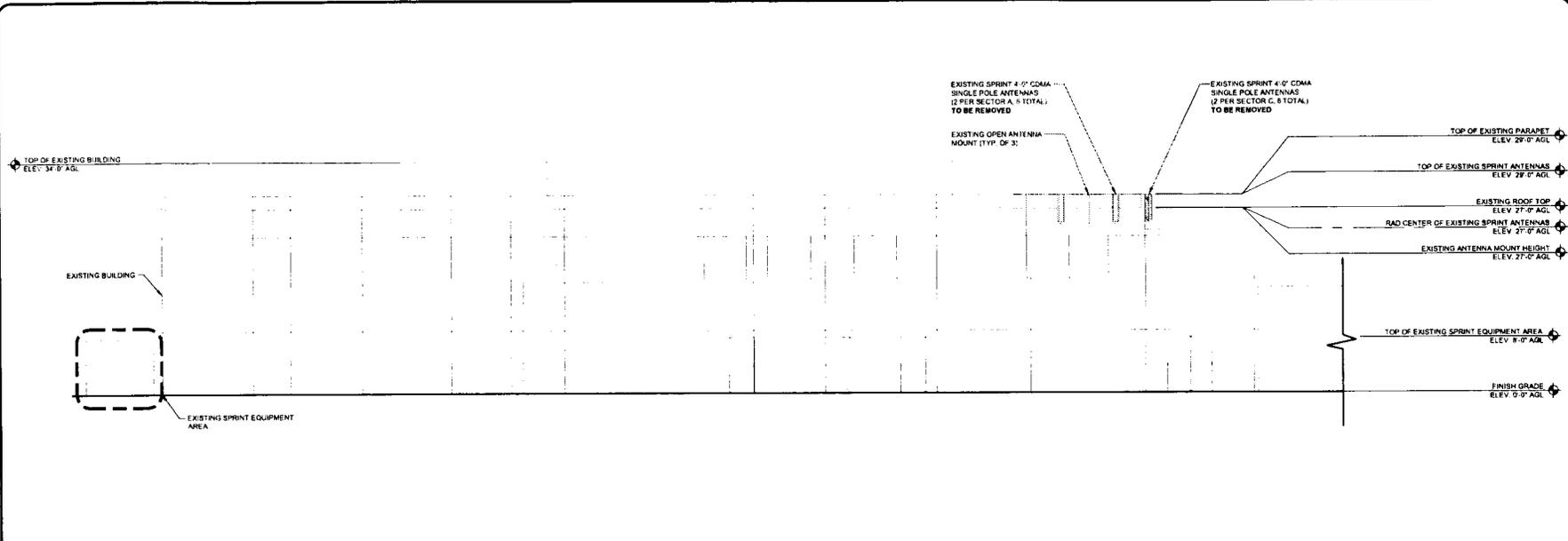


FINAL EQUIPMENT PLAN

SCALE: 1/2" = 1'-0" (24x36)
(OR) 1/4" = 1'-0" (11x17)



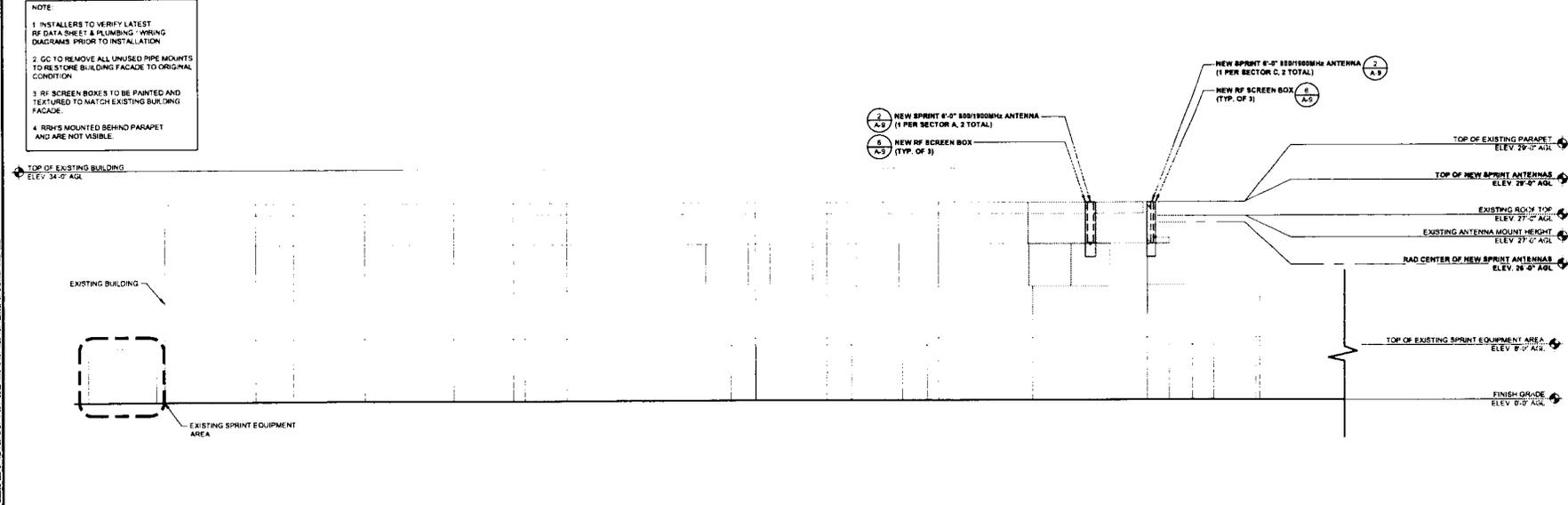
1



EXISTING NORTHEAST ELEVATION

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **1**

- NOTE:
1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING WIRING DIAGRAMS PRIOR TO INSTALLATION
 2. GC TO REMOVE ALL UNUSED PIPE MOUNTS TO RESTORE BUILDING FACADE TO ORIGINAL CONDITION
 3. RF SCREEN BOXES TO BE PAINTED AND TEXTURED TO MATCH EXISTING BUILDING FACADE.
 4. RRHS MOUNTED BEHIND PARAPET AND ARE NOT VISIBLE



FINAL NORTHEAST ELEVATION

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **2**



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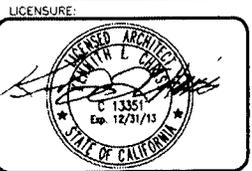
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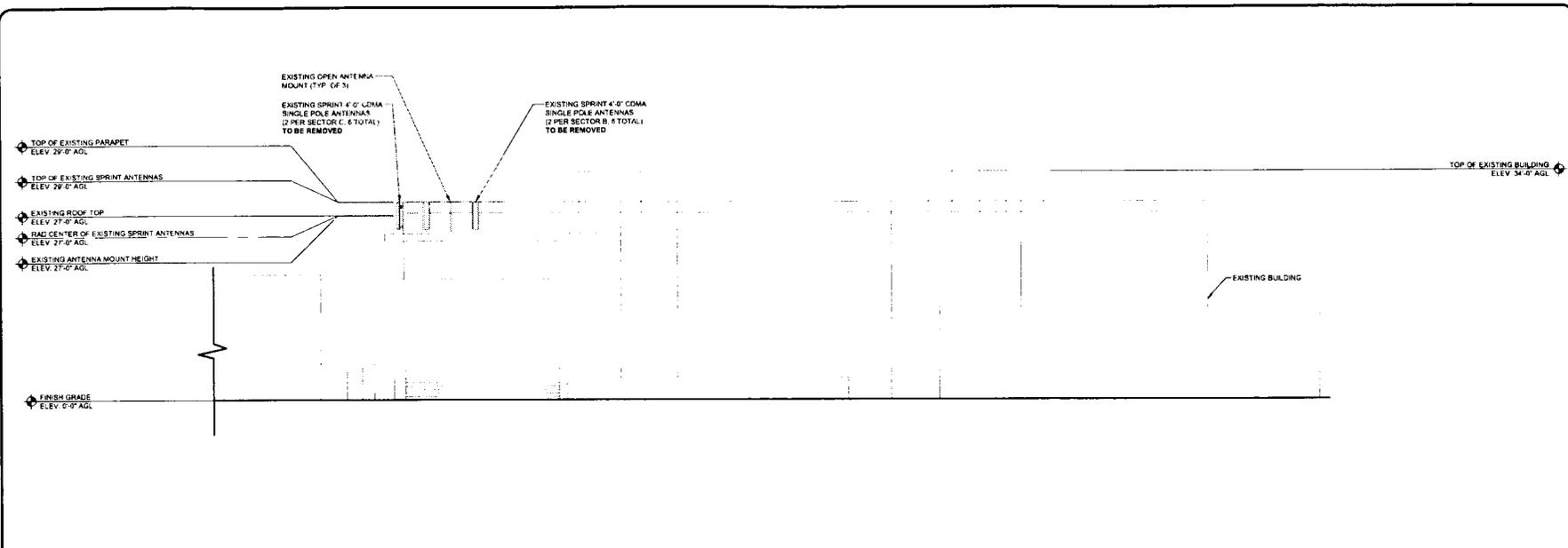
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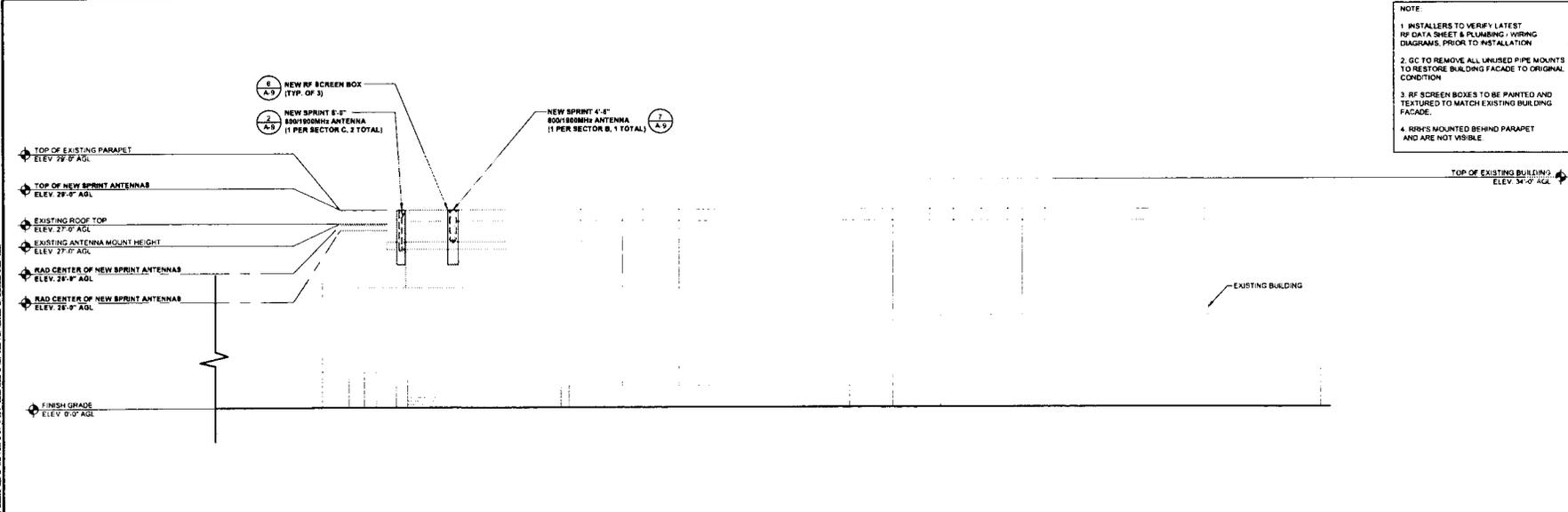
SHEET TITLE:
NORTHEAST ELEVATIONS

SHEET NUMBER: **A-5** REVISION: **0**



EXISTING SOUTHWEST ELEVATION

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **1**



FINAL SOUTHWEST ELEVATION

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **2**

NOTE:
1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING / WIRING DIAGRAMS, PRIOR TO INSTALLATION.
2. GC TO REMOVE ALL UNUSED PIPE MOUNTS TO RESTORE BUILDING FACADE TO ORIGINAL CONDITION.
3. RF SCREEN BOXES TO BE PAINTED AND TEXTURED TO MATCH EXISTING BUILDING FACADE.
4. SPRINT MOUNTED BEHIND PARAPET AND ARE NOT VISIBLE.



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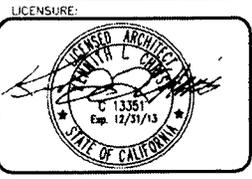
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ISSUE DATE:
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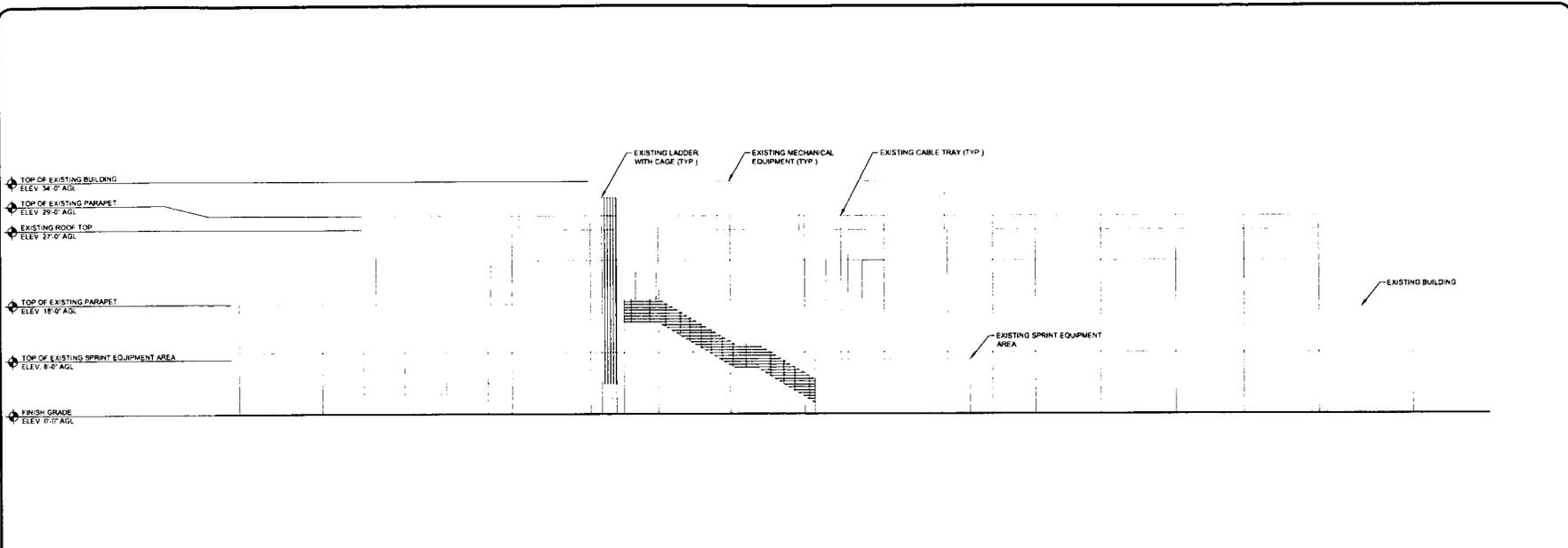
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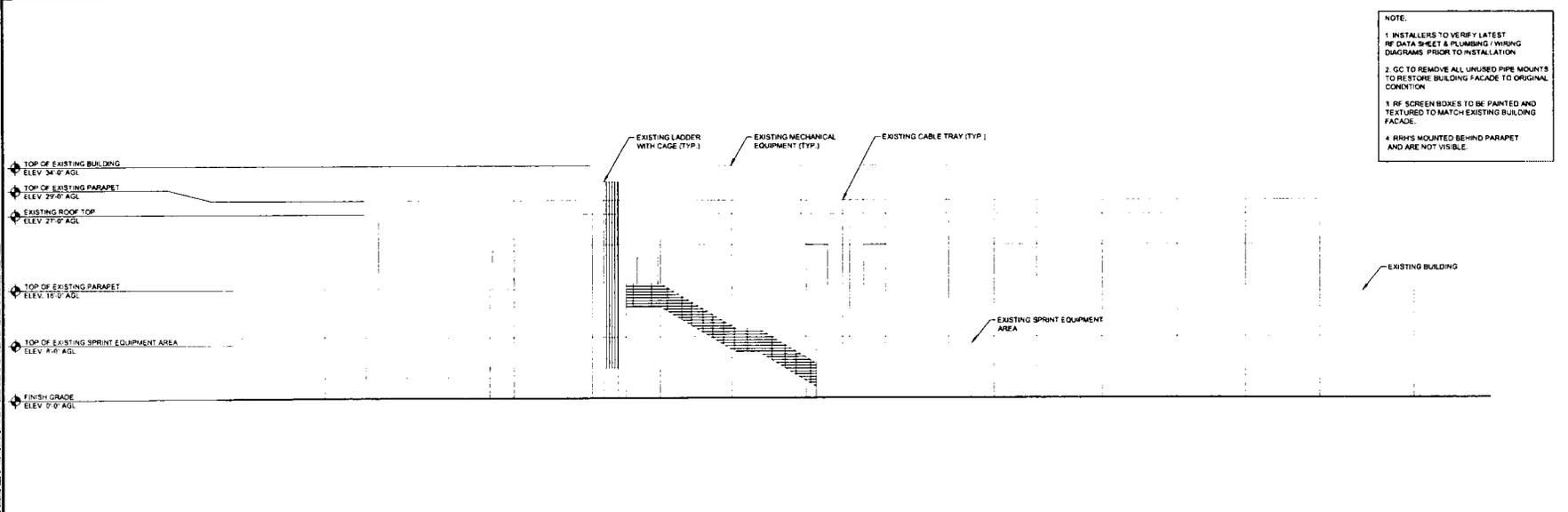


SHEET TITLE:
SOUTHWEST ELEVATIONS

SHEET NUMBER: **A-6** REVISION: **0**



EXISTING SOUTHEAST ELEVATION SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **1**



FINAL SOUTHEAST ELEVATION SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **2**



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LICENSURE:



SHEET TITLE:

SOUTHEAST ELEVATIONS

SHEET NUMBER:

REVISION:

A-7 0



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SHEET TITLE:

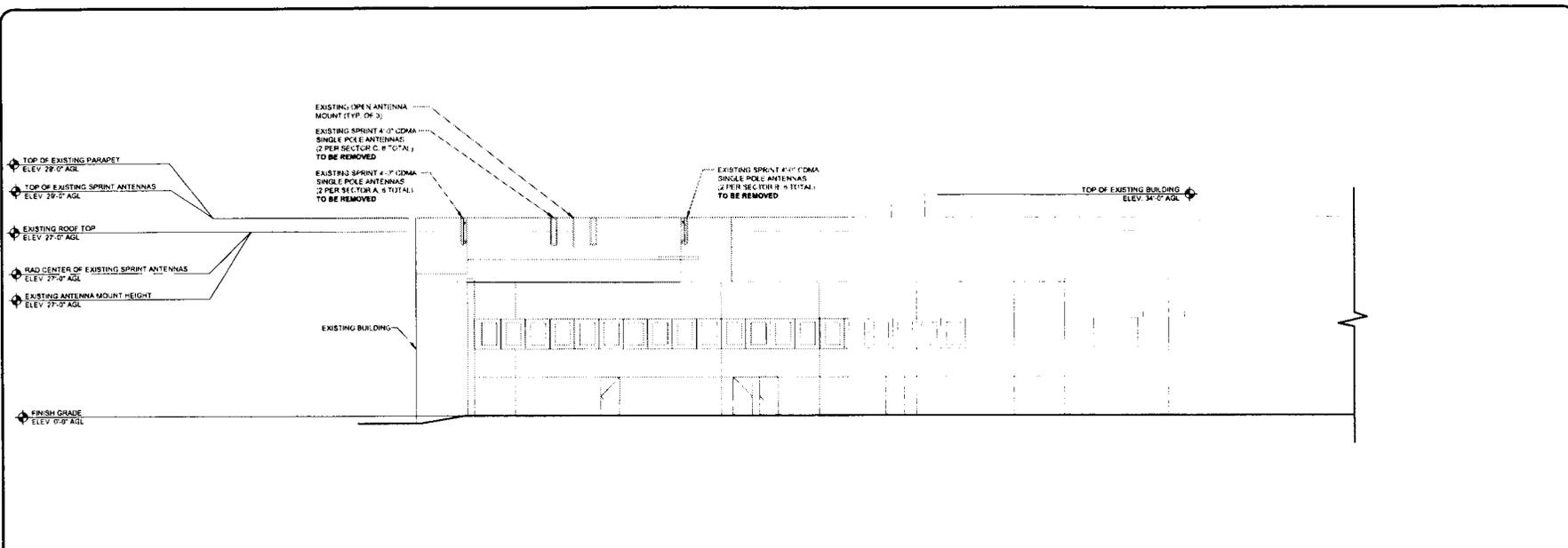
**NORTHWEST
ELEVATIONS**

SHEET NUMBER

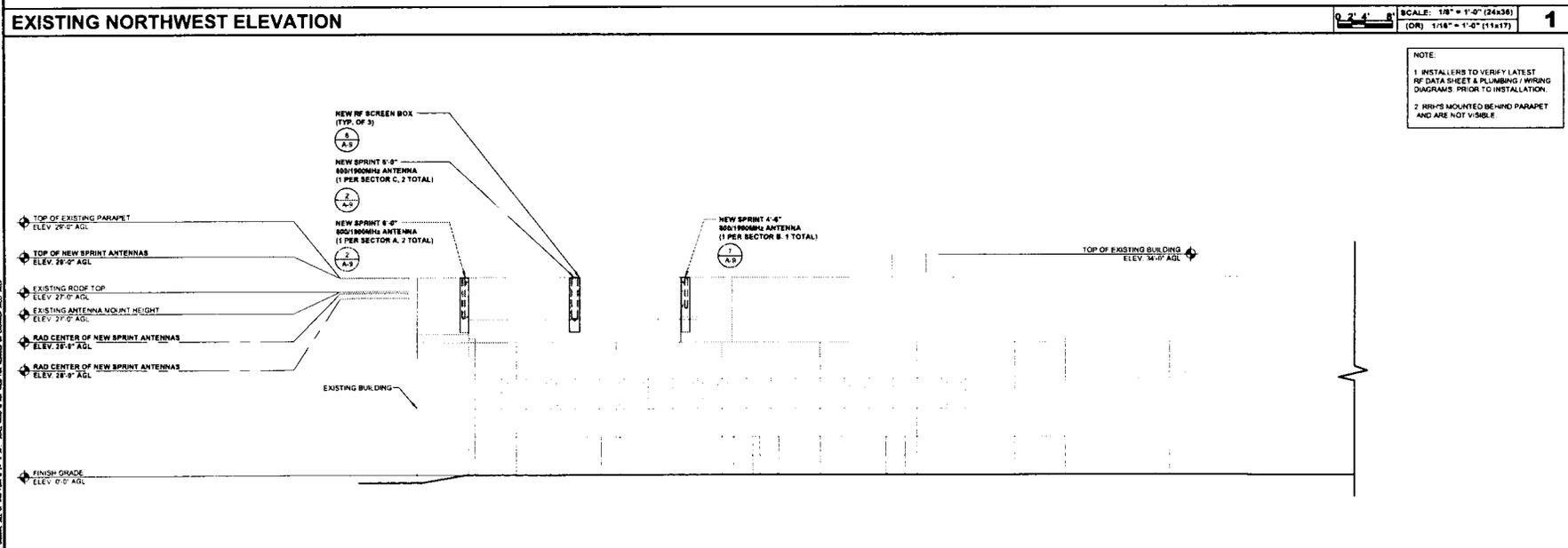
A-8

REVISION:

0



SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **1**

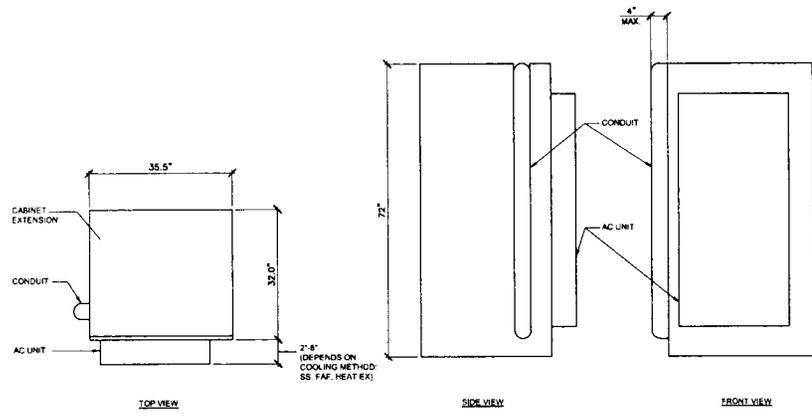


SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17) **2**

NOTE:

1. INSTALLERS TO VERIFY LATEST RF DATA SHEET & PLUMBING / WIRING DIAGRAMS PRIOR TO INSTALLATION.
2. RINNS MOUNTED BEHIND PARAPET AND ARE NOT VISIBLE.

