



TOWN OF LOS GATOS
PLANNING COMMISSION STAFF REPORT
Meeting Date: August 22, 2012

ITEM NO: 1
CONSENT

PREPARED BY: Marni F. Moseley, AICP, Associate Planner
mmoseley@losgatosca.gov

APPLICATION NO.: Conditional Use Permit Application U-12-009

LOCATION: **15951 Los Gatos Boulevard** (west side of Los Gatos Boulevard between Placer Oaks Road and Leroy Avenue)

APPLICANT: Sprint

PROPERTY OWNER: Stephen Chen

CONTACT PERSON: Kim Peterson

APPLICATION SUMMARY: Requesting approval to increase the size of the existing antennae and increase the screening to an existing wireless facility on property zoned O. APN 529-57-001 thru 018.

DEEMED COMPLETE: July 3, 2012
FINAL DATE TO TAKE ACTION: January 3, 2013

RECOMMENDATION: Approval

PROJECT DATA: General Plan Designation: Office Professional
Zoning Designation: O - Office
Applicable Plans & Standards: Wireless Ordinance
Parcel Size: 1.4 acres
Surrounding Area:

	Existing Land Use	General Plan	Zoning
North	Residential	Los Density Residential	R-1:8
East	Commercial	Mixed Use Commercial	CH:PD
South	Commercial	Mixed Use Commercial	C-1
West	Residential	Los Density Residential	R-1:8

CEQA: The project is Categorically Exempt according to Section 15303 of the State Environmental Guidelines as adopted by the Town because the project consists of a modification to an existing facility.

- FINDINGS:
- As required by Section 15303 of the State Environmental Guidelines as adopted by the Town that this project is Categorically Exempt.
 - As required by Section 29.20.190 of the Town Code for granting a Conditional Use Permit.
 - As required by Section 29.20.216 of the Town Code for granting approval of a telecommunications facility permit.

CONSIDERATIONS: None.

ACTION: The decision of the Planning Commission is final unless appealed within ten days.

- EXHIBITS:
1. Location Map (one page)
 2. Findings and Considerations (two pages)
 3. Recommended Conditions of Approval (two pages)
 4. Written Description/Letter of Justification (two pages)
 5. Photos of the site (three pages)
 6. Radio Frequency Analysis (12 pages)
 7. Telecommunication Consultant's Report, received July 3, 2012 (two pages)
 8. Coverage Maps (two pages)
 9. Development Plans, received July 25, 2012 (nine pages)

BACKGROUND:

The Federal Telecommunication Act of 1996 "preempts local governments from regulating the placement, construction, and modification of Personal Communications Services facilities on the basis of the environmental effects of radio frequency emissions, provided that facilities comply with applicable regulations regarding those emissions as promulgated by the Federal Communications Commission." Specifically, the Federal Telecommunication Act of 1996 regulates local decision making authority and limits this authority to two areas of local governance, aesthetics and location of wireless facilities.

The Town Council adopted a Telecommunications Ordinance and Standards for Wireless Telecommunications Facilities on June 16, 2003, to regulate the siting, design, modifications and maintenance of wireless telecommunications facilities.

The subject site is a professional office condominium building and currently has several wireless carrier facilities located behind existing screening that have received Town approval. The proposed application would remove and replace the existing Sprint wireless equipment with new

antennae behind a modified roof screen. The existing antennae would remain until the new equipment is in place. The existing antennae would be removed within six months.

PROJECT DESCRIPTION:

A. Project Proposal

The application is to replace three existing antennas with three antennas, and one 12 inch in diameter microwave antenna that will support Sprint's newest technology. The applicant is proposing to increase to the existing screening height by one foot in order to fully screen the proposed upgrades. As shown in the photos provided in Exhibit 5, the proposed increase will be negligible and will still be lower than other existing screening on the building.

B. Location and Surrounding Neighborhood

The project site is located at 15951 Los Gatos Boulevard, on the west side of Los Gatos Boulevard between Placer Oaks Road and Leroy Avenue. The property is adjacent to commercial uses to the north, south, and east, and residential uses to the west.

C. Zoning Compliance

Wireless telecommunications facilities are encouraged in non-residential zones. Telecommunication facilities are allowed in this zone with a Conditional Use Permit.

ANALYSIS:

A. Peer Review

The project was reviewed by the Town's Telecommunications Consultant (Exhibit 6). The consultant finds that the proposed project meets the Town standards and will provide additional coverage service to the Town.

B. Wireless Telecommunications Facilities Ordinance (WTFO)

The WTFO is intended to regulate land use of telecommunications facilities as permitted by the 1996 Federal Telecommunications Act. The ordinance is also intended to set siting, design, modifications, and maintenance criteria. The WTFO requires that the standards and guidelines established for wireless communications facilities promote eight goals. The ordinance does not require a project to meet each goal. However, the findings required for a Conditional Use Permit require that a project is in conformance with the Town Code. The subject application conforms to Town Code specifically through the following goals of the WTFO:

- *Ensure a telecommunications network that will serve an effective role in the Town's emergency response system and generally provide full service coverage for personal wireless telecommunications services.* The applicant submitted coverage maps illustrating existing and proposed coverage (Exhibit 8).
- *Require, to the greatest extent possible, cooperation between telecommunications providers in order to achieve co-location of facilities and to avoid construction of additional single-use towers.* The project proposes to upgrade the existing facility and is currently shared with other wireless providers.

General Requirements

Pursuant to the WTFO, all telecommunications antenna facilities and related equipment shall conform to the following eight general requirements. The requirements are italicized; staff comments follow the requirements.

1. *Compliance with the General Plan and any other adopted land use plan, policies and guidelines adopted by the Town of Los Gatos including, but not limited to, the requirements of the zoning regulations, Hillside Development Standards and Guidelines, and adopted specific plans.* The proposed project complies with applicable plans, standards, and policies as discussed within this report.
2. *Compliance with the California Environmental Quality Act.* The project is exempt from environmental review pursuant to 15303 because the project consists of a modification of an existing facility.
3. *Compliance with the requirements of any other governmental agency with jurisdiction over the installation of telecommunications facilities.* The Town's telecommunications consultant found that the proposed project meets the requirements of the Federal Communications Commission (Exhibit 7).
4. *Compliance with any applicable easements, restrictions or land use approvals restricting development on any given parcel.* No easements, restrictions, or land use approvals prohibit the proposed development on the subject property.
5. *Compliance with the radio frequency emission standards adopted by the Federal Communications Commission, which shall include any combined radiation levels produced by antennas located on the same parcel in addition to all antennas within a 100 foot distance of the proposed facility.* The applicant submitted a Radio Frequency Analysis illustrating compliance with FCC requirements (Exhibit 6). The Town's telecommunication's consultant found that the proposed project meets the requirements of the Federal Communications Commission (Exhibit 7).

6. *Compliance with the California Uniform Building Code and subject to the Town of Los Gatos building permit process.* The proposed project is subject to the California Uniform Building Code and is required to obtain a building permit for the proposed work.
7. *The telecommunications facility shall be an accessory use, secondary to the primary use on the parcel. Exceptions to this requirement shall be made for any parcel that is designated as open space, is within a public utility, road or infrastructure easement, or is vacant but subject to future development to include a primary use.* The telecommunications facility is accessory to the primary commercial uses on the subject property.
8. *Any and all standards enacted by resolution pursuant to this article.* The project conforms to the SWTF as discussed below.

C. Standards for Wireless Telecommunications Facilities (SWTF)

Specific siting and design requirements are contained in the SWTF. The subject of location, development, and design standards are italicized; staff comments follow the subject areas.

Location Standards

1. *Location Preferences* - The SWTF contains a list of preferred sites in order of priority. The proposed project is proposed at the primary preferred location because it is utilizing an existing telecommunications facility location. Therefore, the project meets the location standards.
2. *Hillside Locations* - The project is not located in a hillside location. Therefore, this standard does not apply to the subject application.
3. *Minimum Distance* - The proposed project is to modify an existing wireless facility so this requirement does not apply to the subject application.

Development Standards

1. *Co-Location* - The application is to modify an existing colocation wireless facility.
2. *Signage* - The existing facility currently has signage complying with the requirements of the Federal Communications Commission.

3. *Structural Standards* - The means of attachment shall comply with California Uniform Building Code requirements.
4. *Screening and Landscaping* - No vegetation will be impacted by the proposed project. The equipment screening will be increased by one foot and will fully screen the proposed modifications.
5. *Height* - The existing roof screening will be increased by one foot in order to fully screen the new antennas. The modification will not exceed the height of other existing mechanical screening currently located on the building's roof.
6. *Setbacks* - The project does not consist of a ground mounted facility. Therefore, the subject application is not subject to this standard.
7. *Public Right-of-Way* - No part of the facility will be located within the public right-of-way.

Design Standards

1. *Stealth Design* - The new antenna will be installed behind the modified mechanical screening.
2. *Co-location* - The application is to modify an existing wireless facility which is already co-located with another carrier.
3. *Colors and Materials* - The antennas will not be visible. The modified mechanical screening will continue to be painted to match the building.
4. *Scale and Architecture Integration* - The proposed project will be fully screened behind the modified enclosure.
5. *Equipment Shelters* - The existing equipment location at the rear of the building was approved prior to approval of the Town's Wireless Standards which now require screening of equipment. The replacement equipment will be smaller than the existing equipment. If the Commission finds it necessary the area could be screened with landscaping. It is currently only visible to the property's parking lot.
6. *Rooftop and Façade Mounted Structures* - The new antenna will not be located on the building façade and will not be visible beyond the mechanical screening.
7. *Lighting* - No lighting is proposed.

D. General Plan

There are no General Plan goals or policies that directly reference telecommunications facilities. However, the Wireless Telecommunications Facilities Ordinance and Standards for Wireless Telecommunications Facilities that were adopted by the Town Council were determined to be consistent with the General Plan. Therefore, projects substantially consistent with the Wireless Telecommunications Facilities Ordinance and Standards for Wireless Telecommunications Facilities are, by reference, consistent with the General Plan.

E. Environmental Review

The project is Categorically Exempt according to Section 15303 Class 3 of CEQA as adopted by the Town, which exempts permitting modification to an existing facility.

F. Telecommunications Facility Permit Findings

In addition to the findings required by Town Code Section 29.20.190 for granting a Conditional Use Permit, the deciding body must find that an application substantially complies with the WTFO and related standards. The proposed project complies with the WTFO and related standards as discussed within this report.

G. Conditional Use Permit Findings

In order to grant approval of a Conditional Use Permit, the hearing body must make the following findings:

- (1) The proposed uses of the property are essential or desirable to the public convenience or welfare; and
- (2) The proposed uses will not impair the integrity and character of the zone; and
- (3) The proposed uses would not be detrimental to public health, safety or general welfare; and
- (4) The proposed uses of the property are in harmony with the various elements or objectives of the General Plan and the purposes of the Town Code.

In regards to finding one, the use will contribute to the goal of providing full telecommunication service coverage to the area. In regards to the second finding, the use will not impair the integrity of the zone since the use is a commercial use and will be located in a commercial zone. In regards to finding three, the use will not be detrimental to public health safety or general welfare because the use will comply with all Federal Communications Commission regarding radio frequency emissions and signage requirements. In regards to the final finding, the proposed use meets the objectives of the General Plan and Town Code as discussed within this report.

PUBLIC COMMENTS:

The Town has received no public comment at this time.

CONCLUSION AND RECOMMENDATION:

A. Conclusion

The project complies with the applicable standards and the intent of the Standards for Wireless Telecommunications Facilities. The project meets the goals of the Wireless Telecommunications Facility Ordinance, specifically co-locating and providing full coverage.


B. Recommendation

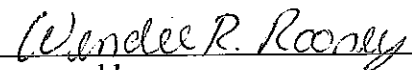
Staff recommends approval of the Conditional Use Permit subject to the recommended conditions of approval. If the Planning Commission finds merit with the proposal, it should:

1. Find that the proposed project is categorically exempt, pursuant to Section 15303 of the California Environmental Quality Act as adopted by the Town (Exhibit 2); and
2. Make the required findings as required by Section 29.20.190 of the Town Code for granting approval of a Conditional Use Permit (Exhibit 2); and
3. Make the required findings as required by Section 29.20.216 of the Town Code for granting approval of a wireless telecommunications facility (Exhibit 2); and
4. Approve Conditional Use Permit application U-12-009 with the conditions contained in Exhibit 3.

