

CITY OF EUREKA
COMMUNITY DEVELOPMENT DEPARTMENT
Kevin R. Hamblin, AICP, Director

Sidnie L. Olson, Principal Planner
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solson@ci.eureka.ca.gov • www.ci.eureka.ca.gov

**NOTICE OF INTENT TO ADOPT A NEGATIVE
DECLARATION**
and
NOTICE OF PUBLIC HEARING
EUREKA CITY PLANNING COMMISSION

NOTICE IS HEREBY GIVEN that pursuant to the California Environmental Quality Act (CEQA) Guidelines Section 15072 & 15105, the City is providing notice of an “Intent to Adopt a Negative Declaration of Environmental Impact” for the project described below. All interested persons are invited to comment on the draft negative declaration pursuant to the provisions of CEQA. The review period is 30 days and commences on August 11, 2009. Written comments on the draft negative declaration must be submitted to the Community Development Department no later than September 10, 2009. The draft negative declaration is available for review during regular business hours at the City of Eureka Community Development Department; and on the City of Eureka’s website www.ci.eureka.ca.gov

FURTHER, NOTICE IS HEREBY GIVEN that the Eureka City Planning Commission will hold a public hearing to consider the project described below. The public hearing is scheduled for September 14, 2009, at 5:30 p.m., or as soon thereafter as the matter can be heard, in the Council Chamber, Eureka City Hall, 531 “K” Street, Eureka, California.

Project Title: *T-Mobile Cellular Monopole, Dean Street*

Project Applicant: PWM, Inc.

Case No: C-09-0004

Project Location: 2327 Dean Street and 2421 Buhne Street; APN 013-112-010 and -020

Zoning & General Plan: Hospital Medical (HM)

Project Description: The project is composed of the construction of a fifty (50) foot high, twenty-four (24) inch diameter painted steel pole for T-Mobile cellular monopole for cellular and wireless communication with ground mechanical support equipment on the property at 2327 Dean Street, also known as 2421 Buhne Street (these two properties were merged into one lot earlier this year). The approximately 22,680 square foot subject property is located at the northeast corner of Buhne and Dean Streets; the property has 126’ frontage on Dean Street and 180’ frontage on Buhne Street. The proposed monopole would be located approximately 116’ from Buhne Street, approximately 92’ from Dean Street and about 10’ from the alley. The wireless/cellular pole would be a monopole design with three concealed antennas within a plastic enclosure cover (radome) without top lighting. The enclosure also contains space for three (3) additional antennas for increased capacity or an additional carrier. The foundation for the monopole (pending a soils report) would be approximately seven (7) feet square and seven (7) feet in depth located at the back of the building within the existing lawn area. The total

number of cubic yards of soil to be removed from the site is about twelve one-half (12 1/2) yards. The remainder of the existing lawn and tree would remain. A battery cabinet would be used for temporary power outages. Electrical and telephone services are available from the alley adjacent to the site. The ground equipment would be on a cement pad of about 10' x 20', behind a six-foot tall chain link fence approximately 1' west of the existing fence that separates 2327 Dean Street from 2421 Buhne Street.

All interested persons are invited to comment on the project either in person at the scheduled public hearings, or in writing. Written comments on the project may be submitted at the hearing or prior to the hearing by mailing or delivering them to the Community Development Department, address above. Accommodations for handicapped access to City meetings must be requested of the City Clerk, 441-4175, five working days in advance of the meeting. Appeals to the City Council of the action of the Planning Commission may be made within 10 days of the action by filing a written Notice of Appeal, along with applicable appeal fees, with the City Clerk. If you challenge the nature of the proposed action in court, you may be limited to raising only those issues that you or someone else raised at the public hearing described in this notice or written correspondence delivered to the public entity conducting the hearing at or prior to the public hearing. The project file is available for review at the Community Development Department, Third Floor, City Hall. If you have questions regarding the project or this notice, please contact Sidnie L. Olson, AICP, Principal Planner, phone: (707) 441-4265; fax: (707) 441-4202; e-mail: solson@ci.eureka.ca.gov

July 29, 2009

KEVIN R. HAMBLIN
DIRECTOR OF COMMUNITY DEVELOPMENT



CEQA NEGATIVE DECLARATION

CITY OF EUREKA

SCH #: _____

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LEAD AGENCY/CONTACT: City of Eureka, Community Development Department; Sidnie L. Olson, AICP, Senior Planner; 531 K Street, Eureka, CA 95501-1165; phone: (707) 441-4265; fax: (707) 441-4202; e-mail: solson@ci.eureka.ca.gov

DATE OF PROJECT APPLICATION: June 30, 2009

DATE OF PROJECT APPROVAL: _____, 2009

FINDINGS: This is to advise that on _____, 2009, the Planning Commission of the City of Eureka, as the Lead Agency, approved the project described above, and made the following determinations and findings regarding the project.