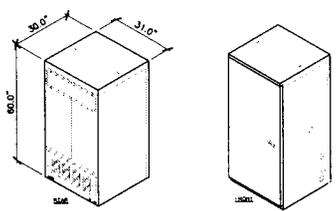
MANUFACTURER: ALCATEL-LUCENT
 MODEL # 9927 & 9928
MAIN CABINET DIMENSIONS:
 HEIGHT: 72"
 WIDTH: 35.5"
 DEPTH: 32"
CABINET EXTENSION DIMENSIONS:
 HEIGHT: 15.5"
 WIDTH: 33.5"
 DEPTH: 25"
ESTIMATED MAX WEIGHT:
 FACTORY: 100 LBS
 UPGRADED: 390 LBS
 FOR MOUNTING SEE:
 (S REF. 1)



9927 & 9928 CABINET

SCALE: N.T.S. 1

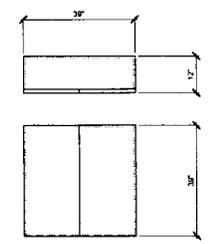
MANUFACTURER: ANDREW (COMMSCOPE)
 MODEL: 80ECV2
CABINET DIMENSIONS:
 HEIGHT: 80 in. (1924 mm)
 WIDTH: 31 in. (787 mm)
 DEPTH: 30 in. (762 mm)
CABINET OPERATING TEMPERATURE RANGE:
 40°C TO 45°C
 FOR MOUNTING SEE:
 (S REF. 1)



BATTERY BACK-UP CABINET

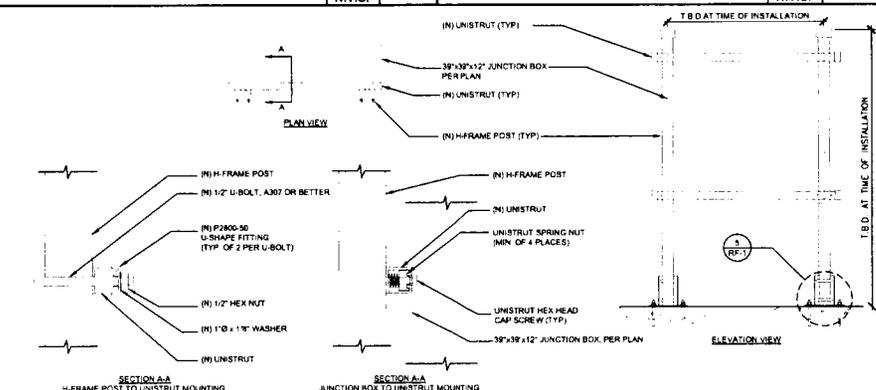
SCALE: N.T.S. 2

MANUFACTURER: TALLEY
 MODEL: TBD
CABINET DIMENSIONS:
 HEIGHT: 29 in.
 WIDTH: 28 in.
 DEPTH: 12 in.
 FOR H-FRAME MOUNTING SEE:
 (S REF. 1)



FIBER JUNCTION BOX

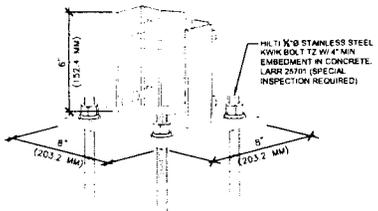
SCALE: N.T.S. 3



(N) JUNCTION BOX MOUNTING TO (N) H-FRAME

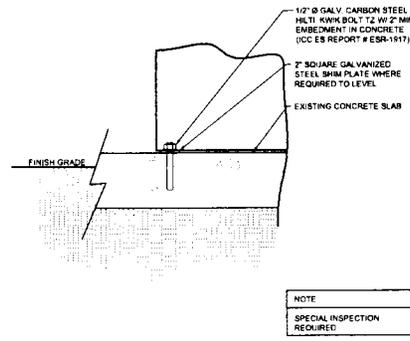
SCALE: N.T.S. 4

WB-BS
 BASE SHOE FOR 3-1/2" OD PIPE, HARDWARE INCLUDED
DIMENSIONS:
 WIDTH: 203.2MM | 8.0 IN
 HEIGHT: 152.4MM | 6.0 IN
 LENGTH: 203.2MM | 8.0 IN
 WEIGHT: 8.7KG | 19.2 LB
GENERAL SPECIFICATIONS:
 PRODUCT TYPE: BASE SHOES
 APPLICATION: BASE SHOE
 INCLUDES: HARDWARE | MOUNT
 MATERIAL TYPE: HOT DIP GALVANIZED STEEL
 MOUNTING: PIPE, 88.9 MM (3.5 IN) OD
 PACKAGE QUANTITY: 1



(N) H-FRAME MOUNTING

SCALE: N.T.S. 5



CONCRETE BOLTING DETAIL

SCALE: N.T.S. 6

NOT USED

SCALE: N.T.S. 7

NOT USED

SCALE: N.T.S. 8



PLANS PREPARED BY:

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LICENSURE:

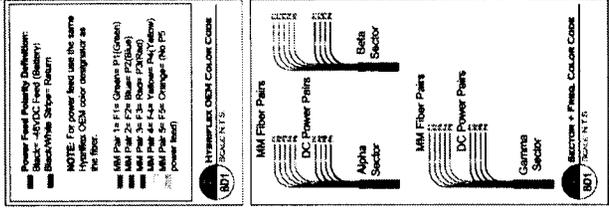
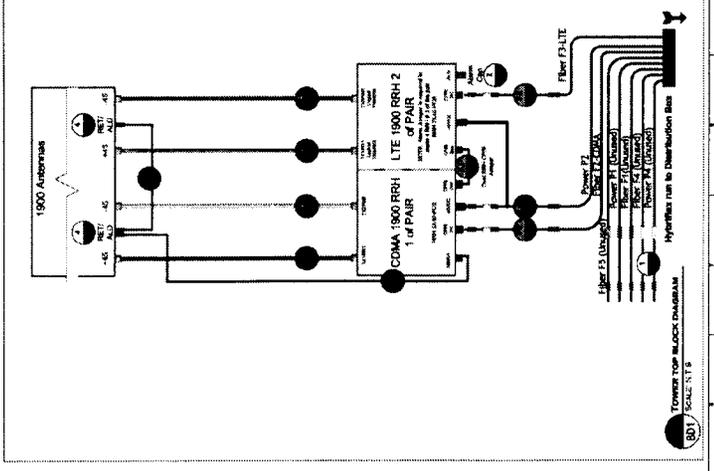


SHEET TITLE:

EQUIPMENT DETAILS

SHEET NUMBER: REVISION:

A-100



Project Number: 15197240327
 Revision: 01/15/2013

Sprint
NETWORK VISION
Alcatel-Lucent

NOTES

POWER FEED POLARITY DEFINITION:
 -45VDC Feed (Battery)
 -120VDC Feed (Main)
 -240VDC Feed (Main)

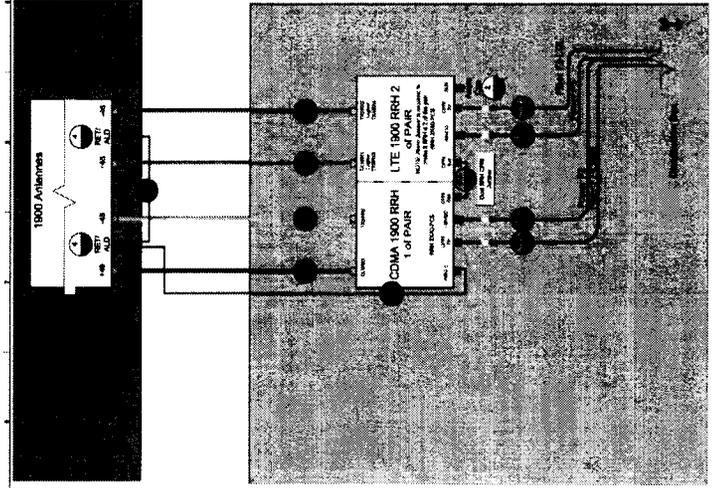
NOTE: For power feed use the same Hydriflex OEM color designator as the fiber.

MM Pair 1a-F1a (Green)
 MM Pair 2a-F2a (Blue)
 MM Pair 3a-F3a (Yellow)
 MM Pair 4a-F4a (Orange)
 MM Pair 5a-F5a (Red)
 -45VDC Feed (Battery)

SCENARIO 106, V1.0.V00

SHEET DESCRIPTION
TOWER TOP BLOCK DIAGRAM

SHEET NUMBER
BD1



Project Number: 15197240327
 Revision: 01/15/2013

Sprint
NETWORK VISION
Alcatel-Lucent

NOTES

POWER FEED POLARITY DEFINITION:
 -45VDC Feed (Battery)
 -120VDC Feed (Main)
 -240VDC Feed (Main)

NOTE: For power feed use the same Hydriflex OEM color designator as the fiber.

MM Pair 1a-F1a (Green)
 MM Pair 2a-F2a (Blue)
 MM Pair 3a-F3a (Yellow)
 MM Pair 4a-F4a (Orange)
 MM Pair 5a-F5a (Red)
 -45VDC Feed (Battery)

SCENARIO 106, V1.0.V00

SHEET DESCRIPTION
GROUND MOUNT BLOCK DIAGRAM

SHEET NUMBER
BD2



PLANS PREPARED BY:

Technology Associates
SAN DIEGO MARKET OFFICE
 5473 KEARNY VILLA RD. STE. 300
 SAN DIEGO, CA 92123

PROPRIETARY INFORMATION
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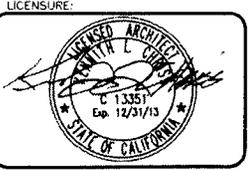
PROJECT INFORMATION:
NETWORK VISION MMBTS LAUNCH
OTAY WATER DISTRICT
OFFICE (8P)
SD34XC534
 2554 SWEETWATER SPRINGS BLVD.
 SPRING VALLEY, CA 91977

ISSUE DATE:
 04/11/2013

ISSUED FOR:
 FIELD SET

REVISIONS

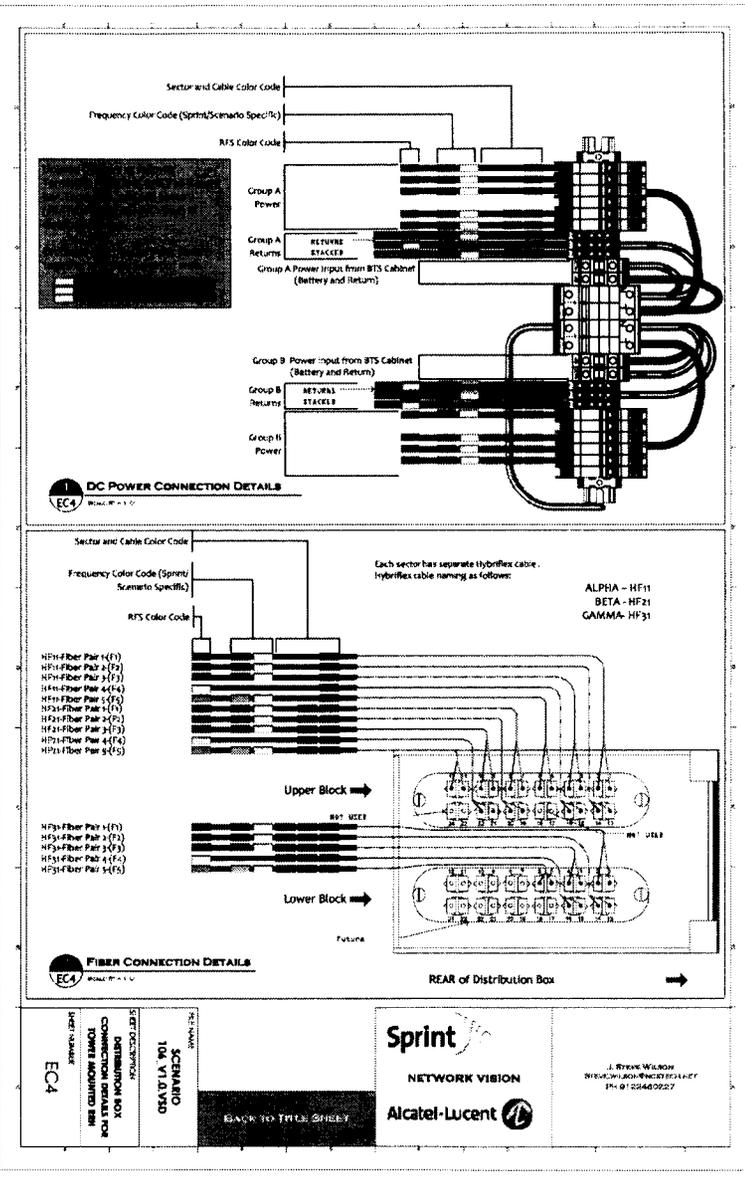
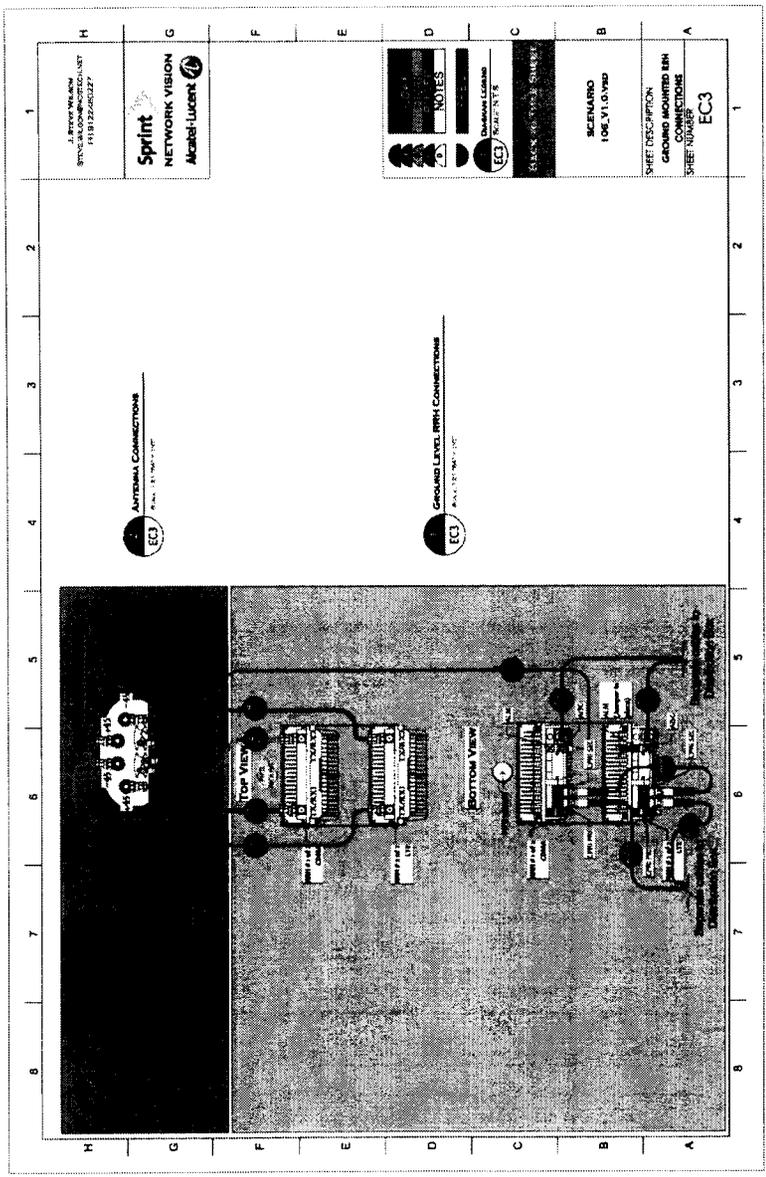
REV	DATE	DESCRIPTION	BY
0	04/11/13	ISSUED FOR FIELD SET	AC



SHEET TITLE:
ANTENNA CONNECTION DIAGRAM

SHEET NUMBER:
REVISION:

A-110



SCENARIO
106-V1.0.V03

BACK TO TITLE SHEET

Sprint
NETWORK VISION
Alcatel-Lucent

J. RYAN WILSON
SR. PROJECT MANAGER
PH: 619.546.9227

Sprint

Alcatel-Lucent

PLANS PREPARED BY:
Technology Associates
SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD. STE. 300
SAN DIEGO, CA 92123

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PROJECT INFORMATION:
NETWORK VISION MMBTS LAUNCH
OTAY WATER DISTRICT
OFFICE (8P)
SD34XC534
2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91977

ISSUE DATE:
04/11/2013

ISSUED FOR:
FIELD SET

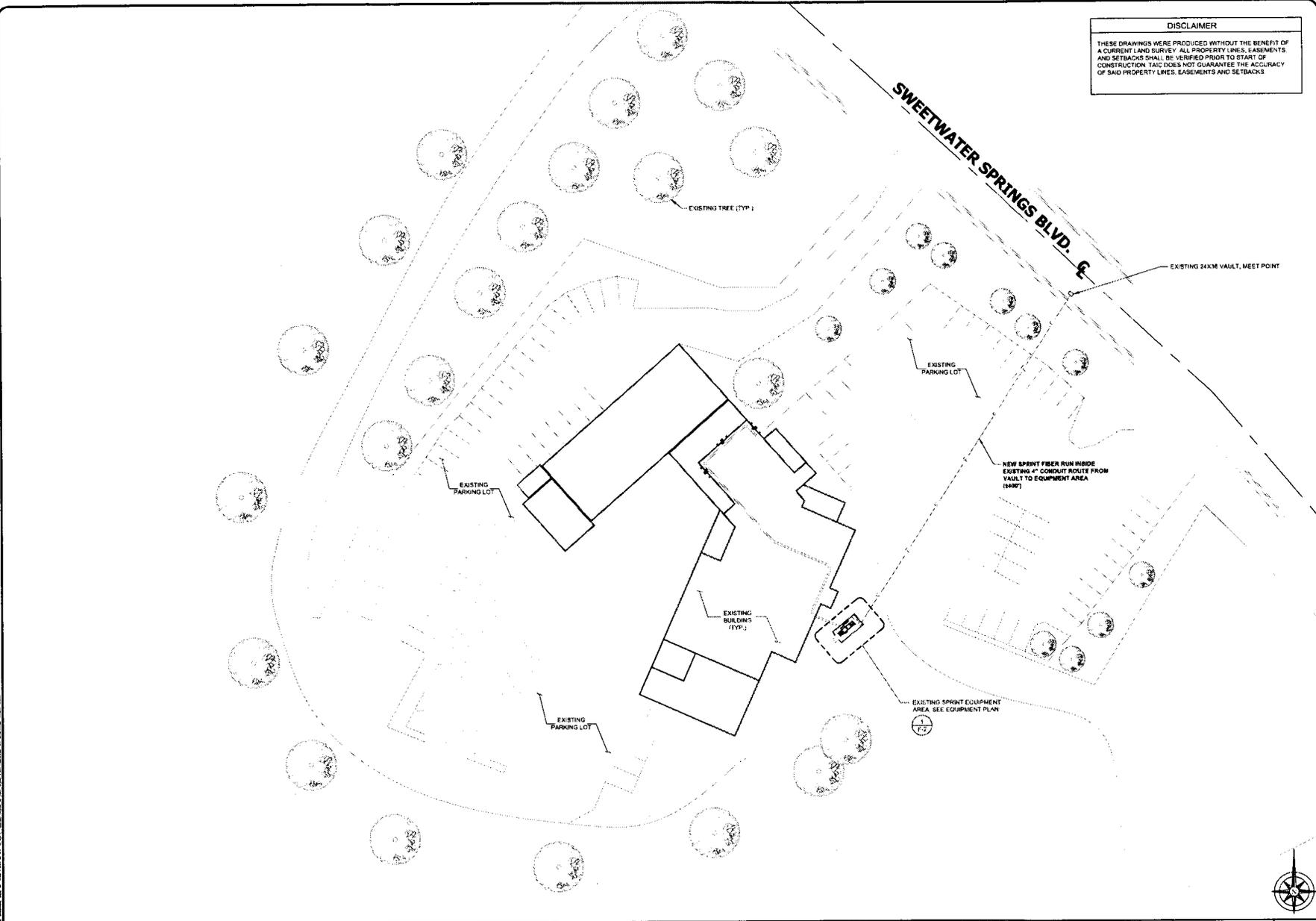
REVISIONS

REV	DATE	DESCRIPTION	BY
3	04/11/13	ISSUED FOR FIELD SET	AC

LICENSURE:

SHEET TITLE:
ANTENNA CONNECTION DIAGRAM

SHEET NUMBER: **A-130** REVISION: **0**



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PLANS PREPARED BY:



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 SAN DIEGO, CA 92123

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**OTAY WATER DISTRICT
 OFFICE (8P)
 SD34XC534**
 2554 SWEETWATER SPRINGS BLVD.
 SPRING VALLEY, CA 91977

ISSUE DATE:
 04/11/2013

ISSUED FOR:
 FIELD SET

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/11/13	ISSUED FOR FIELD SET	AC



SHEET TITLE:
FIBER SITE PLAN

SHEET NUMBER: **F-1** REVISION: **0**

FIBER SITE PLAN

30' 0 15' 30' SCALE: 1" = 30'-0" (24x36)
 (OR) 1/2" = 30'-0" (11x17) 1



PLANS PREPARED BY:

Technology Associates
SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD. STE. 300
SAN DIEGO, CA 92123

PROPRIETARY INFORMATION

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**OTAY WATER DISTRICT
OFFICE (8P)
SD34XC534**
2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91977

ISSUE DATE:

04/11/2013

ISSUED FOR:

FIELD SET

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/11/13	ISSUED FOR FIELD SET	AC

LICENSURE:



SHEET TITLE:

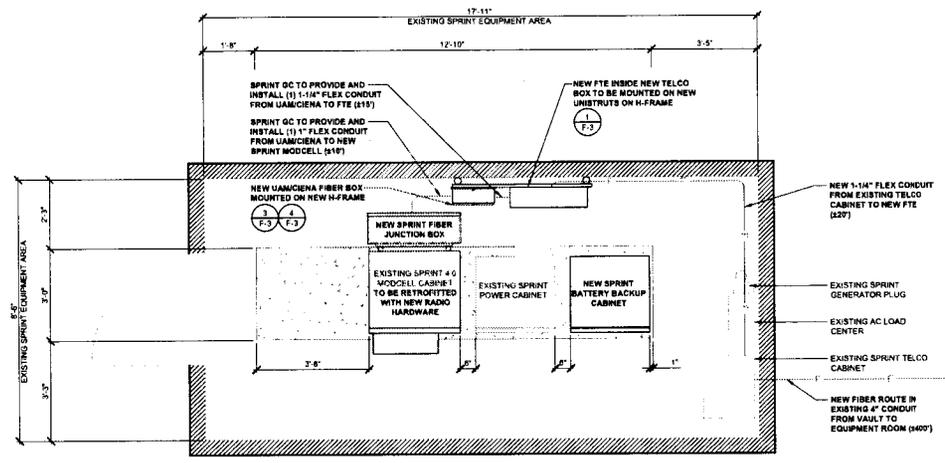
FIBER EQUIPMENT PLAN

SHEET NUMBER:

F-2

REVISION:

0





PLANS PREPARED BY

Technology Associates
SAN DIEGO MARKET OFFICE
5473 KEARNY VILLA RD. STE. 300
SAN DIEGO, CA 92123

PROPRIETARY INFORMATION

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
OTAY WATER DISTRICT
OFFICE (8P)
SD34XC534
2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91977

ISSUE DATE:

04/11/2013

ISSUED FOR:

FIELD SET

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/11/13	ISSUED FOR FIELD SET	AC

LICENSURE:

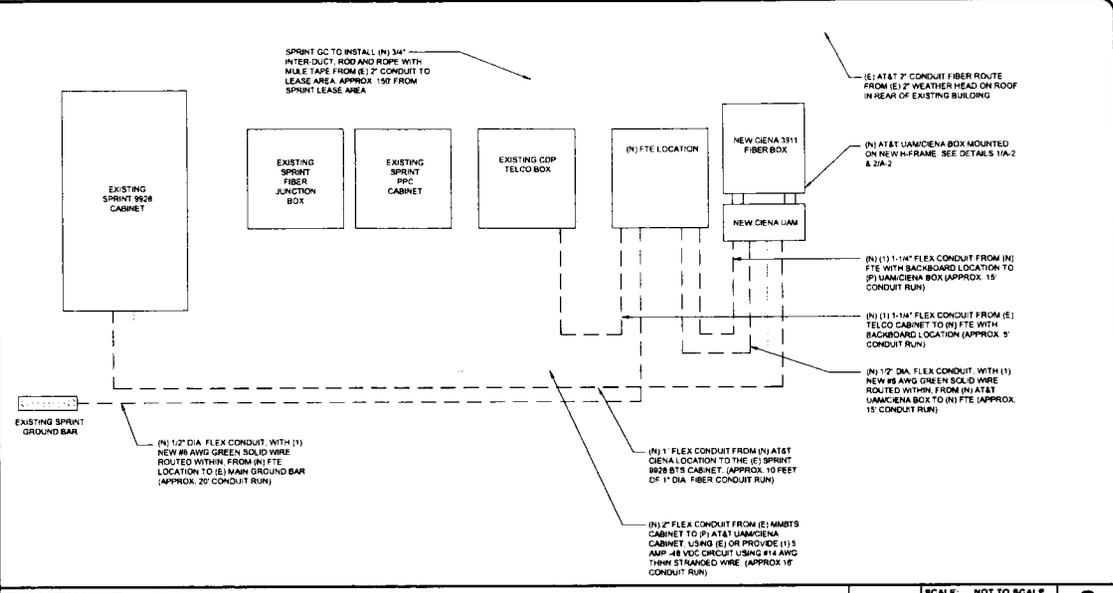


SHEET TITLE:

FIBER DETAILS

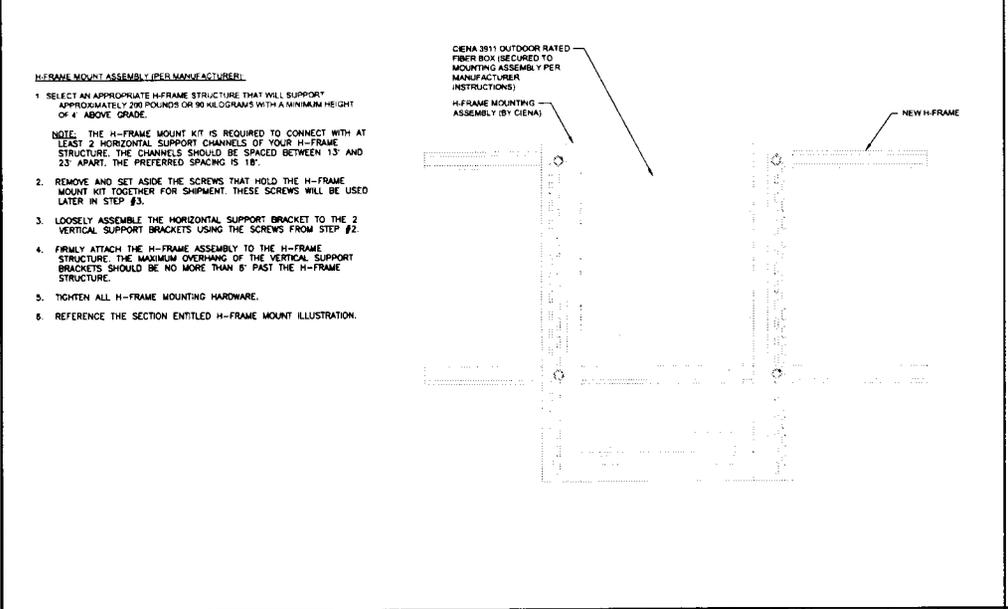
SHEET NUMBER **REVISION:**

F-3 **0**

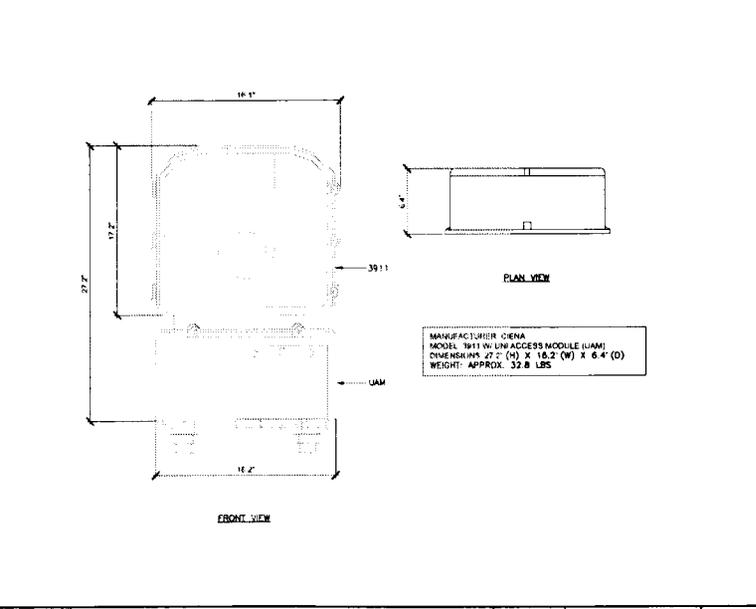


NOT USED N.T.S. SCALE: NOT TO SCALE (OR) NOT TO SCALE **1**

ROUTING DIAGRAM N.T.S. SCALE: NOT TO SCALE (OR) NOT TO SCALE **2**



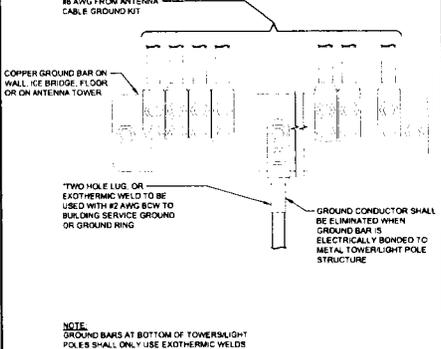
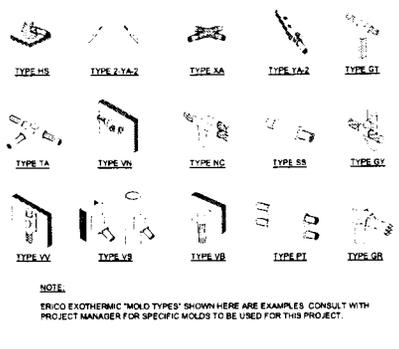
FIBER BOX H-FRAME MOUNTING N.T.S. SCALE: NOT TO SCALE (OR) NOT TO SCALE **3**



FIBER BOX SPECIFICATIONS N.T.S. SCALE: NOT TO SCALE (OR) NOT TO SCALE **4**

ELECTRICAL GROUNDING SPECIFICATIONS

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
- ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE.
- GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
- CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CAD-WELDED), UNLESS OTHERWISE NOTED, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AT 4" INTERVALS BROADBAND STANDARDS.
- GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. WHEN REQUIRED, GROUND LEADS SHALL BE BENT TO A MINIMUM OF 8" RADIUS.
- WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING, INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 5' BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
- ALL GROUND BARS SHALL BE TINNED 1/4" COPPER SECTOR BARS 2" COLLECTOR AND MGB BARS 4" OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBLING LUGS, AND EACH INSTALLED WITH INSULATORS. WHEN CONNECTING GROUND BARS (WITHIN 10 FEET OF GRADE) DIRECTLY TO THE GROUND RING, 2 EA #2 SOLID DOWNLEADS SHALL BE CAD-WELDED TO THE GROUND BAR, 1 AT EACH OPPOSITE BOTTOM CORNER, AND EACH SHALL RUN IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING. WHEN CONNECTING SECTOR GROUND BARS, DASHY-CHAIN THE GROUND BARS AND RUN 1 EA #2 AWG STRANDED COPPER WIRE WITH TWIN INSULATION FROM THE MODEL GROUND BAR TO THE GROUND RING AND CAD-WELD TO THE RING.
- WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2 HOLE COMPRESSION LUGS SHALL BE USED, PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF KPDRS SHIELD OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
- WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #8 AWG STRANDED COPPER WIRE WITH WINNSULATION SHALL BE ATTACHED UTILIZING A 2 HOLE COMPRESSION TYPE LUG, PROTECTED WITH WEATHERPROOF HEAT SHRINK, A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW.
- PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO BURN METAL, FOLLOWING CAD-WELDED CONNECTIONS TO NON-COPPER SURFACES APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT "COLD GALV" OR EQUIVALENT.
- GROUND RODS SHALL BE COPPER CLAD STEEL 5/8"x10", SPACED NO LESS THAN 10' ON CENTER. ERCO BRAND.
- ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE UV RATED CLAMPS, BRACKET, AND OR SUPPORTS.
- WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE NEW GROUND SYSTEM IS EQUAL TO OR LESS THAN 8 (OHMS), A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE ARCHITECT REPRESENTATIVE.
- ALL MATERIALS AND HARDWARE SHALL BE INSTALLED IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DEFINED IN NFPA-70 AND APPROVED BY A.E.I.
- ALL ANTENNA MOUNTING PIPES MUST BE GROUND TO A BUS BAR, EACH WITH ITS OWN GROUND LEAD.



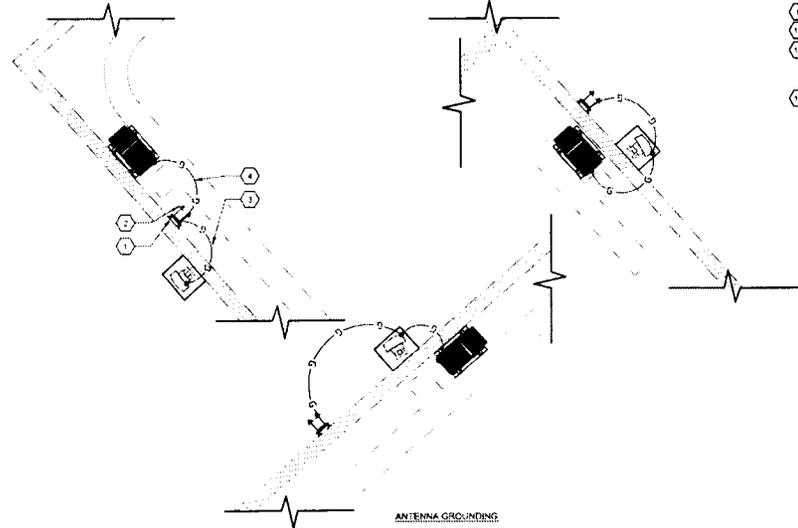
NOTES | 1 | **EXOTHERMIC WELDING** | SCALE N.T.S. | 3 | **GROUND WIRE CONNECTION** | SCALE N.T.S. | 4

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COPPER GROUND ROD		TEST WELL
	MECHANICAL CONNECTION		GROUND BAR
	EXOTHERMIC WELD (CADWELDED/OTHERWELDED)		SIDE SPLICE CADWELD
	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM		

KEY NOTES:

- ANTENNA GROUND BUS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT. SEE DETAIL B01 FOR GROUND BAR CONSTRUCTION.
- #8 AWG GROUND FROM ANTENNA GROUND BUS BAR TO TIE INTO EXISTING EQUIPMENT GROUNDING SYSTEM (TYP OF (2) PLACES).
- #8 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUS BAR (TYP OF (6) PLACES).
- #8 AWG GROUND FROM RRH UNITS TO ANTENNA GROUND BUS BAR.
- #8 AWG GROUND FROM H-FRAME TO THE INTO EXISTING GROUND BUS BAR.
- #8 AWG GROUND FROM BRU CABINET TO TIE INTO EXISTING GROUND BUS BAR.
- EXISTING GROUND BUS BAR NEAR EQUIPMENT WITH COAX GROUND KIT. SEE DETAIL B01 FOR GROUND BAR CONSTRUCTION.
- #8 AWG GROUND FROM EXISTING GROUND BUS BAR TO TIE INTO EXISTING ANTENNA GROUNDING SYSTEM (TYP OF (2) PLACES).
- CAD WELD (TYP).
- #8 AWG GROUND FROM FIBER JUNCTION BOX TO THE INTO EXISTING GROUND BUS BAR.
- GC SHALL VERIFY (2) #8 AWG THIN GROUND LEADS FROM EACH OF TWO REMOTE INDIVIDUAL BUSES TO BE COLLECTED AT ONE MAIN MGB AND FURTHER ROUTED TO EXISTING BUILDING STEEL OR OTHER EXISTING DESIGNATED BUILDING GROUNDING SYSTEM (FINAL DESIGNATED POINT OF GROUNDING TO BE COORDINATED BETWEEN CM, GC AND BUILDING OWNER).
- #2 AWG GROUND FROM MODEL CABINET TO TIE INTO EXISTING GROUND BUS BAR.

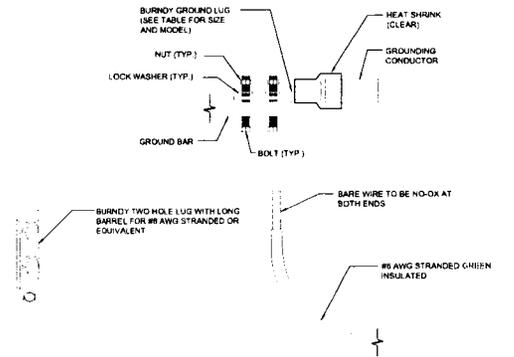


FINAL ANTENNA GROUNDING PLAN | 0 1" = 2' | SCALE: 1/8" = 1'-0" (24x36) | 2 | **MECHANICAL LUG CONNECTION** | SCALE N.T.S. | 6

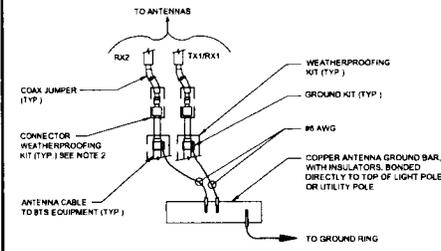
WIRE SIZE	BURNDY LUG	BOLT SIZE
#8 AWG GREEN INSULATED	YA8C-2TC38	3/8" - 18 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 18 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 18 NC S 2 BOLT
#2 0 AWG STRANDED	YA2B-2TC38	3/8" - 18 NC S 2 BOLT
#4 0 AWG STRANDED	YA2B-2N	1/2" - 18 NC S 2 BOLT

NOTES:

- ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.
- COPPER SHIELD, ANTI OX, OR NO OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
- ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



ANTENNA GROUND KIT | SCALE N.T.S. | 5



PLANS PREPARED BY:

Technology Associates
SAN DIEGO MARKET OFFICE
 5473 KEARNY VILLA RD. STE. 300
 SAN DIEGO, CA 92123

PROPRIETARY INFORMATION

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PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
OTAY WATER DISTRICT OFFICE (8P)
SD34XC534
 2554 SWEETWATER SPRINGS BLVD.
 SPRING VALLEY, CA 91977

ISSUE DATE:

05/14/2013

ISSUED FOR:

FIELD SET

REVISIONS

REV#	DATE	DESCRIPTION	BY#
0	05/14/13	ISSUED FOR FIELD SET	AC

LICENSURE:



SHEET TITLE:

ANTENNA GROUNDING

SHEET NUMBER:

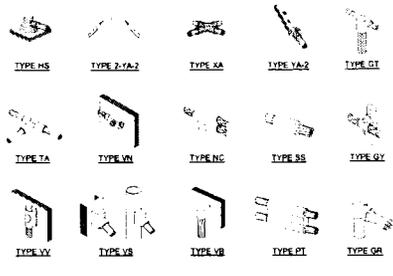
G-1

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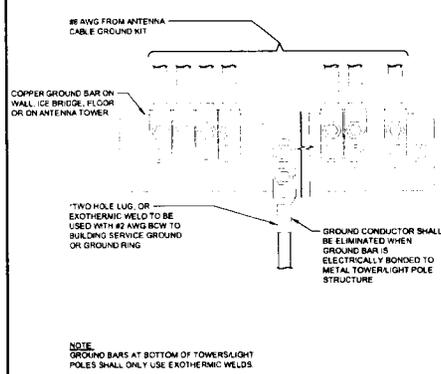
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ELECTRICAL GROUNDING SPECIFICATIONS

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
- ALL GROUNDING DEVICE SHALL BE U.L. LISTED FOR THEIR INTENDED USE.
- GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
- CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CAD WELDED), UNLESS OTHERWISE NOTED AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ATAT WIRELESS BROADBAND STANDARDS.
- GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. WHEN REQUIRED, GROUND LEADS SHALL BE BENT TO A MINIMUM OF 90 DEGREES.
- WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING, INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 5' BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
- ALL GROUND BARS SHALL BE TINNED, 1/4" COPPER SECTOR BARS 2" COLLECTOR AND MGB BARS 4" OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBLING LUGS, AND EACH INSTALLED WITH ISOLATORS. WHEN CONNECTING GROUND BARS WITHIN 10 FEET OF GRADE, DIRECTLY TO THE GROUND RING, 2 EA. #2 SOLID DOWNLEADS SHALL BE CAD WELDED TO THE GROUND BAR. AT EACH OPPOSITE BOTTOM CORNER, AND EACH SHALL RUN IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING. WHEN CONNECTING SECTOR GROUND BARS, CHAIN THE GROUND BARS AND RUN IN 1 EA. #2 AWG STRANDED COPPER WIRE WITH THIN INSULATION FROM THE MIDDLE GROUND RING TO THE GROUND RING AND CAD WELD TO THE RING.
- WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2-HOLE COMPRESSION LUGS SHALL BE USED. PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF COPPER SHIELD OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
- WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #8 AWG STRANDED COPPER WIRE WITH INSULATION SHALL BE ATTACHED UTILIZING A 2-HOLE COMPRESSION TYPE LUG, POTENTIAL WITH WEATHERPROOF HEAT SHRINK, A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW.
- PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO SHINY METAL, FOLLOWING: CAD WELDED CONNECTIONS TO NON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT, "COLD GALV" OR EQUIVALENT.
- GROUND RODS SHALL BE COPPER CLAD STEEL 5/8"x10", SPACED NO LESS THAN 10' ON CENTER - ERICO BRAND.
- ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE, UV RATED CLAMPS, BRACKET, AND/OR SUPPORTS.
- WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE NEW GROUND SYSTEM IS EQUAL TO OR LESS THAN 5 (OHMS). A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE ATAT REPRESENTATIVE.
- ALL MATERIALS AND HARDWARE SHALL BE INSTALLED IN A WORKMAN-LIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DEFINED IN NFPA70 AND APPROVED BY A N.E.I.
- ALL ANTENNA MOUNTING PIPES MUST BE GROUND TO A BUSS BAR, EACH WITH ITS OWN GROUND LEAD.



NOTE:
ERICO EXOTHERMIC "MIG-DIP" TYPES SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC WELDS TO BE USED FOR THIS PROJECT.



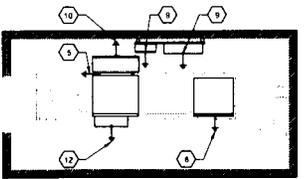
NOTES 1 **EXOTHERMIC WELDING** SCALE N.T.S. 3

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COPPER GROUND ROD		TEST WELL
	MECHANICAL CONNECTION		GROUND BAR
	EXOTHERMIC WELD (CAD WELDED/THERMOWELDED)		SIDE SPLICE CAD WELD
	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM		

KEY NOTES:

- ANTENNA GROUND BUSS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT. SEE DETAIL #6/1 FOR GROUND BAR CONSTRUCTION.
- #8 AWG GROUND FROM ANTENNA GROUND BUSS BAR TO TIE INTO EXISTING EQUIPMENT GROUNDING SYSTEM (TYP OF (2) PLACES)
- #8 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BUSS BAR (TYP OF (8))
- #8 AWG GROUND FROM RRH UNITS TO ANTENNA GROUND BUSS BAR
- #8 AWG GROUND FROM H-FRAME TO TIE INTO EXISTING GROUND BUSS BAR
- #2 AWG GROUND FROM BBU CABINET TO TIE INTO EXISTING GROUND BUSS BAR
- EXISTING GROUND BUSS BAR NEAR EQUIPMENT WITH COAX GROUND KIT. SEE DETAIL #6/1 FOR GROUND BAR CONSTRUCTION.
- #8 AWG GROUND FROM EXISTING GROUND BUSS BAR TO TIE INTO EXISTING ANTENNA GROUNDING SYSTEM (TYP OF (2) PLACES)
- CAD WELD (TYP)
- #8 AWG GROUND FROM FIBER JUNCTION BOX TO TIE INTO EXISTING GROUND BUSS BAR
- GC SHALL VERIFY (2) #8 AWG THIN GROUND LEADS FROM EACH OF TWO REMOTE INDIVIDUAL BUSES TO BE COLLECTED AT ONE MAIN MGB AND FURTHER ROUTED TO EXISTING BUILDING STEEL OR OTHER EXISTING DESIGNATED BUILDING GROUNDING SYSTEM IF FINAL DESIGNATED POINT OF GROUNDING TO BE COORDINATED BETWEEN CM, GC AND BUILDING OWNER.
- #2 AWG GROUND FROM MIDDLE CABINET TO TIE INTO EXISTING GROUND BUSS BAR



EQUIPMENT GROUNDING

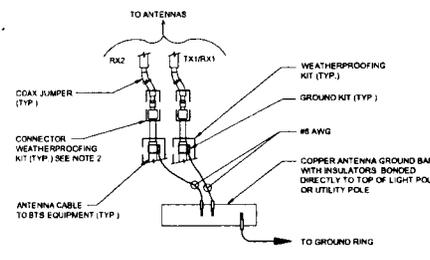
FINAL EQUIPMENT GROUNDING PLAN SCALE: 1/4" = 1'-0" (24x36) 2

WIRE SIZE	BURNDY LUG	BOLT SIZE
#8 AWG GREEN INSULATED	YA8C-2TC36	3/8" - 16 NC 3/2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC36	3/8" - 16 NC 3/2 BOLT
#2 AWG STRANDED	YA2C-2TC36	3/8" - 16 NC 3/2 BOLT
#2 1/2 AWG STRANDED	YA26-2TC38	3/8" - 16 NC 3/2 BOLT
#4 1/2 AWG STRANDED	YA28-2N	1/2" - 16 NC 3/2 BOLT

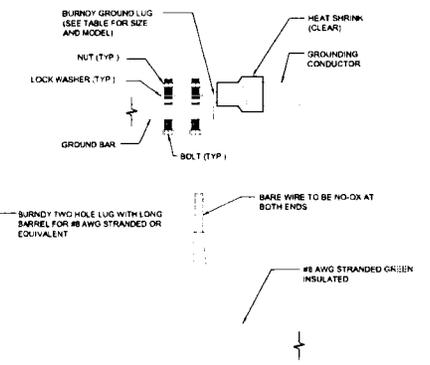
NOTES:

- ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.
- COPPER WELD, ANTI-OX OR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
- ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

GROUND WIRE CONNECTION SCALE N.T.S. 4



ANTENNA GROUND KIT SCALE N.T.S. 5



MECHANICAL LUG CONNECTION SCALE N.T.S. 6

Sprint

Alcatel-Lucent

PLANS PREPARED BY:

Technology Associates

SAN DIEGO MARKET OFFICE
5473 KEARNEY VILLA RD. STE. 300
SAN DIEGO, CA 92123

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL. TO PRINT ANY USE OR DISCLOSEURE OTHER THAN AS IF RELATED TO THIS PROJECT IS STRICTLY PROHIBITED.