If the Commission has concerns with the application, it can:

1. Approve the application with additional and/or modified conditions of approval, or
2. Deny the application.


Prepared by:
Marni F. Moseley, AICP
Associate Planner

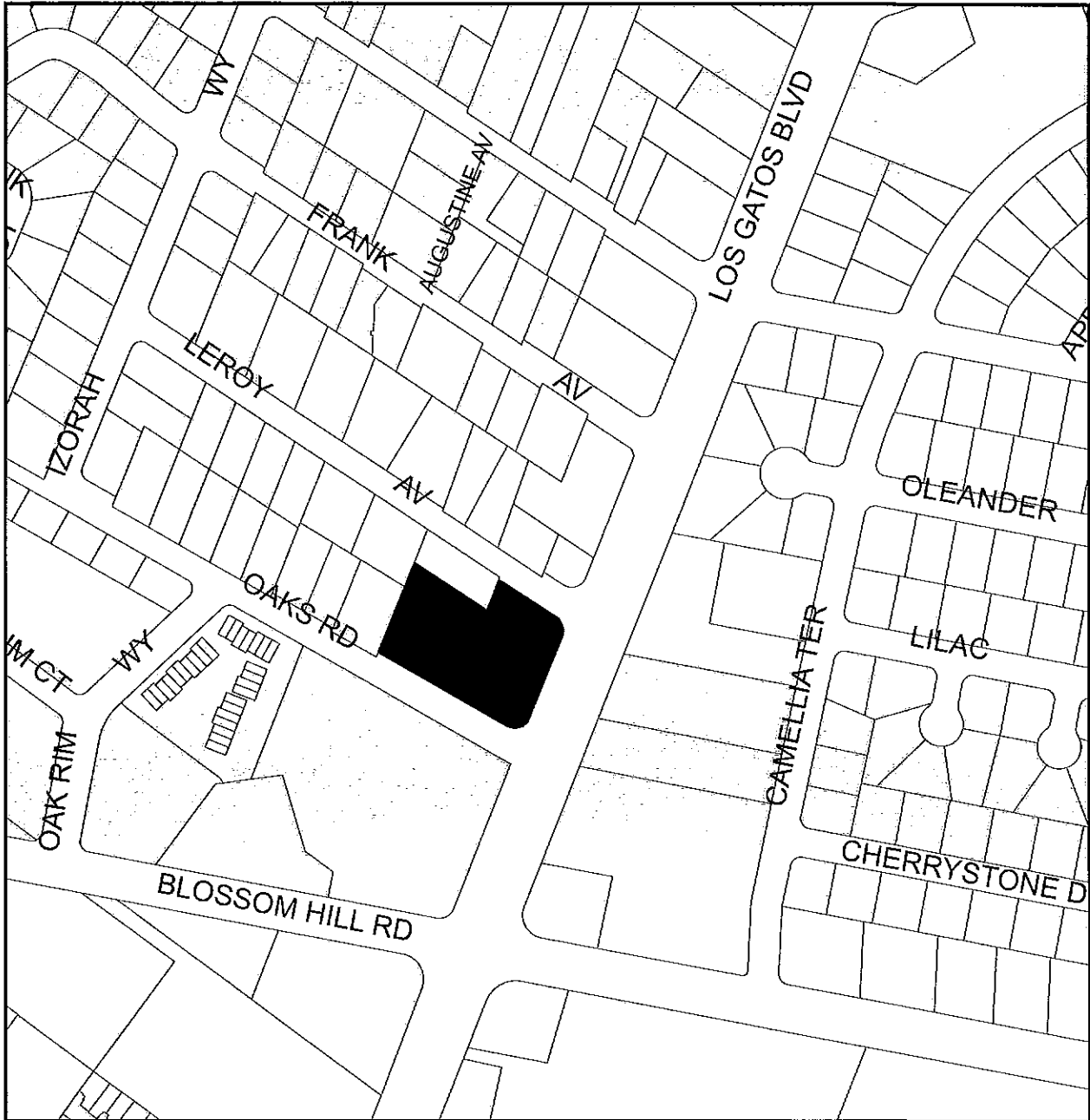

Approved by:
Wendie R. Rooney
Director of Community Development

WRR:MM:cgt

cc: Stephen Chen, P.O. Box 463, Los Altos, CA 94023
Kim Peterson, 25 E. Trimble Rd, San Jose CA 95131

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15951 Los Gatos Boulevard



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REQUIRED FINDINGS FOR:

August 22, 2012

15951 Los Gatos Boulevard

Conditional Use Permit U-12-009

Requesting approval to modify an existing wireless telecommunication facility and replace three existing antennae on property zoned CH. APN 527-57-001

PROPERTY OWNER: Stephen Chen Trust

APPLICANT: Kim Peterson for Sprint

FINDINGS

Required finding for CEQA:

- The project is Categorically Exempt pursuant to Section 15303 of the State Environmental Guidelines as adopted by the Town in that the project consists of a modification to an existing facility.

Required findings for a Conditional Use Permit:

- As required by Section 29.20.190 of the Town Code for granting a Conditional Use Permit:

The deciding body, on the basis of the evidence submitted at the hearing, may grant a conditional use permit when specifically authorized by the provisions of the Town Code if it finds that:

- (1) The proposed uses of the property are essential or desirable to the public convenience or welfare in that the use will contribute to the goal of providing full telecommunication service coverage to the area; and
- (2) The proposed uses will not impair the integrity and character of the zone in that the use will not impair the integrity of the zone since the use is a commercial use and will be located in a commercial zone; and
- (3) The proposed uses would not be detrimental to public health, safety or general welfare in that the use will comply with all Federal Communications Commission regarding radio frequency emissions and signage requirements; and
- (4) The proposed uses of the property are in harmony with the various elements or objectives of the General Plan and the purposes of the Town Code in that the proposed use meets the objectives of the General Plan and Town Code.

Required finding for Wireless Telecommunications Facilities:

- As required by Section 29.20.216 of the Town Code for granting approval of a wireless telecommunications facility that the application substantially complies with the provisions of this article and related standards enacted by resolution, as discussed within the staff report.

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RECOMMENDED CONDITIONS OF APPROVAL – August 22, 2012

15951 Los Gatos Boulevard Conditional Use Permit U-12-009

Requesting approval to modify an existing wireless telecommunication facility and replace three existing antennae on property zoned CH. APN 529-57-001

PROPERTY OWNER: Stephen Chen Trust

APPLICANT: Kim Peterson for Sprint

TO THE SATISFACTION OF THE DIRECTOR OF COMMUNITY DEVELOPMENT:

Planning Division

1. **APPROVAL:** This application shall be completed in accordance with all of the conditions of approval listed below and in substantial compliance with the approved development plans. Any changes or modifications to the approved plans shall be approved by the Community Development Director, the Development Review Committee, the Planning Commission, or Town Council, depending on the scope of the changes.
2. **EXPIRATION:** The approval will expire two years from the approval date pursuant to Section 29.20.218 of the Town Code, unless the approval has been vested.
3. **RF EMISSIONS MONITORING:** A bi-annual, RF exposure report is required. This report shall be prepared by a Food and Drug Administration certified professional and submitted to the Community Development Department to ensure that no modifications to the site, surrounding environment, or equipment wear and tear have caused an increase in RF exposure over the period after initiation of use of the facility. In the event an increase over accepted levels is detected, the equipment shall be immediately taken out of service and the applicant shall be responsible for immediately making all necessary adjustments to comply with Federal Communications Commission guidelines, otherwise, revocation hearings will commence.
4. **RF EMISSION REPORT:** An updated RF emission report shall be submitted to the Town of Los Gatos every five years as part of the renewal of this permit.
5. **COST FOR REMOVAL AND DISPOSAL:** The Town shall set the form and amount of security that represents the cost for removal and disposal of abandoned wireless telecommunications facilities in the event that these facilities are abandoned and the facility owner is incapable and/or unwilling to remove them. The form and amount shall be submitted prior to the issuance of building permits.
6. **PROOF OF INSURANCE:** The applicant shall submit proof of adequate insurance covering accident or damage caused by any elements of the approved wireless telecommunication facility, prior to issuance of building permits.
7. **LAPSE IN USE:** If antennas are not used for a continuous six month period, they shall be removed from the building by the property owner and/or the applicant.
8. **TECHNOLOGY UPGRADES:** If technology improves, the antennas shall be made smaller and shall immediately replace larger units. Prior to the replacement, the Community Development Department must approve the change and all required permits must be obtained.
9. **COMPLIANCE WITH AGENCY REGULATIONS:** The construction and operation of the approved use shall comply at all times with the regulations of this or any other governmental agencies.

10. COMPLIANCE WITH FCC AND CPUC REGULATIONS: The continued use of this conditional use permit shall be subject to the current and future regulations of the Federal Communications Commission and the California Public Utilities Commission.
11. TELECOMMUNICATIONS FACILITY MAINTENANCE: The normal maintenance of the equipment and antennas shall be performed between 8 a.m. and 8 p.m. Maintenance outside of these hours shall only occur in the event of an emergency.
12. TOWN INDEMNITY: Applicants are notified that Town Code Section 1.10.115 requires that any applicant who receives a permit or entitlement from the Town shall defend, indemnify, and hold harmless the Town and its officials in any action brought by a third party to overturn, set aside, or void the permit or entitlement. This requirement is a condition of approval of all such permits and entitlements whether or not expressly set forth in the approval, and may be secured to the satisfaction of the Town Attorney.



April 18, 2012

Jennifer L. Savage
Town of Los Gatos
110 East Main Street
Los Gatos, CA 94031

RE: Conditional Use Permit Application to modify the existing Sprint telecommunication facility located at 15951 Los Gatos Boulevard (APN 529-57-001) Cascade # FS04XC169

Dear Ms Savage,

Enclosed is the application submittal package to modify the existing Sprint telecommunication facility located at 15951 Los Gatos Boulevard, Los Gatos, CA. The existing facility is a rooftop site located on a commercial building. Sprint is looking to update their existing network with current technology.

The existing Conditional Use Permit is PRJ 96-99.

Project Summary

The proposed changes include removing three (3) existing equipment cabinets and replacing them with two (2) new equipment cabinets. The equipment cabinets are located on an existing concrete pad ground level. They are not visible to the public.

There are currently three (3) existing antennas and they will be replaced with three (3) new antennas plus one (1) microwave antenna which is one (1) foot in diameter. There will also be six (6) RRU's (radio remote units) and filters mounted on the existing structure behind the existing parapet. The proposed plan has the parapet to be extended one (1) foot to 40 feet in height in order for the antennas and RRUs not to be visible to the public.

As you will note on the enclosed plans, the proposed project is scheduled to be completed in two phases over approximately six (6) month period. There is an interim plan and a proposed plan. The time is needed for Sprint to integrate the new technology into their existing network with no loss of service.

Project Site Selection and Aesthetics

This is an existing Sprint site on a rooftop at the corner of Los Gatos Blvd. between Placer Oaks Road and Leroy Avenue. In an effort to reduce new facilities built in the community, Sprint is working to upgrade the technology at an existing facility.

CEQA Exemption

This project meets the exempt status requirements of CEQA Section 15301 (Class 1) because it is a small project involving a minor installation at an existing facility that does not pose any impact to sensitive habitats or species. In addition, it meets the exempt status requirements of CEQA 15303 because it is a telephone utility project.

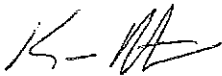
Attachments

Please find the enclosed application materials:

- 1) A completed application
- 2) Drawings (6 sets)
- 3) EMF Report
- 4) Photosims
- 5) A check for the applicable submittal fees

Thank you for your review of this project. Please don't hesitate to contact me if you have any questions or require further information at (408) 466.1964 or kpeterston@publicwireless.com.

Regards,



Kim Peterson
Site Acquisition



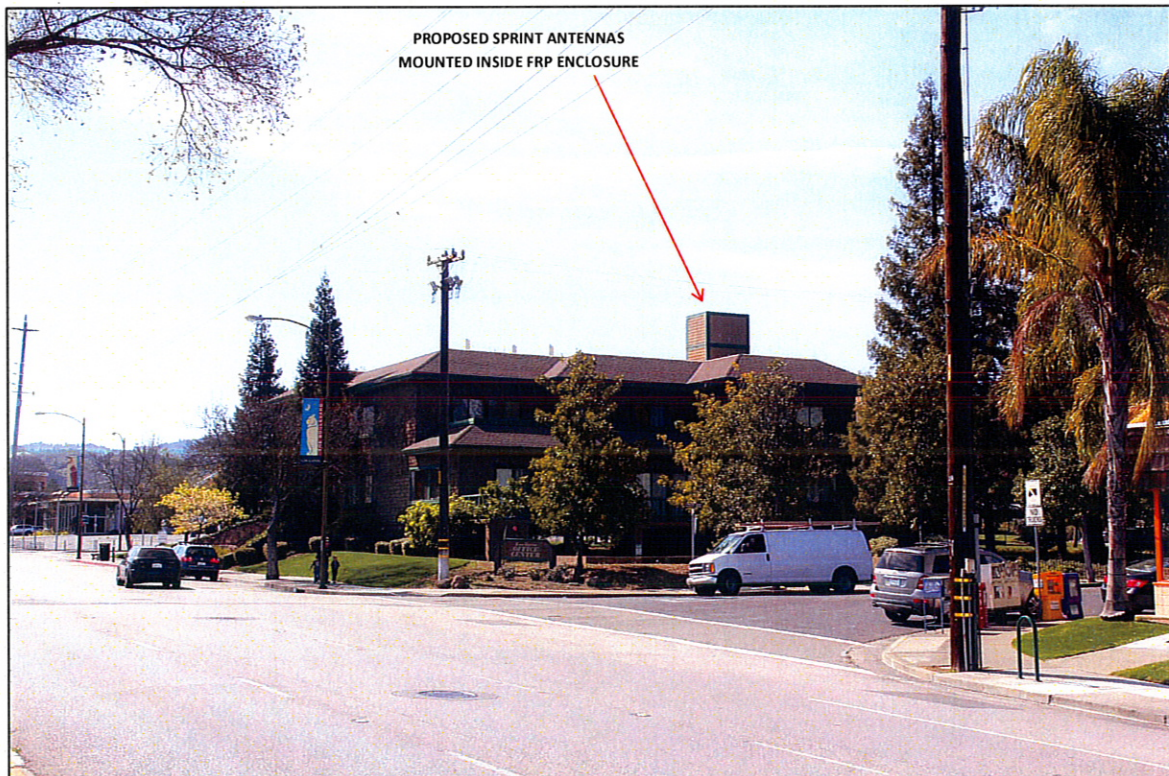
SITE NUMBER: FS04XC169

15951 LOS GATOS BLVD., LOS GATOS, CA 95032

SITE NAME: LOS GATOS / BLOSSOM



EXISTING



PROPOSED NORTH EAST ELEVATION



SITE NUMBER: FS04XC169

15951 LOS GATOS BLVD., LOS GATOS, CA 95032

SITE NAME: LOS GATOS / BLOSSOM



EXISTING



PROPOSED SOUTH EAST ELEVATION



SITE NUMBER: FS04XC169

15951 LOS GATOS BLVD., LOS GATOS, CA 95032

SITE NAME: LOS GATOS / BLOSSOM



EXISTING

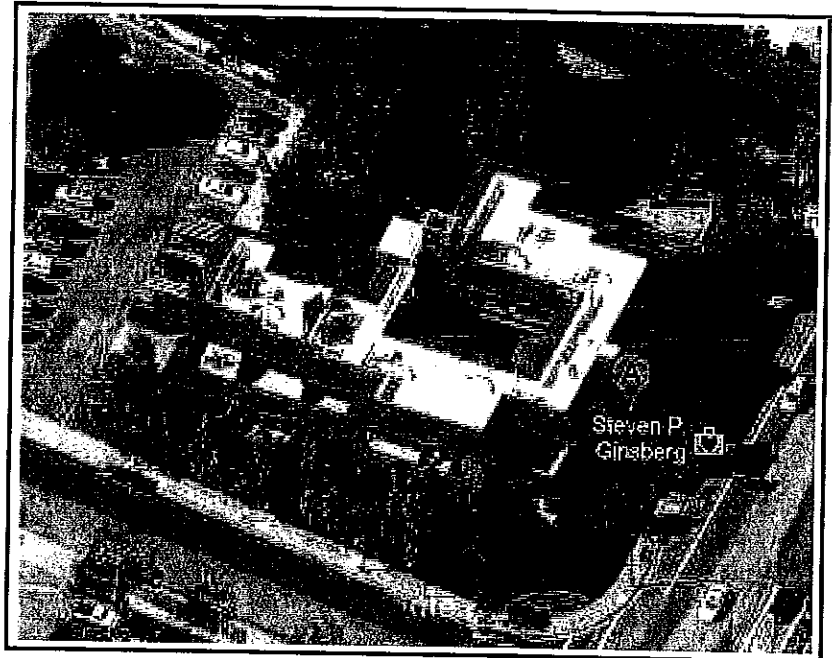


PROPOSED WEST ELEVATION

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Radio Frequency – Electromagnetic Energy (RF-EME) Compliance Report

Prepared for:
Sprint Nextel
c/o Black & Veatch Corporation
2999 Oak Rd. Suite 910
Walnut Creek, CA 94597



Site No. FS04XC169
Los Gatos Blvd/Blossom
15951 Los Gatos Blvd
Los Gatos, California 95032
Santa Clara County
37.237139; -121.963111 NAD83
Site Type: rooftop

EBI Project No. 62120491
March 14, 2012



EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Sprint Nextel to conduct radio frequency electromagnetic (RF-EME) modeling for Sprint Site FS04XC169 located at 15951 Los Gatos Blvd in Los Gatos, California to determine RF-EME exposure levels from existing and proposed Sprint wireless communications equipment at this site. As described in greater detail in Section 11.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

This report contains a detailed summary of the RF EME analysis for the site.