1. The Planning Commission found that the proposed project will not have a significant effect on the environment.
2. A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. The Planning Commission found that the Negative Declaration was prepared pursuant to the provisions of CEQA.

4. The decision of the Planning Commission to adopt the Negative Declaration was based on the whole record before it (including the initial study and any comments received).
5. The Planning Commission found that the Negative Declaration reflects the City of Eureka's independent judgment and analysis.
6. Mitigation measures were not made a condition of project approval.
7. A Statement of Overriding Considerations was not adopted for this project.
8. Findings were not made pursuant to the provisions of CEQA (CCR §15091)
9. The Planning Commission did not adopt a program for reporting on or monitoring the changes which it either required in the project or made a condition of approval to mitigate or avoid significant environmental effects.
10. The Planning Commission found that the project site is not within two nautical miles of a public airport or public use airport, and they determined that the project will not result in a safety hazard or noise problem for persons using the airport or for persons residing or working in the project area.

This is to certify the City of Eureka, Community Development Department, is the custodian of the documents or other material which constitute the record of proceedings upon which the Planning Commission's decision was based; and that the Negative Declaration and the record of project approval are available to the general public for review during regular office hours at the City of Eureka, Community Development Department, third floor, 531 K Street, Eureka, CA 95501.

Sidnie L. Olson, AICP
Principal Planner
City of Eureka

Date



CEQA INITIAL STUDY

CITY OF EUREKA

Initial Study and Draft Negative Declaration T-Mobile Cellular/Wireless Monopole, Dean Street, Conditional Use Permit

Project Title: *T-Mobile Cellular/Wireless Monopole, Dean Street*

Project Applicant: PWM, Inc. **Case No:** C-09-0004

Project Location: 2327 Dean Street and 2421 Buhne Street; APN 013-112-010 and -020

Zoning & General Plan: Hospital Medical (HM)

Project Description:

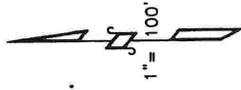
The project is composed of the construction of a fifty (50) foot high, twenty-four (24) inch diameter painted steel pole for T-Mobile cellular monopole for cellular and wireless communication with ground mechanical support equipment on the property at 2327 Dean Street, also known as 2421 Buhne Street (these two properties were merged into one lot earlier this year). The approximately 22,680 square foot subject property is located at the northeast corner of Buhne and Dean Streets; the property has 126' frontage on Dean Street and 180' frontage on Buhne Street. The proposed monopole would be located approximately 116' from Buhne Street, approximately 92' from Dean Street and about 10' from the alley. The wireless/cellular pole would be a monopole design with three concealed antennas within a plastic enclosure cover (radome) without top lighting. The enclosure also contains space for three (3) additional antennas for increased capacity or an additional carrier. The foundation for the monopole (pending a soils report) would be approximately seven (7) feet square and seven (7) feet in depth located at the back of the building within the existing lawn area. The total number of cubic yards of soil to be removed from the site is about twelve one-half (12 1/2) yards. The remainder of the existing lawn and tree would remain. A battery cabinet would be used for temporary power outages. Electrical and telephone services are available from the alley adjacent to the site. The ground equipment would be on a cement pad of about 10' x 20', behind a six-foot tall chain link fence approximately 1' west of the existing fence that separates 2327 Dean Street from 2421 Buhne Street.

Project sponsor's name and address: SPONSER: PWM Inc. for Omnipoint Communications Inc. dba T-Mobile USA c/o Thomas J. McMurray Jr. P.O. Box 1032 Eureka, CA 95502 Phone: (707) 499-0901

Surrounding land uses and setting The site is adjacent to an Office Building and an unoccupied former residence that is now vacant and being considered for office type uses. Other buildings in the area are various medical offices and related uses such as Humboldt Radiology, St. Joseph Outpatient Imaging, the old General Hospital, a Medical Marijuana Consulting Office and a Semperviron Clinic across the street. The medical/office buildings are concentrated along the east end of Buhne Street and on the north and south sides of Harrison Street and include a Coast Central Credit Union Building. Residential buildings are located to the west of the site along Buhne Street and along Harrison street in various locations.

Other public agencies whose approval is required City of Eureka Planning and Building, Public Works, Federal Communications Commission.