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH

OTAY WATER DISTRICT
OFFICE (8P)
SD34XC534

2554 SWEETWATER SPRINGS BLVD.
SPRING VALLEY, CA 91977

ISSUE DATE: 04/11/2013

ISSUED FOR: FIELD SET

REVISIONS

REV	DATE	DESCRIPTION	BY
0	04/11/13	ISSUED FOR FIELD SET	AC

LICENSURE:

REGISTERED ARCHITECT
C 13351
Exp. 12/31/13
STATE OF CALIFORNIA

SHEET TITLE: EQUIPMENT GROUNDING

SHEET NUMBER: G-1A0

REVISION: 0

AGENDA ITEM 4



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	July 3, 2013
	Alicia Mendez-Schomer, Customer Service Manager	PROJECT:	DIV. NO. ALL
SUBMITTED BY:			
APPROVED BY:	<input checked="" type="checkbox"/> Joseph R. Beachem, Chief Financial Officer <input checked="" type="checkbox"/> German Alvarez, Assistant General Manager <input checked="" type="checkbox"/> Mark Watton, General Manager		
SUBJECT:	Adopt Resolution No. 4211 to Continue Water and Sewer Availability Charges for District Customers for Fiscal Year 2013-2014 to be Collected through Property Tax Bills		

GENERAL MANAGER'S RECOMMENDATION:

That the Board adopt Resolution No. 4211 to continue water and sewer availability charges for District customers for Fiscal Year 2013-2014 to be collected through property tax bills.

COMMITTEE ACTION:

See Attachment A.

PURPOSE:

That the Board consider the adoption of Resolution No. 4211 to continue water and sewer availability charges for District customers for Fiscal Year 2013-2014 to be collected through property tax bills.

ANALYSIS:

State Water Code Section 71630-71637 authorizes the District to access such availability charges. The District levies availability charges each year on property in both developed and undeveloped

areas. In order to place these charges on the tax roll, the County of San Diego requires the District to provide a resolution authorizing the charges. Each year, the District provides a resolution along with the listing of charges by parcel. Current legislation provides that any amount up to \$10 per parcel (one acre or less) is for general use and any amount over \$10 per parcel (\$30 per acre for parcels over one acre) is restricted, to be expended in and for that Improvement District. The District uses amounts over \$10 per parcel to develop water and sewer systems within the Improvement Districts where the funds are collected. In accordance with legislation, the District places amounts up to \$10 per parcel in the General Fund.

FISCAL IMPACT: Joe Beachem, Chief Financial Officer

The availability charges, as budgeted will generate approximately \$1.24 million in revenue.

STRATEGIC GOAL:

This revenue source will help the District meet its fiscal responsibility to its ratepayers.

LEGAL IMPACT:

None.

Attachments: Attachment A - Committee Action Form
 Attachment B - Resolution No. 4211



ATTACHMENT A

SUBJECT/PROJECT:	Adopt Resolution No. 4211 to Continue Water and Sewer Availability Charges for District Customers for Fiscal Year 2013-2014 to be Collected through Property Tax Bills
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COMMITTEE ACTION:

That the Finance, Administration and Communications Committee recommend that the Board adopt Resolution No. 4211 to continue water and sewer availability charges for District customers for Fiscal Year 2013-2014 to be collected through property tax bills.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for board approval. This report will be sent to the Board as a committee approved item, or modified to reflect any discussion or changes as directed from the committee prior to presentation to the full board.

RESOLUTION NO. 4211

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE OTAY WATER DISTRICT CONTINUING PREVIOUSLY ESTABLISHED WATER AND SEWER AVAILABILITY CHARGES FOR FISCAL YEAR 2013-2014; REQUESTING THE COUNTY TO COLLECT SUCH AVAILABILITY CHARGES ON THE 2013-2014 SECURED TAX ROLL AND TAKING OTHER RELATED ACTIONS

WHEREAS, the Otay Water District (herein "District") is a member of the San Diego County Water Authority and the Metropolitan Water District of Southern California and, as a member, the District is entitled to purchase water for distribution within the District and water so purchased is available to property in the District that is also within the San Diego County Water Authority and the Metropolitan Water District of Southern California, without further need for annexation to any agency; and

WHEREAS, Improvement Districts No. 14 and 18 and Assessment District No. 4 (Hillsdale) have been formed within the Otay Water District (herein "District") and sanitary sewers have been constructed and sewer service is available to land within each of the said districts; and

WHEREAS, in consideration of the benefit that water availability confers upon property within the District, and in further consideration of the need for revenue to pay the cost of water storage and transmission facilities which directly and specially benefit property within the District, the District has previously determined that water availability charges be fixed and established under applicable provisions of law; and

WHEREAS, in consideration of the benefit which sewer availability confers upon property within Improvement Districts No.

14 and 18 and within Assessment District No. 4 (Hillsdale), and in further consideration of the need to pay the cost of sanitary sewers which directly and specifically benefit those properties, the District has previously determined that sewer availability charges be fixed and established for Improvement Districts No. 14 and 18 and Assessment District No. 4 (Hillsdale), all as provided under applicable provisions of law; and

WHEREAS, the District desires to continue the collection of such water and sewer availability charges without increases or revisions in methodology or application.

NOW, THEREFORE, the Board of Directors of the Otay Water District resolves, determines and orders as follows:

1. SCHEDULE OF WATER CHARGES

(A) The water availability charges previously fixed and established are hereby continued for Fiscal Year 2013-2014 at the existing rates, as follows:

- (1) In Improvement Districts No. 5 and La Presa No. 1 the charge shall be \$10.00 per acre of land and \$10.00 per parcel of land less than one acre.
- (2) In Improvement Districts No. 2, 3, 7, 9, 10, 19, 20, 22, 25 and 27 the charge shall be \$30.00 per acre of land and \$10.00 per parcel of land less than one acre.
- (3) For land located outside an improvement district and within one mile of a District water line, the charge shall be \$10.00 per acre of land and \$10.00 for each parcel less than one acre.

- (4) For land located outside an improvement district and greater than one mile from District facilities, the charge shall be \$3.00 per acre of land and \$3.00 for each parcel less than one acre.

(B) Modifications The charges provided for in subparagraphs (1) through (4) in (A) above shall be modified upon petition by the property owner where the property does not receive water from the District as follows:

- (1) where a parcel of land or a portion thereof is within an open space easement approved by San Diego County, the charge for such parcel or portion thereof shall be fifty percent (50%) of the charge determined pursuant to paragraph (A), provided the owner files with the District proof, satisfactory to the District, that said parcel of land or portion thereof is within such a designated permanent open space area;
- (2) where a parcel of land or portion thereof is in an agricultural reserve under a Land Conservation Contract with the County of San Diego, pursuant to the Land Conservation Act of 1965 as amended, the charge for such parcel shall be \$3.00 per acre, provided the owner files with the District proof, satisfactory to the District, that said parcel of land or portion thereof is within such an agricultural preserve;

- (3) where a parcel of land or a portion thereof is within an area designated as a floodplain by the County of San Diego, the charge for such a parcel or portion thereof shall be \$3.00 per acre, provided the owner files with the District proof, satisfactory to the District, that said parcel of land or portion thereof is within such designated floodplain; and
- (4) where a parcel of land or portion thereof exceeds a 30% slope, and where such is not within a legal subdivision, lot-split or planned residential development, the charge for the slope portion shall be \$3.00 per acre, or if such a parcel is less than one acre and more than one-half of the area exceeds 30% slope, \$3.00 for the parcel, provided the owner files with the District proof, satisfactory to the District, that said parcel of land or portion thereof meets or exceeds the slope.

(C) Exceptions The charges provided for in (A) and (B) above shall not apply, upon petition by the property owner, to the following:

- (1) land located within an area designated as a floodway by the County of San Diego;
- (2) land designated as a vernal pool area by a governmental agency authorized to make such a designation and which designation prohibits use of such area for any purpose;

- (3) land owned by non-profit, tax-exempt conservation organizations specializing in identifying and protecting the natural habitat of rare species; or
- (4) land that is located within the boundaries of the Otay Water District but not within the boundaries of the Metropolitan Water District of Southern California and the San Diego County Water Authority.

2. SCHEDULE OF SEWER CHARGES

(A) Sewer standby assessment or availability charges are hereby fixed and established for Fiscal Year 2013-2014 as follows:

- (1) In Improvement Districts No. 14, 18 and Assessment District No. 4 (Hillsdale), the charges shall be \$30.00 per acre of land and \$10.00 per parcel of land less than one acre. The preceding charges shall not apply, upon petition by the property owner, to the following:
 - (a) any portion of a parcel which is undeveloped and maintained in its natural state within an Open Space Area as a requirement under the San Diego County General Plan, provided the owner of such parcel files proof, satisfactory to the District, of such designed Open Space Area;
 - (b) any portion of a parcel located within an area designated by the County of San Diego as a floodway or floodplain; or
 - (c) any portion of a parcel of land which exceeds a slope of 30% and which is not within a legal

subdivision, lot split or planned lot split or planned residential development.

3. DEFERRALS

(A) Deferral of Charge, Purpose Situations may arise when an owner of a parcel of land does not use and has no present intention of using water and/or sewer provided by the District on a parcel of land, as defined in Section 4. The purpose of this section is to permit an evaluation by the District, on a case-by-case basis, of the circumstances which pertain to such situations to determine whether a deferral of charges should be approved according to the terms and conditions herein provided.

Any owner of a parcel of land who believes that the amount of the water and/or sewer availability charges fixed against such parcel should be deferred may file an application with the District for deferral of the charge, as follows:

- (a) Application The application shall include a statement describing the circumstances and factual elements which support the request for deferral.
- (b) The General Manager shall consider the request within sixty (60) days after the filing of a completed application. If the application for deferral meets the established criteria, the General Manager may decide whether to approve the request and order the charge deferred accordingly. If the request is denied, the applicant shall be notified in writing stating the reasons for the denial.

(B) Appeal to Board of Directors If the General Manager denies a request, the owner may file an appeal with the Board of Directors within sixty (60) days after such denial. No new application for deferral need be considered by the General Manager until expiration of twelve (12) months from the date of a denial, unless differently directed by the Board of Directors.

(C) Deferred Charges on Restricted Parcels, Criteria The levy of the charge may be deferred annually as to any parcel of land which meets each of the following criteria:

- (a) The owner of such parcel makes a timely application requesting deferral of the charge.
- (b) The parcel, which is the subject of the request, will become subject to enforceable restrictions which prohibits the connection to the District sewer system or use of water on the parcel, except by means of natural precipitation or runoff; provided, however, if considered appropriate by the General Manager, local water may be used for limited domestic stock watering and irrigation uses.
- (c) The owner executed a recordable agreement which includes provisions that:
 - (1) set forth the enforceable restrictions pertinent to the subject parcel;
 - (2) the agreement may be terminated upon written request by the owner and payment of all deferred water and/or sewer availability charges, plus interest thereon, compounded

annually, and accruing at the legal rate from the date such charges would have been otherwise due and payable;

- (3) no water and/or sewer service from the District shall be provided to such parcel for a period of ten (10) years after the total amount due for the charges deferred, plus annually compounded interest, is paid in full to the District, unless a surcharge penalty as described below is paid to the District prior to connection of any water and/or sewer service;
- (4) if the surcharge is not paid, during the ten (10) year period, while water and/or sewer service is not available to the subject land, the owner shall pay all annual water or availability charges as fixed; and
- (5) contains such other provisions considered by the General Manager to be appropriate.

(D) Surcharge Upon termination of the deferral agreement, an owner may elect to receive water and/or sewer service prior to the expiration of the ten (10) year penalty period upon payment of a surcharge. The surcharge shall be equal to the amount of the annual water and/or sewer availability charges fixed for the parcel(s) of land in the year of election to receive water and/or sewer service multiplied by the number of years remaining of the ten (10)

year penalty period. This surcharge shall also apply if a property owner develops a parcel that is subject to a deferral agreement without termination of said agreement.

(E) Enforcement Procedures In order to insure that terms and conditions of the recordable agreement are being met, the General Manager shall:

- (1) Maintain a record of all parcels approved for deferral of the water assessments or availability charges.
- (2) Report to the Board of Directors any instances where the terms of the agreement are being violated.
- (3) Take such other actions or procedures considered appropriate.

4. DEFINITION OF PARCEL The term "parcel" as used herein shall mean a parcel of land as shown on the assessment rolls of the County Assessor of San Diego County as of March, 2013.

5. NOTICE AND REQUEST TO THE BOARD OF SUPERVISORS AND AUDITOR As provided in Sections 71634 to 71637, on or before the third Monday in August, 2013, the Secretary of this District shall furnish, in writing to the Board of Supervisors of San Diego County and to the County Auditor, a description of the land within the District upon which availability charges are to be levied and collected for Fiscal Year 2013-2014 together with the amount of the assessments or charges. At the time and in the manner required by law for the levying of taxes for county purposes, the Board of Supervisors of San Diego County shall levy, in addition to taxes it levies, water and/or sewer availability charges in the amounts fixed by this

Resolution for the respective parcels of land described in Section 1 of this Resolution. All County officers charged with the duty of collecting taxes shall collect the charges with the regular property tax payments in the same form and manner as County taxes are collected. Such availability charges are a lien on the property with respect to which they are fixed. Collection of the charges may be enforced by the same means as provided for the enforcement of liens for state and county taxes.

6. CERTIFICATION TO COUNTY BOARD OF SUPERVISORS The District certifies that this Resolution complies with the provisions of Article XIIIID of the California Constitution in that the availability charges are existing charges first set by the Board of Directors of the District prior to November 6, 1996. At the time the availability charges were initially established, the District followed the applicable provisions of law then in effect, and the District has continued to comply with such provisions, including any requirements for notices or hearings, as from time to time in effect. Therefore, pursuant to Section 71632 and Section 71638 of the California Water Code, as currently in effect, the District may continue the availability charges in successive years at the same rate. The District further certifies that the charge is not increased hereby and the methodology for the rate is the same as in previous years. The charge is imposed exclusively to finance the capital costs, maintenance and operating expenses of the water or sewer system of the District, as applicable.

7. CERTIFIED COPIES The Secretary of this District shall deliver certified copies of this Resolution to the Board of Supervisors and

to the Auditor of San Diego County with the list of charges described in Section 4 above.

8. CORRECTIONS; OTHER ACTIONS The General Manager of the District is hereby authorized to correct any clerical error made in any assessment or charge pursuant to this Resolution and to make an appropriate adjustment in any assessment or charge made in error. Furthermore, the General Manager and the Secretary of this District are hereby directed to take any further actions and deliver such documents and certificates as necessary to carry out the purpose of this Resolution.

PASSED, APPROVED AND ADOPTED by the Board of Directors of the Otay Water District at a regular meeting duly held this 3rd day of July, 2013.

President

ATTEST:

Secretary

I HEREBY CERTIFY that the foregoing Resolution No. 4211 was duly adopted by the BOARD OF DIRECTORS of the OTAY WATER DISTRICT at a regular meeting thereof held on the 3rd day of July, 2013 by the following vote:

Ayes:

Noes:

Abstain:

Absent:

District Secretary

AGENDA ITEM 5



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	July 3, 2013
		PROJECT:	DIV. NO. All
SUBMITTED BY:	Jeanette Ziomek, Senior Accountant		
	Rita Bell, Finance Manager		
APPROVED BY:	<input checked="" type="checkbox"/> Joseph R. Beachem, Chief Financial Officer		
	<input checked="" type="checkbox"/> German Alvarez, Assistant General Manager		
	<input checked="" type="checkbox"/> Mark Watton, General Manager		
SUBJECT:	Adopt Resolution No. 4212 to Establish the Tax Rate for Improvement District No. 27 (ID 27) for Fiscal Year 2013-2014		

GENERAL MANAGER'S RECOMMENDATION:

That the Board adopt Resolution No. 4212 to establish the tax rate for Improvement District No. 27 (ID 27) at \$0.005 for Fiscal Year 2013-2014.

COMMITTEE ACTION:

See Attachment A.

PURPOSE:

Improvement District No. 27 (ID 27) has outstanding general obligation bonds which mature in Fiscal Year 2023. On an annual basis, staff must evaluate the tax rate charged upon all property within ID 27 to ensure the amount of tax collections will support the annual debt service requirement. Currently, ID 27 is the only improvement district with outstanding general obligation debt service.

BACKGROUND:

In December 1992, the District sold \$11,500,000 of general obligation bonds in ID 27 for the construction of the 30mg reservoir. At the time of the formation of ID 27, the District intended to have a maximum tax rate of \$0.10 per \$100 of assessed valuation. The tax rate has remained well below the intended maximum rate.

In Fiscal Year 1998, the bonds were refinanced which reduced the annual debt payment. In Fiscal Year 2010, the bonds were refinanced again and reduced the annual debt payment even further. During that time, ID 27 also experienced rapid growth in its assessed valuation. The combination of the reduced debt service requirement and the increased assessed values resulted in the District's reserve level exceeding the target level.

Beginning in 2009, property valuations began decreasing and the tax collections dropped below the required debt payment. Rather than increase the tax rate, the District chose to cover the tax collection shortfall from the reserves to the extent that the reserve level remained above the target.

Staff proposes to keep the tax rate at \$.005 and to continue to draw down the reserves until it comes closer to the target. The rate and reserve balance will be re-evaluated again next year to determine if the rate requires adjustment to meet the District's reserve target level.

FISCAL IMPACT: Joseph R. Beachem, Chief Financial Officer

The tax proceeds are legally restricted for the sole purpose of the repayment of this debt. These proceeds will be collected until the debt obligation is fully paid, at which time the fund will have a zero balance. The \$0.005 tax rate will generate \$598,296 in revenue. The estimated revenue, given the recommended tax rate combined with the current fund balance, will meet the annual ID 27 debt service payment of \$755,438. This action lowers the fund balance, bringing it closer to the target level of six months of bond payments while maintaining a positive cash balance for the foreseeable future.

STRATEGIC GOAL:

Through well-established financial policies and wise management of funds, the District will continue to guarantee fiscal responsibility to its ratepayers and the community at large.

LEGAL IMPACT:

None.

Attachments:

- A) Committee Action Form
- B) Resolution No. 4212
- C) ID 27 Tables



ATTACHMENT A

SUBJECT/PROJECT:	Adopt Resolution No. 4212 to Establish the Tax Rate for Improvement District No. 27 (ID 27) for Fiscal Year 2013-2014
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COMMITTEE ACTION:

That the Finance, Administration and Communications Committee recommend that the Board adopt Resolution No. 4212 to establish the tax rate for Improvement District No. 27 (ID 27) at \$0.005 for Fiscal Year 2013-2014.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for board approval. This report will be sent to the Board as a committee approved item, or modified to reflect any discussion or changes as directed from the committee prior to presentation to the full board.

RESOLUTION NO. 4212

A RESOLUTION OF THE BOARD OF DIRECTORS OF OTAY WATER DISTRICT FIXING TAX RATES FOR FISCAL YEAR 2013-2014 FOR PAYMENT OF PRINCIPAL AND INTEREST ON GENERAL OBLIGATION BONDS OF IMPROVEMENT DISTRICTS (GF 1600)

WHEREAS, California Water Code Section 72091 authorizes the Otay Water District, as a municipal water district, to levy an ad valorem property tax which is equal to the amount required to make annual payments for principal and interest on general obligation bonds approved by the voters prior to July 1, 1978.

NOW, THEREFORE, the Board of Directors of the Otay Water District resolves, determines and orders as follows:

1. Findings. It is necessary that this Board of Directors cause taxes to be levied in Fiscal Year 2013-2014 for Improvement District No. 27 of the Otay Water District to pay the amount of the principal and interest on the bonded debt of such improvement district.

2. Amounts to be Raised by Taxes. The amount required to be raised by taxation during Fiscal Year 2013-2014 for the principal and interest on the bonded debt of Improvement District No. 27 is as follows:

Improvement District No. 27 \$598,296

3. Tax Rates. The tax rates per one hundred dollars (\$100) of the full value of all taxable property within said improvement district necessary to pay the aforesaid amounts of principal and interest on the bonded debt of said improvement district for Fiscal Year 2013-2014 is hereby determined and fixed as follows:

Improvement District No. 27 \$0.005

4. Certification of Tax Rates. Pursuant to Water Code Section 72094, this Board of Directors hereby certifies to the Board of Supervisors and the County Auditor of the County of San Diego the tax rates hereinbefore fixed, and said County Auditor shall, pursuant to Section 72095 of said Code, compute and enter in the County assessment roll the respective sums to be paid as tax on the property in Improvement District No. 27, using the rate of levy hereinabove fixed for such improvement district and the full value as found on the assessment roll for the property therein, and the Secretary of this Board of Directors is hereby authorized and directed to transmit certified copies of this resolution, Attachment B, and made a part hereof, to said Board of Supervisors and said Auditor.

PASSED AND ADOPTED by the Board of Directors of the Otay Water District at a regular meeting held this 3rd day of July, 2013.

Ayes:
Noes:
Abstain:
Absent:

President

ATTEST:

Secretary

Attachment C

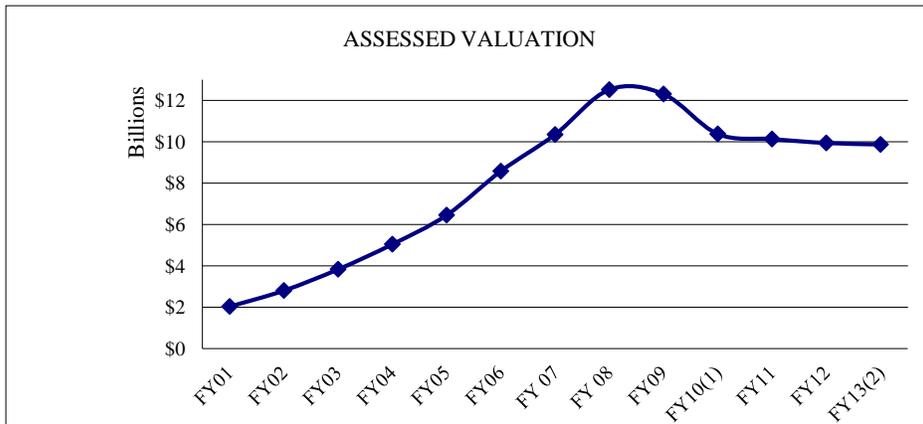
IMPROVEMENT DISTRICT 27

History

- 1989** Improvement District 27 was formed with \$100,000,000 bonding authorized.
- 1992** District issued \$11,500,000 in General Obligation Bonds primarily for the construction of a 30 million gallon storage reservoir.
- 1998** District refinanced outstanding debt of \$10,900,000.
- 2009** District refinanced again outstanding debt of \$7,780,000.

Historical Data						
	TAXES COLLECTED	DEBT SERVICE	NET	TAX RATE	ASSESSED VALUATION	INC%
FY01	\$1,628,500	\$841,500	\$787,000	\$0.06000	\$2,037,206,308	32%
FY02	\$570,300	\$842,000	(\$271,700)	\$0.02000	\$2,809,479,840	38%
FY03	\$725,085	\$848,600	(\$123,515)	\$0.01500	\$3,837,693,353	37%
FY04	\$829,036	\$848,700	(\$19,664)	\$0.01400	\$5,047,625,296	32%
FY05	\$997,082	\$840,800	\$156,282	\$0.01200	\$6,454,909,846	28%
FY06	\$1,081,991	\$840,385	\$241,606	\$0.01000	\$8,579,576,581	33%
FY 07	\$868,624	\$837,936	\$30,688	\$0.00700	\$10,348,663,242	21%
FY 08	\$917,168	\$835,017	\$82,151	\$0.00600	\$12,518,643,676	21%
FY09	\$764,971	\$830,823	(\$65,852)	\$0.00500	\$12,308,043,285	-2%
FY10⁽¹⁾	\$605,405	\$934,674	(\$329,269)	\$0.00500	\$10,378,404,507	-16%
FY11	\$600,685	\$781,144	(\$180,459)	\$0.00500	\$10,131,397,697	-2.4%
FY12	\$597,799	\$752,976	(\$155,177)	\$0.00500	\$9,941,622,812	-1.9%
FY13⁽²⁾	\$649,257	\$773,863	(\$124,606)	\$0.00500	\$9,869,377,173	-0.7%

Change in Fund Balance						
	TAXES COLLECTED	DEBT SERVICE	NET	TAX RATE	ASSESSED VALUATION	INC%
			\$895,316			
FY14	\$595,829	\$755,438	(\$159,609)	\$0.00500	\$9,918,724,059	-0.2%
	Interest		\$3,820			
			\$739,527			
	Est Fund Balance 6/30/14					



⁽¹⁾ Due to the debt refinancing in FY2009, there was a refunding cost of \$150,625 that added to the debt service amount this year.

⁽²⁾ Due to timing of the report, taxes collected is an estimate.