This document addresses the compliance of Sprint's proposed transmitting facilities independently.

1.0 LOCATION OF ALL EXISTING ANTENNAS AND FACILITIES AND EXISTING RF LEVELS

This project involves the addition of three (3) proposed Sprint wireless telecommunication antennas on a rooftop located at 15951 Los Gatos Blvd in Los Gatos, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with one (1) antennas that may be re-installed per sector.

There were no collocated carriers on the rooftop.

2.0 LOCATION OR ALL APPROVED (BUT NOT INSTALLED) ANTENNAS AND FACILITIES AND EXPECTED RF LEVELS FROM THE APPROVED FACILITIES

There are no antennas or facilities that are approved and not installed based on information provided to EBI and Sprint at the time of this report.

3.0 NUMBER AND TYPES OF WTS WITHIN 100 FEET OF THE PROPOSED SITE AND ESTIMATES OF CUMULATIVE EMR EMISSIONS AT THE PROPOSED SITE

There are no other Wireless Telecommunication Service (WTS) sites observed within 100 feet of the proposed site.

4.0 LOCATION AND NUMBER OF THE SPRINT ANTENNAS AND BACK-UP FACILITIES PER BUILDING AND NUMBER AND LOCATION OF OTHER TELECOMMUNICATION FACILITIES ON THE PROPERTY

Sprint proposes the addition of three (3) proposed Sprint wireless telecommunication antennas on a rooftop located at 15951 Los Gatos Blvd in Los Gatos, California. There are three Sectors (A, B, and C) proposed to be replaced at the site, with one (1) antennas that may be re-installed per sector. In each sector, there is proposed to be one antenna transmitting in the 800 MHz and the 1900 MHz frequency ranges MHz frequency range. The Sector A antenna will be oriented 20° from true north. The Sector B antenna will be oriented 140° from true north. The Sector C antenna will be oriented 245° from true north. The bottoms of the antennas will be 4 feet above the main roof ground level.

There were no collocated carriers on the rooftop.

5.0 POWER RATING FOR ALL EXISTING AND PROPOSED BACKUP EQUIPMENT SUBJECT TO THE APPLICATION

The operating power for modeling purposes was assumed to be 20 Watts per transmitter for the 800 MHz antenna and there will be one (1) transmitter operating at this frequency. Additionally, for modeling purposes it was assumed to be 20 Watts per transmitter and eight (8) transmitters operating at the 1900 MHz.

6.0 TOTAL NUMBER OF WATTS PER INSTALLATION AND THE TOTAL NUMBER OF WATTS FOR ALL INSTALLATIONS ON THE BUILDING

The effective radiated power (ERP) for the 800 MHz transmitter combined on site is 618 Watts. The ERP for the 1900 MHz transmitters combined on site is 9,867 Watts.

7.0 PREFERRED METHOD OF ATTACHMENT OF PROPOSED ANTENNA WITH PLOT OR ROOF PLAN INCLUDING: DIRECTIONALITY OF ANTENNAS, HEIGHT OF ANTENNAS ABOVE NEAREST WALKING SURFACE, DISCUSS NEARBY INHABITED BUILDINGS

Based on the information provided to EBI, the information indicates that the proposed antennas are to be stealth mounted inside a fake cupola, operating in the directions, frequencies, and heights mentioned in section 4.0 above. This site appears to be located in a commercial/residential area.

8.0 ESTIMATED AMBIENT RADIO FREQUENCY FIELDS FOR THE PROPOSED SITE

Based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 11 feet of Sprint proposed antennas at the main roof level. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 3 feet of Sprint proposed antennas at the main roof level. At the nearest walking/working surfaces to the proposed Sprint antennas, the maximum power density is 953.40 percent of the FCC's general public limit (190.68 percent of the FCC's occupational limit). Based on worst-case predictive modeling, there are no areas at ground level related to the proposed Sprint antennas that exceed the FCC's occupational or general public exposure limits at this site. At ground level, the maximum power density generated by the Sprint antennas is 9.50 percent of the FCC's general public limit (1.90 percent of the FCC's occupational limit). The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix B.

9.0 SIGNAGE AT THE FACILITY IDENTIFYING ALL WTS EQUIPMENT AND SAFETY PRECAUTIONS FOR PEOPLE NEARING THE EQUIPMENT AS MAY BE REQUIRED BY THE APPLICABLE FCC ADOPTED STANDARDS (DISCUSS SIGNAGE FOR THOSE WHO SPEAK LANGUAGES OTHER THAN ENGLISH)

Signs are the primary means for control of access to areas where RF exposure levels may potentially exceed the MPE. It is recommended that additional signage be installed for the new antennas making people aware of the antennas locations. There are fields in front of the proposed antennas but based on the roof being sloped in front of Sectors A and B, barriers are not recommended. However, a barrier is recommended in front of Sector C on the flat portion of the roof.

Additionally, there are areas where workers elevated above the rooftop may be exposed to power densities greater than the general population and occupational limits. Workers and the general public should be informed about the presence and locations of antennas and their associated fields.

Additionally, access to this site is accomplished via a roof access door located on the main roof. Access to the facility is monitored and as such, the general public is/is not able to access the rooftop.

10.0 STATEMENT ON WHO PRODUCED THIS REPORT AND QUALIFICATIONS

Please see the certifications attached in Appendix A below.

11.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI

guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the Sprint equipment operating at 800 MHz, the FCC's occupational MPE is 2.66 mW/cm² and an uncontrolled MPE of 0.53 mW/cm². These limits are considered protective of these populations.

Table I: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30

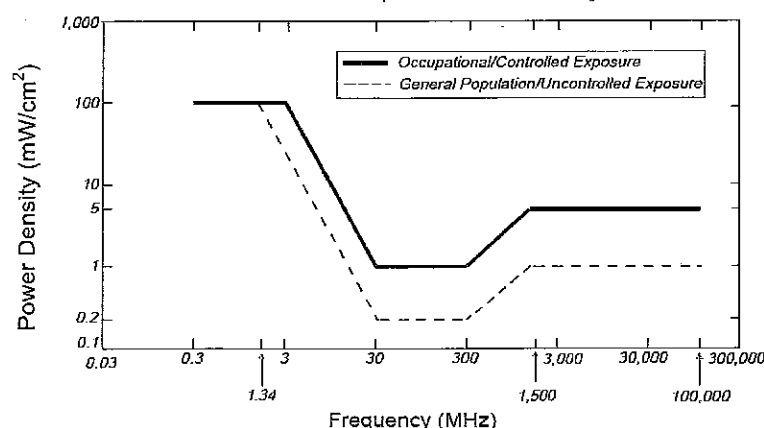
Table 1: Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time [E]², [H]², or S (minutes)
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

f = Frequency in (MHz)

* Plane-wave equivalent power density

Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

Personal Communication (PCS) facilities used by Sprint in this area operate within a frequency range of 800-1900 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate

energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

12.0 LIMITATIONS

This report was prepared for the use of Sprint Nextel. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made

13.0 SUMMARY AND CONCLUSIONS

EBI has prepared this Radiofrequency Emissions Compliance Report for the proposed Sprint telecommunications equipment at the site located at 15951 Los Gatos Blvd in Los Gatos, California.

EBI has conducted theoretical modeling to estimate the worst-case power density from Sprint antennas and the other carriers' existing antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements. As presented in the preceding sections, based on worst-case predictive modeling, the worst-case emitted power density may exceed the FCC's general public limit within approximately 11 feet of Sprint proposed antennas at the main roof level. Modeling also indicates that the worst-case emitted power density may exceed the FCC's occupational limit within approximately 3 feet of Sprint proposed antennas at the main roof level.

Signage is recommended at the site as presented in Section 9.0. Posting of the signage and installation of the recommended barriers brings the site into compliance with FCC rules and regulations.

Appendix A

Certifications

Reviewed and Approved by:



A handwritten signature in black ink, appearing to read "H. Stockinger", written over a horizontal line.

Herbert J. Stockinger, PE
Senior Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

Preparer Certification

I, Drew Duncklee, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I am familiar with the FCC rules and regulations as well as OSHA regulations both in general and as they apply to RF-EME exposure.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.



Appendix B

Roofview® Export File

Map, Settings, Antenna, and Symbol Data Table .. Exported from workbook -> RoofView 4.15.xls
 Done on 3/14/2012 at 3:19:46 PM.
 Use this format to prepare other data sets for the RoofView workbook file.
 You may use as many rows in this TOP header as you wish.
 The critical point are the cells in COLUMN ONE that read 'Start...' (eg. StartMapDefinition)
 If used, these (4) headers are required to be spelled exactly, as one word (eg. StartMapDefinition)
 The very next row will be considered the start of that data block.
 The first row of the data block can be a header (as shown below), but this is optional.
 When building a text file for import, Add the Map info first, then the Antenna data, followed by the symbol data.
 All rows above the first marker line 'Start...' will be ignored, no matter how many there are.
 This area is for you use for documentation.
 End of help comments.

You can place as much text here as you wish as long as you don't place it below
 the Start Map Definition row below the blue line.
 You may insert more rows using the Insert menu.
 Should you need additional lines to document your project, simply insert additional rows
 by highlighting the row number adjacent to the blue line below and then clicking on the Insert menu
 and selecting rows.

Map Definition

Roof Max Y Roof Max X Map Max Y Map Max X Y Offset X Offset mber of Ant envelope
 170 160 180 170 10 10 1 /\$41:SPX\$2/\$41:SPX\$210

Antenna Data

Standard Method Uptime Scale Factor Low Thr Low Color Mid Thr Mid Color HI Thr HI Color Over Color
 4 2 3 1 100 1 500 4 5000 2 3

Formulas to provide an ID (ant 1) for all antennas

(MHz) Trans Power Count Coax Len Coax Type Coax Other Loss Input Power Calc Power Mfg

ID	Name	Freq	Power	Count
SPT B1	Sprint	1900	20	2
SPT B1	Sprint	800	20	1
SPT B1	Sprint	1900	20	4
SPT A1	Sprint	1900	20	2
SPT A1	Sprint	800	20	1
SPT A1	Sprint	1900	20	6
SPT C1	Sprint	1900	20	2
SPT C1	Sprint	1900	20	6
SPT C1	Sprint	800	20	1

Symbol Data

Sym	Viap Marke	Roof X	Roof Y	Map Label notes for this table only }
Sym	5	35	AC Unit	multiple symbols
Sym	14	5	Roof Access	
Sym	45	5	AC Unit	
Sym	45	20	Ladder	

List Of Areas
 \$US41:SPX\$210

Status Report Sprint Los Gatos 15951 Los Gatos Blvd

CUP-U-12-009

For The

Town of Los Gatos

Summary of Actions Requested

RECEIVED

JUL 3 - 2012

**TOWN OF LOS GATOS
PLANNING DIVISION**

Upon receipt of Conditional Use Permit U-12-009 supplied by Marni Moseley, Associate Planner Town of Los Gatos, LRC Communications, Inc. was engaged to review a pending wireless application for Sprint site # FS04XC169 prepared by Kim Peterson. LRC reviewed this information along with the Town of Los Gatos "Standards for Wireless Telecommunications Facilities". LRC conducted a site survey, reviewed coverage maps, vicinity map and drove the area that would be impacted by the proposed cellular antenna installation.

Findings and Recommendations of LRC Communications, Inc.

- ❖ Site location is 15951 Los Gatos Blvd. Los Gatos, CA. 95032 the existing roof structure is located at N 37° 23' 13" W 121° 9' 11" (NAD 83) equipment will be located on a 27'.6" AGL, roof-top the roof has a parapet that will support a new MMBS equipment cabinet and a new battery cabinet mounted on the existing steel platform both the bracket mounted antennas and the RRH units. The new proposed MMA / Sprint antennas will be installed on brackets attached to the existing parapet with the exception of a single GPS antenna that is mounted on a 1'1/4" pipe that is also attached to the parapet. The 3 new MMA antennas will be installed at center of radiation sector (1) is 6' above roof top level; sector (2) is 6' above roof top level; sector (3) is 6' above roof top level. The new MMA antenna arrays and the 3 new RRH units are proposed be located on an existing rooftop behind a parapet wall. The site plan proposes adding 3 new MMA antennas to the existing mounts that contains 3 CDMA antennas at this existing leased Sprint cellular location. Review of RF emissions, proposed and calculations meet the requirements of the FCC.
- ❖ Review of Sprint rooftop plan installing 3 antennas that will be installed on brackets attached to the rooftop parapet structure to include various center

of radiation they will be located at 36' AGL sector 1 panel antenna azimuth 20 degrees T sector 2. antennas 140 degrees T; sector 3 azimuth panel antennas 260 degrees T. All antennas will be installed behind a parapet wall. The application appears to meet Town of Los Gatos Standards regarding this location.

- ❖ This proposed Sprint site upgrade will provide additional coverage between existing Sprint sites FS04XC169 and SF60XC808
- ❖ Antenna will be camouflaged by the parapet wall as shown on the building plans provided in the Conditional Use Permit application. The antennas do provide full service coverage within the Town of Los Gatos.
- ❖ There is battery backup power provided for the site per the site plans provided to LRC relative to primary power source or back up battery power. This information is not necessary to complete this review.