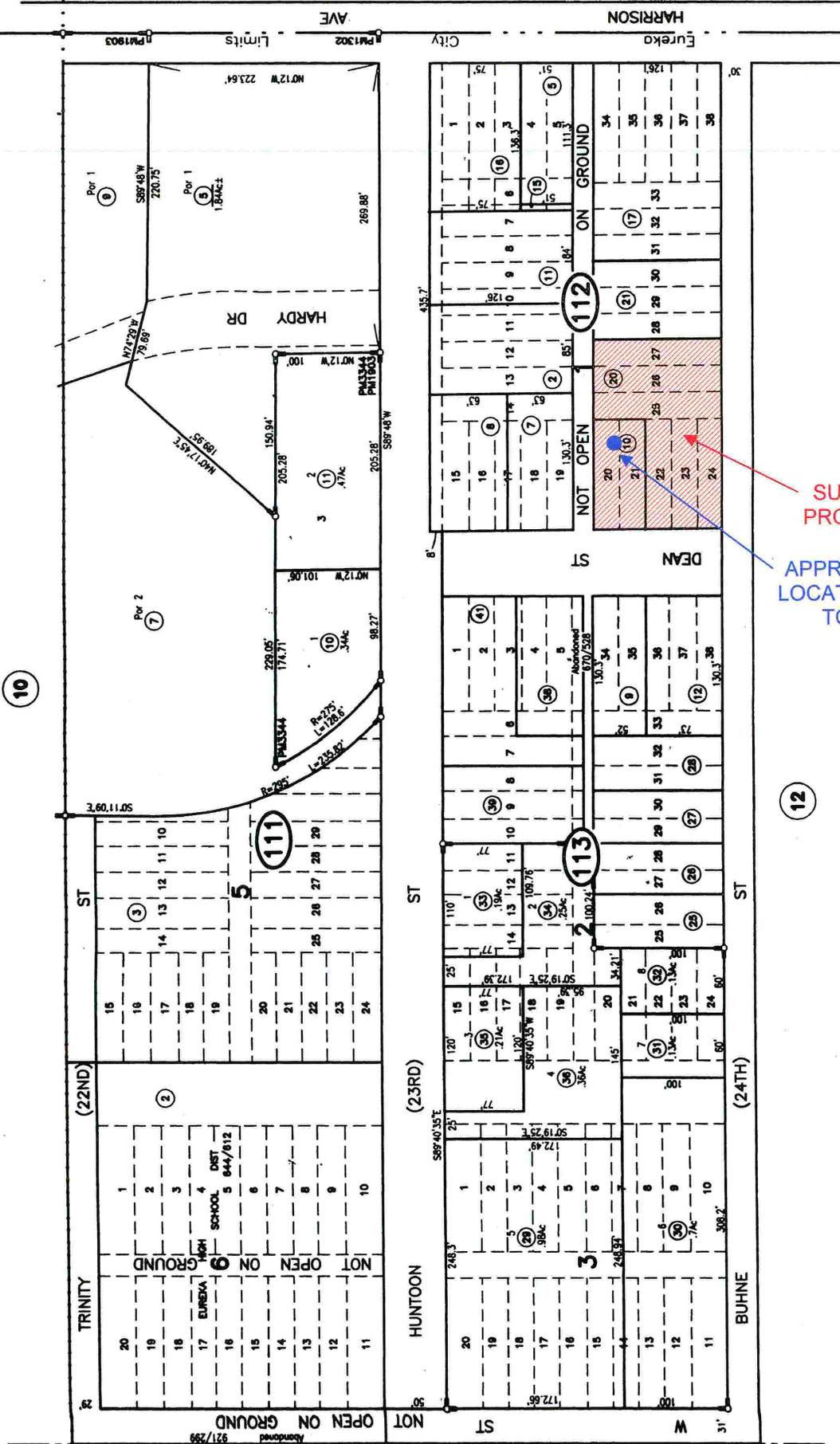
13-11



16
1

CITY OF EUREKA

10



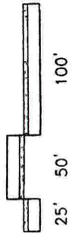
POTTER & LAWRENCE ADDN. - 4-62

SUBJECT PROPERTY
APPROXIMATE LOCATION CELL TOWER

PM1302 of PM Bk 11, Pg 102(Por)
PM1903 of PM Bk 16, Pgs 132-133(Por)
RS, Bk 54 of surveys, Pg 37
PM3344 of PM Bk 32, Pgs 25-26

NOTE - Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles.