AGENDA ITEM 6



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	July 3, 2013
SUBMITTED BY:	Kevin Koeppen, Finance Manager	PROJECT:	DIV.NO. All
APPROVED BY:	<input checked="" type="checkbox"/> Joseph R. Beachem, Chief Financial Officer <input checked="" type="checkbox"/> German Alvarez, Assistant General Manager <input checked="" type="checkbox"/> Mark Watton, General Manager		
SUBJECT:	Annual Review of the District's Investment Policy (Policy No. 27) and Adoption of Resolution No. 4213 Amending the Policy and Re-Delegating Authority for All Investment Related Activities to the Chief Financial Officer		

GENERAL MANAGER'S RECOMMENDATION:

That the Board receives the District's Investment Policy (Policy No. 27) for review, and adopts Resolution No. 4213 amending the policy and re-delegating authority for all investment related activities to the Chief Financial Officer (CFO), in accordance with Government Code Section 53607.

COMMITTEE ACTION: _____

See Attachment A.

PURPOSE:

Government Code Section 53646 recommends that the District's Investment Policy be rendered to the Board on an annual basis for review. In addition, Government Code Section 53607 requires that for the CFO's delegation of authority to remain effective, the governing board must re-delegate authority over investment activities on an annual basis.

ANALYSIS:

The primary goals of the Investment Policy are to assure compliance with the California Government Code, Sections 53600 et seq. The primary objectives, in priority order, of investment activities are:

1. Protect the principal of the funds.

2. Remain sufficiently liquid to enable the District to meet all operating requirements which might be reasonably anticipated.
3. Attain a benchmark rate of return throughout budgetary and economic cycles, commensurate with the District's investment risk constraints and the cash flow characteristics of the portfolio. LAIF is the benchmark rate of return that is currently used to evaluate investments.

Consistent with the first of the primary goals, the code provides a range of investment options that are low risk. These include Federal Treasuries, Federal Agencies, Callable Federal Agencies, the State Pool, the County Pool, high-grade corporate debt, and others.

Because of the District's adherence to a conservative range of authorized investments, we have been able to maintain a healthy and diversified portfolio with no investment losses despite an extended period of turmoil and instability in the national financial markets. The District's policy complies with the current law and the overall objectives of the policy are being met.

Over the recent years, the size of the District's portfolio has decreased from \$110 million to the current \$82 million. This reduction is primarily due to planned outlays for construction projects and the drawdown of debt proceeds.

FISCAL IMPACT: _____

None.

STRATEGIC GOAL:

Demonstrate financial health through formalized policies, prudent investing, and efficient operations.

LEGAL IMPACT: _____

None.

General Manager

Attachments:

- A) Committee Action Form
- B) Resolution No. 4213
Exhibit 1: Strike-through Investment Policy No. 27
- C) Proposed Investment Policy No. 27
- D) Presentation



ATTACHMENT A

SUBJECT/PROJECT:	Annual Review of Investment Policy (Policy No. 27) and Adoption of Resolution No. 4213 Amending the Policy and Re-delegating Authority for all Investment Related Activities to the Chief Financial Officer (CFO)
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COMMITTEE ACTION:

The Finance, Administration, and Communications Committee recommend that the Board adopt Resolution No. 4213 amending Investment Policy No. 27 and re-delegating authority for all investment related activities to the Chief Financial Officer (CFO).

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for board approval. This report will be sent to the Board as a committee approved item, or modified to reflect any discussion or changes as directed from the committee prior to presentation to the full board.

RESOLUTION NO.4213

A RESOLUTION OF THE BOARD OF DIRECTORS OF
THE OTAY WATER DISTRICT AMENDING
INVESTMENT POLICY NO.27 OF THE
DISTRICT'S CODE OF ORDINANCES

WHEREAS, the Otay Water District Board of Directors has been presented with an amended Investment Policy No. 27 of the District's Code of Ordinances for the financial management of the Otay Water District; and

WHEREAS, the amended Investment Policy has been revised for, among other reasons, consistency with changes in the law, changes to FDIC insurance limits, and changes to government agency issues; and

WHEREAS, the amended Investment Policy has been reviewed and considered by the Board, and it is in the interest of the District to adopt the amended Investment Policy; and

WHEREAS, the strike-through copy of the proposed policy is attached as Exhibit 1 to this resolution; and

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED by the Board of Directors of the Otay Water District that the amended Investment Policy, incorporated herein as Attachment C, is hereby adopted.

PASSED, APPROVED AND ADOPTED by the Board of Directors of Otay
Water District at a board meeting held this 3rd day of July 2013,
by the following vote:

Ayes:
Noes:
Abstain:
Absent:

ATTEST:

President

District Secretary

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1.0: POLICY

It is the policy of the Otay Water District to invest public funds in a manner which will provide maximum security with the best interest return, while meeting the daily cash flow demands of the entity and conforming to all state statues governing the investment of public funds.

2.0: SCOPE

This investment policy applies to all financial assets of the Otay Water District. The District pools all cash for investment purposes. These funds are accounted for in the District's audited Comprehensive Annual Financial Report (CAFR) and include:

- 2.1) General Fund
- 2.2) Capital Project Funds
 - 2.2.1) Designated Expansion Fund
 - 2.2.2) Restricted Expansion Fund
 - 2.2.3) Designated Betterment Fund
 - 2.2.4) Restricted Betterment Fund
 - 2.2.5) Designated Replacement Fund
 - 2.2.6) Restricted New Water Supply Fund
- 2.3) Other Post Employment Fund (OPEB)
- 2.4) Debt Reserve Fund

Exceptions to the pooling of funds do exist for tax-exempt debt proceeds, debt reserves and deferred compensation funds. Funds received from the sale of general obligation bonds, certificates of participation or other tax-exempt financing vehicles are segregated from pooled investments and the investment of such funds are guided by the legal documents that govern the terms of such debt issuances.

3.0: PRUDENCE

Investments should be made with judgment and care, under current prevailing circumstances, which persons of prudence, discretion and intelligence, exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived.

The standard of prudence to be used by investment officials shall be the "Prudent Person" and/or "Prudent Investor" standard (California Government Code 53600.3) and shall be applied in the context of managing an overall portfolio. Investment officers acting in accordance with written procedures and the investment policy and

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exercising due diligence shall be relieved of personal responsibility for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and appropriate action is taken to control adverse developments.

4.0: OBJECTIVE

As specified in the California Government Code 53600.5, when investing, reinvesting, purchasing, acquiring, exchanging, selling and managing public funds, the primary objectives, in priority order, of the investment activities shall be:

- 4.1) Safety: Safety of principal is the foremost objective of the investment program. Investments of the Otay Water District shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. To attain this objective, the District will diversify its investments by investing funds among a variety of securities offering independent returns and financial institutions.
- 4.2) Liquidity: The Otay Water District's investment portfolio will remain sufficiently liquid to enable the District to meet all operating requirements which might be reasonably anticipated.
- 4.3) Return on Investment: The Otay Water District's investment portfolio shall be designed with the objective of attaining a benchmark rate of return throughout budgetary and economic cycles, commensurate with the District's investment risk constraints and the cash flow characteristics of the portfolio.

5.0 DELEGATION OF AUTHORITY

Authority to manage the Otay Water District's investment program is derived from the California Government Code, Sections 53600 through 53692. Management responsibility for the investment program is hereby delegated to the Chief Financial Officer (CFO), who shall be responsible for all transactions undertaken and shall establish a system of controls to regulate the activities of subordinate officials and their procedures in the absence of the CFO.

The CFO shall establish written investment policy procedures for the operation of the investment program consistent with this policy. Such procedures shall include explicit delegation of authority to persons responsible for investment transactions. No person may engage in an

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investment transaction except as provided under the terms of this policy and the procedures established by the CFO.

6.0: ETHICS AND CONFLICTS OF INTEREST

Officers and employees involved in the investment process shall refrain from personal business activity that could conflict with the proper execution and management of the investment program, or that could impair their ability to make impartial investment decisions. Employees and investment officials shall disclose to the General Manager any material financial interests in financial institutions with which they conduct business. They shall further disclose any personal financial/investment positions that could be related to the performance of the investment portfolio. Employees and officers shall refrain from undertaking personal investment transactions with the same individual with whom business is conducted on behalf of the District.

7.0: AUTHORIZED FINANCIAL DEALERS AND INSTITUTIONS

The Chief Financial Officer shall maintain a list of financial institutions authorized to provide investment services. In addition, a list will also be maintained of approved security broker/dealers who are authorized to provide investment services in the State of California. These may include "primary" dealers or regional dealers that qualify under Securities & Exchange Commission Rule 15C3-1 (Uniform Net Capital Rule). No public deposit shall be made except in a qualified public depository as established by state laws.

All financial institutions and broker/dealers who desire to become qualified bidders for investment transactions must supply the District with the following, as appropriate:

- Audited Financial Statements.
- Proof of National Association of Security Dealers (NASD) certification.
- Proof of state registration.
- Completed broker/dealer questionnaire.
- Certification of having read the District's Investment Policy.
- Evidence of adequate insurance coverage.

An annual review of the financial condition and registrations of qualified bidders will be conducted by the CFO. A current audited

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financial statement is required to be on file for each financial institution and broker/dealer in which the District invests.

8.0: AUTHORIZED AND SUITABLE INVESTMENTS

From the governing body perspective, special care must be taken to ensure that the list of instruments includes only those allowed by law and those that local investment managers are trained and competent to handle. The District is governed by the California Government Code, Sections 53600 through 53692, to invest in the following types of securities, as further limited herein:

8.01) United States Treasury Bills, Bonds, Notes or those instruments for which the full faith and credit of the United States are pledged for payment of principal and interest. There is no percentage limitation of the portfolio which can be invested in this category, although a five-year maturity limitation is applicable.

8.02) Local Agency Investment Fund (LAIF), which is a State of California managed investment pool, may be used up to the maximum permitted by State Law (currently \$50 million). The District may also invest bond proceeds in LAIF with the same but independent maximum limitation.

8.03) Bonds, debentures, notes and other evidence of indebtedness issued by any of the following government agency issuers:

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- Federal Home Loan Bank (FHLB)
- Federal Home Loan Mortgage Corporation (FHLMC or "Freddie Mac")
- Federal National Mortgage Association (FNMA or "Fannie Mae")
- Government National Mortgage Association (GNMA or "Ginnie Mae")
- ~~Student Loan Marketing Association (SLMA or "Sallie Mae")~~
- Federal Farm Credit Bank (FFCB)
- Federal Agricultural Mortgage Corporation (FAMCA or "Farmer Mac")

There is no percentage limitation of the portfolio which can be invested in this category, although a five-year maturity limitation is applicable.

8.04) Interest-bearing demand deposit accounts and Certificates of Deposit (CD) will be made only in Federal Deposit Insurance Corporation (FDIC) insured accounts. For deposits in excess of the insured maximum of ~~\$100,000~~ \$250,000, approved collateral shall be required in accordance with California Government Code, Section 53652. Investments in CD's are limited to 15 percent of the District's portfolio.

8.05) Commercial paper, which is short-term, unsecured promissory notes of corporate and public entities. Purchases of eligible commercial paper may not exceed 10 percent of the outstanding paper of an issuing corporation, and maximum investment maturity will be restricted to 270 days. Investment is further limited as described in California Government Code, Section 53601(hg). Purchases of commercial paper may not exceed 15 percent of the District's portfolio and no more than 10 percent of the outstanding commercial paper of any single issuer.

8.06) Medium-term notes defined as all corporate debt securities with a maximum remaining maturity of five years or less, and that meet the further requirements of California Government Code, Section 53601(jk). Investments in medium-term notes are limited to 15 percent of the District's portfolio.

8.07) Money market mutual funds that invest only in Treasury securities and repurchase agreements collateralized with Treasury securities, and that meet the further requirements of California

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Government Code, Section 53601(k~~1~~). Investments in money market mutual funds are limited to ~~15~~10 percent of the District's portfolio.

8.08) The San Diego County Treasurer's Pooled Money Fund, which is a County managed investment pool, may be used by the Otay Water District to invest excess funds. There is no percentage limitation of the portfolio which can be invested in this category.

8.09) Under the provisions of California Government Code 53601.6, the Otay Water District shall not invest any funds covered by this Investment Policy in inverse floaters, range notes, interest-only strips derived from mortgage pools, or any investment that may result in a zero interest accrual if held to maturity. Also, the borrowing of funds for investment purposes, known as leveraging, is prohibited.

9.0: INVESTMENT POOLS/MUTUAL FUNDS

A thorough investigation of the pool/fund is required prior to investing, and on a continual basis. There shall be a questionnaire developed which will answer the following general questions:

- A description of eligible investment securities, and a written statement of investment policy and objectives.
- A description of interest calculations and how it is distributed, and how gains and losses are treated.
- A description of how the securities are safeguarded (including the settlement processes), and how often the securities are priced and the program audited.
- A description of who may invest in the program, how often, and what size deposits and withdrawals are allowed.
- A schedule for receiving statements and portfolio listings.
- Are reserves, retained earnings, etc., utilized by the pool/fund?
- A fee schedule, and when and how is it assessed.
- Is the pool/fund eligible for bond proceeds and/or will it accept such proceeds?

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10.0 COLLATERALIZATION

Collateralization will be required on certificates of deposit. In order to anticipate market changes and provide a level of security for all funds, the collateralization level will be 102% of market value of principal and accrued interest. Collateral will always be held by an independent third party with whom the entity has a current custodial agreement. A clearly marked evidence of ownership (safekeeping receipt) must be supplied to the entity and retained. The right of collateral substitution is granted.

11.0: SAFEKEEPING AND CUSTODY

All security transactions entered into by the Otay Water District shall be conducted on a delivery-versus-payment (DVP) basis. Securities will be held by a third party custodian designated by the District and evidenced by safekeeping receipts.

12.0: DIVERSIFICATION

The Otay Water District will diversify its investments by security type and institution, with limitations on the total amounts invested in each security type as detailed in Paragraph 8.0, above, so as to reduce overall portfolio risks while attaining benchmark average rate of return. With the exception of U.S. Treasury securities, government agencies, and authorized pools, no more than 50% of the District's total investment portfolio will be invested with a single financial institution.

13.0: MAXIMUM MATURITIES

To the extent possible, the Otay Water District will attempt to match its investments with anticipated cash flow requirements. Unless matched to a specific cash flow, the District will not directly invest in securities maturing more than five years from the date of purchase. However, for time deposits with banks or savings and loan associations, investment maturities will not exceed two years. Investments in commercial paper will be restricted to 270 days.

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14.0: INTERNAL CONTROL

The Chief Financial Officer shall establish an annual process of independent review by an external auditor. This review will provide internal control by assuring compliance with policies and procedures.

15.0: PERFORMANCE STANDARDS

The investment portfolio shall be designed with the objective of obtaining a rate of return throughout budgetary and economic cycles, commensurate with the investment risk constraints and the cash flow needs.

The Otay Water District's investment strategy is passive. Given this strategy, the basis used by the CFO to determine whether market yields are being achieved shall be the State of California Local Agency Investment Fund (LAIF) as a comparable benchmark.

16.0: REPORTING

The Chief Financial Officer shall provide the Board of Directors monthly investment reports which provide a clear picture of the status of the current investment portfolio. The management report should include comments on the fixed income markets and economic conditions, discussions regarding restrictions on percentage of investment by categories, possible changes in the portfolio structure going forward and thoughts on investment strategies. Schedules in the quarterly report should include the following:

- A listing of individual securities held at the end of the reporting period by authorized investment category.
- Average life and final maturity of all investments listed.
- Coupon, discount or earnings rate.
- Par value, amortized book value, and market value.
- Percentage of the portfolio represented by each investment category.

17.0: INVESTMENT POLICY ADOPTION

The Otay Water District's investment policy shall be adopted by resolution of the District's Board of Directors. The policy shall be reviewed annually by the Board and any modifications made thereto must be approved by the Board.

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18.0: GLOSSARY

See Appendix A.

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APPENDIX A: GLOSSARY

ACTIVE INVESTING: Active investors will purchase investments and continuously monitor their activity, often looking at the price movements of their stocks many times a day, in order to exploit profitable conditions. Typically, active investors are seeking short term profits.

AGENCIES: Federal agency securities and/or Government-sponsored enterprises.

BANKERS' ACCEPTANCE (BA): A draft or bill or exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill, as well as the issuer.

BENCHMARK: A comparative base for measuring the performance or risk tolerance of the investment portfolio. A benchmark should represent a close correlation to the level of risk and the average duration of the portfolio's investments.

BROKER/DEALER: Any individual or firm in the business of buying and selling securities for itself and others. Broker/dealers must register with the SEC. When acting as a broker, a broker/dealer executes orders on behalf of his/her client. When acting as a dealer, a broker/dealer executes trades for his/her firm's own account. Securities bought for the firm's own account may be sold to clients or other firms, or become a part of the firm's holdings.

CERTIFICATE OF DEPOSIT (CD): A short or medium term, interest bearing, FDIC insured debt instrument offered by banks and savings and loans. Money removed before maturity is subject to a penalty. CDs are a low risk, low return investment, and are also known as "time deposits", because the account holder has agreed to keep the money in the account for a specified amount of time, anywhere from a few months to several years.

COLLATERAL: Securities, evidence of deposit or other property, which a borrower pledges to secure repayment of a loan. Also refers to securities pledged by a bank to secure deposits of public monies.

COMMERCIAL PAPER: An unsecured short-term promissory note, issued by corporations, with maturities ranging from 2 to 270 days.

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COMPREHENSIVE ANNUAL FINANCIAL REPORT (CAFR): The official annual report for the Otay Water District. It includes detailed financial information prepared in conformity with generally accepted accounting principles (GAAP). It also includes supporting schedules necessary to demonstrate compliance with finance-related legal and contractual provisions, extensive introductory material, and a detailed statistical section.

COUPON: (a) The annual rate of interest that a bond's issuer promises to pay the bondholder on the bond's face value. (b) A certificate attached to a bond evidencing interest due on a set date.

DEALER: A dealer, as opposed to a broker, acts as a principal in all transactions, buying and selling for his own account.

DEBENTURE: A bond secured only by the general credit of the issuer.

DELIVERY VERSUS PAYMENT: There are two methods of delivery of securities: delivery versus payment and delivery versus receipt. Delivery versus payment is delivery of securities with an exchange of money for the securities. Delivery versus receipt is delivery of securities with an exchange of a signed receipt for the securities.

DERIVATIVES: (1) Financial instruments whose return profile is linked to, or derived from, the movement of one or more underlying index or security, and may include a leveraging factor, or (2) financial contracts based upon notional amounts whose value is derived from an underlying index or security (interest rates, foreign exchange rates, equities or commodities).

DISCOUNT: The difference between the cost price of a security and its maturity when quoted at lower than face value. A security selling below original offering price shortly after sale also is considered to be at a discount.

DISCOUNT SECURITIES: Non-interest bearing money market instruments that are issued at a discount and redeemed at maturity for full face value, e.g., U.S. Treasury Bills.

DIVERSIFICATION: Dividing investment funds among a variety of securities offering independent returns.

FEDERAL CREDIT AGENCIES: Agencies of the Federal government set up to supply credit to various classes of institutions and individuals, e.g.,

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S&L's, small business firms, students, farmers, farm cooperatives, and exporters.

FEDERAL DEPOSIT INSURANCE CORPORATION (FDIC): A federal agency that insures deposits in member banks and thrifts, currently up to \$100,000 per deposit.

FEDERAL FARM CREDIT BANK (FFCB): The Federal Farm Credit Bank system supports agricultural loans and issues securities and bonds in financial markets backed by these loans. It has consolidated the financing programs of several related farm credit agencies and corporations.

FEDERAL FUNDS RATE: The rate of interest at which Fed funds are traded. This rate is currently pegged by the Federal Reserve through open-market operations.

Federal Agricultural Mortgage Corporation (FAMC or Farmer Mac): A stockholder owned, publicly-traded corporation that was established under the Agricultural Credit Act of 1987, which added a new Title VIII to the Farm Credit Act of 1971. Farmer Mac is a government sponsored enterprise, whose mission is to provide a secondary market for agricultural real estate mortgage loans, rural housing mortgage loans, and rural utility cooperative loans. The corporation is authorized to purchase and guarantee securities. Farmer Mac guarantees that all security holders will receive timely payments of principal and interest.

FEDERAL HOME LOAN BANK (FHLB): Government sponsored wholesale banks (currently 12 regional banks), which lend funds and provide correspondent banking services to member commercial banks, thrift institutions, credit unions and insurance companies.

FEDERAL HOME LOAN MORTGAGE CORPORATION (FHLMC or Freddie Mac): A stockholder owned, publicly traded company chartered by the United States federal government in 1970 to purchase mortgages and related securities, and then issue securities and bonds in financial markets backed by those mortgages in secondary markets. Freddie Mac, like its competitor Fannie Mae, is regulated by the United States Department of Housing and Urban Development (HUD).

FEDERAL NATIONAL MORTGAGE ASSOCIATION (FNMA or Fannie Mae): FNMA, like GNMA was chartered under the Federal National Mortgage Association Act in 1938. FNMA is a federal corporation working under the auspices of the Department of Housing and Urban Development (HUD). It is the

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largest single provider of residential mortgage funds in the United States. Fannie Mae is a private stockholder-owned corporation. The corporation's purchases include a variety of adjustable mortgages and second loans, in addition to fixed-rate mortgages. FNMA's securities are also highly liquid and are widely accepted. FNMA assumes and guarantees that all security holders will receive timely payment of principal and interest.

FEDERAL RESERVE SYSTEM: The central bank of the United States created by Congress and consisting of a seven member Board of Governors in Washington, D.C., 12 regional banks and about 5,700 commercial banks that are members of the system.

GOVERNMENT NATIONAL MORTGAGE ASSOCIATION (GNMA or Ginnie Mae): A government owned agency which buys mortgages from lending institutions, securitizes them, and then sells them to investors. Because the payments to investors are guaranteed by the full faith and credit of the U.S. Government, they return slightly less interest than other mortgage-backed securities.

INTEREST-ONLY STRIPS: A mortgage backed instrument where the investor receives only the interest, no principal, from a pool of mortgages. Issues are highly interest rate sensitive, and cash flows vary between interest periods. Also, the maturity date may occur earlier than that stated if all loans within the pool are pre-paid. High prepayments on underlying mortgages can return less to the holder than the dollar amount invested.

INVERSE FLOATER: A bond or note that does not earn a fixed rate of interest. Rather, the interest rate is tied to a specific interest rate index identified in the bond/note structure. The interest rate earned by the bond/note will move in the opposite direction of the index. An inverse floater increases the market rate risk and modified duration of the investment.

LEVERAGE: Investing with borrowed money with the expectation that the interest earned on the investment will exceed the interest paid on the borrowed money.

LIQUIDITY: A liquid asset is one that can be converted easily and rapidly into cash without a substantial loss of value. In the money market, a security is said to be liquid if the spread between bid and asked prices is narrow and reasonable size can be done at those quotes.

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LOCAL AGENCY INVESTMENT FUND (LAIF): The aggregate of all funds from political subdivisions that are placed in the custody of the State Treasurer for investment and reinvestment.

MARKET VALUE: The price at which a security is trading and could presumably be purchased or sold.

MASTER REPURCHASE AGREEMENT: A written contract covering all future transactions between the parties to repurchase/reverse repurchase agreements that establish each party's rights in the transactions. A master agreement will often specify, among other things, the right of the buyer-lender to liquidate the underlying securities in the event of default by the seller borrower.

MATURITY: The date upon which the principal or stated value of an investment becomes due and payable.

MONEY MARKET: The market in which short-term debt instruments (bills, commercial paper, bankers' acceptances, etc.) are issued and traded.

MUTUAL FUNDS: An open-ended fund operated by an investment company which raises money from shareholders and invests in a group of assets, in accordance with a stated set of objectives. Mutual funds raise money by selling shares of the fund to the public. Mutual funds then take the money they receive from the sale of their shares (along with any money made from previous investments) and use it to purchase various investment vehicles, such as stocks, bonds, and money market instruments.

MONEY MARKET MUTUAL FUNDS: An open-end mutual fund which invests only in money markets. These funds invest in short term (one day to one year) debt obligations such as Treasury bills, certificates of deposit, and commercial paper.