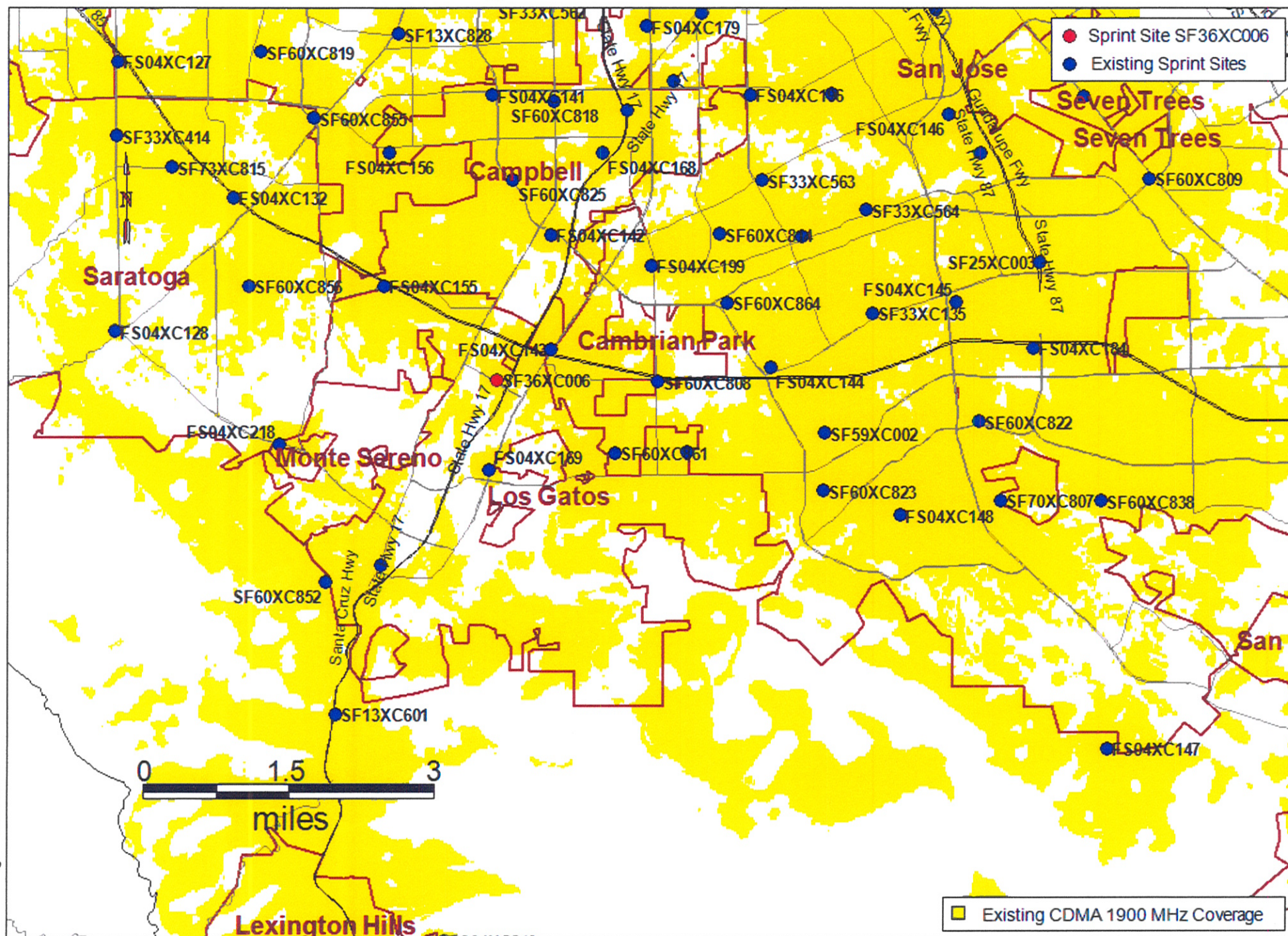
LRC Communications, Inc. hereby recommends that the Town of Los Gatos approve this application U-12-009 within the limits herein identified. LRC would recommend the 3 new MMA antenna services Sprint will leave the existing CDMA cellular antennas in service that will provide reliable, extended CDMA & MMA cellular coverage. Going forward LRC proposes a post construction site inspection to confirm emission level(s), signage and other key components of this cellular array are per application and in compliance with FCC standards as well as the standards set out for the Town of Los Gatos.

Summary Scope of Review

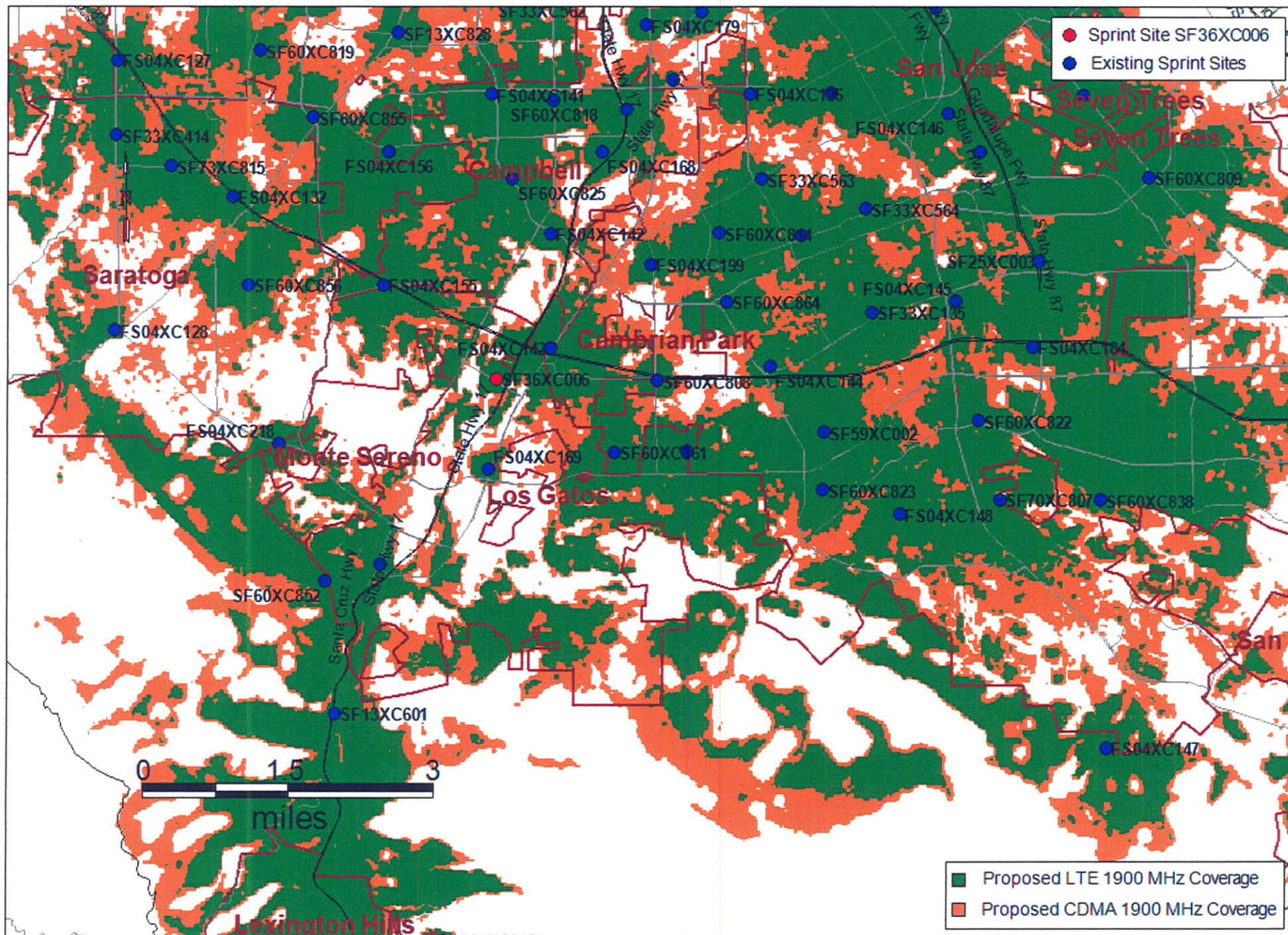
LRC reviewed the following documentation / information:

1. 12 page RF Electromagnetic Energy (RF-EME) – Compliance report provided by Herbert J. Stockinger Senior Engineer representing EBI consulting prepared for Sprint Nextel in care of Black & Veech Corporation
2. 9 page site general facilities description, study results plan prepared by Jeffery Rome & Associates, Inc.
3. 2 page report of proposed site coverage maps supplied by Mr. Kim Peterson with Public Wireless
4. Town of Los Gatos Standards for Wireless Telecommunications Facilities

Existing SF36XC006 coverage



Proposed SF36XC006 coverage



Sprint[®]

LOS GATOS BOULEVARD / BLOSSOM

FS04XC169

15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SITE TYPE:
ROOFTOP

SHEET	DESCRIPTION
T-1	TITLE SHEET
A-1	SITE PLAN AND ANTENNA SCHEDULE
A-2	EXISTING EQUIPMENT AND ANTENNA PLANS
A-2.1	INTERIM EQUIPMENT AND ANTENNA PLANS
A-3	PROPOSED EQUIPMENT AND ANTENNA PLANS
A-4	ELEVATIONS
A-4.1	ELEVATIONS

D-1	EQUIPMENT DETAILS
D-2	ANTENNA, RRU AND FILTER DETAILS

SHEET INDEX

Sprint[®]
6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

SAMSUNG
1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082

BLACK & VEATCH
10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210

JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 250
Newport Beach, California 92660
Phone: (949) 760-3929

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JUL 25 2012

TOWN OF LOS GATOS
PLANNING DIVISION

4-12-009

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A	02/07/12	90% ZD REVIEW	HG
B	03/16/12	100% ZD REVIEW	HG
B	03/20/12	ZAP SET	HG

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

PROJECT NAME
NETWORK VISION
SITE NAME
LOS GATOS
BOULEVARD/BLOSSOM
SITE NUMBER
FS04XC169
15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SHEET TITLE

TITLE SHEET

T-1

EXHIBIT 9

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 NOR CONFIRMING 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/ AIA-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.

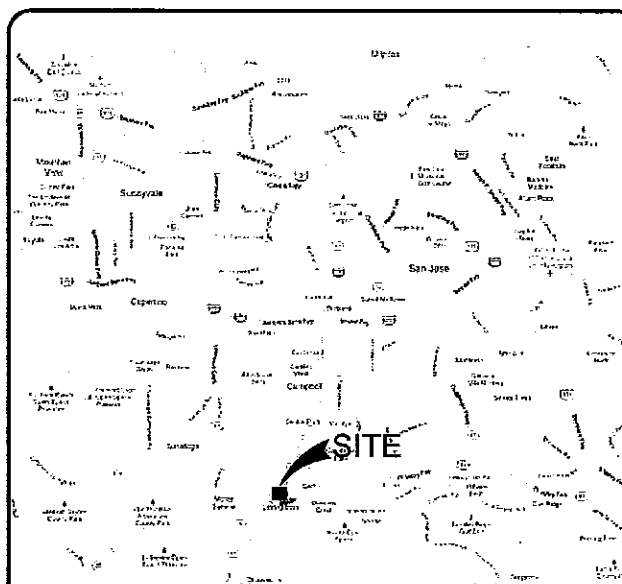


DIG ALERT
DIAL TOLL FREE
1-800-227-2600
CALL BEFORE YOU DIG

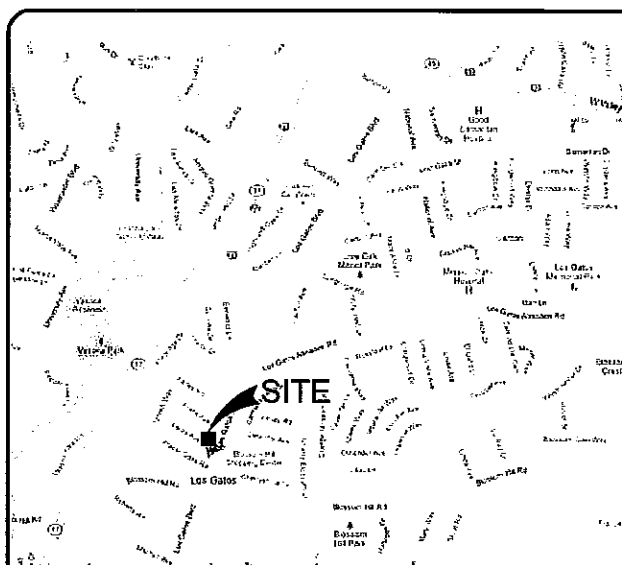
CODE BLOCK

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

SIGNATURE BLOCK



AREA MAP



LOCATION MAP

SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY

- REMOVE (3) (E) PANEL ANTENNAS.
- INSTALL (3) (N) PANEL ANTENNAS.
- INSTALL (6) (N) RRU'S.
- INSTALL (6) (N) FILTERS.
- REMOVE ALL (E) CDMA COAX.
- INSTALL (3) (N) HYBRID CABLES USING EXISTING COAX ROUTE.
- REMOVE (3) (E) EQUIPMENT CABINETS.
- INSTALL (1) (N) BATTERY CABINET.
- INSTALL (1) (N) MMBS CABINET.
- INSTALL (1) (N) GPS ANTENNA.
- INSTALL (N) FIBER AND AAV (NID) EQUIPMENT AT SITE.
- UPGRADE EXISTING ELECTRICAL PANEL TO 200 AMPS.