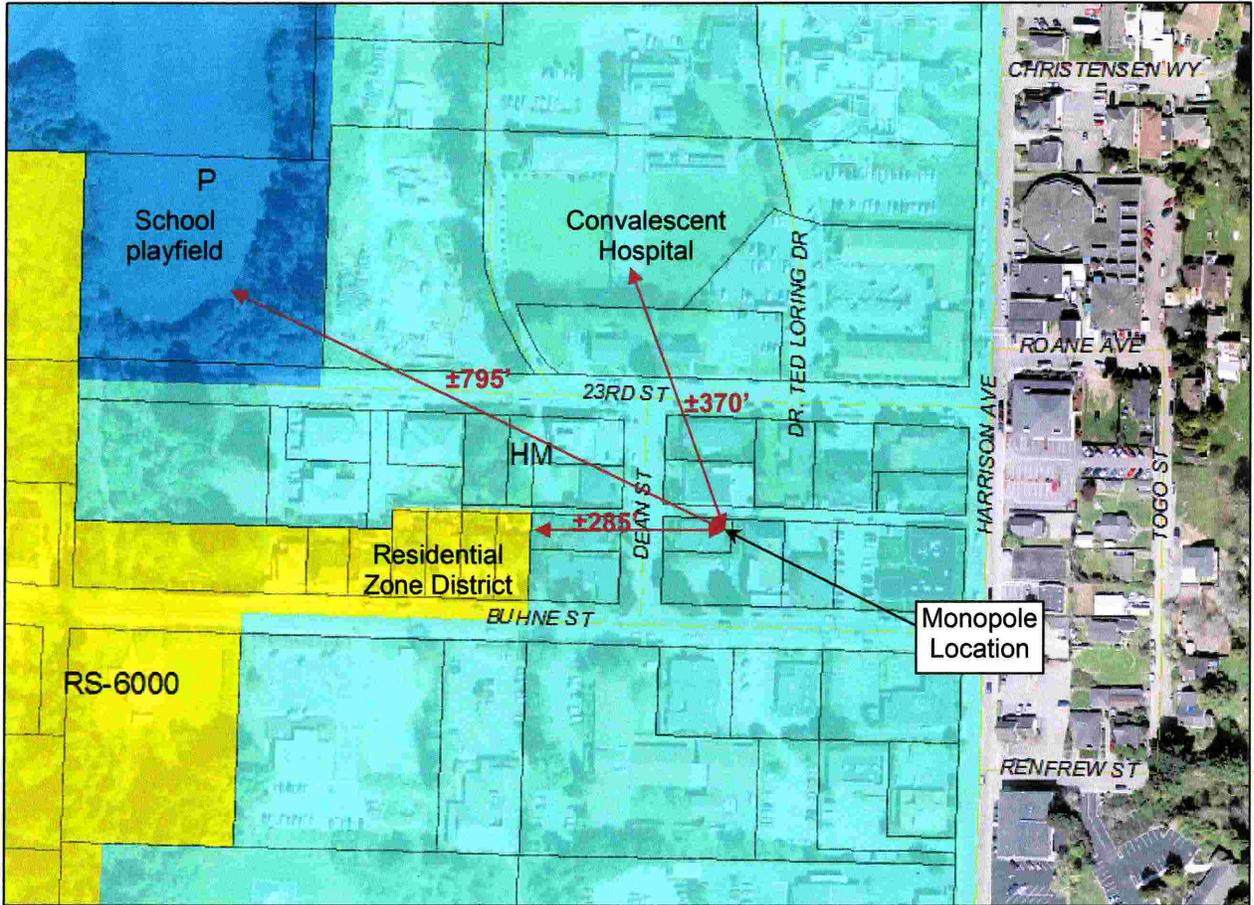
CEL MAP
MADE FOR
USES ONLY.
LIMITED FOR
DATA SHOWN.
MAY NOT
LOT-SPLIT
ORDINANCES.



Nov 15, 2007

Assessor's Map Bk. 13, Pg.11
County of Humboldt, CA.





ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|--|---|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture Resources | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Geology / Soils |
| <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology / Water Quality | <input type="checkbox"/> Land Use / Planning |
| <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Noise | <input type="checkbox"/> Population / Housing |
| <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation | <input type="checkbox"/> Transportation / Traffic |
| <input type="checkbox"/> Utilities / Service Systems | <input type="checkbox"/> Mandatory Findings of Significance | |

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project COULD have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project COULD have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Signature

Sidnie L. Olson

Printed name

8/7/09

Date

City of Eureka

For

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take into account the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section 17, “Earlier Analyses,” may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addresses. Identify that effects from the above checklist were within the scope of and adequately analyze in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are “Less Than Significant with Mitigation Measures Incorporated,,” describe the mitigation measures that they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plan, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats, however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
- 9) The explanation of each issue identify:
 - a) The significant criteria or threshold, if any, used to evaluate each question; and
 - b) The mitigation measure identified, if any, to reduce the impact to less than significant.