NATIONAL ASSOCIATION OF SECURITIES DEALERS (NASD): A self-regulatory organization of the securities industry responsible for the operation and regulation of the NASDAQ stock market and over-the-counter markets. Its regulatory mandate includes authority over firms that distribute mutual fund shares as well as other securities.

PASSIVE INVESTING: An investment strategy involving limited ongoing buying and selling actions. Passive investors will purchase investments with the intention of long term appreciation and limited maintenance, and typically don't actively attempt to profit from short term price fluctuations. Also known as a buy-and-hold strategy.

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PRIMARY DEALER: A designation given by the Federal Reserve System to commercial banks or broker/dealers who meet specific criteria, including capital requirements and participation in Treasury auctions. These dealers submit daily reports of market activity and positions and monthly financial statements to the Federal Reserve Bank of New York and are subject to its informal oversight. Primary dealers include Securities and Exchange Commission registered securities broker/dealers, banks, and a few unregulated firms.

PRUDENT PERSON RULE: An investment standard. In some states the law requires that a fiduciary, such as a trustee, may invest money only in a list of securities selected by the custody state—the so-called legal list. In other states the trustee may invest in a security if it is one which would be bought by a prudent person of discretion and intelligence who is seeking a reasonable income and preservation of capital.

PUBLIC SECURITIES ASSOCIATION (PSA): A trade organization of dealers, brokers, and bankers who underwrite and trade securities offerings.

QUALIFIED PUBLIC DEPOSITORIES: A financial institution which does not claim exemption from the payment of any sales or compensating use or ad valorem taxes under the laws of this state, which has segregated for the benefit of the commission eligible collateral having a value of not less than its maximum liability and which has been approved by the Public Deposit Protection Commission to hold public deposits.

RANGE NOTE: An investment whose coupon payment varies and is dependent on whether the current benchmark falls within a pre-determined range.

RATE OF RETURN: The yield obtainable on a security based on its purchase price or its current market price. This may be the amortized yield to maturity on a bond the current income return.

REGIONAL DEALER: A securities broker/dealer, registered with the Securities & Exchange Commission (SEC), who meets all of the licensing requirements for buying and selling securities.

REPURCHASE AGREEMENT (RP OR REPO): A holder of securities sells these securities to an investor with an agreement to repurchase them at a fixed price on a fixed date. The security "buyer" in effect lends the "seller" money for the period of the agreement, and the terms of the agreement are structured to compensate him for this. Dealers use RP extensively to finance their positions. Exception: When the Fed is

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said to be doing RP, it is lending money that is increasing bank reserves.

SAFEKEEPING: A service to customers rendered by banks for a fee whereby securities and valuables of all types and descriptions are held in the bank's vaults for protection.

SECONDARY MARKET: A market made for the purchase and sale of outstanding securities issues following their initial distribution.

SECURITIES & EXCHANGE COMMISSION: Agency created by Congress to protect investors in securities transactions by administering securities legislation.

SEC RULE 15C3-1: See Uniform Net Capital Rule.

STRUCTURED NOTES: Notes issued by Government Sponsored Enterprises (FHLB, FNMA, FAMCASLMA, etc.), and Corporations, which have imbedded options (e.g., call features, step-up coupons, floating rate coupons, derivative-based returns) into their debt structure. Their market performance is impacted by the fluctuation of interest rates, the volatility of the imbedded options and shifts in the shape of the yield curve.

~~**STUDENT LOAN MARKETING ASSOCIATION (SLMA or Sallie Mae):** A federally established, publicly traded corporation which buys student loans from colleges and other lenders, pools them, and sells them to investors.~~

TREASURY BILLS: A non-interest bearing discount security issued by the U.S. Treasury to finance the national debt. Most bills are issued to mature in three months, six months, or one year.

TREASURY BONDS: Long-term coupon-bearing U.S. Treasury securities issued as direct obligations of the U.S. Government and having initial maturities of more than 10 years.

TREASURY NOTES: Medium-term coupon-bearing U.S. Treasury securities issued as direct obligations of the U.S. Government and having initial maturities from two to 10 years.

UNIFORM NET CAPITAL RULE: Securities and Exchange Commission requirement that member firms as well as nonmember broker-dealers in securities maintain a maximum ratio of indebtedness to liquid capital of 15 to 1; also called net capital rule and net capital ratio.

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Indebtedness covers all money owed to a firm, including margin loans and commitments to purchase securities, one reason new public issues are spread among members of underwriting syndicates. Liquid capital includes cash and assets easily converted into cash.

YIELD: The rate of annual income return on an investment, expressed as a percentage. (a) INCOME YIELD is obtained by dividing the current dollar income by the current market price for the security. (b) NET YIELD or YIELD TO MATURITY is the current income yield minus any premium above par or plus any discount from par in purchase price, with the adjustment spread over the period from the date of purchase to the date of maturity of the bond.

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1.0: POLICY

It is the policy of the Otay Water District to invest public funds in a manner which will provide maximum security with the best interest return, while meeting the daily cash flow demands of the entity and conforming to all state statues governing the investment of public funds.

2.0: SCOPE

This investment policy applies to all financial assets of the Otay Water District. The District pools all cash for investment purposes. These funds are accounted for in the District's audited Comprehensive Annual Financial Report (CAFR) and include:

- 2.1) General Fund
- 2.2) Capital Project Funds
 - 2.2.1) Designated Expansion Fund
 - 2.2.2) Restricted Expansion Fund
 - 2.2.3) Designated Betterment Fund
 - 2.2.4) Restricted Betterment Fund
 - 2.2.5) Designated Replacement Fund
 - 2.2.6) Restricted New Water Supply Fund
- 2.3) Other Post Employment Fund (OPEB)
- 2.4) Debt Reserve Fund

Exceptions to the pooling of funds do exist for tax-exempt debt proceeds, debt reserves and deferred compensation funds. Funds received from the sale of general obligation bonds, certificates of participation or other tax-exempt financing vehicles are segregated from pooled investments and the investment of such funds are guided by the legal documents that govern the terms of such debt issuances.

3.0: PRUDENCE

Investments should be made with judgment and care, under current prevailing circumstances, which persons of prudence, discretion and intelligence, exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived.

The standard of prudence to be used by investment officials shall be the "Prudent Person" and/or "Prudent Investor" standard (California Government Code 53600.3) and shall be applied in the context of managing an overall portfolio. Investment officers acting in accordance with written procedures and the investment policy and exercising due diligence shall be relieved of personal responsibility

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for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and appropriate action is taken to control adverse developments.

4.0: OBJECTIVE

As specified in the California Government Code 53600.5, when investing, reinvesting, purchasing, acquiring, exchanging, selling and managing public funds, the primary objectives, in priority order, of the investment activities shall be:

- 4.1) Safety: Safety of principal is the foremost objective of the investment program. Investments of the Otay Water District shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. To attain this objective, the District will diversify its investments by investing funds among a variety of securities offering independent returns and financial institutions.
- 4.2) Liquidity: The Otay Water District's investment portfolio will remain sufficiently liquid to enable the District to meet all operating requirements which might be reasonably anticipated.
- 4.3) Return on Investment: The Otay Water District's investment portfolio shall be designed with the objective of attaining a benchmark rate of return throughout budgetary and economic cycles, commensurate with the District's investment risk constraints and the cash flow characteristics of the portfolio.

5.0 DELEGATION OF AUTHORITY

Authority to manage the Otay Water District's investment program is derived from the California Government Code, Sections 53600 through 53692. Management responsibility for the investment program is hereby delegated to the Chief Financial Officer (CFO), who shall be responsible for all transactions undertaken and shall establish a system of controls to regulate the activities of subordinate officials and their procedures in the absence of the CFO.

The CFO shall establish written investment policy procedures for the operation of the investment program consistent with this policy. Such procedures shall include explicit delegation of authority to persons responsible for investment transactions. No person may engage in an investment transaction except as provided under the terms of this policy and the procedures established by the CFO.

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6.0: ETHICS AND CONFLICTS OF INTEREST

Officers and employees involved in the investment process shall refrain from personal business activity that could conflict with the proper execution and management of the investment program, or that could impair their ability to make impartial investment decisions. Employees and investment officials shall disclose to the General Manager any material financial interests in financial institutions with which they conduct business. They shall further disclose any personal financial/investment positions that could be related to the performance of the investment portfolio. Employees and officers shall refrain from undertaking personal investment transactions with the same individual with whom business is conducted on behalf of the District.

7.0: AUTHORIZED FINANCIAL DEALERS AND INSTITUTIONS

The Chief Financial Officer shall maintain a list of financial institutions authorized to provide investment services. In addition, a list will also be maintained of approved security broker/dealers who are authorized to provide investment services in the State of California. These may include "primary" dealers or regional dealers that qualify under Securities & Exchange Commission Rule 15C3-1 (Uniform Net Capital Rule). No public deposit shall be made except in a qualified public depository as established by state laws.

All financial institutions and broker/dealers who desire to become qualified bidders for investment transactions must supply the District with the following, as appropriate:

- Audited Financial Statements.
- Proof of National Association of Security Dealers (NASD) certification.
- Proof of state registration.
- Completed broker/dealer questionnaire.
- Certification of having read the District's Investment Policy.
- Evidence of adequate insurance coverage.

An annual review of the financial condition and registrations of qualified bidders will be conducted by the CFO. A current audited financial statement is required to be on file for each financial institution and broker/dealer in which the District invests.

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8.0: AUTHORIZED AND SUITABLE INVESTMENTS

From the governing body perspective, special care must be taken to ensure that the list of instruments includes only those allowed by law and those that local investment managers are trained and competent to handle. The District is governed by the California Government Code, Sections 53600 through 53692, to invest in the following types of securities, as further limited herein:

8.01) United States Treasury Bills, Bonds, Notes or those instruments for which the full faith and credit of the United States are pledged for payment of principal and interest. There is no percentage limitation of the portfolio which can be invested in this category, although a five-year maturity limitation is applicable.

8.02) Local Agency Investment Fund (LAIF), which is a State of California managed investment pool, may be used up to the maximum permitted by State Law (currently \$50 million). The District may also invest bond proceeds in LAIF with the same but independent maximum limitation.

8.03) Bonds, debentures, notes and other evidence of indebtedness issued by any of the following government agency issuers:

- Federal Home Loan Bank (FHLB)
- Federal Home Loan Mortgage Corporation (FHLMC or "Freddie Mac")
- Federal National Mortgage Association (FNMA or "Fannie Mae")
- Government National Mortgage Association (GNMA or "Ginnie Mae")
- Federal Farm Credit Bank (FFCB)
- Federal Agricultural Mortgage Corporation (FAMCA or "Farmer Mac")

There is no percentage limitation of the portfolio which can be invested in this category, although a five-year maturity limitation is applicable.

8.04) Interest-bearing demand deposit accounts and Certificates of Deposit (CD) will be made only in Federal Deposit Insurance Corporation (FDIC) insured accounts. For deposits in excess of the insured maximum of \$250,000, approved collateral shall be required in accordance with California Government Code,

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Section 53652. Investments in CD's are limited to 15 percent of the District's portfolio.

8.05) Commercial paper, which is short-term, unsecured promissory notes of corporate and public entities. Purchases of eligible commercial paper may not exceed 10 percent of the outstanding paper of an issuing corporation, and maximum investment maturity will be restricted to 270 days. Investment is further limited as described in California Government Code, Section 53601(h). Purchases of commercial paper may not exceed 15 percent of the District's portfolio and no more than 10 percent of the outstanding commercial paper of any single issuer.

8.06) Medium-term notes defined as all corporate debt securities with a maximum remaining maturity of five years or less, and that meet the further requirements of California Government Code, Section 53601(k). Investments in medium-term notes are limited to 15 percent of the District's portfolio.

8.07) Money market mutual funds that invest only in Treasury securities and repurchase agreements collateralized with Treasury securities, and that meet the further requirements of California Government Code, Section 53601(l). Investments in money market mutual funds are limited to 10 percent of the District's portfolio.

8.08) The San Diego County Treasurer's Pooled Money Fund, which is a County managed investment pool, may be used by the Otay Water District to invest excess funds. There is no percentage limitation of the portfolio which can be invested in this category.

8.09) Under the provisions of California Government Code 53601.6, the Otay Water District shall not invest any funds covered by this Investment Policy in inverse floaters, range notes, interest-only strips derived from mortgage pools, or any investment that may result in a zero interest accrual if held to maturity. Also, the borrowing of funds for investment purposes, known as leveraging, is prohibited.

9.0: INVESTMENT POOLS/MUTUAL FUNDS

A thorough investigation of the pool/fund is required prior to investing, and on a continual basis. There shall be a questionnaire developed which will answer the following general questions:

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- A description of eligible investment securities, and a written statement of investment policy and objectives.
- A description of interest calculations and how it is distributed, and how gains and losses are treated.
- A description of how the securities are safeguarded (including the settlement processes), and how often the securities are priced and the program audited.
- A description of who may invest in the program, how often, and what size deposits and withdrawals are allowed.
- A schedule for receiving statements and portfolio listings.
- Are reserves, retained earnings, etc., utilized by the pool/fund?
- A fee schedule, and when and how is it assessed.
- Is the pool/fund eligible for bond proceeds and/or will it accept such proceeds?

10.0 COLLATERALIZATION

Collateralization will be required on certificates of deposit. In order to anticipate market changes and provide a level of security for all funds, the collateralization level will be 102% of market value of principal and accrued interest. Collateral will always be held by an independent third party with whom the entity has a current custodial agreement. A clearly marked evidence of ownership (safekeeping receipt) must be supplied to the entity and retained. The right of collateral substitution is granted.

11.0: SAFEKEEPING AND CUSTODY

All security transactions entered into by the Otay Water District shall be conducted on a delivery-versus-payment (DVP) basis. Securities will be held by a third party custodian designated by the District and evidenced by safekeeping receipts.

12.0: DIVERSIFICATION

The Otay Water District will diversify its investments by security type and institution, with limitations on the total amounts invested in each security type as detailed in Paragraph 8.0, above, so as to reduce overall portfolio risks while attaining benchmark average rate of return. With the exception of U.S. Treasury securities, government agencies, and authorized pools, no more than 50% of the District's total investment portfolio will be invested with a single financial institution.

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13.0: MAXIMUM MATURITIES

To the extent possible, the Otay Water District will attempt to match its investments with anticipated cash flow requirements. Unless matched to a specific cash flow, the District will not directly invest in securities maturing more than five years from the date of purchase. However, for time deposits with banks or savings and loan associations, investment maturities will not exceed two years. Investments in commercial paper will be restricted to 270 days.

14.0: INTERNAL CONTROL

The Chief Financial Officer shall establish an annual process of independent review by an external auditor. This review will provide internal control by assuring compliance with policies and procedures.

15.0: PERFORMANCE STANDARDS

The investment portfolio shall be designed with the objective of obtaining a rate of return throughout budgetary and economic cycles, commensurate with the investment risk constraints and the cash flow needs.

The Otay Water District's investment strategy is passive. Given this strategy, the basis used by the CFO to determine whether market yields are being achieved shall be the State of California Local Agency Investment Fund (LAIF) as a comparable benchmark.

16.0: REPORTING

The Chief Financial Officer shall provide the Board of Directors monthly investment reports which provide a clear picture of the status of the current investment portfolio. The management report should include comments on the fixed income markets and economic conditions, discussions regarding restrictions on percentage of investment by categories, possible changes in the portfolio structure going forward and thoughts on investment strategies. Schedules in the quarterly report should include the following:

- A listing of individual securities held at the end of the reporting period by authorized investment category.
- Average life and final maturity of all investments listed.
- Coupon, discount or earnings rate.
- Par value, amortized book value, and market value.

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- Percentage of the portfolio represented by each investment category.

17.0: INVESTMENT POLICY ADOPTION

The Otay Water District's investment policy shall be adopted by resolution of the District's Board of Directors. The policy shall be reviewed annually by the Board and any modifications made thereto must be approved by the Board.

18.0: GLOSSARY

See Appendix A.

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APPENDIX A: GLOSSARY

ACTIVE INVESTING: Active investors will purchase investments and continuously monitor their activity, often looking at the price movements of their stocks many times a day, in order to exploit profitable conditions. Typically, active investors are seeking short term profits.

AGENCIES: Federal agency securities and/or Government-sponsored enterprises.

BANKERS' ACCEPTANCE (BA): A draft or bill or exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill, as well as the issuer.

BENCHMARK: A comparative base for measuring the performance or risk tolerance of the investment portfolio. A benchmark should represent a close correlation to the level of risk and the average duration of the portfolio's investments.

BROKER/DEALER: Any individual or firm in the business of buying and selling securities for itself and others. Broker/dealers must register with the SEC. When acting as a broker, a broker/dealer executes orders on behalf of his/her client. When acting as a dealer, a broker/dealer executes trades for his/her firm's own account. Securities bought for the firm's own account may be sold to clients or other firms, or become a part of the firm's holdings.

CERTIFICATE OF DEPOSIT (CD): A short or medium term, interest bearing, FDIC insured debt instrument offered by banks and savings and loans. Money removed before maturity is subject to a penalty. CDs are a low risk, low return investment, and are also known as "time deposits", because the account holder has agreed to keep the money in the account for a specified amount of time, anywhere from a few months to several years.

COLLATERAL: Securities, evidence of deposit or other property, which a borrower pledges to secure repayment of a loan. Also refers to securities pledged by a bank to secure deposits of public monies.

COMMERCIAL PAPER: An unsecured short-term promissory note, issued by corporations, with maturities ranging from 2 to 270 days.

COMPREHENSIVE ANNUAL FINANCIAL REPORT (CAFR): The official annual report for the Otay Water District. It includes detailed financial

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information prepared in conformity with generally accepted accounting principles (GAAP). It also includes supporting schedules necessary to demonstrate compliance with finance-related legal and contractual provisions, extensive introductory material, and a detailed statistical section.

COUPON: (a) The annual rate of interest that a bond's issuer promises to pay the bondholder on the bond's face value. (b) A certificate attached to a bond evidencing interest due on a set date.

DEALER: A dealer, as opposed to a broker, acts as a principal in all transactions, buying and selling for his own account.

DEBENTURE: A bond secured only by the general credit of the issuer.

DELIVERY VERSUS PAYMENT: There are two methods of delivery of securities: delivery versus payment and delivery versus receipt. Delivery versus payment is delivery of securities with an exchange of money for the securities. Delivery versus receipt is delivery of securities with an exchange of a signed receipt for the securities.

DERIVATIVES: (1) Financial instruments whose return profile is linked to, or derived from, the movement of one or more underlying index or security, and may include a leveraging factor, or (2) financial contracts based upon notional amounts whose value is derived from an underlying index or security (interest rates, foreign exchange rates, equities or commodities).

DISCOUNT: The difference between the cost price of a security and its maturity when quoted at lower than face value. A security selling below original offering price shortly after sale also is considered to be at a discount.

DISCOUNT SECURITIES: Non-interest bearing money market instruments that are issued at a discount and redeemed at maturity for full face value, e.g., U.S. Treasury Bills.

DIVERSIFICATION: Dividing investment funds among a variety of securities offering independent returns.

FEDERAL CREDIT AGENCIES: Agencies of the Federal government set up to supply credit to various classes of institutions and individuals, e.g., S&L's, small business firms, students, farmers, farm cooperatives, and exporters.

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FEDERAL DEPOSIT INSURANCE CORPORATION (FDIC): A federal agency that insures deposits in member banks and thrifts, currently up to \$100,000 per deposit.

FEDERAL FARM CREDIT BANK (FFCB): The Federal Farm Credit Bank system supports agricultural loans and issues securities and bonds in financial markets backed by these loans. It has consolidated the financing programs of several related farm credit agencies and corporations.

FEDERAL FUNDS RATE: The rate of interest at which Fed funds are traded. This rate is currently pegged by the Federal Reserve through open-market operations.

Federal Agricultural Mortgage Corporation (FAMC or Farmer Mac): A stockholder owned, publicly-traded corporation that was established under the Agricultural Credit Act of 1987, which added a new Title VIII to the Farm Credit Act of 1971. Farmer Mac is a government sponsored enterprise, whose mission is to provide a secondary market for agricultural real estate mortgage loans, rural housing mortgage loans, and rural utility cooperative loans. The corporation is authorized to purchase and guarantee securities. Farmer Mac guarantees that all security holders will receive timely payments of principal and interest.

FEDERAL HOME LOAN BANK (FHLB): Government sponsored wholesale banks (currently 12 regional banks), which lend funds and provide correspondent banking services to member commercial banks, thrift institutions, credit unions and insurance companies.

FEDERAL HOME LOAN MORTGAGE CORPORATION (FHLMC or Freddie Mac): A stockholder owned, publicly traded company chartered by the United States federal government in 1970 to purchase mortgages and related securities, and then issue securities and bonds in financial markets backed by those mortgages in secondary markets. Freddie Mac, like its competitor Fannie Mae, is regulated by the United States Department of Housing and Urban Development (HUD).

FEDERAL NATIONAL MORTGAGE ASSOCIATION (FNMA or Fannie Mae): FNMA, like GNMA was chartered under the Federal National Mortgage Association Act in 1938. FNMA is a federal corporation working under the auspices of the Department of Housing and Urban Development (HUD). It is the largest single provider of residential mortgage funds in the United States. Fannie Mae is a private stockholder-owned corporation. The corporation's purchases include a variety of adjustable mortgages and second loans, in addition to fixed-rate mortgages. FNMA's securities

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are also highly liquid and are widely accepted. FNMA assumes and guarantees that all security holders will receive timely payment of principal and interest.

FEDERAL RESERVE SYSTEM: The central bank of the United States created by Congress and consisting of a seven member Board of Governors in Washington, D.C., 12 regional banks and about 5,700 commercial banks that are members of the system.

GOVERNMENT NATIONAL MORTGAGE ASSOCIATION (GNMA or Ginnie Mae): A government owned agency which buys mortgages from lending institutions, securitizes them, and then sells them to investors. Because the payments to investors are guaranteed by the full faith and credit of the U.S. Government, they return slightly less interest than other mortgage-backed securities.

INTEREST-ONLY STRIPS: A mortgage backed instrument where the investor receives only the interest, no principal, from a pool of mortgages. Issues are highly interest rate sensitive, and cash flows vary between interest periods. Also, the maturity date may occur earlier than that stated if all loans within the pool are pre-paid. High prepayments on underlying mortgages can return less to the holder than the dollar amount invested.

INVERSE FLOATER: A bond or note that does not earn a fixed rate of interest. Rather, the interest rate is tied to a specific interest rate index identified in the bond/note structure. The interest rate earned by the bond/note will move in the opposite direction of the index. An inverse floater increases the market rate risk and modified duration of the investment.

LEVERAGE: Investing with borrowed money with the expectation that the interest earned on the investment will exceed the interest paid on the borrowed money.

LIQUIDITY: A liquid asset is one that can be converted easily and rapidly into cash without a substantial loss of value. In the money market, a security is said to be liquid if the spread between bid and asked prices is narrow and reasonable size can be done at those quotes.

LOCAL AGENCY INVESTMENT FUND (LAIF): The aggregate of all funds from political subdivisions that are placed in the custody of the State Treasurer for investment and reinvestment.

MARKET VALUE: The price at which a security is trading and could presumably be purchased or sold.

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MASTER REPURCHASE AGREEMENT: A written contract covering all future transactions between the parties to repurchase/reverse repurchase agreements that establish each party's rights in the transactions. A master agreement will often specify, among other things, the right of the buyer-lender to liquidate the underlying securities in the event of default by the seller borrower.

MATURITY: The date upon which the principal or stated value of an investment becomes due and payable.

MONEY MARKET: The market in which short-term debt instruments (bills, commercial paper, bankers' acceptances, etc.) are issued and traded.

MUTUAL FUNDS: An open-ended fund operated by an investment company which raises money from shareholders and invests in a group of assets, in accordance with a stated set of objectives. Mutual funds raise money by selling shares of the fund to the public. Mutual funds then take the money they receive from the sale of their shares (along with any money made from previous investments) and use it to purchase various investment vehicles, such as stocks, bonds, and money market instruments.

MONEY MARKET MUTUAL FUNDS: An open-end mutual fund which invests only in money markets. These funds invest in short term (one day to one year) debt obligations such as Treasury bills, certificates of deposit, and commercial paper.

NATIONAL ASSOCIATION OF SECURITIES DEALERS (NASD): A self-regulatory organization of the securities industry responsible for the operation and regulation of the NASDAQ stock market and over-the-counter markets. Its regulatory mandate includes authority over firms that distribute mutual fund shares as well as other securities.

