



Planning and Development Department
Land Use Planning Division

A D M I N I S T R A T I V E U S E P E R M I T

CITY OF BERKELEY ZONING ORDINANCE
Berkeley Municipal Code, Title 23

AUP #12-20000102

Property Address: **2850 SEVENTH STREET**

Permittee Name: **JACQUELINE SMART STEINBERG**

Use and/or Construction Permitted: to remove six existing T-Mobile antennas and replace with six new antennas for a total antenna count of six on the rooftop of an existing two-story commercial building pursuant to:

- Section 23C.17.100.1.b to modify an existing wireless facility in a non-residential zoning district.

FINDINGS, CONDITIONS AND APPROVED PLANS ATTACHED

Following the expiration of the mandatory appeal period set forth in Section 23B.28.040 of the Berkeley Municipal Code, with no timely appeal being filed, the Administrative Use Permit described herein has been duly granted by the Zoning Officer on February 26, 2013.

Attest: Terry Blount
Terry Blount, AICP, Principal Planner
For Debbie Sanderson, Zoning Officer

February 26, 2013
Effective Date

ATTACHMENT 1

FINDINGS AND CONDITIONS

FEBRUARY 5, 2013

2850 Seventh Street

Administrative Use Permit #12-20000102

Design Review #12-30000053

To remove six existing T-Mobile antennas and replace with six new antennas for a total antenna count of six on the rooftop of an existing two-story commercial building.

CEQA FINDINGS

1. The project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA, Public Resources Code §21000, et seq. and California Code of Regulations, §15000, et seq.) pursuant to Section 15301 of the CEQA Guidelines ("Existing Facilities"). Furthermore, none of the exceptions in CEQA Guidelines Section 15300.2 apply, as follows: (a) the site is not located in an environmentally sensitive area, (b) there are no cumulative impacts, (c) there are no significant effects, (d) the project is not located near a scenic highway, (e) the project site is not located on a hazardous waste site pursuant to Government Code Section 65962.5, and (f) the project will not affect any historical resource.

FINDINGS FOR APPROVAL

2. As required by Section 23B.28.050.A of the Zoning Ordinance, the project, under the circumstances of this particular case existing at the time at which the application is granted, will not be detrimental to the health, safety, peace, morals, comfort, and general welfare of the persons residing or working in the neighborhood of such proposed use or be detrimental or injurious to property and improvements of the adjacent properties, the surrounding area or neighborhood, or to the general welfare of the City because:
 - There will be no increase in the height of the previously approved 42'6" tall (above ground level) T-Mobile facility. There will be no change to the height of the existing building.
 - T-Mobile proposes to replace six existing T-Mobile antennas, measuring approximately 4'5" in height and approximately 3'4" wide, with six new T-Mobile antennas measuring approximately 4'8" in height and approximately 7'9" wide. The existing and proposed antennas are located on the rooftop (2 antennas per sector) of the existing building and are painted to match the existing building.

- The existing equipment cabinets that service the antennas are located on a rooftop lease space. T-Mobile proposes to install hybrid cables to follow the existing coax cables to the proposed antennas.
- T-Mobile submitted a study by an approved radio frequency consulting firm, EBI Consulting. The EBI report dated June 19, 2012 states that there are no areas on the walking working surfaces at the rooftop in front of the T-Mobile antennas that may exceed the FCC standards for general population exposure. If there is work on the roof which is elevated above the rooftop, the wireless equipment should be shut down and lockout/tagout procedures should be implemented in accordance with T-Mobile standard operating protocols. EBI recommends that a “Notice to Workers” (“NOC”) sign and a blue “Notice” sign should be installed at the roof access hatch. These recommendations have been included in the Conditions of Approval for this permit.
- Dieter J. Preiser, PMP, of RCC Consultants, San Bernardino, CA, an approved radio frequency engineer, has been retained by the City of Berkeley for the purpose of independently reviewing the T-Mobile proposal to verify the need for the facility improvements. RCC submitted a report to the City of Berkeley dated November 8, 2012. The report states that the modification is needed to modernize T-Mobile’s existing sites to add new high speed 4th Generation (4G) services for existing voice and data services. RCC states that the T-Mobile modification will improve commercial in-building coverage along Ashby Avenue, and that the upgrade will meet Federal Communications Commission guidelines pertaining to radio frequency emissions exposure as recommended in the EBI report.
- As required by Section 23C.17.100.B (Findings), the facility will comply with all applicable State and Federal standards and requirements, and the facility will not be readily visible:
 - The proposed antenna installation is similar in design as the existing design and will be painted to match the existing building;
 - Existing coaxial cables will be utilized; and
 - The antenna location is in the center of the roof, well away from the edge, and is therefore unlikely to be seen by pedestrians.
- As required by Section 23C.17.100.B.4, T-Mobile has provided information and certifications required to comply with this Section of the Code. The City has received written certification that each T-Mobile facility in the City of Berkeley are operating in accordance with the approved local and federal permits and has provided contact information for T-Mobile.

- As required by Section 23C.17.090 (Requirements for Certification of Facilities), the Operator is required to submit continued proof of compliance with FCC regulations for electric and magnetic field strength and power density within 45 days of installation, yearly thereafter, and within 90 days of any change in FCC regulations (see Conditions of Approval #34, #35, and #37). This facility can therefore be assumed to be safe, according to FCC guidelines throughout the operation.
- The project has received Staff-Level Design Review and is subject to conditions of approval #12A through #12H.

STANDARD CONDITIONS

The following conditions, as well as all other applicable provisions of the Zoning Ordinance, apply to this Permit:

1. Conditions Shall be Printed on Plans

The conditions of this Permit shall be printed on the *second* sheet of each plan set submitted for a building permit pursuant to this Use Permit, under the title 'Use Permit Conditions'. *Additional sheets* may also be used if the *second* sheet is not of sufficient size to list all of the conditions. The sheet(s) containing the conditions shall be of the same size as those sheets containing the construction drawings; 8-1/2" by 11" sheets are not acceptable.

2. Applicant Responsible for Compliance with Conditions

The applicant shall ensure compliance with all of the following conditions, including submittal to the project planner of required approval signatures at the times specified. Failure to comply with any condition may result in construction being stopped, issuance of a citation, and/or modification or revocation of the Use Permit.

3. Uses Approved Deemed to Exclude Other Uses (Section 23B.56.010)

- A. This Permit authorizes only those uses and activities actually proposed in the application, and excludes other uses and activities.
- B. Except as expressly specified herein, this Permit terminates all other uses at the location subject to it.

4. Modification of Permits (Section 23B.56.020)

No change in the use or structure for which this Permit is issued is permitted unless the Permit is modified by the Zoning Officer, except that the Zoning Officer may approve changes that do not expand, intensify, or substantially change the use or building.

5. Plans and Representations Become Conditions (Section 23B.56.030)

Except as specified herein, the site plan, floor plans, building elevations and/or any additional information or representations, whether oral or written, indicating the proposed structure or manner of operation submitted with an application or during the approval process are deemed conditions of approval.