PROJECT DESCRIPTION

APPLICANT:
SPRINT PCS
310 COMMERCE
IRVINE, CALIFORNIA 92602
CONTACT: TBD

PROPERTY OWNER:
STEPHEN SHI HUA CHEN TRUST
HSIN HSIN YII CHEN TRUST
CHEN FAMILY TRUST
PO BOX 463
LOS ALTOS, CALIFORNIA 94023

ZONING CLASSIFICATION: COMMERCIAL
CALIFORNIA BUILDING CODE: 2010 EDITION
EXISTING CONSTRUCTION TYPE: TYPE V
PROPOSED CONSTRUCTION TYPE: TYPE V
EXISTING OCCUPANCY: U
PROPOSED OCCUPANCY: U
EXISTING USE: TELECOMMUNICATIONS
PROPOSED USE: TELECOMMUNICATIONS

PARCEL NUMBER:
529-57-001

LEASE AREA:
NO INCREASE IN LEASE AREA

LATITUDE (NAD 83):
37.237181°

LONGITUDE (NAD 83):
-121.962939°

PROJECT SUMMARY

PROJECT ARCHITECT

JEFFREY ROME & ASSOCIATES
1 SAN JOAQUIN PLAZA
SUITE 250
NEWPORT BEACH, CALIFORNIA 92660
CONTACT: HECTOR GONZALEZ
PHONE: (949) 760-3929
EMAIL: HECTOR@JRAINC.NET

STRUCTURAL ENGINEER

TBD
CONTACT: TBD
PHONE: TBD
EMAIL: TBD

EQUIPMENT SUPPLIER

SAMSUNG TELECOMMUNICATIONS AMERICA (STA)
1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082
PHONE: (972) 761-7000

CONSTRUCTION MANAGER:

JAMES CRIST
2999 OAK ROAD, SUITE 910
WALNUT CREEK, CALIFORNIA 94597
PHONE: (707) 815-6478
EMAIL: CRISTJ@OVERLANDCONTRACTING.COM

PLANNING CONSULTANT

PUBLIC WIRELESS
25 EAST TRIMBLE ROAD
SAN JOSE, CALIFORNIA 95131
CONTACT: KIM PETERSON
PHONE: (408) 433-3800

RF ENGINEER

SAMSUNG TELECOMMUNICATIONS AMERICA
TARUN SETHI
T.SETHI@SAMSUNG.COM
PHONE: (904) 803-0447

TELCO COMPANY:

TBD

POWER COMPANY:

TBD

PROJECT TEAM

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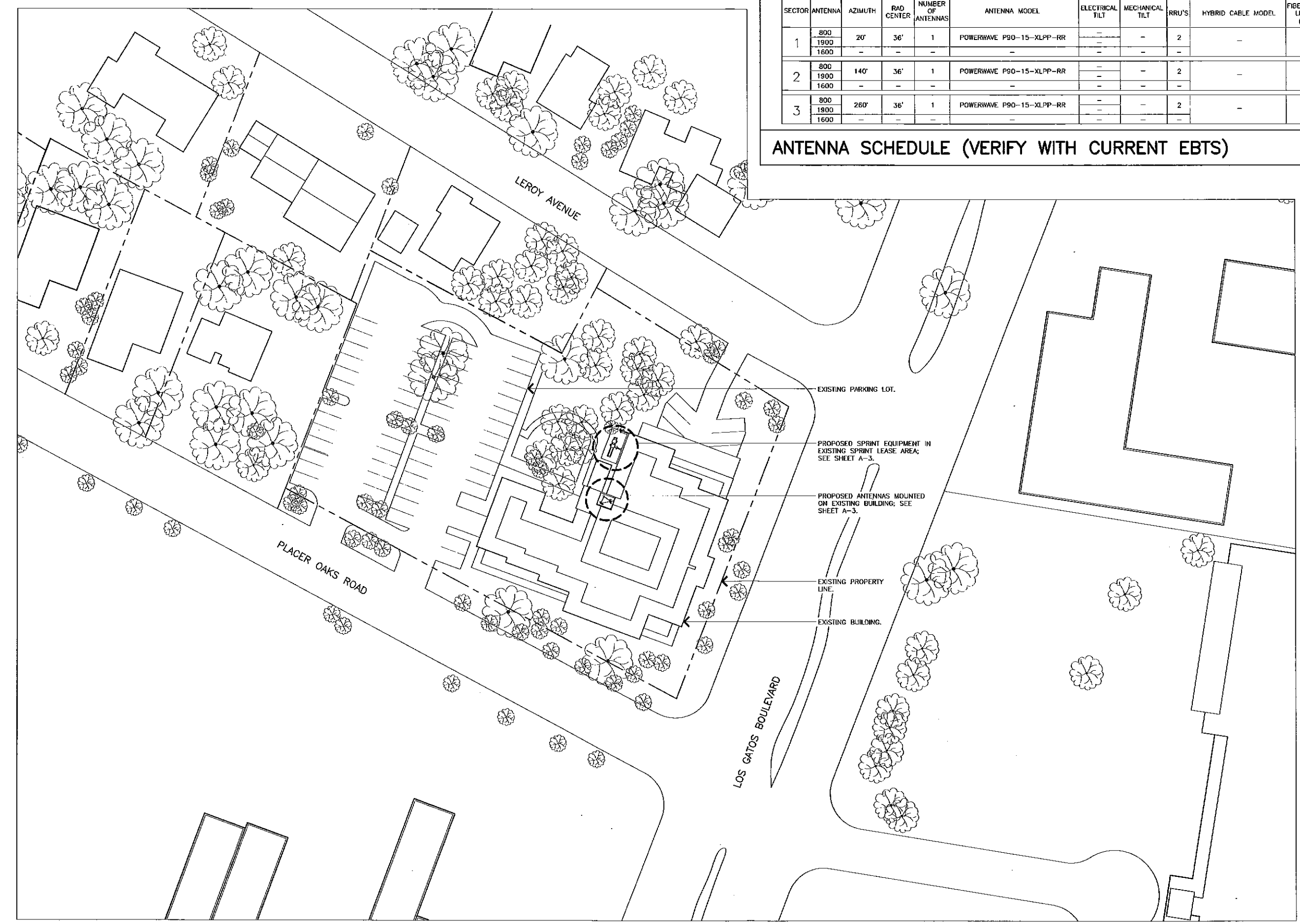
DRAWING SCALE

JRA JOB NUMBER: 110837

SECTOR	ANTENNA	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	ANTENNA MODEL	ELECTRICAL TILT	MECHANICAL TILT	RRU'S	HYBRID CABLE MODEL	FIBER OPTIC LENGTH (±5')
1	800	20°	36'	1	POWERWAVE P90-15-XLPP-RR	---	---	2	---	TBD'
	1900	---	---	---	---	---	---	---	---	---
	1600	---	---	---	---	---	---	---	---	---
2	800	140°	36'	1	POWERWAVE P90-15-XLPP-RR	---	---	2	---	TBD'
	1900	---	---	---	---	---	---	---	---	---
	1600	---	---	---	---	---	---	---	---	---
3	800	260°	36'	1	POWERWAVE P90-15-XLPP-RR	---	---	2	---	TBD'
	1900	---	---	---	---	---	---	---	---	---
	1600	---	---	---	---	---	---	---	---	---

ANTENNA SCHEDULE (VERIFY WITH CURRENT EBTS)

2



6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210

Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 250
Newport Beach, California 92660
Phone: (949) 760-3829

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B	03/16/12	100% ZD REVIEW	HG
B	03/20/12	ZAP SET	HG

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PROJECT NAME

NETWORK VISION

SITE NAME

LOS GATOS BOULEVARD/BLOSSOM

SITE NUMBER

FS04XC169

15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SHEET TITLE

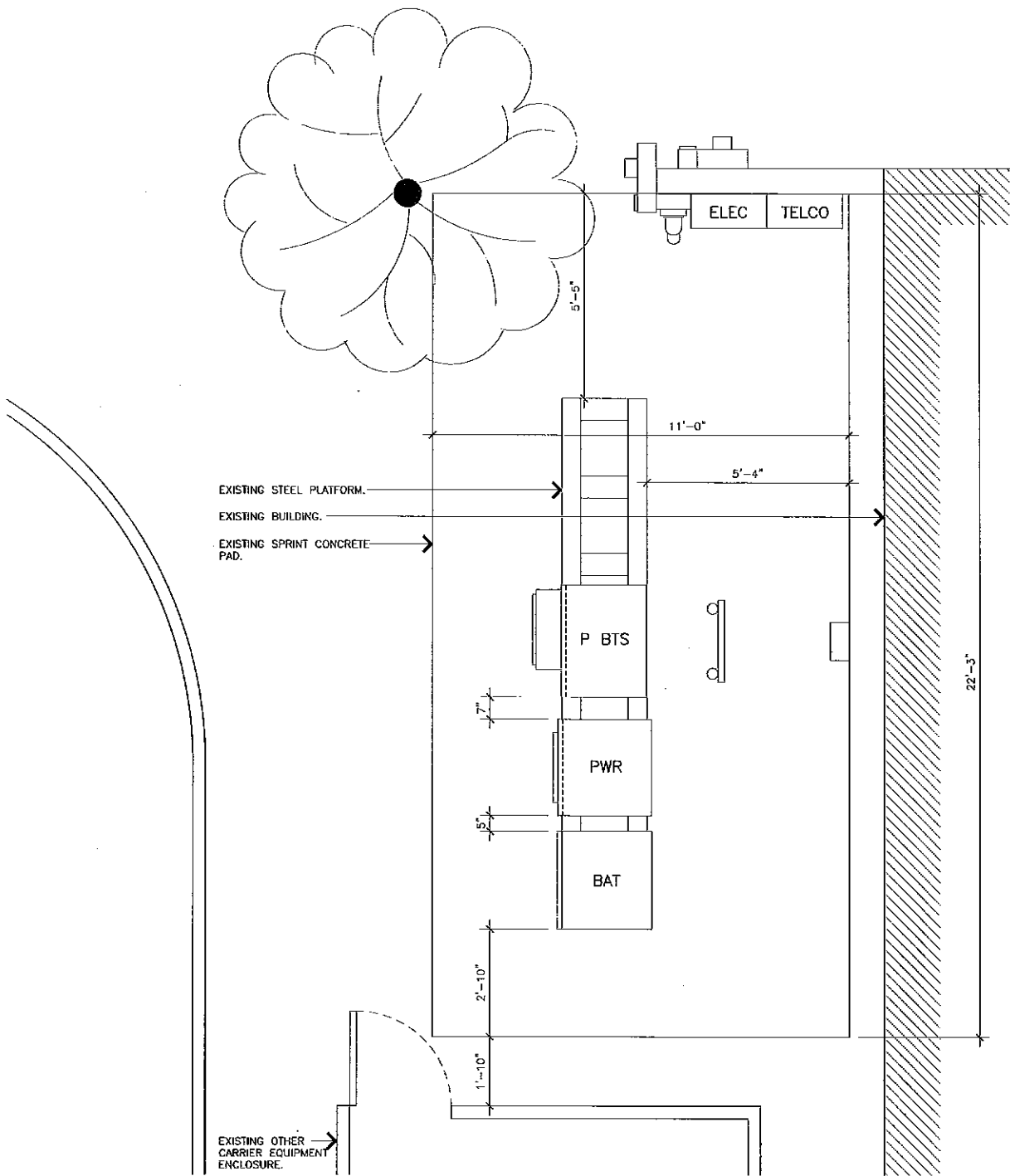
SITE PLAN AND ANTENNA SCHEDULE

A-1

JRA JOB NUMBER: 110837

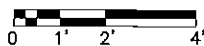
EQUIPMENT PLAN SYMBOL LEGEND

TELCO	EXISTING SPRINT TELCO CABINET.	ELEC	EXISTING 100 AMP ELECTRICAL PANEL.
BAT	EXISTING SPRINT BATTERY CABINET.		EXISTING SPRINT SITE LIGHT.
PWR	EXISTING SPRINT POWER CABINET.		EXISTING SPRINT MAIN GROUND BUS BAR.
P BTS	EXISTING SPRINT PRIMARY BTS CABINET.		EXISTING SPRINT ELECTRICAL METER.
CURW	EXISTING CLEARWIRE CABINET.		EXISTING SPRINT GPS ANTENNA.
XFMR	EXISTING ELECTRICAL TRANSFORMER.		



EXISTING EQUIPMENT PLAN

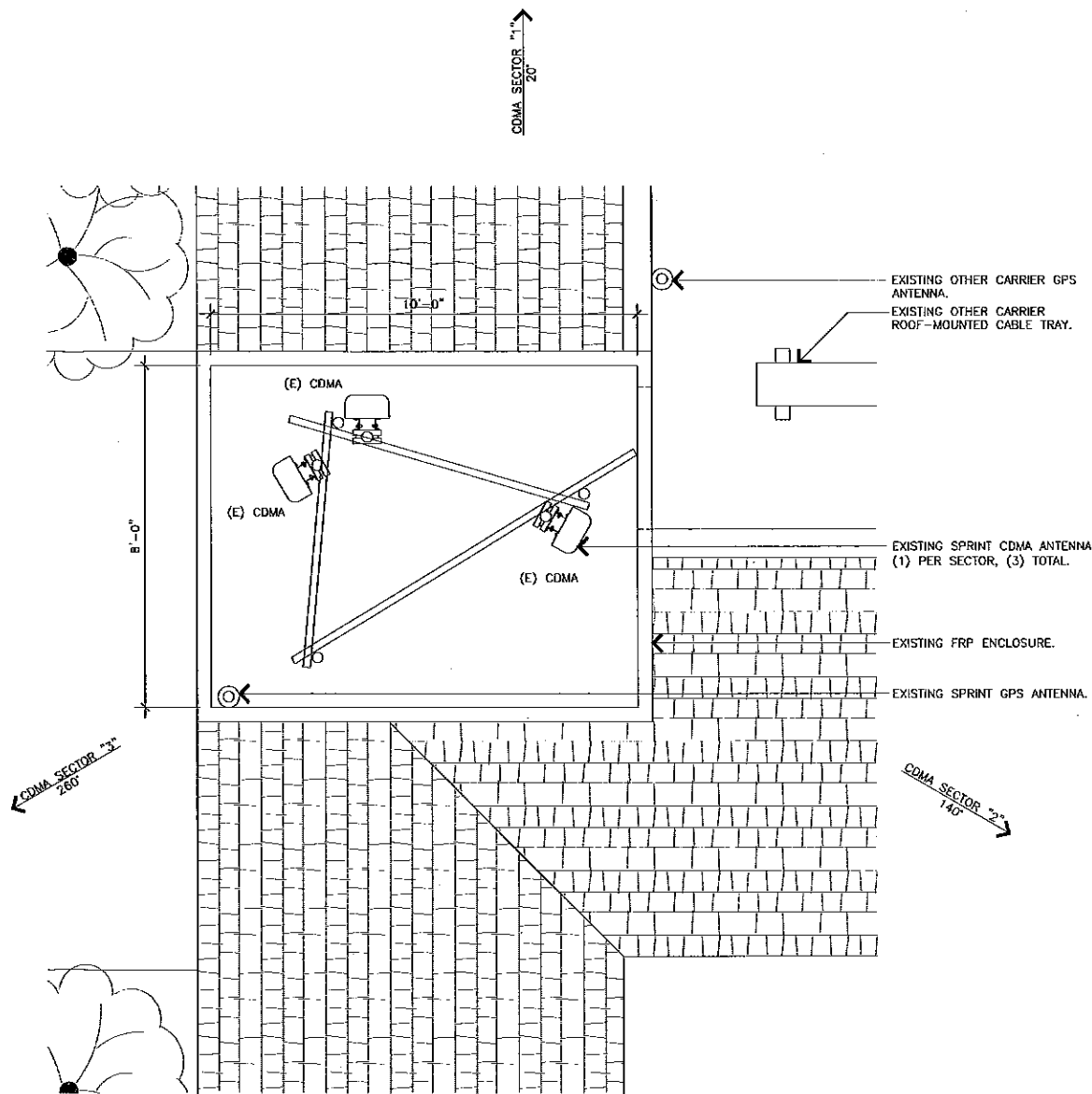
11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"