	Potentially Significant	Potentially Significant Unless Mitigation Incorp.	Less Than Significant Impact	No Impact
1. AESTHETICS. Would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. AGRICULTURE RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Involve other changes in the existing environment that, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. AIR QUALITY. Where available, the significant criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for that the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. BIOLOGICAL RESOURCES. Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Staff of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant	Potentially Significant Unless Mitigation Incorp.	Less Than Significant Impact	No Impact
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Staff of Fish and Game or US Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. CULTURAL RESOURCES. Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Directly or indirectly destroy a unique pale ontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. GEOLOGY AND SOILS. Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Potentially Significant	Potentially Significant Unless Mitigation Incorp.	Less Than Significant Impact	No Impact
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7. HAZARDS AND HAZARDOUS MATERIALS. Would the project:

- | | | | | |
|--|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

8. HYDROLOGY AND WATER QUALITY. Would the project:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Violate any water quality standards or waste discharge requirements? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for that permits have been granted)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) Otherwise substantially degrade water quality? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

	Potentially Significant	Potentially Significant Unless Mitigation Incorp.	Less Than Significant Impact	No Impact
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures that would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. LAND USE AND PLANNING. Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. MINERAL RESOURCES. Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. NOISE. Would the project result in:				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Exposure of persons to or generation of excessive ground borne vibration or ground borne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) A substantial <u>temporary</u> or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. POPULATION AND HOUSING. Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant	Potentially Significant Unless Mitigation Incorp.	Less Than Significant Impact	No Impact
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. PUBLIC SERVICES.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of that could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i. Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii. Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii. Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv. Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
v. Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. RECREATION.				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. TRANSPORTATION/TRAFFIC. Would the project:				
a) Cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. UTILITIES AND SERVICE SYSTEMS. Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of that could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant	Potentially Significant Unless Mitigation Incorp.	Less Than Significant Impact	No Impact
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of that could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

17. MANDATORY FINDINGS OF SIGNIFICANCE.

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

18. DISCUSSION OF CHECKLIST RESPONSES

1. a.), c): AESTHETICS: LESS THAN SIGNIFICANT IMPACT

Finding: The project will have a less than significant impact on the following aesthetic resources: scenic vistas and the existing visual character or quality of the site and its surroundings.

Discussion: The site is adjacent to an office building and an unoccupied former residence that is now vacant and being considered for office type uses. Other buildings in the area are various medical offices and related uses such as Humboldt Radiology, St. Joseph Outpatient Imaging, the old General Hospital, a Medical Marijuana Consulting Office and a Semperions Clinic across the street. The medical/office buildings are concentrated along the east end of Buhne Street and on the north and south sides of Harrison Street and include a Coast Central Credit Union Building. Residential buildings are located to the west along Buhne Street.

The project site is not within a mapped/designated scenic vista or scenic resources area, nor is the project site located near or within view of a state scenic highway. Portions of the monopole will be in view from buildings within the east area of Buhne Street, and to the North, South, East and West sides of Harrison. However, other buildings, existing trees, telephone poles and other obstructions in the area partially shield the monopole from most views. The monopole will be painted an off white and no antennas, wires or cables will be placed on the exterior of the pole. There are existing street lights and high power line poles up to 60 feet in height in the area with significant visual issues such as wires, cables, braces, cross-arms and transformers. The proposed monopole will not have any antennas, wires or cables exposed.

The visual compatibility of a new cellular/wireless monopole structure is a judgment call. There will be some public members that support the placement of the monopole structure in order to utilize better telecommunication service. Some members of the public will oppose any new telecommunications facility because they may consider it unsightly. Staff believes the telecommunication technology is increasing and public use of hand-held devices are becoming more common. As voice, data, internet and video hand-held devices become more common, telecommunications facilities will become inherent to the urban and rural landscape; they will become as common as overhead electrical and telephone lines. The site offers a strategic location for wireless services in the central area of the City for cellular and other wireless communications which cannot be duplicated by another location. The location of other cellular facilities in the area demonstrate the coverage needs required.

Therefore, Staff believes the impact to visual resources will be minimized by the proposed cellular monopole because the monopole is of a camouflaged, stealth design which is compatible with other poles and devices in the area.

1. b), d): AESTHETICS: NO IMPACT

Finding: The project will have no impact or substantial adverse effect with regards scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway; nor will it create a new source of substantial light or glare that would adversely affect day or nighttime views in the area.

Discussion: The area is not mapped as a scenic resource and will not effect trees, rock outcroppings nor historic buildings within a state scenic highway. There are no state scenic highways in this area. The project includes three new light sources. A condition of approval will be added to the conditional use permit requiring that the lighting be shielded and directed to retain light on the property. Therefore, the project will not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. The proposed cell monopole will be painted an off white color without antennas, wires or cables exposed.

2. a) - c): AGRICULTURE RESOURCES: NO IMPACT

Finding: The project will not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use; or conflict with existing zoning for agricultural use, or a Williamson Act contract; or involve other changes in the existing environment that, due to their location or nature, could result in conversion of farmland, to non-agricultural use.