6. Subject to All Applicable Laws and Regulations (Section 23B.56.040)

The approved use and/or construction is subject to, and shall comply with, all applicable City Ordinances and laws and regulations of other governmental agencies. Prior to construction, the applicant shall identify and secure all applicable permits from the Building and Safety Division, Public Works Department and other affected City divisions and departments.

7. Exercised Permit for Use Survives Vacancy of Property (Section 23B.56.080)

Once a Permit for a use is exercised and the use is established, that use is legally recognized, even if the property becomes vacant, except as set forth in Standard Condition #8, below.

8. Exercise and Lapse of Permits (Section 23B.56.100)

- A. A permit for the use of a building or a property is exercised when, if required, a valid City business license has been issued, and the permitted use has commenced on the property.
- B. A permit for the construction of a building or structure is deemed exercised when a valid City building permit, if required, is issued, and construction has lawfully commenced.
- C. A permit may be declared lapsed and of no further force and effect if it is not exercised within one year of its issuance, except that permits for construction or alteration of structures or buildings may not be declared lapsed if the permittee has: (1) applied for a building permit; or, (2) made substantial good faith efforts to obtain a building permit and begin construction, even if a building permit has not been issued and/or construction has not begun.

9. Indemnification Agreement

The applicant shall hold the City of Berkeley and its officers harmless in the event of any legal action related to the granting of this Permit, shall cooperate with the City in defense of such action, and shall indemnify the City for any award of damages or attorneys fees that may result.

ADDITIONAL CONDITIONS IMPOSED BY THE ZONING OFFICER

Pursuant to BMC 23B.28.050.D, the Zoning Officer attaches the following additional conditions to this Permit:

Prior to Submittal of Any Building Permit:

- 10.** Prior to issuance of a building permit, the applicant shall provide the project planner with the name and telephone number of the individual empowered to manage construction noise from the project. The individual's name, telephone number, and responsibility for noise management shall be posted at the project site for the duration of construction in a location easily visible to the public. The individual shall record all noise complaints received and actions taken in response, and submit this record to the project planner upon request.

Noise Management Individual _____
Name Phone #

11. The applicant and all persons associated with the project are hereby notified that a Transportation Management Permit (TMP) would be required under any of the following circumstances:

- Alterations, closures, or blockages to sidewalks or pedestrian paths
- Alterations, closures, or blockages to vehicle travel lanes (including bicycle lanes)
- Storage of building materials, dumpsters, debris anywhere in the public ROW
- Provision of exclusive contractor parking on-street
- Significant truck activity.

Contact the Permit Service Center (PSC) at 2120 Milvia Street or 981-7500 for details on obtaining Construction/No Parking Permits (and associated signs and accompanying dashboard permits). Public Works Traffic Engineering (981-6400) reviews all submitted TMP requests.

The TMP may include designation of a specific truck haul route. Meter heads (if in the construction area) shall be removed only by City staff. Contact the site inspector 72 hours in advance of required removal so arrangements can be made.

12. Project requires approval of a Final Design Review by the Design Review Staff or by the Design Review Committee. The proposal to **upgrade six existing telecommunication antennas** is approved as shown on the drawings dated “received 08/22/12” subject to the following conditions:

- A. No changes can be made to these approved plans without Design Review approval.
- B. **COLORS** Prior to Design Review sign-off of the Building Permit set of drawings, the applicant shall submit color and materials information for review and approval by Design Review Staff. All materials will be matte unless otherwise noted.
- C. **DETAILS** Prior to Design Review sign-off of the Building Permit set of drawings, the applicant shall submit antenna and antenna support details for review and approval by the Design Review Staff.
- D. The applicant shall be responsible for identifying and securing all applicable permits from the Building and Safety Division and all other affected City divisions/departments prior to the start of work.
- E. The applicant is responsible for complying with all the above conditions. Failure to comply with any condition could result in construction work being stopped, issuance of citations, as well as further review by the Design Review Staff, which may modify or impose additional conditions, or revoke the design review approval.

- F. All building permit drawings and subsequent construction shall substantially conform to the final design review plans as outlined in Condition #12. Any modifications must be reviewed by the Zoning Officer or his designee to determine whether the modification requires approval.
 - G. The applicant shall be responsible for identifying and securing all applicable permits from the Building and Safety Division and all other affected City divisions/departments prior to the start of work.
 - H. The applicant is responsible for complying with all the above conditions. Failure to comply with any condition could result in construction work being stopped, issuance of citations, as well as further review by the Design Review Staff, which may modify or impose additional conditions, or revoke the design review approval.
- 13. The applicant shall provide signage identifying the name and phone number of a party to contact in event of an emergency. The design, materials, colors and location of signs shall be subject to Design Review approval. The plans submitted for a building permit shall include a sample of the proposed emergency sign(s) as well as the warning signs as required in COA # 23, as well as the location for posting such signs.
 - 14. The applicant shall either secure a bond or provide financial assurances in a form acceptable to the City Manager for the removal of the facility in the event that its use is abandoned or the approval is otherwise terminated.

During Construction:

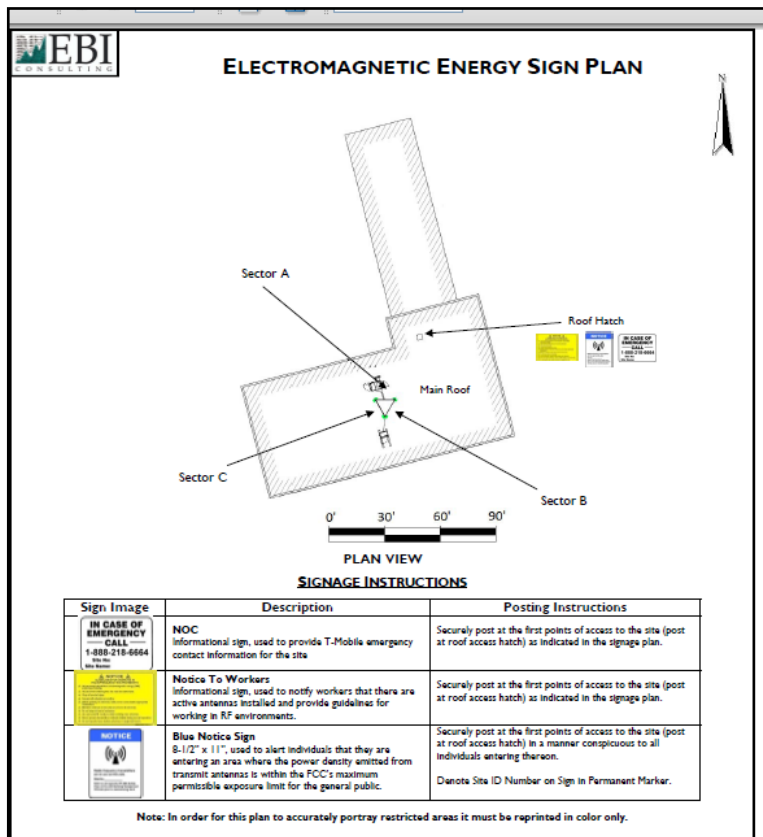
- 15. Construction activity shall be limited to between the hours of 8:00 a.m. and 6:00 p.m. on Monday through Friday, and between 9:00 a.m. and noon on Saturday. No construction-related activity shall occur on Sunday or on any Federal Holiday.
- 16. Subject to approval of the Public Works Department, the applicant shall repair any damage to public streets and/or sidewalks by construction vehicles traveling to or from the project site.
- 17. All piles of debris, soil, sand, or other loose materials shall be covered at night and during rainy weather with plastic at least one-eighth millimeter thick and secured to the ground.
- 18. All active construction areas shall be watered at least twice daily, and all piles of debris, soil, sand or other loose materials shall be watered or covered.
- 19. Trucks hauling debris, soil, sand, or other loose materials shall be covered or required to maintain at least two feet of board.
- 20. Public streets shall be swept (preferably with water sweepers) of all visible soil material carried from the site.