2

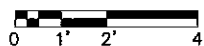
ANTENNA LAYOUT PLAN NOTES

- 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.
 - OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.
- (E) EXISTING ANTENNA
(N) PROPOSED ANTENNA



EXISTING ANTENNA PLAN

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



1

Sprint
6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

SAMSUNG
1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082

BLACK & VEATCH
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1 San Joaquin Plaza, Suite 250
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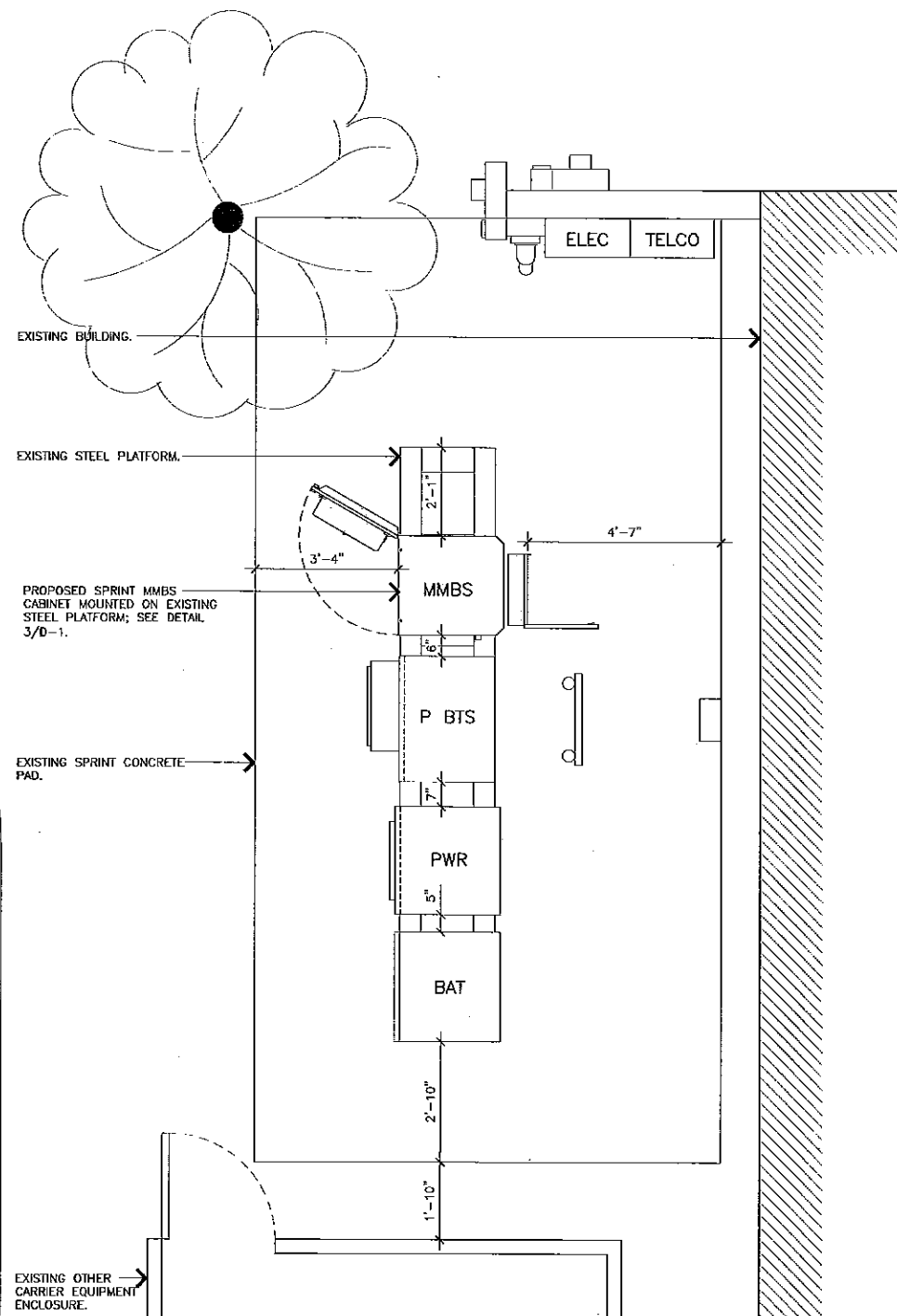
PROJECT NAME
NETWORK VISION
SITE NAME
LOS GATOS
BOULEVARD/BLOSSOM
SITE NUMBER
FS04XC169
15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SHEET TITLE
**EXISTING EQUIPMENT
AND ANTENNA PLANS**

A-2

EQUIPMENT PLAN SYMBOL LEGEND

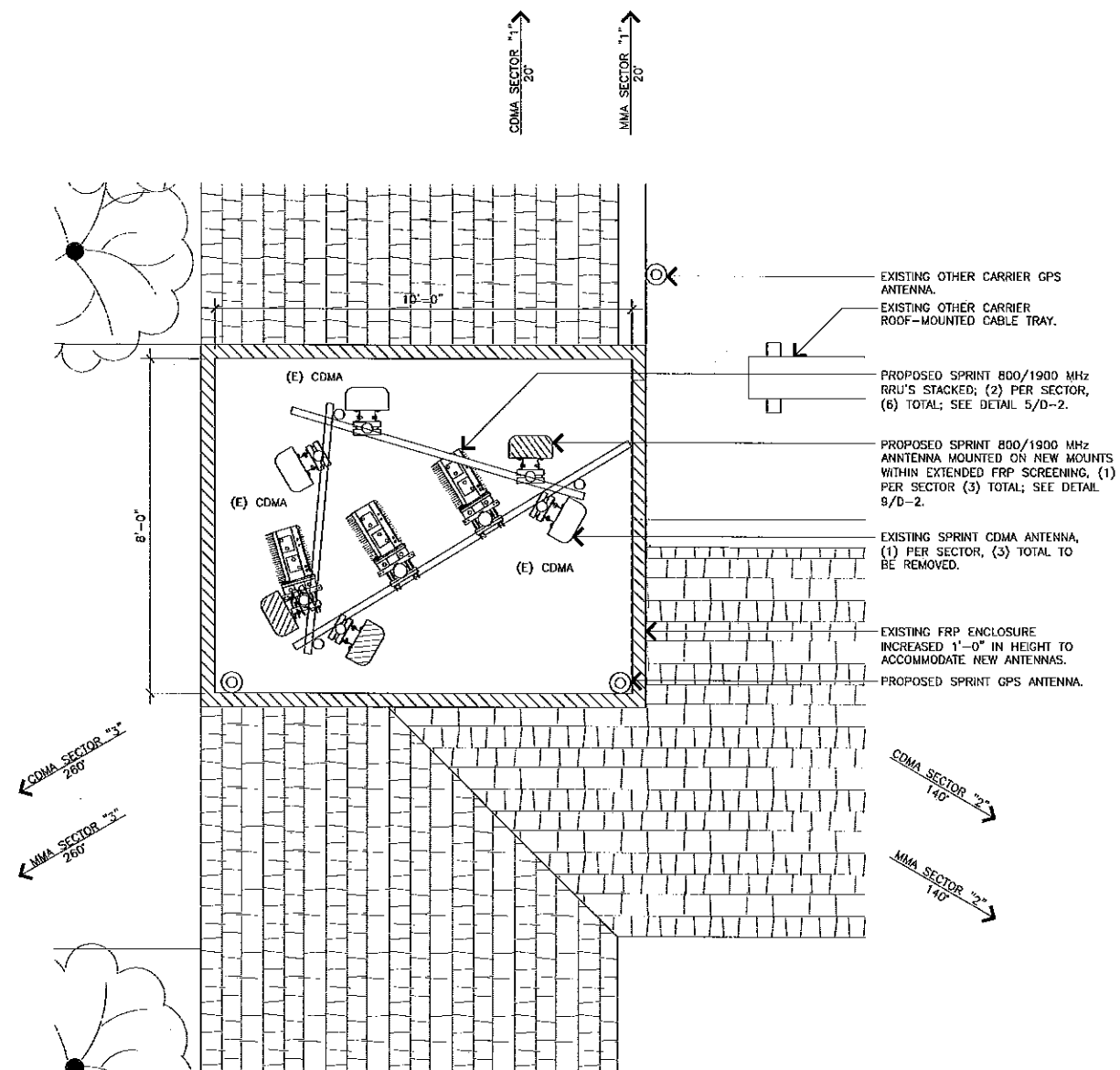
TELCO	EXISTING SPRINT TELCO CABINET.	EXISTING SPRINT SITE LIGHT.
BAT	EXISTING SPRINT BATTERY CABINET.	EXISTING SPRINT MAIN GROUND BUS BAR.
PWR	EXISTING SPRINT POWER CABINET.	EXISTING SPRINT ELECTRICAL METER.
P BTS	EXISTING SPRINT PRIMARY BTS CABINET.	EXISTING SPRINT GPS ANTENNA.
CLRW	EXISTING CLEARWIRE CABINET.	PROPOSED SPRINT CABINET.
XFMR	EXISTING ELECTRICAL TRANSFORMER.	
ELEC	UPGRADED 200 AMP ELECTRICAL PANEL.	



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. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.

(E) EXISTING ANTENNA
(N) PROPOSED ANTENNA



Sprint

6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

SAMSUNG

1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210

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Architecture & Telecommunications
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ZAP SET

REVISIONS

A	02/07/12	90% ZD REVIEW	HG
B	03/16/12	100% ZD REVIEW	HG
B	03/20/12	ZAP SET	HG

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SITE NUMBER

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15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

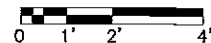
SHEET TITLE

INTERIM EQUIPMENT
AND ANTENNA PLANS

INTERIM EQUIPMENT PLAN

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

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

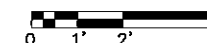


2

INTERIM ANTENNA PLAN

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

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



1

A-2.1

EQUIPMENT PLAN SYMBOL LEGEND

- TELCO

EXISTING SPRINT TELCO CABINET.
- BAT

EXISTING SPRINT BATTERY CABINET.
- PWR

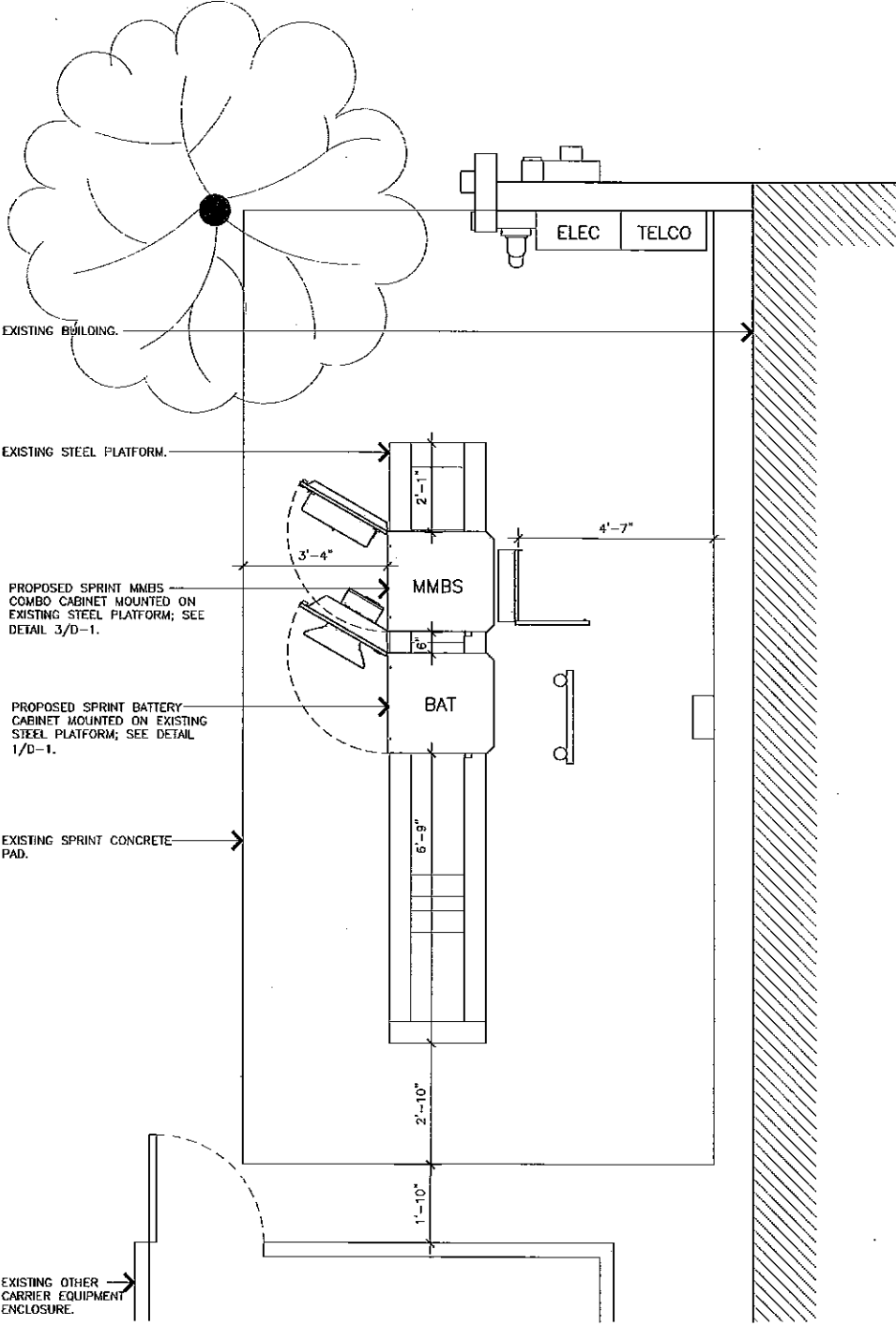
EXISTING SPRINT POWER CABINET.
- P.BTS

EXISTING SPRINT PRIMARY BTS CABINET.
- CLRW

EXISTING CLEARWIRE CABINET.
- XFMR

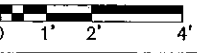
EXISTING ELECTRICAL TRANSFORMER.
- ELEC

UPGRADED 200 AMP ELECTRICAL PANEL.
- EXISTING SPRINT SITE LIGHT.
- EXISTING SPRINT MAIN GROUND BUS BAR.
- EXISTING SPRINT ELECTRICAL METER.
- EXISTING SPRINT GPS ANTENNA.
- PROPOSED SPRINT CABINET.