PASSIVE INVESTING: An investment strategy involving limited ongoing buying and selling actions. Passive investors will purchase investments with the intention of long term appreciation and limited maintenance, and typically don't actively attempt to profit from short term price fluctuations. Also known as a buy-and-hold strategy.

PRIMARY DEALER: A designation given by the Federal Reserve System to commercial banks or broker/dealers who meet specific criteria, including capital requirements and participation in Treasury auctions. These dealers submit daily reports of market activity and positions and monthly financial statements to the Federal Reserve Bank of New York and are subject to its informal oversight. Primary dealers include

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Securities and Exchange Commission registered securities broker/dealers, banks, and a few unregulated firms.

PRUDENT PERSON RULE: An investment standard. In some states the law requires that a fiduciary, such as a trustee, may invest money only in a list of securities selected by the custody state—the so-called legal list. In other states the trustee may invest in a security if it is one which would be bought by a prudent person of discretion and intelligence who is seeking a reasonable income and preservation of capital.

PUBLIC SECURITIES ASSOCIATION (PSA): A trade organization of dealers, brokers, and bankers who underwrite and trade securities offerings.

QUALIFIED PUBLIC DEPOSITORIES: A financial institution which does not claim exemption from the payment of any sales or compensating use or ad valorem taxes under the laws of this state, which has segregated for the benefit of the commission eligible collateral having a value of not less than its maximum liability and which has been approved by the Public Deposit Protection Commission to hold public deposits.

RANGE NOTE: An investment whose coupon payment varies and is dependent on whether the current benchmark falls within a pre-determined range.

RATE OF RETURN: The yield obtainable on a security based on its purchase price or its current market price. This may be the amortized yield to maturity on a bond the current income return.

REGIONAL DEALER: A securities broker/dealer, registered with the Securities & Exchange Commission (SEC), who meets all of the licensing requirements for buying and selling securities.

REPURCHASE AGREEMENT (RP OR REPO): A holder of securities sells these securities to an investor with an agreement to repurchase them at a fixed price on a fixed date. The security "buyer" in effect lends the "seller" money for the period of the agreement, and the terms of the agreement are structured to compensate him for this. Dealers use RP extensively to finance their positions. Exception: When the Fed is said to be doing RP, it is lending money that is increasing bank reserves.

SAFEKEEPING: A service to customers rendered by banks for a fee whereby securities and valuables of all types and descriptions are held in the bank's vaults for protection.

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SECONDARY MARKET: A market made for the purchase and sale of outstanding securities issues following their initial distribution.

SECURITIES & EXCHANGE COMMISSION: Agency created by Congress to protect investors in securities transactions by administering securities legislation.

SEC RULE 15C3-1: See Uniform Net Capital Rule.

STRUCTURED NOTES: Notes issued by Government Sponsored Enterprises (FHLB, FNMA, FAMCA, etc.), and Corporations, which have imbedded options (e.g., call features, step-up coupons, floating rate coupons, derivative-based returns) into their debt structure. Their market performance is impacted by the fluctuation of interest rates, the volatility of the imbedded options and shifts in the shape of the yield curve.

TREASURY BILLS: A non-interest bearing discount security issued by the U.S. Treasury to finance the national debt. Most bills are issued to mature in three months, six months, or one year.

TREASURY BONDS: Long-term coupon-bearing U.S. Treasury securities issued as direct obligations of the U.S. Government and having initial maturities of more than 10 years.

TREASURY NOTES: Medium-term coupon-bearing U.S. Treasury securities issued as direct obligations of the U.S. Government and having initial maturities from two to 10 years.

UNIFORM NET CAPITAL RULE: Securities and Exchange Commission requirement that member firms as well as nonmember broker-dealers in securities maintain a maximum ratio of indebtedness to liquid capital of 15 to 1; also called net capital rule and net capital ratio. Indebtedness covers all money owed to a firm, including margin loans and commitments to purchase securities, one reason new public issues are spread among members of underwriting syndicates. Liquid capital includes cash and assets easily converted into cash.

YIELD: The rate of annual income return on an investment, expressed as a percentage. (a) INCOME YIELD is obtained by dividing the current dollar income by the current market price for the security. (b) NET YIELD or YIELD TO MATURITY is the current income yield minus any premium above par or plus any discount from par in purchase price, with the adjustment spread over the period from the date of purchase to the date of maturity of the bond.



INVESTMENT POLICY No. 27 & PERFORMANCE REVIEW

July 3, 2013



POLICY REVIEW

- **Purpose:**

- Annual Policy Review
- Investment Performance Review
- Delegation of Investment Authority



INVESTMENT POLICY GUIDELINES

A. California Government Code:

Sections 53600 through 53692

B. Investment Policy Certification:

Association of Public Treasurers of the United States & Canada (APT US&C)

POLICY REVIEW

▪ Review of Proposed Changes

- Added debt reserves as an exception to the pooling of funds (Section 2.0: Scope).
- Removed Sallie Mae from the list of government agency issuers and related definition (Section 8.0: Authorized and Suitable Investments, 8.03)
- Added Federal Agricultural Mortgage Corporation and related definition (Section 8.0: Authorized and Suitable Investments, 8.03)

POLICY REVIEW (cont.)

- Increased the FDIC insured deposit amount from \$100,000 to \$250,000 (Section 8.0: Authorized and Suitable Investments, 8.04)
- Added to the commercial paper limitation that the District may not purchase more than 10 percent of the outstanding commercial paper of any single issuer. (Section 8.0: Authorized and Suitable Investments, 8.04)

INVESTMENT PERFORMANCE

Fund Objectives (in order of priority)

- Safety
- Liquidity
- Return on Investment

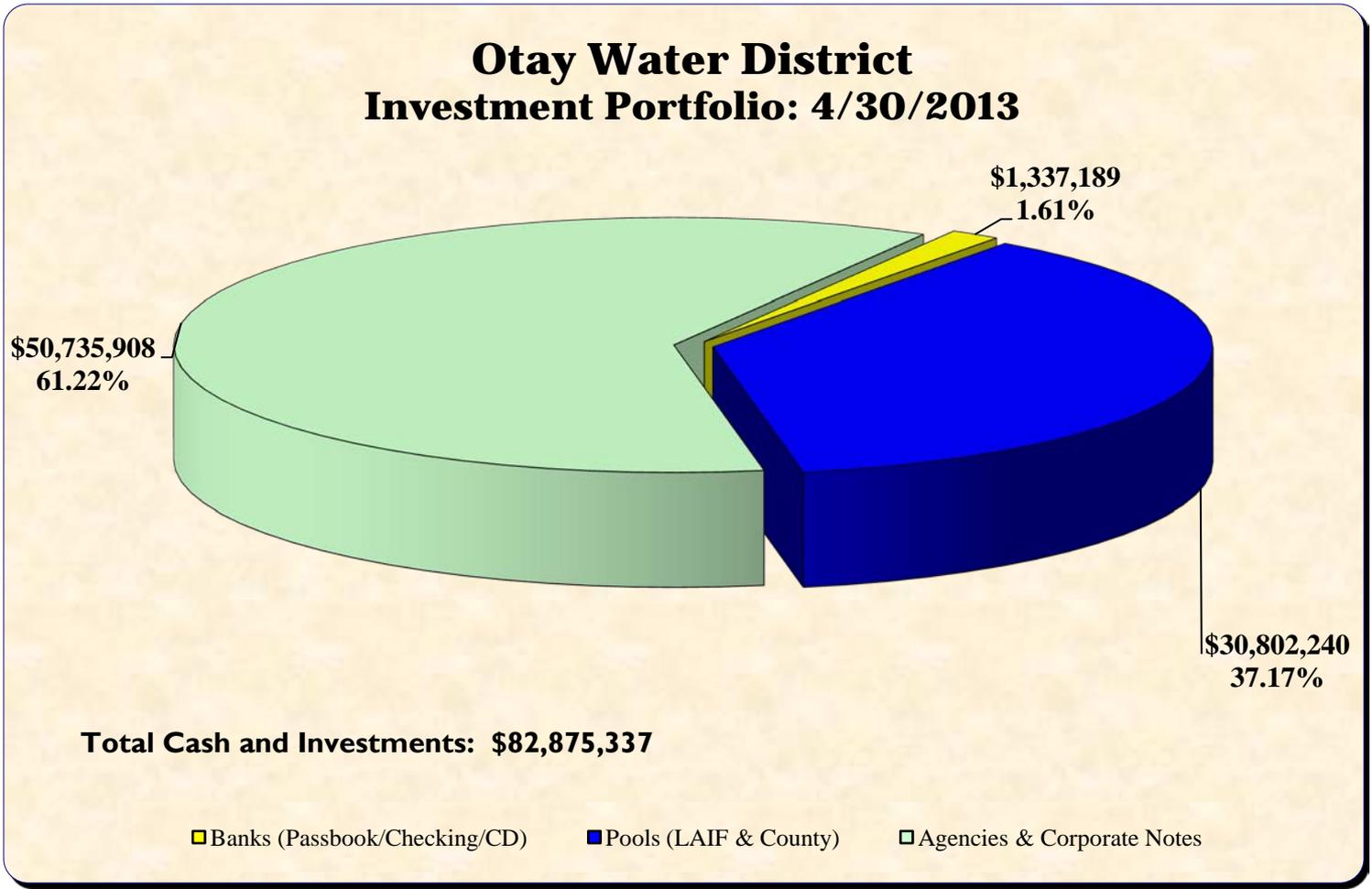
YTD Performance:

	<u>FY-13</u>	<u>FY-12</u>
➤ OTAY	0.42%	0.62%
➤ LAIF	0.30%	0.40%
➤ County Pool	0.41%	0.46%

INVESTMENT PORTFOLIO: 4/30/13

		Authorized	
	\$('000s)	\$ / %	Actual %
LAIF (Operating)	\$6,534	\$50 Mil	7.89%
LAIF (Bonds)	\$4,081	100%	4.92%
Govt. Agency Bonds	\$50,736	100%	61.22%
Bank Deposits & CDs	\$1,337	15%	1.61%
San Diego County Pool	\$20,187	50%	24.36%
TOTAL:	\$82,875		

INVESTMENT PORTFOLIO: 4/30/13





REQUESTED BOARD ACTION

Adopt Resolution No. 4213 to amend Investment Policy No. 27 and re-delegate authority for all investment related activities to the Chief Financial Officer (CFO).



Questions?

AGENDA ITEM 7



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	July 3, 2013
		PROJECT:	Various DIV. NO. All
SUBMITTED BY:	Rom Sarno Chief, Administrative Services		
APPROVED BY:	<input checked="" type="checkbox"/> German Alvarez, Assistant General Manager <input checked="" type="checkbox"/> Mark Watton, General Manager		
SUBJECT:	ADOPT RESOLUTION NO. 4215 TO ELECT FOUR (4) CANDIDATES FOR SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY'S BOARD OF DIRECTORS		

GENERAL MANAGER'S RECOMMENDATION:

That the Board adopt Resolution No. 4215 for the election of four (4) candidates for the Special District Risk Management Authority's (SDRMA) Board of Directors.

COMMITTEE ACTION:

Please see "Attachment A".

PURPOSE:

To present for the Board's consideration, the ballot to elect four (4) candidates for the Special District Risk Management Authority's (SDRMA) Board of Directors.

ANALYSIS:

SDRMA is holding an election to fill four (4) seats on its Board of Directors. Staff has reviewed each candidate's qualifications, background, experience and expertise, and in an effort to provide a good balance of representation (based on agencies represented) on

SDRMA's Board, staff is recommending that the following four (4) candidates be considered for election to their Board:

Muril Clift (Incumbent)
Director, Cambria Community Services District

Jean Bracy (Incumbent)
Director of Administrative Services, Mojave Desert Air Quality Management District

David Aranda (Incumbent)
General Manager, North of the River Municipal Water District

Mike Scheafer
Director/Vice President, Costa Mesa Sanitary District

Attached are statements of qualifications (Attachment B) as submitted by each candidate, along with the official election resolution (Attachment C) and ballot (Attachment D), which SDRMA requires to ensure the integrity of the balloting process. The ballot requests that the District select four (4) candidates when placing its vote.

The ballot must be sealed and received by 5:00 pm on Tuesday, August 27, 2013.

FISCAL IMPACT: Joe Beachem, Chief Financial Officer

None.

STRATEGIC GOAL:

Maintaining effective communications with other cities, special districts, State and Federal governments, community organizations, and Mexico.

LEGAL IMPACT:

None.

Attachments: Attachment A - Committee Action Report
 Attachment B - Candidates' Statement of Qualifications
 Attachment C - Resolution No. 4215
 Attachment D - Election Ballot



ATTACHMENT A

SUBJECT/PROJECT:	ADOPT RESOLUTION NO. 4215 TO ELECT FOUR (4) CANDIDATES FOR SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY'S BOARD OF DIRECTORS
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COMMITTEE ACTION:

The Finance, Administration and Communications Committee discussed this item at a meeting held on June 24, 2013. The Committee supports staff's recommendation to present to the full Board for their consideration.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for Board approval. This report will be sent to the Board as a committee approved item, or modified to reflect any discussion or changes as directed from the committee prior to presentation to the full Board.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate	Muril N. Clift		
District/Agency	Cambria Community Services District		
Work Address	PO Box 65 – 1316 Tamsen St., Cambria 93428		
Work Phone	805- 927-6223	Home Phone	805- 927-7124

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

It has been an honor and privilege to serve on SDRMA's Board of Directors for the past four years. During that time the Board, through prudent financial management has:

- Held rates stable in a serve recession.
- Instituted longevity bonuses for member loyalty
- Established programs to assist handling and preventing workers compensation claims through the Company Nurse Program and Safety Equipment Reimbursement Program
- Expanded training and professional development opportunities through financing the Targeted Solutions Program and Special Districts Leadership Foundation

I want to continue on the Board to support these programs and seek additional service opportunities to members while providing exceptional value in insurance access.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

My background includes a combination of a strong commitment to the concept of the Special District form of government and a 41 year career in the private personal and commercial insurance industry.

In addition to serving the past four years on the SDRMA Board, I currently serve as:

- Director, Cambria Community Services District
- Director, Special Districts Leadership Foundation
- Commissioner, San Luis Obispo County LAFCO
- Member, Special Districts Legislative Committee

I am totally committed to the Special District as the most direct form of local government.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

**What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)**

Having served on the Boards of several different types of Special Districts – School District, Airport District, Multi Services District and Single Service Agency – gives me an understanding of the different problems faced by districts and the opportunities for SDRMA to provide assistance.

My 41 year career, now retired, in the private personal and commercial insurance industry provides an understanding of the liabilities Districts face and how SDRMA can meet our member's risk management and insurance needs.

What is your overall vision for SDRMA? (Response Required)

My vision for SDRMA is incorporated in SDRMA's Mission Statement of "providing renewable, efficiently priced risk management services through a financially sound pool to CSDA member districts".

First, I see SDRMA's primary responsibility is to provide as much stability to risk financing as possible maintaining financial security of the risk pool.

Second, I see SDRMA expanding the risk management services through expanded training and professional development provided to its members.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date



**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – **no attachments will be accepted**. No statements are endorsed by SDRMA.

Nominee/Candidate Mike Scheafer
District/Agency Costa Mesa Sanitary District
Work Address 1551-B Baker St., Costa Mesa, CA 92626
Work Phone 714 435-0300 Home Phone 714 549-4961

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

As an insurance professional for over 40 years I have become acutely aware of the need for strong risk management practices and procedures. I work hard to not only manage my own risk, but those of my customers and my Special District. I have a desire to share my skill and expertise with the various Districts in California.

I believe the increasing stress and challenges in risk management for Special Districts need a knowledgeable, committed professional like myself.

My professional life has given me an opportunity to serve various "communities" in a number of ways. Serving on the SDRMA Board is another opportunity to serve, one in which I would be honored to do.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

I have served as a Board Member for a number of non-profit and civic groups and agencies. In almost every experience I have been chosen as Chair or President for those groups. I believe this is a demonstration of my leadership skills. I have received a number of awards for that service.

I founded 2 non-profit organizations dedicated to serving my community. I currently serve on 2 CSDA committees. I am a former City Councilmember for the City of Costa Mesa, former Parks and Recreation Commissioner, and previously served as a CMSD Director.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

**What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)**

I am a recognized leader and educator in the insurance industry with several awards for my experience in insurance awareness and risk avoidance. I hold a Community College teaching credential in Insurance Education.

State Farm Insurance appointed me as the Legislative Advisor to Assemblywoman Marilyn Brewer. I continue to work as an insurance advisor for State and Federal organizations in legislative affairs and issues.

As a past international officer for Lions Clubs International, I am often consulted on insurance or risk management issues for local Lions Clubs.

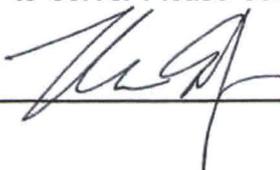
I continue to be the "go to guy" for risk management advice for various local and state groups.

What is your overall vision for SDRMA? (Response Required)

Special Districts are faced with many challenges in today's environment, risk management being one of them. There is a definite need for comprehensive plans for reducing risks, which ultimately provided cost benefits to the Districts. My vision for SDRMA is to advise and help implement the types of plans that allow Districts success. At the same time SDRMA needs to provide comprehensive, low cost coverages to protect Districts from the unforeseen circumstances that will happen. SDRMA continues to provide those benefits. I would look forward to being a part of the process of protection for Special Districts.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature _____



Date _____

4/15/13

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate John Woolley
District/Agency Manila Community Services District
Work Address 147 Melvin Lane Arcata, CA 95521
Work Phone 707.498.1371 Home Phone 707.443.6889

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

I was fortunate to be part of the beginnings of SDRMA when it was created in the latter part of the 1980's, then under the name Special District Insurance Agency. From there the focus changed, from not just providing basic insurance, but recognized risk management is the essential service and purpose for the existence of the entity, and therefore, so did the name change to SDRMA. From these experiences on the Board of Directors, I personally grew and became an advocate for its abilities and services. Now retired, but still engaged in community volunteer service, I remain attracted to the work of SDRMA and find the possibility to serve on the Board to be an exciting opportunity, and a position I am sure will be personally fulfilling. The SDRMA Management and Board Team have been providing excellent leadership, maintaining the stability and member services necessary for SDRMA to be successful, and it would be an honor to serve with them.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

I have had over 30 years experience in various public service positions. Besides serving my community service district for 16 years, I was elected to the Humboldt County Board of Supervisors in 1996, serving 3 terms before stepping down to take a position as Field Representative for Assemblymember Wesley Chesbro, retiring in 2012. During my time on the Board of Supervisors, I was active in creating joint powers authorities, providing vital services in waste management, energy conservation, and other fields, where I was able to bring their risk management needs to SDRMA. I am familiar with the communities of our northwest counties, i.e. Humboldt, Del Norte, and Trinity from my experiences with both the Board of Supervisors and the State Assembly. Currently, besides serving on the Manila CSD, I am Board member of our local county wide economic development organization, Redwood Region Economic Development Commission, also a SDRMA member; a member of the Humboldt State University President's Advisory Board, and Board President of the North Coast Cooperative.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

**What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)**

From my previous experiences with SDRMA, I have a good understanding of the organization's policies and procedures that provide a systematic ability to offer excellent coverages and risk management services. From my overall experience in public board service, I am knowledgeable of the understanding required to set policy, review and understand budgets, develop and follow appropriate personnel policies, and other legal Board requirements. I have had a good deal of experience in making presentations. I have good knowledge of the legislative process and can assist in guiding efforts to achieve legislative goals beneficial to SDRMA and its members.

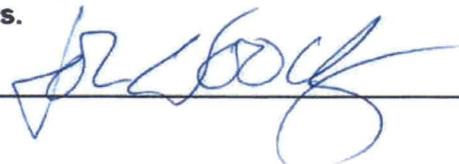
What is your overall vision for SDRMA? (Response Required)

Clearly SDRMA has been successful over the years in providing risk management services, attracting and retaining members, providing stable rates, while practicing in a collaborative ability among the Board and Management Team members. It is important to all of SDRMA that these same successes be part of its future endeavors.

At the same time, SDRMA must be mindful of the changes in the risk management world and create responsive business plans that will continue and enhance upon the existing level of services. To do so, SDRMA Board members must remain in good communication with its members; reflecting their concerns and interests, and representing SDRMA wherever possible in their communities. When the Board is considering changes or new level of services, it must remain diligent to protecting its members assets.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date

4/23/13

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – **no attachments will be accepted**. No statements are endorsed by SDRMA.

Nominee/Candidate Timothy W. Unruh
District/Agency Kern County Cemetery District No. 1
Work Address 18662 Santa Fe Way/ P O Box 354, Shafter, CA 93263
Work Phone (661) 746-3921 Home Phone (661) 332-3252

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

This is an opportunity to give back to the members of SDRMA; I am especially interested in keeping a small district influence on the board. It is important to maintain a balanced perspective for the decisions that impact all the members of SDRMA.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

I have been the District Manager for the Kern County Cemetery District for 26 years. I have had various and extensive Board experience as follows:

Locally:

Kern County Special District Association - worked for LAFCo representation for special districts; Kern County Association of Public Cemeteries; 10 years on local school board and various community boards.

State:

California Special Districts Association-currently on Legislation Committee and 3 years as a Director, one year as Legislation Committee Chair. While on CSDA I met with SDRMA in various joint meetings in an effort to help both organizations in their work together. California Association of Public Cemeteries-on board 10 years, past president and currently as legislation committee chair.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

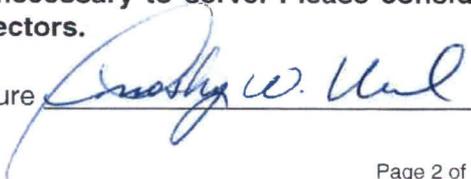
**What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)**

Those that know me, know that I am a people person and will work to make my involvement the best that I can. I have an interest in legislation and currently am on on CSDA Legislation Committee and have been a past chairman of the CSDA Legislation Committee. I have been working on various committees for 30 years and understand that it is important to listen to the needs of the committee and the members.

What is your overall vision for SDRMA? (Response Required)

SDRMA has shown a great concern for the special districts in California in their commitment to meeting their insurance needs. This is done by being involved and listening to members. I wish to expand that basic concept by continuing to create education opportunities and create a tool box that districts can use to reduce claims and keep employees safe.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature  Date 4-22-2013

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – no attachments will be accepted. No statements are endorsed by SDRMA.

Nominee/Candidate Jean Bracy, SDA
District/Agency Mojave Desert Air Quality Management District
Work Address 14306 Park Ave., Victorville, CA 92392
Work Phone 760-245-1661

Why do you want to serve on the SDRMA Board of Directors?

I have served on the SDRMA Board of Directors for nearly four years. During this term, the Board has adopted many important programs and policies aimed to provide members cost effective coverage and to support every member's effort to develop safe working environments. During my tenure, the Board voted each year to hold rates flat for the property/liability program; established a multiple-policy discount (5%) for each member who belongs to both the property/liability and the workers compensation programs; created the longevity distribution which shares investment earnings with members who continue with SDRMA programs; established the loss prevention allowance funds which reimburses members for safety-related costs up to \$1,000; launched and enhanced the SDRMA interactive website; strengthened support to California Special Districts Association (CSDA) and the Special District Leadership Foundation (SDLF); provided FREE online training through Target Solutions; and contracted with Company Nurse to provide FREE screening services for work-related injury cases.

I have worked closely with SDRMA for 13 years. I am attracted to its member-focused, pro-active, and positive mission. I would like to see – and be a part of – SDRMA continue this member-centric approach.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization)

I am currently serving my second term on the Board of Directors for the Special District Leadership Foundation (SDLF), representing the SDRMA. As a member of this Board I have been part of the renewal and expansion of the SDLF programs, including the premier program, District of Distinction, also the Special District Administrator Certificate, the Recognition of Special District Governance, and the newly created District Transparency Certificate of Excellence.

My career experience with special districts has helped me to understand the issues specific to smaller organizations. I have learned what it really means for an organization to do more with less. I have also learned that political realities for special districts are distinct from other forms of governments. As the Director of Administrative Services for the Mojave Desert Air Quality Management District, I am the staff representative to the Governing Board Committees for Budget and Personnel. I am a member of and have chaired the California Air Pollution Control Officers Association (CAPCOA) statewide committees for Fiscal and Human Resource officers. I organized and have chaired the Alternate Fuel Task Force for the Mojave Desert air basin; I have represented the District in the Antelope Valley Clean Cities Coalition.