Prior to Issuance of Occupancy Permit or Final Inspection:

- 21. All construction at the subject property shall substantially conform to the approved Use Permit drawings or to modifications approved by the Zoning Officer.
- 22. All landscape, site and architectural improvements shall be completed per the attached approved drawings dated **AUGUST 22, 2012**.

At All Times (Operation):

- 23. The mitigations recommended by Scott Heffernan, EBI Consulting, in the June 19, 2012 evaluation of the facility for radio frequency fields, and any subsequent engineering recommendations, shall be implemented including:



- A. Equipment shall be shut down and lockout/tagout procedures shall be implemented in accordance with T-Mobile standard operating protocols in the event that there is work on the roof which is elevated above the rooftop; and
- B. Individuals and workers accessing the rooftop shall receive a copy of the Site Safety Plan (attached), made aware of the posted sign, and signify their understanding of the Site Safety Plan.

- 24. Signage identifying the name and phone number of the individual to contact in the event of an emergency shall be installed at the project site (see Condition #13 above).

25. Subject to review and approval by the Zoning Officer, future changes to or replacement of the wireless equipment shall be permitted through issuance of a Zoning Certificate, rather than a Modification of the Use Permit, so long as the proposed changes are not detrimental, comply with performance standards within this Use Permit (e.g. noise levels, visual appearance, and RF standards), do not increase the size or visibility of any legally established wireless telecommunication facility, and complies with the FCC's MPE limits for electric and magnetic field strength and power density for transmitters within the designated equipment area.
26. The wireless telecommunications facility and related equipment, including lighting, fences, shields, cabinets, and poles, shall be maintained in good repair, free from trash, debris, litter and graffiti and other forms of vandalism, and any damage from any cause shall be repaired as soon as reasonably possible so as to minimize occurrences of dangerous conditions or visual blight. Graffiti shall be removed from any facility or equipment as soon as practicable, and in no instance more than forty-eight (48) hours from the time of notification by the city.
27. The wireless telecommunications facility shall be operated in a manner that will minimize noise impacts to surrounding residents and persons using nearby parks, trails, and similar recreation areas. Except for emergency repairs, testing and maintenance activities that will be audible beyond the property line shall only occur between the hours of 8:00 am and 7:00 pm on Monday through Friday, excluding holidays. All air conditioning units and any other equipment that may emit noise that would be audible from beyond the property line shall be enclosed or equipped with noise attenuation devices. Backup generators shall only be operated during periods of power outages or for testing. At no time shall equipment noise from any source exceed the standards specified in the Berkeley Community Noise Ordinance (BMC Chapter 13.40).
28. The exterior walls and roof covering of all aboveground equipment shelters and cabinets shall be constructed of materials rated as nonflammable in the Uniform Building Code.
29. Openings in all aboveground equipment shelters and cabinets shall be protected against penetration by fire and windblown embers to the extent feasible.
30. Material used as supports for antennas shall be fire resistant, termite proof, and subject to all applicable requirements of the Uniform Building Code.
31. Telecommunications antenna towers shall be designed to withstand forces expected during earthquakes to the extent feasible. Building-mounted facilities shall be anchored so that an earthquake does not dislodge them or tip them over. All equipment mounting racks and attached equipment shall be anchored so that a quake would not tip them over, throw equipment off its shelves, or otherwise damage equipment.


32. All connections between various components of the wireless telecommunications facility and necessary power and telephone lines shall, to the extent feasible, be protected against damage by fire, flooding, and earthquake. Reasonable measures shall be taken to keep wireless telecommunication facilities in operation in the event of a natural disaster.
33. No wireless telecommunications facility or combination of facilities shall at any time produce power densities that exceed the FCC's limits for electric and magnetic field strength and power density for transmitters. In order to ensure continuing compliance with all applicable emission standards, all wireless telecommunications facilities shall be reviewed by an approved engineer-in accord with the schedule and procedures set forth in Section 23C.17.090. All reasonable costs of such inspections shall be born by the owner or operator of the facility. The City may require, at the operator's expense, independent verification of the results of any analysis. If an operator of a telecommunications facility fails to supply the required reports or fails to correct a violation of the Federal Communications Commission standard following notification, the Use Permit is subject to modification or revocation by the Zoning Adjustments Board following a public hearing.
34. Within forty five (45) days of initial operation or modification of a telecommunications facility, the operator of each telecommunications antenna shall submit to the Zoning Officer written certification by an approved engineer that the facility's radio frequency emissions are in compliance with the approved application and any required conditions. The engineer shall measure the radio frequency radiation of the approved facility and determine if it meets the FCC requirements. A report of these measurements and the engineer's findings with respect to compliance with the FCC's MPE limits shall be submitted to the Zoning Officer. If the report shows that the facility does not comply with applicable FCC requirements, the owner or operator shall cease operation of the facility until the facility complies with, or has been modified to comply with, this standard. Proof of compliance shall be a certification provided by the engineer who prepared the original report. In order to assure the objectivity of the analysis, the City may require, at the applicant's expense, independent verification of the results of the analysis.
35. Hereafter, prior to January 31 of every year, an authorized representative for each wireless carrier providing service in the City of Berkeley shall provide written certification to the City that each facility is being operated in accordance with the approved local and federal permits and shall provide the current contact information.
36. Once every two years, the City may retain, at the operator's expense, an approved engineer to conduct an unannounced spot check of the facility's compliance with applicable FCC radio frequency standards.
37. In the event of a change in the FCC's Maximum Permissible Exposure (MPE) limits for electric and magnetic field strength and power density for transmitters, the operator of the facility shall be required to submit to the Zoning Officer written certification by an approved engineer of compliance with applicable FCC radio frequency standards within 90 days of any change in applicable FCC radio frequency standards or of any