Discussion: The subject property is zoned Hospital Medical (HM). The General Plan designation is Medical Service Commercial (MCS). None of the parcel is in the coastal zone. The parcel is not currently, nor is it known to have in the past, been used for agricultural production of any kind. It is partially developed with an existing residence, office building and other improvements. Therefore, the project will not convert agricultural lands to non-agricultural use.

3. a) - e): AIR QUALITY: NO IMPACT

Finding: The project will have no impact on air quality with regards to: conflict with or obstruct implementation of the applicable air quality plan; or violate any air quality standard or contribute substantially to an existing or projected air quality violation; or result in a cumulatively considerable net increase of any criteria pollutant for that the project region is non-

attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors). In addition, the project not expose sensitive receptors to substantial pollutant concentrations; or create objectionable odors affecting a substantial number of people.

Discussion: According to the North Coast Unified Air Quality Management District (NCUAQMD), all of the Humboldt County is in non-attainment of the State's PM-10 (particulate matter of 10 microns in size) standard, but complies with all other State and Federal air quality standards. According to recent studies by the NCUAQMD, the most significant contributors to PM-10 are residential wood burning stoves. The parcel is served by existing utilities, with no back up generator. There would be insignificant amounts of PM-10's generated through the creation of diesel and gasoline exhaust from the equipment used for the construction of the monopole. The use of this equipment would be only temporary, and for a limited duration; and therefore, is not expected to have a significant impact on air quality. The project does not include the manufacture or processing of materials that may release substantial pollutant concentrations or objectionable odors. There is no evidence in the record that would indicate the project would result in the exposure of substantial pollutant concentrations to sensitive receptors or create objectionable odors affecting a substantial number of people. Based on the above the Staff finds no evidence that the project will result in either an individually or cumulatively significant impact with respect to air quality.

4. a - f): BIOLOGICAL RESOURCES: NO IMPACT

Finding: The project will not have a substantial adverse effect, either directly or through habitat modifications, on species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Staff of Fish and Game (DFG) or U.S. Fish and Wildlife Service (USFWS); or have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the DFG or USFWS; or have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means. Nor will the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites; or conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Furthermore, the project will not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

Discussion: The project consists of the development of a monopole for PCS/cellular/wireless communications with a maximum height of 50 feet on an existing developed parcel. There are no sensitive biological resources on, or in the vicinity of the project site, therefore, the project will not have an adverse effect on: special status species riparian habitat or other sensitive natural community, including wetlands; or, resident or migratory wildlife species.

There are no creeks or other wet areas located in the near vicinity. Staff is not aware of any documented biological impacts that might be created by the project or affected.

The monopole is self supporting and contains no facilities that would generally be expected to contribute the incidence of migratory bird kills such as a monopole with guy-wires. The project is consistent with the USFWS "*Interim Guidelines for Recommendations on Communications Monopole Siting, Construction, Operation, and Decommissioning*" because: 1) the monopole design is self supporting; 2) the monopole height will be less than 199 feet AGL; 3) the monopole will not have red lights; and, 4) on-ground security lighting will be down-shielded.

Based on the above, the Staff finds there is no evidence in the public record that would indicate the project would have an adverse impact on biological resources.

5. a) - d): CULTURAL RESOURCES: NO IMPACT

Finding: The project will not cause a substantial adverse change in the significance of a historical resource as defined in §15064.5; nor cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5; nor directly or indirectly destroy a unique paleontological resource or site or unique geologic feature; nor disturb any human remains, including those interred outside of formal cemeteries.

Discussion: The area has historically been used for urban uses such as residential and commercial and not in an area of known or suspected cultural resources; therefore, the Staff finds the project will not result in a significant environmental impact with respect to cultural resources.

6. a)ii-iv),c) - e): GEOLOGY AND SOILS: NO IMPACT

Finding: The project will not expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: (ii) strong seismic ground shaking; (iii) seismic-related ground failure, including liquefaction; or (iv) landslides. The project will not be located on a geologic unit or soil that is unstable; or that would become unstable as a

result of the project and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse. Furthermore, the project will not create substantial risk to life or property by being located on expansive soil, nor does the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water.

Discussion: The project site is not within a fault zone or located on bedrock, or in an area of low slope instability. The monopole construction will only require grading or excavation for the footings, and the Staff does not have any evidence the project will result in the substantial soil erosion or loss of topsoil. The project is not located in an area of low slope instability and there is no information that the project will be located on a geologic unit or soil that is unstable; nor that would become unstable as a result of the project and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse. Based on the above, the Staff finds that the project will not result in a significant environmental impact with respect to the above specific geology/soils issues.