My working opportunities have crossed several public service types. I served as the Victorville city representative to the Technical Advisory Committee for the Victor Valley Transit Authority and as the City representative and officer on the Executive Committee of the Regional Economic Development Authority. I volunteered four years on the Board of Directors of the Victor Valley Federal Credit Union. For six years, I worked as an adjunct professor at Victor Valley Community College teaching Public Works Administration.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?

As professional and as a volunteer, I have a wide range of experiences with organizational structures, long term and vision planning, development of staff and volunteers, and resource and program management. My experience of leading organizational activities and implementing change for growth includes bringing together intergenerational and multicultural groups to achieve common goals.

I am an effective manager with expertise in efficient and productive management implementing process improvements in finance, human resources, risk management, and a wide variety of related administrative and organizational functions. I have led highly skilled teams to support the achievement of overall agency goals and objectives.

I earned a Master's Degree in Public Administration from California State University, San Bernardino

I earned the Special District Administrator Certification from the Special Districts Leadership Foundation

I earned the Recognition of Special District Governance from the Special Districts Leadership Foundation

I earned the Masters Certification in Labor Relations from the California Public Employers Labor Relations Association (CALPELRA)

What is your overall vision for SDRMA?

I want to continue contributing my experience and expertise to SDRMA's overall function to further strengthen and enhance the lines of services provided by SDRMA. I want to be part of the mission to enhance the member's experience through claims management and education that leads to loss prevention.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature John Brady Date February 12, 2013

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

This information will be distributed to the membership with the ballot, "exactly as submitted" by the candidates – **no attachments will be accepted**. No statements are endorsed by SDRMA.

Nominee/Candidate Dennis Mayo

District/Agency McKinleyville Community Services District

Work Address 1656 Sutter Road, McKinleyville, CA
95519

Work Phone (707) 839-3251 Home Phone (707) 832-9334

Why do you want to serve on the SDRMA Board of Directors? (Response Required)

SDRMA on a nuts and bolts level is the single most important Board for Special Districts. Serving ones District is a special trust given by the local electorate. Being elected by ones peer's to serve in the betterment of all Special Districts honors those constituents and allows me to be the voice of my District. I am dedicated to public service and feel my work ethics and experience will be a valuable asset to SDRMA, my District and all our Special Districts.

What Board or committee experience do you have that would help you to be an effective Board Member? (SDRMA or any other organization) (Response Required)

Currently I am the Board President of McKinleyville Community Services District; Director of Open Beach and Trails; ACWA Region 1 Board Member; JPIA/ACWA Employee Benefit Committee member; Director of membership Moose Lodge No. 208; Legislative analyst for California Commercial Beach Fisherman Association; North Coast Representative for the Blue Ribbon Coalition. Formerly a Humboldt County Planning Commissioner; Vice President McKinleyville Rodeo Association; Lake Earl Grange member; Member of the California State Grange Consumer Committee; Humboldt Bay Harbor District Strategic Plan; Humboldt Bay Municipal Water District Strategic Plan. Member of the Arcata Fire Protection District Fund Coordinator and other Boards and Commissions over the past (40) forty years.

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

**What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)**

I have a Life and Casualty Insurance experience and worked in the field in my earlier years. I have extensive experience with group dynamic's and the interplay of Workman's Compensation. I have worked on Legislative issues and developed specific language for successful State and Federal Legislation and have negotiated many successful employee contracts. From groups as small as a Rodeo Committee to a twenty million dollar Water District, dotting the "I's" and crossing the "T's" on insurance issues means the difference between success and failure. I have a unique talent working with diverse groups and getting to the heart of an issue.

What is your overall vision for SDRMA? (Response Required)

California is in financial crisis. There are local, regional and national pressures that make stewarding the public trust seem almost a nightmare. SDRMA is planted deeply and perhaps unfairly in the middle of that crucible. It is often said that we must think outside the box for creating solutions. The truth is we must think both outside and inside the box to provide the best service for Special Districts in our Districts and our State. It is my hope to bring a powerful and creative energy to this Board and leave no stone unturned to make SDRMA the best it can be.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date

5.2.13

**Special District Risk Management Authority
Board of Directors
Candidate's Statement of Qualifications**

What special skills, talents, or experience (including volunteer experience) do you have?
(Response Required)

Experience and "thinking outside the box".

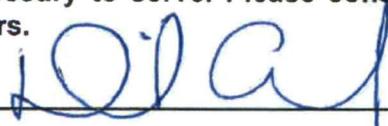
What is your overall vision for SDRMA? (Response Required)

To see the Following:

1. Claims reduced to an unbelievable low number due to education, safety practices, and an overall safety culture promoted by SDRMA and practiced by all Districts.
2. Premium payments reduced by 50% by 2020 due to sound investment and low claims.

I certify that I meet the candidate qualifications as outlined in the SDRMA election policy. I further certify that I am willing to serve as a director on SDRMA's Board of Directors. I will commit the time and effort necessary to serve. Please consider my application for nomination/candidacy to the Board of Directors.

Candidate Signature



Date

4-22-13

RESOLUTION NO. 4215

A RESOLUTION OF THE GOVERNING BODY OF THE
OTAY WATER DISTRICT
FOR THE ELECTION OF DIRECTORS TO THE
SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY
BOARD OF DIRECTORS

WHEREAS, Special District Risk Management Authority (SDRMA) is a Joint Powers Authority formed under California Government Code Section 6500 et seq., for the purpose of providing risk management and risk financing for California special districts and other local government agencies; and

WHEREAS, SDRMA'S Sixth Amended and Restated Joint Powers Agreement specifies SDRMA shall be governed by a seven member Board of Directors nominated and elected from the members who have executed the current operative agreement and are participating in a joint protection program; and

WHEREAS, SDRMA's Sixth Amended and Restated Joint Powers Agreement Article 7 - Board of Directors specifies that the procedures for director elections shall be established by SDRMA's Board of Directors; and

WHEREAS, SDRMA's Board of Directors approved Policy No. 2012-05 Establishing Guidelines for Director Elections specifies director qualifications, terms of office and election requirements; and

WHEREAS, Policy No. 2012-05 specifies that member agencies desiring to participate in the balloting and election of candidates to serve on SDRMA's Board of Directors must be made by resolution adopted by the member agency's governing body.

NOW, THEREFORE, BE IT RESOLVED that the governing body of the Otay Water District selects the following candidates to serve as Directors on the SDRMA Board of Directors:

(continued)



**OFFICIAL 2013 ELECTION BALLOT
SPECIAL DISTRICT RISK MANAGEMENT AUTHORITY
BOARD OF DIRECTORS**

VOTE FOR ONLY FOUR (4) CANDIDATES

Mark each selection directly onto the ballot, voting for no more than four (4) candidates. Each candidate may receive only one (1) vote per ballot. A ballot received with more than four (4) candidates selected will be considered invalid and not counted. All ballots must be sealed and received by mail or hand delivery in the enclosed self-addressed, stamped envelope at SDRMA on or before 5:00 p.m., Tuesday, August 27, 2013. Faxes or electronic transmissions are NOT acceptable.

- MURIL CLIFT** (INCUMBENT)
Director, Cambria Community Services District
- MIKE SCHEAFER**
Director/Vice President, Costa Mesa Sanitary District
- JOHN WOOLLEY**
Director/Finance Officer, Manila Community Services District
- TIM UNRUH**
District Manager, Kern County Cemetery District No. 1
- JEAN BRACY** (INCUMBENT)
Director of Administrative Services, Mojave Desert Air Quality Management District
- DENNIS MAYO**
Director/President, McKinleyville Community Services District
- DAVID ARANDA** (INCUMBENT)
General Manager, North of the River Municipal Water District

ADOPTED this ____ day of _____, 2013 by the Otay Water District by the following roll call votes listed by name:

AYES: _____

NOES: _____

ABSTAIN: _____

ABSENT: _____

ATTEST:

APPROVED:



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	July 3, 2013
SUBMITTED BY:	Mark Watton, General Manager	PROJECT:	Various DIV.NO. ALL
APPROVED BY:	<input checked="" type="checkbox"/> Mark Watton, General Manager		
SUBJECT:	California Special Districts Association (CSDA) Region 6 Board Election		

GENERAL MANAGER'S RECOMMENDATION:

That the Board consider casting a vote to elect a representative to the California Special Districts Association (CSDA) Board of Directors, Region 6, Seat B.

PURPOSE:

To present for the board's consideration the ballot to elect a representative to Region 6, Seat B, on CSDA's Board of Directors.

COMMITTEE ACTION:

N/A

ANALYSIS:

CSDA is holding an election to fill Seat B of Region 6 on its Board of Directors. Mr. William Nelson, Orange County Cemetery District, is the current incumbent of Seat B and is seeking re-election. The individual elected will serve a three (3) year term. There are a total of six [6] regions with each region having three seats on the Board.

Attached is a copy of the mail-in ballot and the candidates' Statement of Qualifications. The ballot must be mailed and received by CSDA by 5:00 p.m. on Friday, August 2, 2013.

FISCAL IMPACT: Joe Beachem, Chief Financial Officer

None.

STRATEGIC GOAL:

Participating would support the strategic goal of maintaining effective communications with other cities, special districts, State and Federal governments, community organizations and Mexico.

LEGAL IMPACT:

None.

Attachment A: Committee Action

Attachment B: Ballot

Attachment C: Candidates' Statements (2)

ATTACHMENT A

SUBJECT/PROJECT:	California Special Districts Association (CSDA) Region 6 Board Election
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COMMITTEE ACTION:

The Finance, Administration and Communications Committee is scheduled to reviewed this item at a meeting to be held on June 24, 2013. This attachment will be updated with notes summarizing the committee's discussion.



REGION SIX

●
*Seat B - term
ends 2017*

**CSDA BOARD OF DIRECTORS
ELECTION 2013**

*All Fields Must Be Completed for ballot to be counted.
(Please vote for only one.)*

- William Nelson***
Orange County Cemetery District
- George McManigle**
Rainbow Municipal Water District

** incumbent*

Signature: _____ Date: _____

Member District: _____

Must be received by 5pm, August 2, 2013. CSDA, 1112 I Street, Suite 200, Sacramento, CA 95814

Board of Trustees
Leslie Keane
William E. Nelson
Vivien Owen
Maureen Rivers
Cynthia Ward



Attachment C

District Office
25751 Trabuco Road
Lake Forest, CA 92630-4348
Phone: (949) 951-9102
Fax: (949) 951-0236
www.occemeterydistrict.com

Tim Deutsch
General Manager

ORANGE COUNTY CEMETERY DISTRICT

June 11, 2013

Otay Water District
Mark Watton, General Manager
2554 Sweetwater Springs Boulevard
Spring Valley, CA 91978-2004

Dear Mark,

The purpose of this letter is to ask for your Board's support for the re-election of Bill Nelson to Seat B, Region 6 of the California Special Districts Association (CSDA) Board of Directors. We ask your Board to please vote for Bill Nelson in the upcoming election. CSDA mailed out the ballots on June 7, 2013, and they are due back to CSDA by 5:00 PM on August 2, 2013.

Bill has served on the Orange County Cemetery District (OCCD) Board of Trustees since 2003. During this time Bill has been a valuable member of the Board and served as Chair of the Board in 2006 and 2010. Presently he serves as Vice Chair of the Board and Chair of the Finance Committee and member of the Personnel and Communications & Public Relations Committees.

The OCCD Board initially nominated Bill for the CSDA Board in 2011 and has nominated him for re-election this year. Bill is committed to building on CSDA's present foundation of educational programs and legislative advocacy. His enthusiasm, commitment and comprehensive knowledge of special districts bring years of experience to the CSDA Board.

The OCCD Board respectfully requests that you mark your ballot for Bill Nelson and return it to CSDA by 5:00 PM on August 2, 2013.

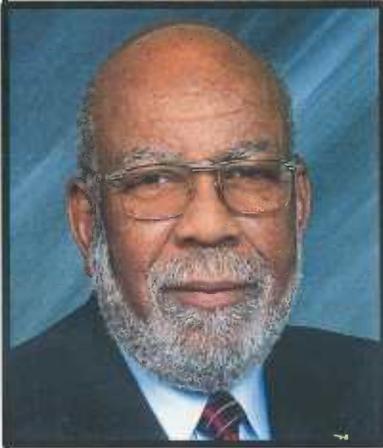
Bill's Candidate Statement is attached.

Sincerely,

A handwritten signature in blue ink, appearing to be "Tim Deutsch", written over a faint circular stamp or watermark.

Tim Deutsch
General Manager

Re-Elect Bill Nelson CSDA Board of Directors



PROVEN EXPERIENCE LEADING SPECIAL DISTRICTS

I am committed to building on CSDA's present foundation of educational programs and legislative advocacy. My enthusiasm, commitment and comprehensive knowledge of special districts bring years of experience to the CSDA Board. It would be an honor to continue serving special districts in Region 6.

- ✓
- ✓ **EXPERIENCED LEADER**
- ✓ **COMMITTED TO SPECIAL DISTRICTS**
- ✓ **FISCALLY RESPONSIBLE**
- ✓ **DEDICATED**

CSDA EXPERIENCE

- ❖ Served on Board for three years
- ❖ Fiscal Committee 2011-2013
- ❖ Membership Committee 2013

DISTRICT EXPERIENCE

- ❖ Appointed to Board of Trustees Orange County Cemetery District in 2003
- ❖ Chair of the Board 2006 & 2010
- ❖ Chair of Finance Committee 2004 to present
 - Developed an investment strategy that yielded additional \$1 million interest income

OTHER LEADERSHIP EXPERIENCE

- ❖ Board of Directors - California Association of Public Cemeteries since 2008
- ❖ Board of Directors - Pacific West Association of Realtors - 2004 to 2012
 - President 2007, Treasurer 2005, 2009 & 2011
- ❖ Board of Directors - California Association of Realtors – 2004-2012
 - Served on and Chaired several committees
- ❖ Board of Directors - National Association of Realtors – 2007-2009 & 2011-2012

COMMUNITY INVOLVEMENT

- ❖ Orange County Grand Jury 2002-2003
- ❖ Board of Directors - Orange County Grand Jurors Association 2005 to 2011
- ❖ City of Villa Park Investment Advisory Committee- 2008 to present – Chair past two years
- ❖ Villa Park Community Services Foundation – Treasurer – 2010 to present

BUSINESS EXPERIENCE

- ❖ Financial Executive for 25 years with Atlantic Richfield Company (ARCO) & Southern Calif. Gas Co.

EDUCATION

- ❖ MBA Finance University of Southern California
- ❖ BA Economics California State University Dominguez Hills

George McManigle – CSDA Board of Directors, Region 6

Growers in California are facing many challenges. Since I moved to a seven acre grove in Fallbrook in 1993, production techniques, water availability, cost and returns on crops have been serious issues. Water is now a major concern in the coming years with the water cutbacks. I believe CDSA plays a major role in addressing these issues.

I have served on the Fallbrook Chamber of Commerce board and as president. I have been president of Gold Crown Macadamia Association since 1995, I was elected two terms to the Rainbow Municipal Water District board and have served four years as an alternate on the California Avocado Commission.

My community and agriculture involvement has been to support farming in the area by considering possibilities beyond the status quo like a certified community kitchen. Growers are facing serious issues and I think I can contribute in addressing some of those issues.

George McManigle



AGENDA ITEM 9

STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	July 3, 2013
SUBMITTED BY:	Adolfo Segura Information Technology Manager	PROJECT:	Various DIV. NO. ALL
APPROVED BY:	<input checked="" type="checkbox"/> Geoff Stevens, Chief Information Officer <input checked="" type="checkbox"/> German Alvarez, Assistant General Manager <input checked="" type="checkbox"/> Mark Watton, General Manager		
SUBJECT:	INFORMATION TECHNOLOGY RELATED OPERATIONS & MAINTENANCE AND CAPITAL CONTRACTS FOR FY 2014		

GENERAL MANAGER'S RECOMMENDATION:

That the Board authorize the General Manager to negotiate and enter into the following agreements:

1. One (1) year O&M service agreements with:
 - a. AT&T in the amount of \$99,000.00 for local and long-distance telephone and internet service.
 - b. Verizon Wireless in the amount of \$72,000.00 for cellular phone and wireless modem service.
 - c. Tyler Technologies in the amount of \$127,000.00 for ERP/Financial software maintenance costs and annual technical support.
2. One (1) year, with two (2) one-year option renewal O&M service agreements with:
 - a. Intermedia in the amount of \$107,928.00 (\$35,976.00 annually) for enterprise hosted exchange email services.

- b. Advanced Call Processing, Inc. in the amount of \$106,122.00 (\$35,374.00 annually) for telephone software maintenance and technical support service.
- c. GPS Insight in the amount of \$110,304.00 (\$36,768.00 annually) for vehicle GPS fleet tracking system and service.

COMMITTEE ACTION:

See "Attachment A".

PURPOSE:

To authorize the purchase of equipment and services necessary to support Information Technology's daily operations and services, and enhance the District systems to meet emerging business needs as identified in the District Strategic Plan.

ANALYSIS:

The IT department presents to the Board specific technology related expenses that require Board approval because they exceed the General Manager's authorized approval limit of \$50,000.00 for a specific contract. These contracts and purchases are required to either operate the District's technology environment or to make planned technology related infrastructure improvements. Each item requiring the District to issue a purchase order or contract for greater than \$50,000.00 is described in detail in the following section. All of the items in this staff report are specifically itemized in the FY 2014 budget as well. By presenting these items collectively, we want to provide to the Board a more detailed view of expenses related to the Districts' information systems.

All purchasing guidelines have been met for the specific items in this report. Where possible, items have been competitively bid. Certain items, such as software licenses and vendor support, are sole source contracts, because only one vendor can support the product. Certain items are also purchased utilizing pricing provided in state authorized competitive contracts, primarily CALNET and WSCA (state and regional wide agreements which guarantees competitive pricing). Where possible, agreements will utilize the District's standard contract form, which provides the ability to terminate the agreement with or without cause upon sixty-day notice. Contracts for software license and support are generally not open to negotiation and the manufacturer standard one (1) year agreement will be utilized. The

District has attempted, wherever possible, to synchronize our contract renewal dates with the District's fiscal year and budget approval process.

The following are detailed descriptions of the specific requests:

Explanation of Costs

Software and Support Agreements:

AT&T \$99,000.00 - This item covers the purchase of telephone and internet services to support all District operations. This item utilizes CALNET pricing which has been competitively bid by the State of California. Funds for these services are allocated in the IT O&M budget.

Verizon Wireless \$72,000.00 - This item covers cellular phone and wireless modem service for District operations. Verizon was the lowest bidder. The District inventory is: 78 iPhones for staff use and 91 wireless 3G/4G devices and service for mobile air cards, hot-spots and field connectivity for remote monitoring and alarm systems. Funds for this item are allocated in the IT O&M budget.

Service Provider	Plan Details	One Year Total
Verizon	Unlimited Data & Pay-as-you-go voice plan - Unlimited 3G & 4G Wireless (basic plan)	\$6,000 per month
Sprint	Same as above	\$6,500 per month
AT&T	Same as above	\$6,900 per month

Eden Tyler Technologies \$127,000 - This item covers yearly required software maintenance for the District's enterprise resource planning (ERP) software suite, which includes Utility Billing, Financial, Human Resources and Permitting Systems. The ERP software suite is exclusively owned by Tyler Technologies. The yearly maintenance fee includes all core licensing, software support to include required annual service packs and technical support for all software modules. This item is a sole source contract as only the product vendor is authorized to provide maintenance support. Funds for this item are allocated in the IT O&M budget.

Intermedia \$107,928.00 - This item covers the purchase of one(1) year with two (2) one-year option renewals for hosted enterprise exchange email service. The service will provide 24/7 email service to the District, as well as the associated operation and maintenance work

associated with managing an in-house email system. Additional benefits include hardware, data storage, archiving and utility (power/cooling) dollar savings. This item was competitively bid and selected the low cost vendor. Funds for this item are allocated in the IT O&M budget.

Service Provider	Service Details	Overall Three Year Total
Intermedia	25 GB Mailboxes & Unlimited storage in archive, Outlook support, Web-based access, Mobility, Shared Calendar & Contacts, Web apps for Outlook/SharePoint, Anti-Spam & anti-malware, In-place Archive, In-Place Hold, Lync for unified communications & voice messaging, 24/7 support	\$107,928.00 (\$35,976 annually)
ABTECH WMS	Same as above	\$111,600.00
CenterBeam	Same as above	\$179,856.00

Advanced Call Processing (ACP) \$106,122.00 - This item covers the purchase of one(1) year with two (2) one-year option renewals for telecommunication software maintenance, functional programming and general technical support for the District phone system. This service ensures that the District's telecommunication or voice system operates at a high-level of system up-time, performance and security. The services includes scheduled maintenance, remote monitoring, software and security upgrades, troubleshooting, after-hours and weekend support and on-site engineering services if needed. Although ATI was the lowest bidder, ACP was selected due to their wide client base, expertise with the District i3 phone system and staffing levels. Multiple request to NEC were made, but no pricing or service profile was provided. Funds for this item are allocated in the IT O&M budget.

Service Provider	Service Details	Overall Three Year Total
ACP	I3 Telecommunication software system, maintenance & voice support & functional programming. Monday-Friday, after-hours & weekend on-call/emergency support	\$106,122 (\$35,374 annually)
ATI	Same as above	\$98,695
NEC	Non-Responsive	\$ -

GPS Insight Fleet Tracking System \$110,304.00 - This item covers the purchase of one(1) year with two (2) one-year option renewals for carrier based GPS, cellular service and solution support for the District's vehicle fleet. The existing iDEN solution being provided by Sprint/Airtrak, will be shut down on July 1, 2013. In preparation for this change, the District solicited six (6) service proposals. A cross-functional selection team reviewed the proposals and via a structured rating system narrowed the list to two top candidates, Sprint and GPS Insight. Solution proof of concept (POC) based on District requirements followed. Ensuing the POC, GPS Insight became the front-runner as they were overall able to meet the District's functional, reporting, ease of use and technical integration requirements. In addition, GPS Insight was able to solely fulfill the solution requirements. Other vendors, including Sprint, required partnerships with at least two (2) other vendors. Lastly, GPS Insight was the lowest cost solution and is providing a significant functional upgrade from the previous solution. Funds for vehicle GPS hardware will come from CIP 2469 and monthly wireless service are allocated in the IT O&M budget.

Vendor	Hardware Cost	Wireless Service	Overall Three Year Total
GPS Insight	\$25,704	\$28,200	\$110,304
Sprint/GeoTab	\$7,500	\$32,500	\$113,100
EJ Ward	\$47,000	\$26,500	\$126,500
SageQuest	\$0 (equip. lease built into cost)	\$47,374	\$133,120
Air Trak	\$0 (equip. lease built into cost)	\$47,000	\$141,000
Network Fleet	\$47,500	\$31,200	\$141,100

FISCAL IMPACT: Joe Beachem, Chief Financial Officer

These items are specifically included in either the adopted FY 2014 Capital Budget or the O&M Budget.

O&M Totals:

All items, excluding the GPS hardware, are budgeted in the FY 2014 O&M Budget and total \$596,650.00. These funds are budgeted and available.

Capital Totals:

The capital costs for the GPS modems (\$25,704.00) will be charged to CIP 2469 (Information Technology Network and Hardware). This account has a FY 2014 budget of \$350,000.00. After this expenditure, the account will have a remaining balance of \$324,296.00. The project manager has verified that CIP 2469 has sufficient funding to complete the project.

STRATEGIC GOAL:

These items are in support of the District's Strategic Plan, specifically improve the operating cost and efficiency of data center and network services, which will allow us to make tactical and long term improvements to District technology services

LEGAL IMPACT:

None.

Attachments: Attachment A - Committee Action Report



ATTACHMENT A

SUBJECT/PROJECT:	INFORMATION TECHNOLOGY RELATED OPERATIONS & MAINTENANCE AND CAPITAL CONTRACTS FOR FY 2014
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COMMITTEE ACTION:

The Finance, Administration and Communications Committee met on June 24, 2013 to review this item. The Committee supports presentation to the full Board for their consideration.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for Board approval. This report will be sent to the Board as a committee approved item, or modified to reflect any discussion or changes as directed from the committee prior to presentation to the full Board.