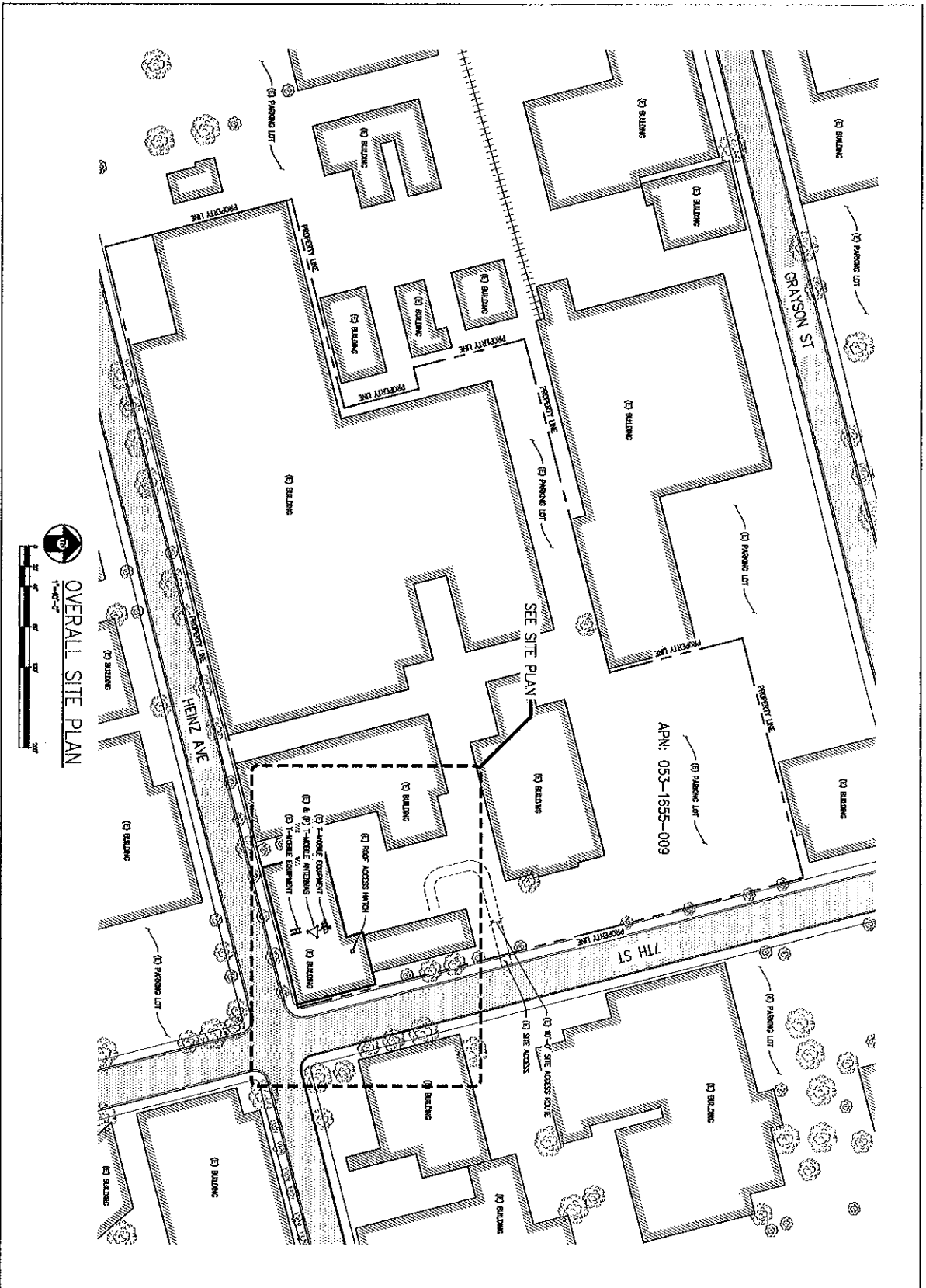
modification of the facility requiring a new submission to the FCC to determine compliance with emission standards. If calculated levels exceed 50% of the FCC's MPE limits, the operator of the facility shall hire an approved engineer to measure the actual exposure levels. If calculated levels are not in compliance with the FCC's MPE limit, the operator shall cease operation of the facility until the facility is brought into compliance with the FCC's standards and all other applicable requirements. A report of these calculations, required measurements, if any, and the engineer's findings with respect to compliance with current MPE limits shall be submitted to the Zoning Officer.

38. If the Zoning Officer at any time finds that there is good cause to believe that a telecommunications antenna is not in compliance with applicable FCC radio frequency standards, he/she may require the operator to submit written certification that the facility is in compliance with such FCC standards.
39. Within thirty (30) days of cessation of operations of any wireless telecommunications facility approved pursuant to this chapter, the operator shall notify the Zoning Officer in writing. The permit for said wireless telecommunications facility shall be deemed lapsed and of no further effect six (6) months thereafter unless:
 - A. The Zoning Officer has determined that the same operator resumed operation within six (6) months of the notice; or
 - B. The City has received an application to transfer the permit to another operator.
40. No later than thirty (30) days after a permit has lapsed under the preceding condition of approval, the operator shall remove all wireless telecommunication facilities from the site. If the operator fails to do, the property owner shall be responsible for removal, and may use any bond or other assurances provided by the operator pursuant to the requirements of Section 23C.17.050 to do so. If such facilities are not removed, the site shall be deemed to be a nuisance pursuant to Section 23B.64 and the City may call the bond to pay for removal.
41. Failure to inform the Zoning Officer of cessation of operations of any existing facility shall constitute a violation of the Zoning Ordinance and be grounds for:
 - A. Prosecution;
 - B. Revocation or modification of the permit;
 - C. Calling of any bond or assurance secured by the operator pursuant to the requirements of Section 23C.17.050; and/or
 - D. Removal of the facilities.
42. Any FCC-licensed telecommunications carrier that is buying, leasing, or considering a transfer of ownership of an already approved facility, shall provide written notification to the Zoning Officer and request transfer of the existing Use Permit. The Zoning Officer may require submission of any supporting materials or documentation necessary to determine that the proposed use is in compliance with the existing Use Permit and all of its conditions including, but not limited to, statements, photographs, plans, drawings, models, and analysis by a State-licensed radio frequency engineer

demonstrating compliance with all applicable regulations and standards of the Federal Communications Commission and the California Public Utilities Commission. If the Zoning Officer determines that the proposed operation is not consistent with the existing Use Permit, he/she shall notify the applicant who may revise the application or apply for modification to the Use Permit pursuant to the requirements of Section 23B.56.