PROPOSED EQUIPMENT PLAN

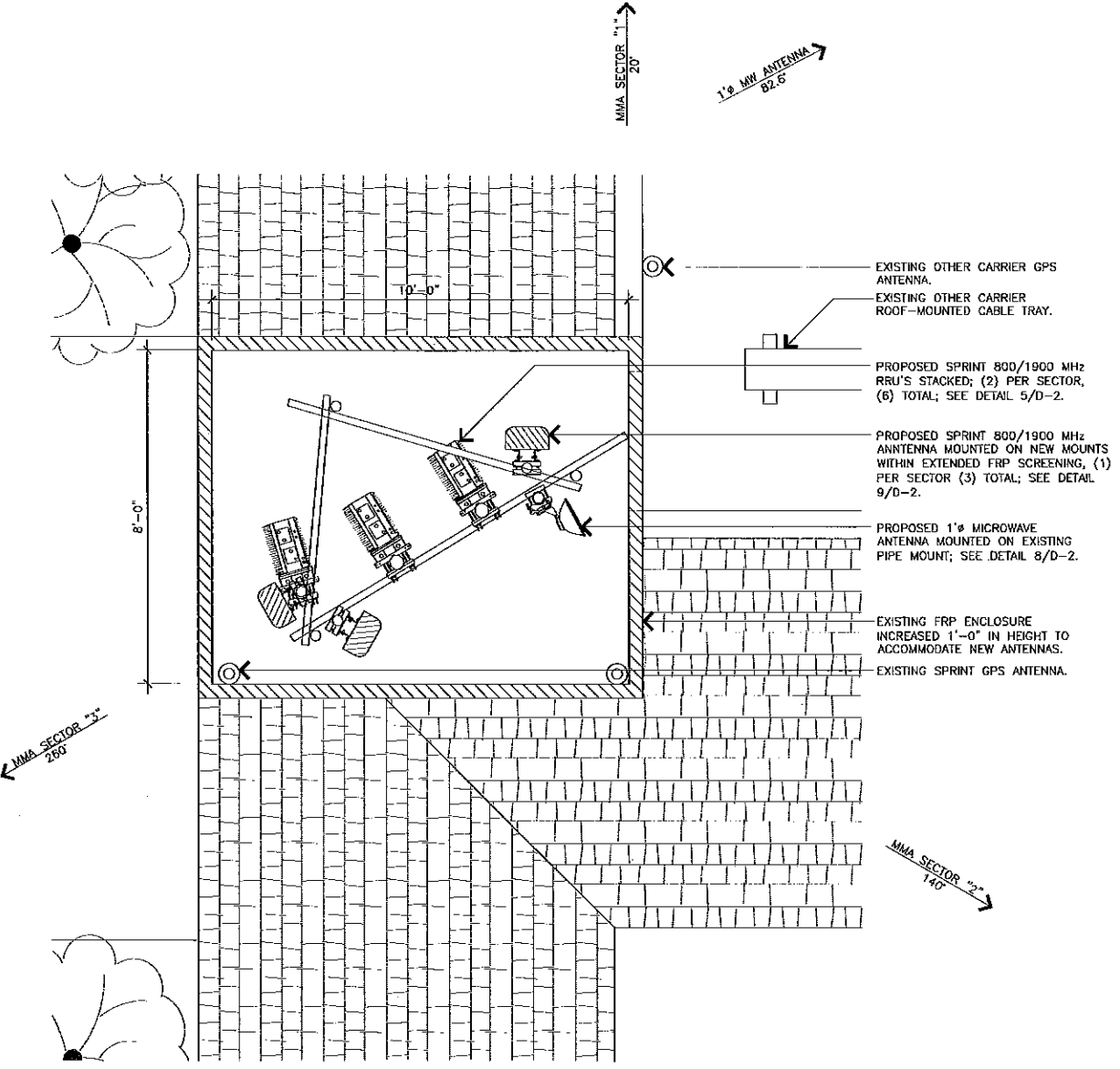
11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"



2

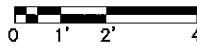
ANTENNA LAYOUT PLAN NOTES

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.
2. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.
- (E) EXISTING ANTENNA
- (N) PROPOSED ANTENNA



PROPOSED ANTENNA PLAN

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



1

Sprint
6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

SAMSUNG
1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082

BLACK & VEATCH
10950 GRANDVIEW DRIVE
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LOS GATOS
BOULEVARD/BLOSSOM
SITE NUMBER
FS04XC169
15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SHEET TITLE
PROPOSED EQUIPMENT AND ANTENNA PLANS

A-3

JRA JOB NUMBER: 110837

EXISTING SPRINT GPS ANTENNA.

EXISTING 4'-6" SPRINT ANTENNAS
MOUNTED ON EXISTING ROOFTOP.

EXISTING BUILDING.

TOP OF EXISTING FRP ENCLOSURE.
39.00 A.G.L.

TOP OF EXISTING SPRINT ANTENNAS.
38.25 A.G.L.

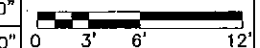
CENTER OF EXISTING SPRINT ANTENNAS.
36.00 A.G.L.

TOP OF EXISTING BUILDING.
29.00 A.G.L.

TOP OF F.S.
0.00 A.G.L.

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

22x34 SCALE: 3/16"=1'-0"



2

EXISTING SOUTH ELEVATION

PROPOSED SPRINT GPS ANTENNA.

EXISTING SPRINT GPS ANTENNA.

PROPOSED 1'-0" FRP EXTENSION.

PROPOSED SPRINT 1 1/2 MICROWAVE
MOUNTED ON ROOFTOP BEHIND FRP
ENCLOSURE.

PROPOSED SPRINT 800/1900 MHz
ANTENNAS MOUNTED ON ROOFTOP INSIDE
EXTENDED FRP ENCLOSURE.

PROPOSED SPRINT 800/1900
MHz RRUS MOUNTED ON
ROOFTOP INSIDE EXTENDED FRP
ENCLOSURE.

EXISTING BUILDING.

TOP OF EXTENDED FRP ENCLOSURE.
40.00 A.G.L.

TOP OF PROPOSED SPRINT ANTENNAS.
39.58 A.G.L.

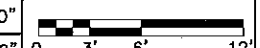
CENTER OF PROPOSED SPRINT ANTENNAS.
36.58 A.G.L.

TOP OF EXISTING BUILDING.
29.00 A.G.L.

TOP OF F.S.
0.00 A.G.L.

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

22x34 SCALE: 3/16"=1'-0"



1

PROPOSED SOUTH ELEVATION

Sprint

6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

SAMSUNG

1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082



BLACK & VEATCH

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REVISIONS

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B	03/20/12	ZAP SET	HG

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PROJECT NAME

NETWORK VISION

LOS GATOS

BOULEVARD/BLOSSOM

FS04XC169

15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SHEET TITLE

ELEVATIONS

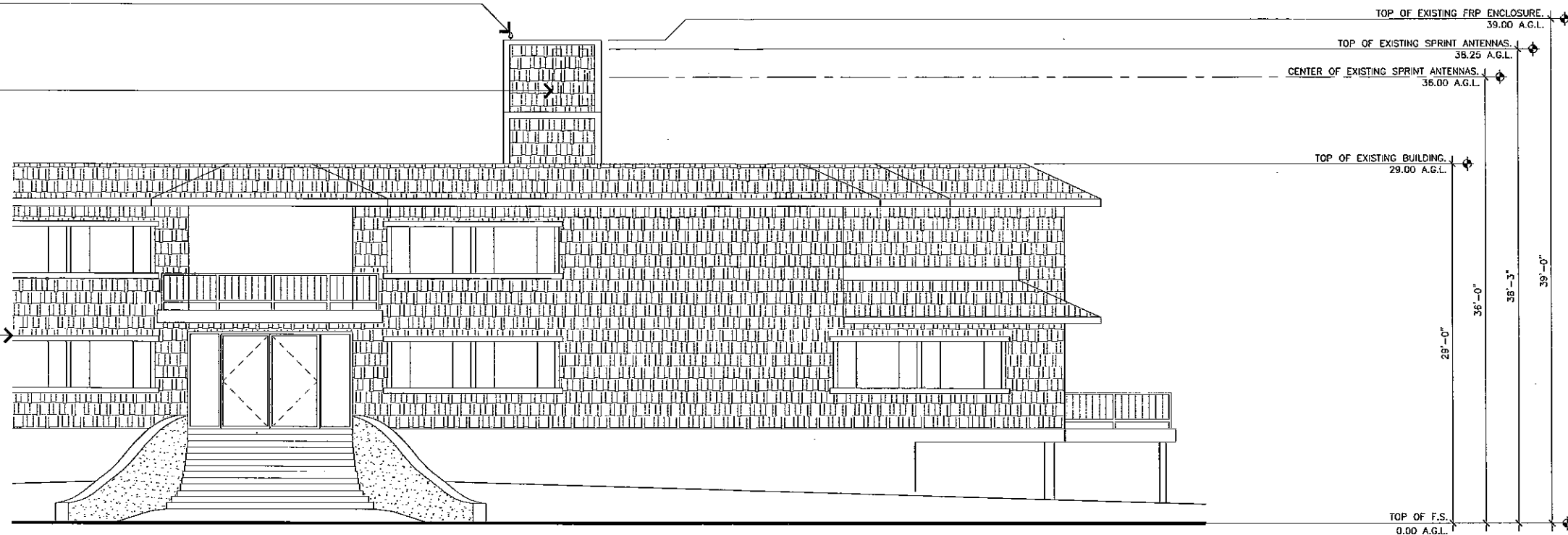
A-4

JRA JOB NUMBER: 110837

EXISTING SPRINT GPS ANTENNA.

EXISTING 4'-6" SPRINT ANTENNAS
MOUNTED ON EXISTING ROOFTOP.

EXISTING BUILDING.



EXISTING EAST ELEVATION

11x17 SCALE: 3/32"=1'-0"
22x34 SCALE: 3/16"=1'-0"



2

PROPOSED SPRINT GPS ANTENNA.

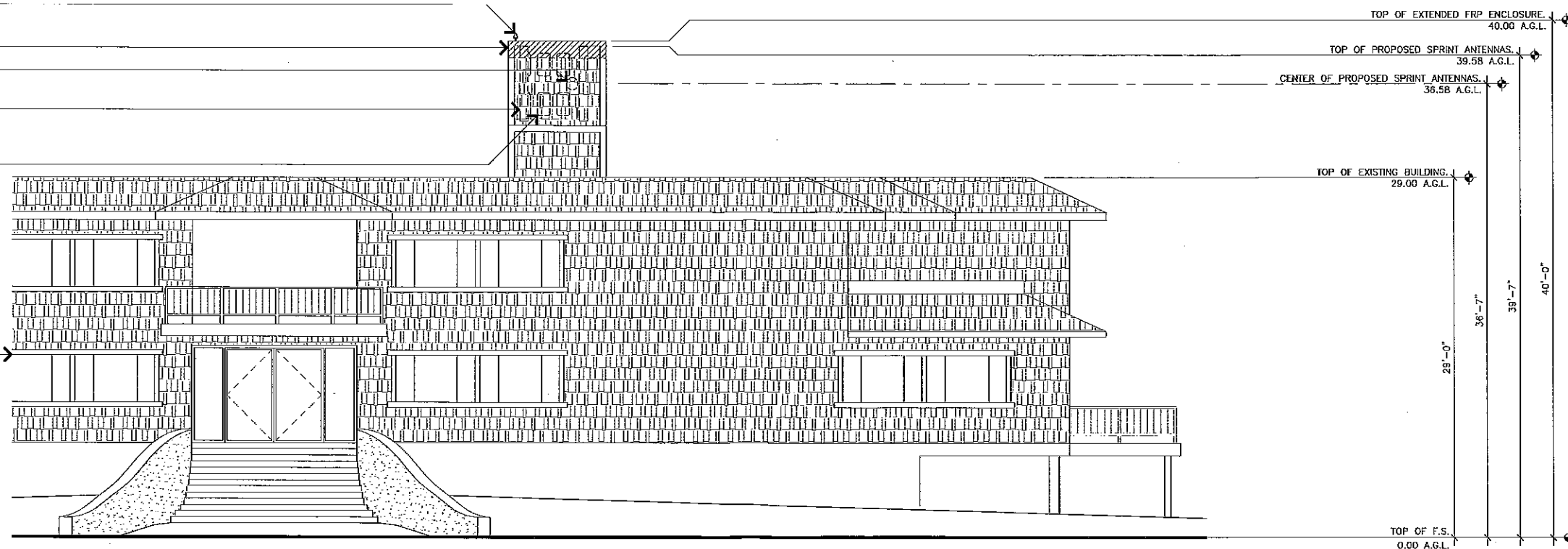
PROPOSED 1'-0" FRP EXTENSION.

PROPOSED SPRINT 1" MICROWAVE
MOUNTED ON ROOFTOP BEHIND FRP
ENCLOSURE.

PROPOSED SPRINT 800/1900 MHz
ANTENNAS MOUNTED ON ROOFTOP INSIDE
EXTENDED FRP ENCLOSURE.

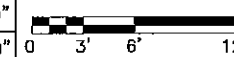
PROPOSED SPRINT 800/1900
MHz RRU'S MOUNTED ON
ROOFTOP INSIDE EXTENDED FRP
ENCLOSURE.

EXISTING BUILDING.