6. a,i), b): GEOLOGY AND SOILS: LESS THAN SIGNIFICANT IMPACT

Finding: The project will have a less than significant impact in regards to the rupture of a known earthquake fault, or based on other substantial evidence of a known fault; nor will the project result in the substantial loss of soil erosion or topsoil.

Discussion: The monopole site is not a structure meant for human habitation nor will it be occupied by humans. Nonetheless, the requirements under the building code dealing with soil stability and potential earthquake hazards will be adhered to as part of the Building Permit. Staff has no other information that would lead Staff to a finding of potential impact relating to geology and soils.

7. a) - h): HAZARDS AND HAZARDOUS MATERIALS: NO IMPACT

Finding: The project will not have a significant impact on the environment or the public through the routine transport, use, or disposal of hazardous materials; nor will it create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. The project will have no impact on the public or the environment with regards to the following hazards or hazardous materials: the project will not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school; or be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5; nor is the project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, or would the project result in a safety hazard for people residing or working in the project area; or for a project within the vicinity of a private airstrip, nor would the project result in a safety hazard for people residing or working in the project area; or impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan; or expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands.

Discussion: The project will use batteries as a source for back-up generator. The project does not use, dispose of or store other hazardous materials. Although the project site is within ¼ mile of the playfield of a school, there are no anticipated adverse impacts that would result from the project's location near the school.

The FCC is required by the National Environmental Policy Act of 1969 to evaluate the effects of RF emissions from FCC-regulated transmitters on the quality of the human environment. The Commission's RF emissions rules are designed to protect public health by limiting the maximum amount of RF emissions to which a licensee's facilities, in combination with other sources of RF emissions, may cause workers and the general public to be exposed. These rules are based on standards developed by the Institute of Electrical and Electronic Engineers, Inc. and adopted by the American National Standards Institute, as well as guidelines recommended by the National Council on Radiation Protection and Measurements. The rules were coordinated with and are supported by federal agencies with health and safety responsibilities, including the Environmental Protection Agency, the Food and Drug Administration, the National Institute for Occupational Safety and Health, and the Occupational Safety and Health Administration. Last year, the United States Court of Appeals for the Second Circuit affirmed the Commission's RF guidelines in *Cellular Phone Taskforce v. FCC*.

On June 2, 2000, the Commission and its Local and State Government Advisory Committee (LSGAC) released the *Local Official's Guide to Transmitting Antenna RF Emission Safety: Rules, Procedures, and Practical Guidance* ("Local Official's Guide"). The Local Official's Guide provides information and voluntary guidance to local governments to facilitate their ability to devise reasonable and effective procedures for assuring that antenna facilities located within their boundaries comply with Commission limits for human exposure to RF emissions. It provides a summary of the Commission's RF exposure guidelines and the Commission's procedures for ensuring compliance and enforcing its rules. It also provides guidance to local governments attempting to determine if a radio transmission. A copy is attached hereto.

The Guide includes a checklist and tables to help quickly identify siting applications that do not raise RF exposure concerns. Appendix A to this guide, "*Optional Checklist for Determination of Whether a Facility is Categorically Excluded*"

contains a checklist that may be used to identify "categorically excluded" facilities that are unlikely to cause RF exposures in excess of the FCC's guidelines. The following is a portion of Appendix A filled out for the T-Mobile monopole. According to Appendix A, the proposed T-Mobile monopole is categorically excluded.

12. Licensed Radio Service (see attached Table 1): <u>PCS</u>
13. Structure Type (free-standing or building/roof-mounted): <u>FREESTANDING</u>
14. Antenna Type [omnidirectional or directional (includes sectored)]: <u>DIRECTIONAL</u>
15. Height above ground of the lowest point of the antenna (in meters): <u>15.2</u>
16. <input checked="" type="checkbox"/> Check if <u>all</u> of the following are true: <ul style="list-style-type: none">(a) This facility will be operated in the Multipoint Distribution Service, Paging and Radiotelephone Service, Cellular Radiotelephone Service, Narrowband or Broadband Personal Communications Service, Private Land Mobile Radio Services Paging Operations, Private Land Mobile Radio Service Specialized Mobile Radio, Local Multipoint Distribution Service, or service regulated under Part 74, Subpart I (see question 12).(b) This facility will <u>not</u> be mounted on a building (see question 13).(c) The lowest point of the antenna will be at least 10 meters above the ground (see question 15).
If box 16 is checked, this facility is categorically excluded and is unlikely to cause exposure in excess of the FCC's guidelines. The remainder of the checklist need not be completed.

The communication facility will be secured by a locked gate and security fencing to allow access only to authorized personnel and make the facility inaccessible to the general public. Employees with facility access will have to follow occupational guidelines to prevent occupational exposure standards in excess of the FCC guidelines.