43. The applicant shall be responsible for paying all costs (including City staff time) associated with monitoring and/or enforcement of the above conditions. Fees shall be based on the adopted City fee schedule in place at the time the work is performed or action is taken.
44. All exterior lighting shall be shielded and directed downward and away from property lines to prevent excessive glare beyond the subject property.
45. This permit is subject to review, imposition of additional conditions, or revocation if factual complaint is received by the Zoning Officer that the maintenance or operation of this establishment is violating any of these or other required conditions or is detrimental to the health, safety, peace, morals, comfort or general welfare of persons residing or working in the neighborhood or is detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the City.
46. The applicant shall hold the City of Berkeley and its officers harmless in the event of any legal action related to the granting of this Permit, shall cooperate with the City in defense of such action, and shall indemnify the City for any award of damages or attorneys fees that may result.
47. Noise and exterior lighting shall be controlled so as to prevent verified complaints from the surrounding neighborhood. This shall include noise created by employees working on the premises before or after patrons arrive.


Prepared by: Pamela Johnson



OVERALL SITE PLAN
1"=40'-0"

SHEET TITLE:
OVERALL SITE PLAN
SHEET NUMBER:
A-1

T-MOBILE WEST CORPORATION

 1858 GATEWAY BLVD 9TH FLOOR
 CONCORD, CA 94520



Streamline Engineering
 ARCHITECTURAL DESIGN INC.
 3268 PENYNS RD, SUITE 200 LOOMIS, CA 95650
 Contact: Lery Houghtby Phone: 918-276-4180
 E-Mail: lery@streamline-engineering.com Fax: 918-650-1184

ISSUE STATUS	DATE	DESCRIPTION
APPROVED BY: L. SHANE	06/20/12	ISSUE
CHECKED BY: L. SHANE	06/20/12	ISSUE
DATE:	06/20/12	

PL015 ASHBY
 BA02015A
 REVISIONS: 01/15/12

APPROVED PLAN
 PLANNING
 DATE
 D.R. Conditions Attached
 A.U.P. Conditions Attached
 C.U.P. Conditions Attached

APPROVED PLAN
 PLAN NUMBER: **pmj 1.28.13**
 DATE

C.D.R. Conditions Attached
 A.U.P. Conditions Attached
 U.P. Conditions Attached

PLOIS ASHBY

BA02015A
 3228 PAVEN RD, SUITE 200
 LOOMIS, CA 95240

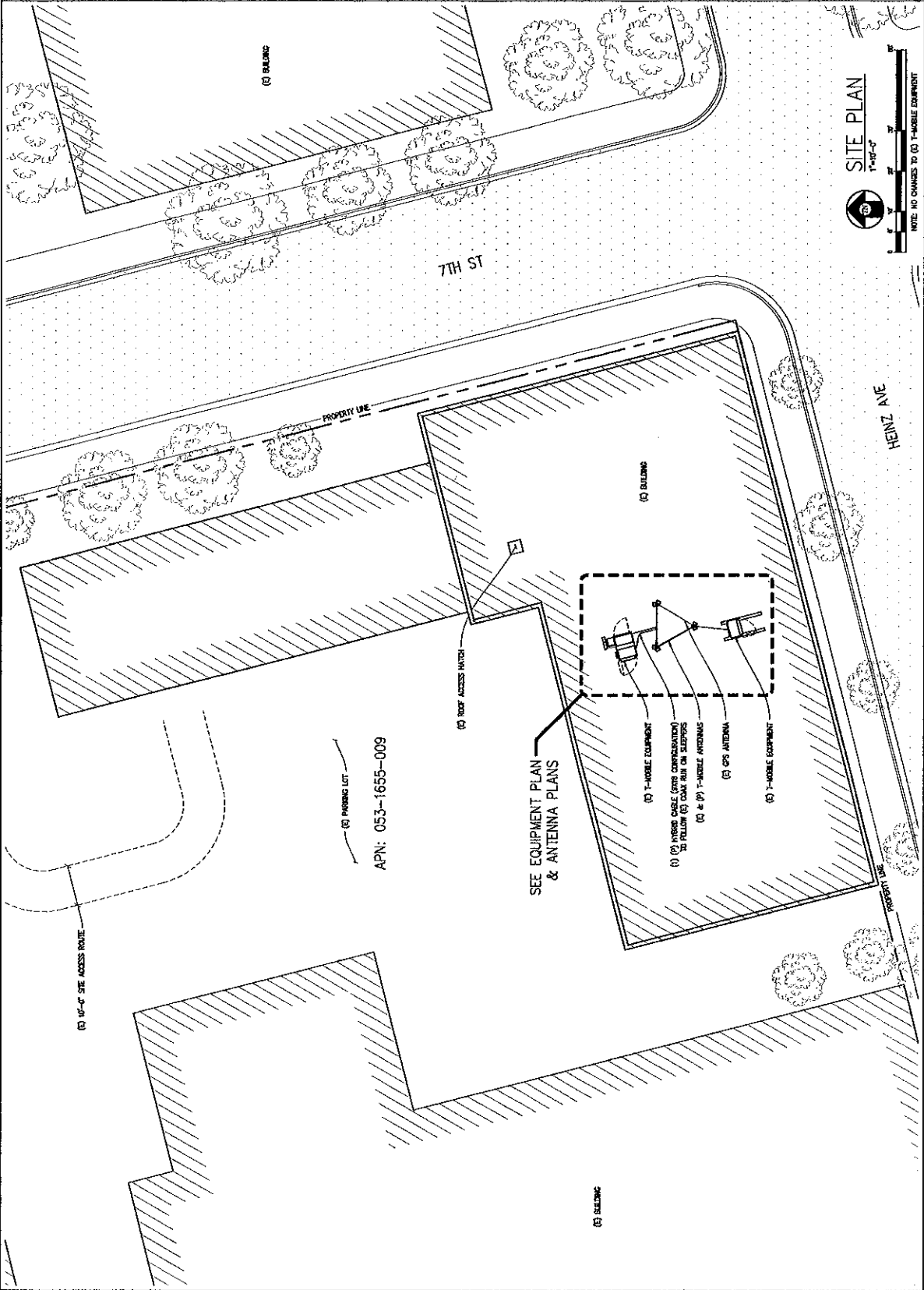
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C	08/29/12	AS BLDG	J. GRAY
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C	08/29/12	AS BLDG	J. GRAY
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C	08/29/12	AS BLDG	J. GRAY

Streamline Engineering
 3228 PAVEN RD, SUITE 200 LOOMIS, CA 95240
 Contact: Larry Beckley Phone: 916-253-8100
 Fax: 916-253-1241