PROPOSED EAST ELEVATION

11x17 SCALE: 3/32"=1'-0"
22x34 SCALE: 3/16"=1'-0"



1

Sprint

6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

SAMSUNG

1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082



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ZAP SET

REVISIONS

	DATE	DESCRIPTION	BY
A	02/07/12	90% ZD REVIEW	HG
B	03/16/12	100% ZD REVIEW	HG
B	03/20/12	ZAP SET	HG

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NETWORK VISION

SITE NAME

LOS GATOS

BOULEVARD/BLOSSOM

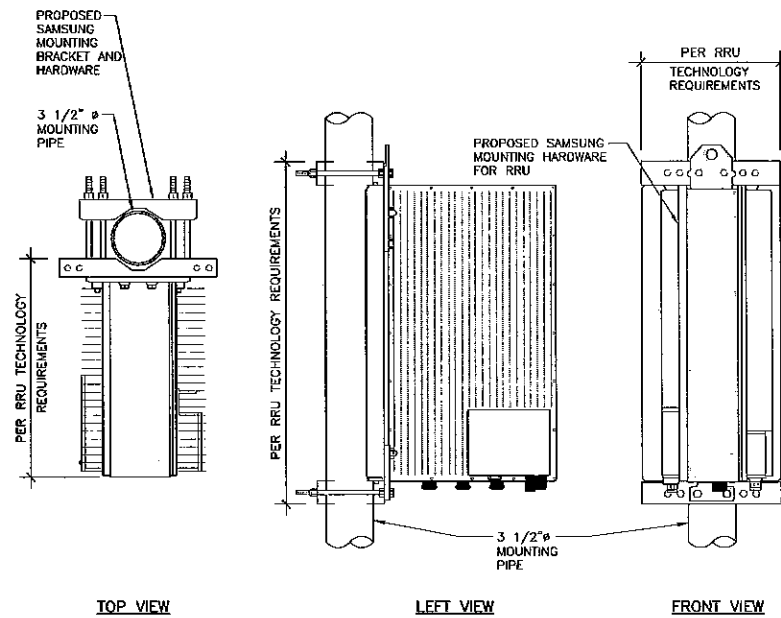
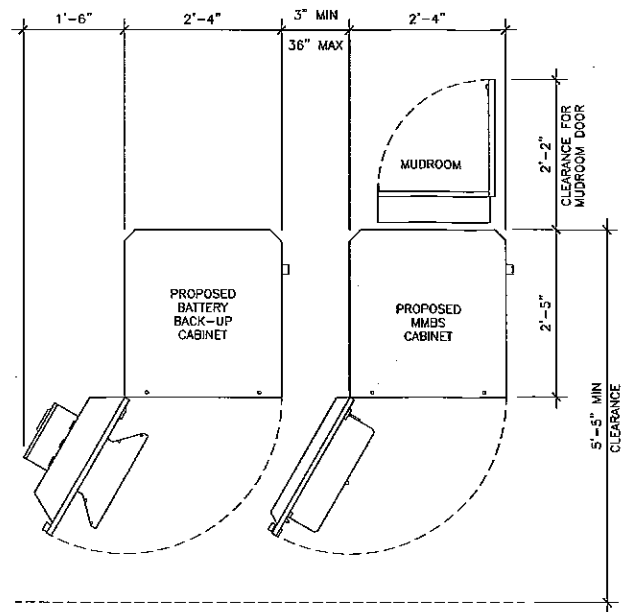
SITE NUMBER

FS04XC169
15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SHEET TITLE

ELEVATIONS

A-4.1



NOT USED

SCALE:
NONE

5

MMBS TYPICAL FLOOR PLAN

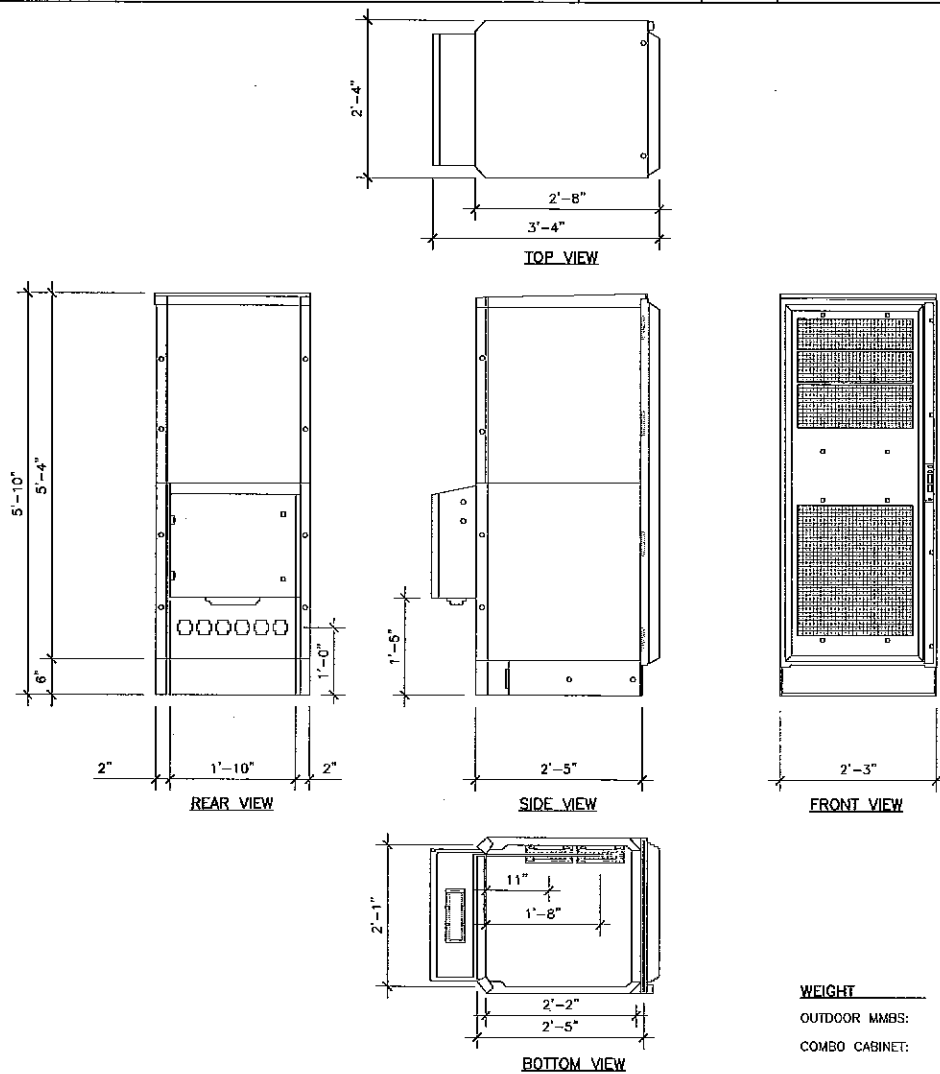
SCALE:
NONE

4

RRU POLE MOUNT INSTALLATION

SCALE:
NONE

2

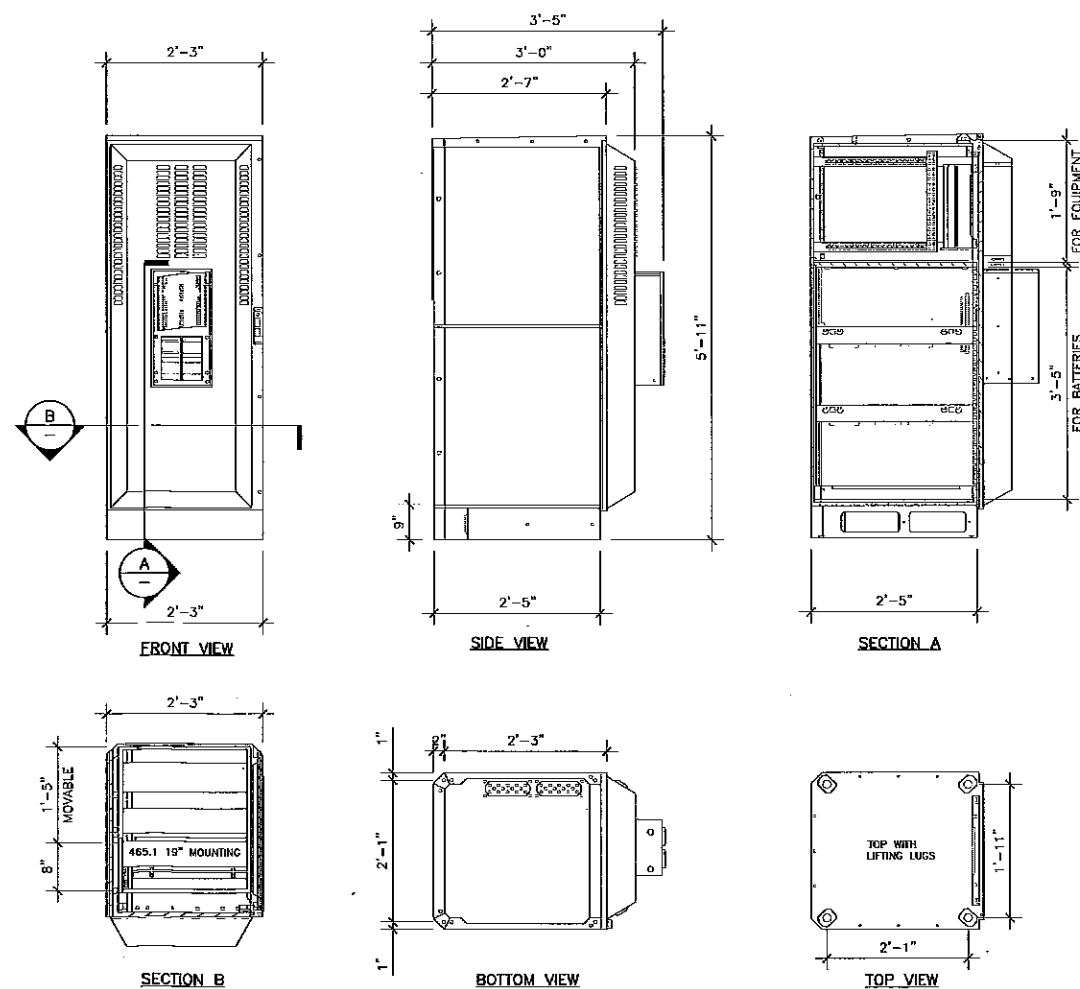


WEIGHT
OUTDOOR MMBS: 738 LBS
COMBO CABINET: 1,270 LBS

SCALE:
NONE

3

BATTERY BACK-UP CABINET



WEIGHT
CABINET: 370 LBS
BATTERY STRING: 529 LBS
(4 MAXIMUM)
TOTAL WEIGHT: 2,568 LBS

SCALE:
NONE

1

MMBS CABINET SPECIFICATIONS

Sprint
6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

SAMSUNG
1301 EAST LOOKOUT DRIVE
RICHARDSON, TEXAS 75082

BLACK & VEATCH
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ZAP SET

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A 02/07/12 90% ZD REVIEW HG
B 03/16/12 100% ZD REVIEW HG
B 03/20/12 ZAP SET

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15951 LOS GATOS BOULEVARD
LOS GATOS, CALIFORNIA 95032

SHEET TITLE

EQUIPMENT DETAILS

D-1

<div>POWERWAVE P90-15-XLPP-RR</div> <div><div>DIMENSIONS, HxWxD:72"H x 12"W x 6"D</div><div>WEIGHT -WITHOUT BRACKETS:43 lbs</div><div>-WITH BRACKETS:50 lbs</div><div>CONNECTOR:(6) 7/16 DIN FEMALE / BOTTOM</div></div> <div></div>			<div><div>FRONT</div><div>1'-7 1/4"</div><div>SIDE</div><div>11"</div><div>11 1/2"</div><div>BOTTOM</div><div>1'-6 3/4"</div><div>11"</div></div> <div><div>DIMENSIONS</div><div>HxWxD:489x280x471mm</div><div>(18.2"x11"x18.5")</div><div>WEIGHT, W/ FILTER:70 lbs</div></div>			<div><div>GPS-TMG-HR-25NCH UNIT</div><div>GPS-TMG-LMNT ANTENNA MOUNT ATTACHED TO 1" DIA. PIPE</div><div>1" DIA SCH 40 STAINLESS STEEL OR GALV PIPE</div></div> <div><div>NOTES</div><div>1. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1" DIAMETER, SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES, 8'-0" IF MOUNTING TO PROPOSED MMBS-BBU) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED.</div><div>2. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.</div><div>3. DO NOT SWEEP TEST GPS ANTENNA.</div><div>4. ATTACH GPS MOUNTING PIPE TO PROPOSED MMBS-BBU USING (4) 8MMx15MM SS BOLTS AND (4) 1" PIPE STRAPS. GPS TO BE MOUNTED A MINIMUM OF 2'-0" ABOVE PROPOSED MMBS-BBU CABINET.</div></div>					
PROPOSED ANTENNA SPECIFICATIONS		SCALE: NONE	9	800 MHz RRU SPECIFICATIONS		SCALE: NONE	6	GPS UNIT PIPE MOUNT		SCALE: NONE	3
<div>COMMSCOPE MW ANTENNA VHLP1-23</div> <div><div>DIMENSIONS, HxLxW:12.8"x25.2"x18"</div><div>WEIGHT, WITH PRE-MOUNTED BRACKETS:18.1 lbs</div></div> <div></div>			<div><div>FRONT</div><div>1'-11 3/4"</div><div>SIDE</div><div>9"</div><div>BOTTOM</div><div>9"</div></div> <div><div>DIMENSIONS</div><div>HxWxD:350x605x228mm</div><div>(13.8"x23.8"x9")</div><div>WEIGHT: 65 LBS</div></div>			<div><div>MINIMUM OF 75% OR 270° IN ANY DIRECTION</div><div>GPS</div><div>GPS</div><div>OBSTRUCTIONS MUST BE BELOW 15°</div></div>					
PROPOSED ANTENNA SPECIFICATIONS		SCALE: NONE	8	1900 MHz RRU SPECIFICATIONS		SCALE: NONE	5	GPS MINIMUM SKY VIEW REQUIREMENT		SCALE: NONE	2
									<div>EMS ANTENNA RR65-18-02DP</div> <div><div>DIMENSIONS, HxWxD:54"x8"x2.8"</div></div> <div></div>		
NOT USED		SCALE: NONE	7	NOT USED		SCALE: NONE	4	EXISTING ANTENNA SPECIFICATIONS		SCALE: NONE	1

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SHEET TITLE

ANTENNA, RRU, AND FILTER DETAILS

D-2

JRA JOB NUMBER 110837

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