7-Mobile
 1456 GATEWAY BLVD 8TH FLOOR
 CONCORD, CA 94520

SHEET TITLE: **SITE PLAN**

SHEET NUMBER: **A-2**



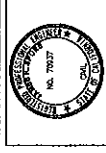
SITE PLAN
 1" = 40'
 NOTE: NO CHANGES TO (1) T-MOBILE EQUIPMENT

PL015 ASHBY

BA02015A
REVISED 07/12/10

ISSUE STATUS	DATE	DESCRIPTION	BY
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3			
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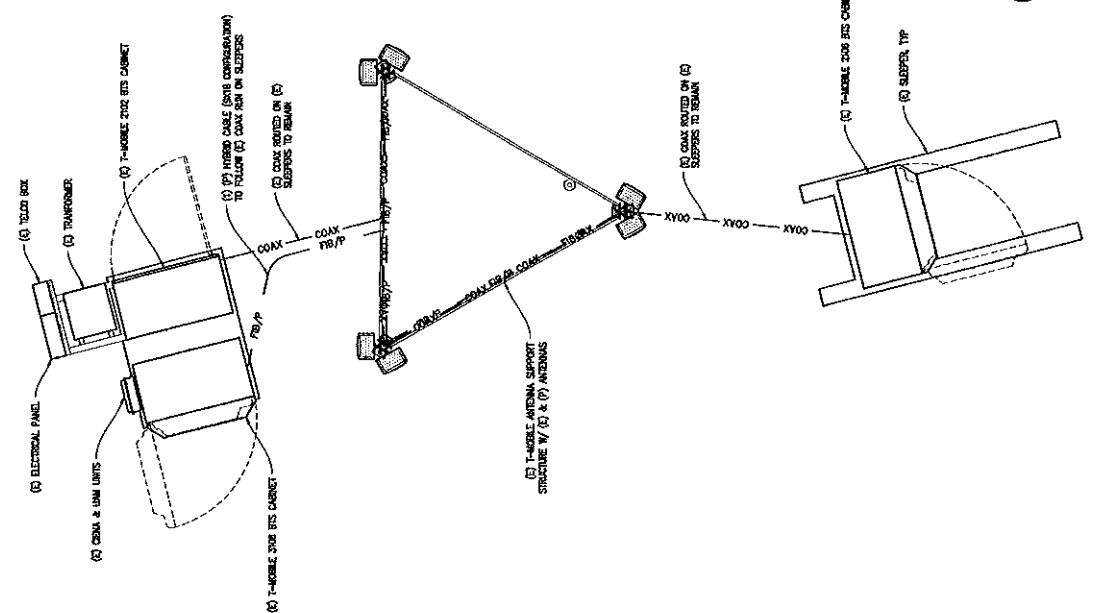
Streamline Engineering
 2288 Pyramid Rd, Suite 200, Livermore, CA 94550
 (925) 461-8800
 Fax: (925) 461-1911
 E-Mail: info@streamline-engineering.com
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T-Mobile West Corporation
 1856 GATEWAY BLVD 8TH FLOOR
 OAKLAND, CA 94612

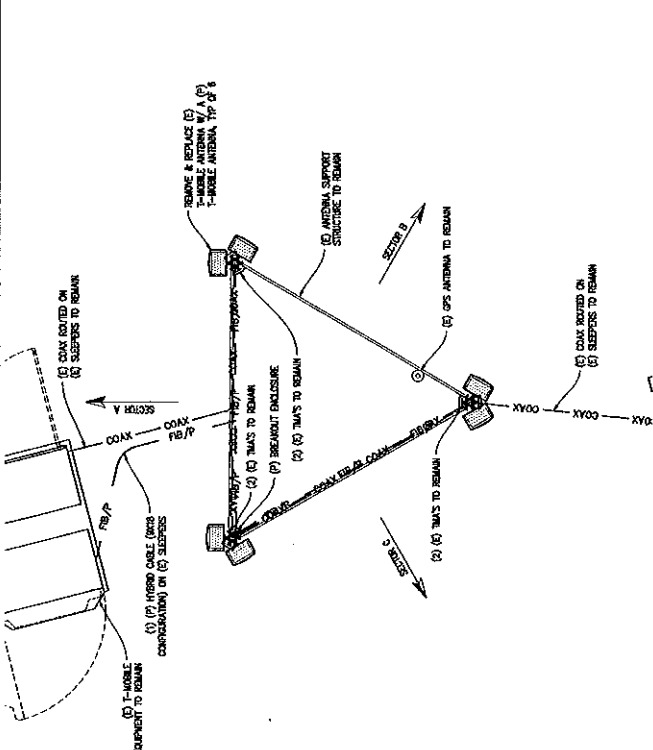
SHEET TITLE:
 EQUIPMENT PLAN
 SHEET NUMBER:
 A-3

APPROVED PLAN
 DRAWING DATE
 1.28.13
 J.R. Conditions Attached
 A.U.P. Conditions Attached
 U.P. Conditions Attached



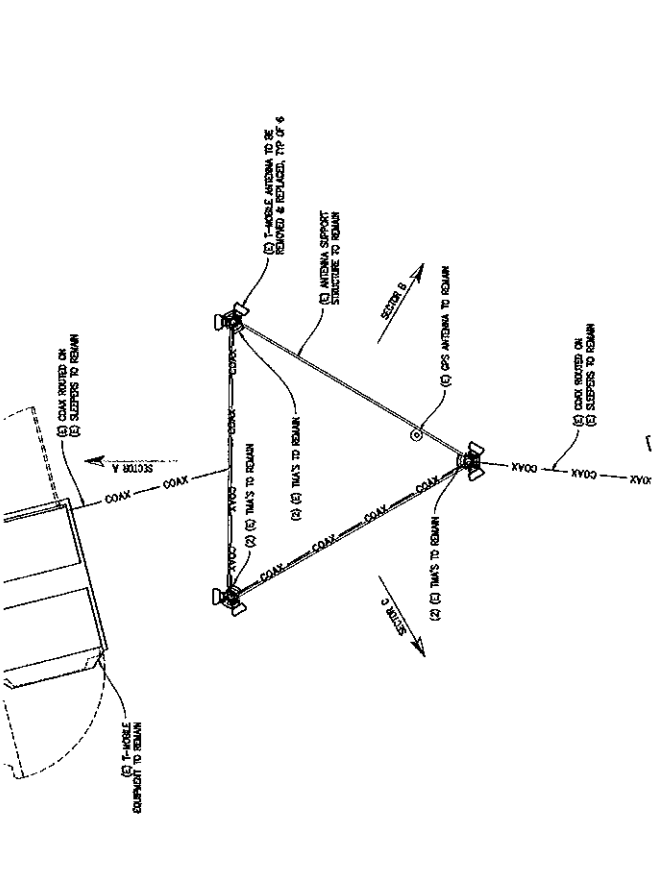
APPROVED PLAN
 DATE 1.28.13
 PLANNING
 O.R. Conditions Attached
 A.U.P. Conditions Attached
 O.U.P. Conditions Attached

PLOIS ASHBY BA02015A 2000 27th ST BERKELEY, CA 94702		Streamline Engineering 3268 Foothill Blvd, Suite 200, Livermore, CA 94550 925-938-8800 Fax: 925-938-1941 www.streamline-engineering.com		PROFESSIONAL ENGINEER No. 7007 State of California	T-Mobile West Corporation 1665 Gateway Blvd 8TH FLOOR CONCORD, CA 94520																			
ISSUE STATUS <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>05/09/08</td> <td>J. GRAY</td> <td>ISSUE</td> </tr> <tr> <td>2</td> <td>05/07/12</td> <td>J. GRAY</td> <td>REVISED</td> </tr> <tr> <td>3</td> <td>05/29/12</td> <td>J. GRAY</td> <td>REVISED</td> </tr> <tr> <td>4</td> <td>05/29/12</td> <td>J. GRAY</td> <td>REVISED</td> </tr> </table>		NO.	DATE	BY	DESCRIPTION	1	05/09/08	J. GRAY	ISSUE	2	05/07/12	J. GRAY	REVISED	3	05/29/12	J. GRAY	REVISED	4	05/29/12	J. GRAY	REVISED	DRAWN BY: J. SMITH CHECKED BY: J. GRAY APPROVED BY: J. SPODE DATE: 05/29/12		SHEET TITLE: ANTENNA PLANS & DETAILS SHEET NUMBER: A-4
NO.	DATE	BY	DESCRIPTION																					
1	05/09/08	J. GRAY	ISSUE																					
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3	05/29/12	J. GRAY	REVISED																					
4	05/29/12	J. GRAY	REVISED																					

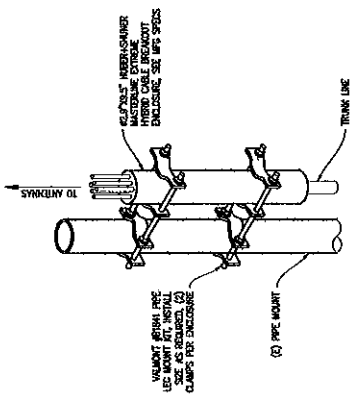


(E) ANTENNA PLAN
 3/4" = 1'-0"

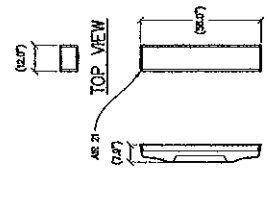
NOTE: ALL (P) ANTENNAS TO BE PAINTED TO MATCH (C) BUILDING



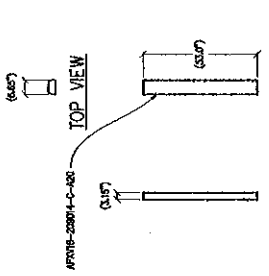
(E) ANTENNA PLAN
 3/4" = 1'-0"



(3) HYBRID CABLE ON VERT PIPE
 NOT TO SCALE



(2) ANTENNA DETAIL
 3/4" = 1'-0"



(1) ANTENNA DETAIL
 3/4" = 1'-0"

PL015 ASHBY

BA02015A
REVISION 07/14/10

ISSUE STATUS	
A	DATE
1	05/20/10
2	07/12/10
3	07/12/10
4	07/12/10
5	07/12/10
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99	07/12/10
100	07/12/10

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T-Mobile
 T-Mobile West Corporation
 1855 GATEWAY BLVD 9TH FLOOR
 CONCORD, CA 94520

SHEET TITLE	ELEVATIONS
SHEET NUMBER	A-5

APPROVED PLAN
 JMG 12.8.13
 DATE
 P.R. Conditions Attached
 A.U.P. Conditions Attached
 U.P. Conditions Attached

REMOVE & REPLACE (E) T-MOBILE ANTENNA
 W/ (P) T-MOBILE ANTENNA, TOP OF 6



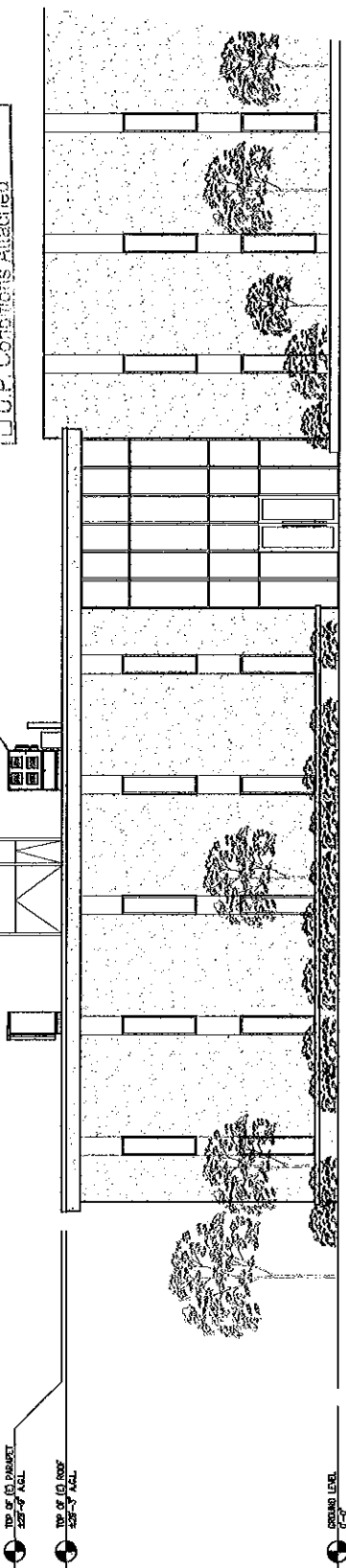
REMOVE & REPLACE (E) T-MOBILE EQUIPMENT, TOP
 OF 6



RAD. CENTER OF (E) & (P) T-MOBILE ANTENNAS
 240'-0" A.G.L.

TOP OF (E) PARAPET
 228'-0" A.G.L.

TOP OF (E) ROOF
 228'-0" A.G.L.

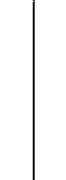


EAST ELEVATION
 3/4" = 1'-0"
 NOTE: ALL (P) ANTENNAS TO BE PAINTED TO MATCH (E) BUILDING

REMOVE & REPLACE (E) T-MOBILE ANTENNA
 W/ (P) T-MOBILE ANTENNA, TOP OF 6



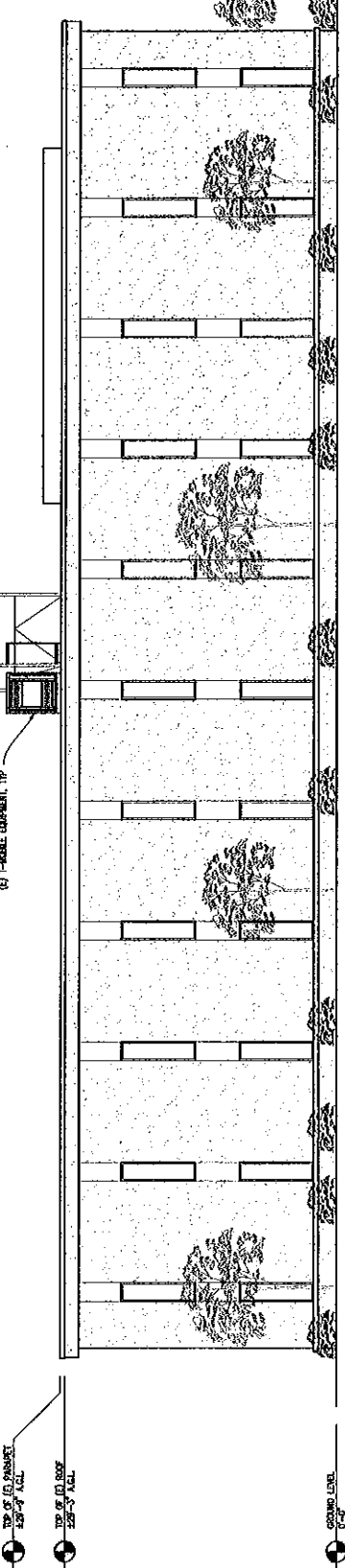
(E) T-MOBILE EQUIPMENT, TOP
 OF 6



RAD. CENTER OF (E) & (P) T-MOBILE ANTENNAS
 240'-0" A.G.L.

TOP OF (E) PARAPET
 228'-0" A.G.L.

TOP OF (E) ROOF
 228'-0" A.G.L.

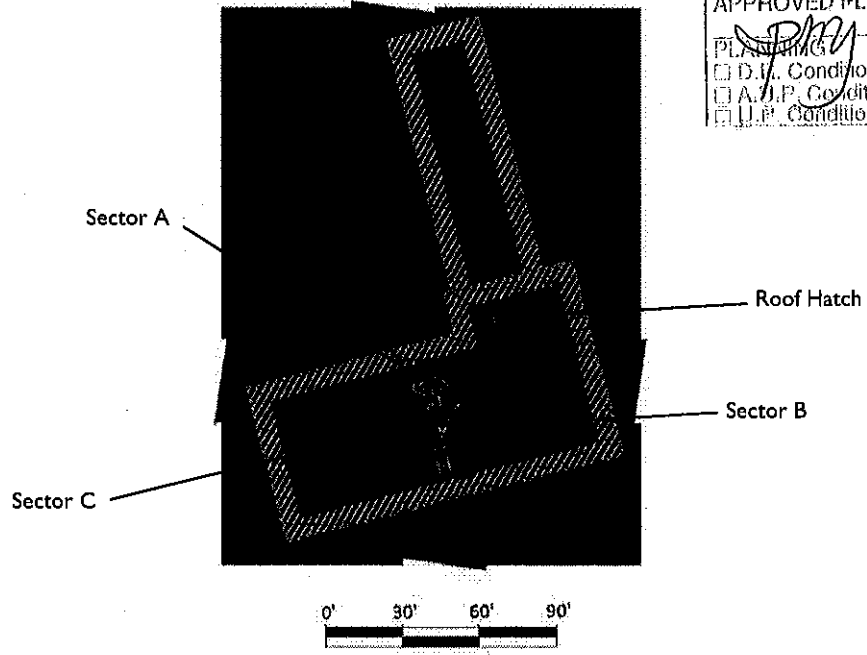


SOUTH ELEVATION
 3/4" = 1'-0"
 NOTE: ALL (P) ANTENNAS TO BE PAINTED TO MATCH (E) BUILDING

GROUND LEVEL
 0'-0"

ELECTROMAGNETIC ENERGY SAFETY PLAN

APPROVED PLAN	DATE
<i>DM</i>	1-28-13
<input type="checkbox"/> D.V. Conditions Attached	
<input type="checkbox"/> A.J.P. Conditions Attached	
<input type="checkbox"/> J.P. Conditions Attached	



PLAN VIEW

ROOFTOP RF EME ANTENNA INFORMATION AND EXPOSURE CONTROL AREAS

	Power density is less than the FCC's uncontrolled MPE. Individuals may work freely within the blue exposure control areas on the rooftop.				
	Distance [feet] in front of the antennas and direction of areas where power density is greater than the FCC's uncontrolled MPE, but less than the FCC's occupational MPE. Occupational exposure in these areas should be limited to less than 30 minutes unless proper personal protective equipment is utilized by qualified individuals with proper safety training. Access by the general public should not be allowed.				
	Distance [feet] in front of the antennas and direction of areas where power density is greater than the FCC's occupational MPE. Occupational exposure in these areas should be limited to brief incursions by qualified individuals with proper safety training. Generally, other individuals should be restricted from entering this area until they have contacted T-Mobile who will turn off their transmitter using OSHA-approved lockout/tagout procedures. Contact for Red Exposure Control Area Lockout/Tagout Procedures: Network Operations Center: 888-218-6664 (toll-free) Site ID # BA02015A.				
T-Mobile Sector/ Antenna	Azimuth (°)	Antenna Base Above Nearest Walking Surface (feet)	Antenna Mount	MPE Exceedance (feet in front of antenna)	
				Occupational	General Population
A1 (GSM)	0	8	Pipe Mounted	No Exceedance	No Exceedance
A1 (UMTS)	0	8	Pipe Mounted	No Exceedance	No Exceedance
A1 (UMTS)	0	8	Pipe Mounted	No Exceedance	No Exceedance
A2 (LTE)	0	8	Pipe Mounted	No Exceedance	No Exceedance
B1 (GSM)	120	8	Pipe Mounted	No Exceedance	No Exceedance
B1 (UMTS)	120	8	Pipe Mounted	No Exceedance	No Exceedance
B1 (UMTS)	120	8	Pipe Mounted	No Exceedance	No Exceedance
B2 (LTE)	120	8	Pipe Mounted	No Exceedance	No Exceedance
C1 (GSM)	240	8	Pipe Mounted	No Exceedance	No Exceedance
C1 (UMTS)	240	8	Pipe Mounted	No Exceedance	No Exceedance
C1 (GSM)	240	8	Pipe Mounted	No Exceedance	No Exceedance
C2 (LTE)	240	8	Pipe Mounted	No Exceedance	No Exceedance

Note: In order for this plan to accurately portray restricted areas it must be reprinted in color only.

T-Mobile uses theoretical modeling to estimate the worst-case power density from each antenna. The transmitter power output used in the model is based on 2-2-2 (GSM), 4-4-4 (UMTS), and 1-1-1 (LTE) radio configuration for Sectors A, B and C. The FCC recognizes that these theoretical models over-estimate the actual exposure one would experience and generally considers the results to represent a worst-case exposure scenario. MPE limits are designed to provide a substantial margin of safety and do not represent levels where a health risk exists. Individuals accessing the rooftop should signify their understanding of the three exposure control areas on this plan and the actions necessary to control their exposure to RF energy. Information regarding other carrier antennas is provided within the RF-EME Compliance Report.

Electromagnetic Energy Safety Plan

Facility Operator: T-Mobile
T-Mobile Site Name: PL015 Ashby
T-Mobile Site Number: BA02015A
Location: 2850 7th St
Berkeley, California 94710
Date: 06/19/12 Rev. 0