The Building Department requires the building permit application to include a set of plans certified by a California licensed engineer. The monopole structure will be designed using current building code standards. The Building Department will inspect construction activities for compliance with manufacture's specification and approved building plans.

Monopole failure due to unusual loading, i.e. snow and ice, is not expected to be a significant hazard. The location and elevation (approximately 109 feet above sea level) of the project location normally do not contribute to heavy snow or icy conditions.

The project site is not included on a list of hazardous material sites.

The applicant is required to submit to FAA a determination that the proposed structure does not exceed the obstruction standards and would not be a hazard to air navigation. The applicant has conducted a FCC Towair registration process and a determination was received that "A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration." Development of a Cellular/PCS monopole with a maximum height of 50 feet with appurtenant improvements is not anticipated to impair implementation of, or physically interfere with, an adopted emergency response plan. Based on the above, the monopole will have a less than significant impact to the public or environment.

8. a) - j): HYDROLOGY AND WATER QUALITY: NO IMPACT

Finding: The project will have no impact on hydrology or water quality; nor will it violate water quality standards or waste discharge requirements, substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for that permits have been granted). Nor will the project impact hydrology or water quality by altering the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, nor substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site. The project does not have the potential to have a significant impact on hydrology and/or substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site; nor will it create or contribute runoff water that would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff; nor otherwise substantially degrade water quality. Nor will the project impact hydrology or water quality by placing housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard

delineation map; nor place within a 100-year flood hazard area structures that would impede or redirect flood flows; nor expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam; nor inundation by seiche, tsunami, or mudflow.

Discussion: There is no evidence to indicate the proposed monopole would violate water quality standards, or waste discharge requirements. The proposed project does not include any grading, ground disturbing activity, or drilling except for the area that will house the foundation and concrete pad. The project does not include any additional discharge of materials into community sewer or natural drainage systems. Groundwater supplies will not be depleted or interfered because the project does not include the use of on-site wells or foundation work that may be at depths that interfere with groundwater.

As noted in the Biological section above, there are no creeks or other wet areas in the near vicinity of the project site. Furthermore, there is no evidence the project would alter existing drainage patterns, or alter any stream or river. Project does not include any significant ground coverage, thus, the Staff believes the project will have no impact on existing drainage patterns, nor substantially increase surface run-off, nor exceed the capacity of storm-water drainage systems.

According to the Flood Insurance Rate Map (FIRM) Panel No. 060062 0005 C, effective June 17, 1986, the project site is located outside of any area subject to flooding. The project site is not within a mapped dam or levee inundation area, and outside the areas subject to tsunami run-up. Based on submitted information the Staff finds no evidence indicating that the project will deplete groundwater supplies or recharge, place housing within a 100 year or 500 year floodplain, therefore, it will not expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam or inundation by seiche, tsunami, or mudflow.

9. a)- c): LAND USE AND PLANNING: NO IMPACT

Finding: The project will not physically divide an established community; nor conflict with a local land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect; nor conflict with any applicable habitat conservation plan or natural community conservation plan.

Discussion: The project site is located on a 200 square foot portion of a approximately 22,680 square foot subject property located at the northeast corner of Buhne and Dean Streets; the property has 126' frontage on Dean Street and 180' frontage on Buhne Street. in the City of Eureka containing a unoccupied residence, an office building and other improvements. The property on which the cellular/wireless communication facility would be located is at approximately 109 feet elevation. The applicant contends, and photos support this contention that the monopole conforms to the general appearance of the area and is far less of an impact than adjoining public utility poles, wires, cables and transformers. The views of the monopole will be partially shielded by other structures, telephone poles, street lights, trees and other development in the area and the impact to the area will be minor. The neighborhood is composed of mixed uses with Medical Office, Institutional, Hospital and some single family residences. There are no habitat conservation or natural community conservation plans in effect for the project area.

The proposed development is compatible with surrounding uses because it is located on a small portion of a parcel currently used by an existing residence and an office building. The Cellular/Wireless needs of the eastern portion of the city and surrounding areas are increasing and T Mobile does not have a site in that area to provide wireless services. The communication facility would be visible from adjacent commercial, office and residential parcels located within approximately 1/4 mile of the monopole. The views will be less noticeably affected from a distance because of trees, buildings and structures surrounding the site. The proposed location is a less prominent location than many others. The applicant provided a coverage map showing where their signal is lacking and why the proposed location is one that would provide their customers with the clearest signal. Apparently, the inherent characteristics of the communication industry make the Dean/Buhne Street location an optimum site for Personal Communication Services facilities.

Telecommunication technology is increasing and public use of wireless hand-held devices, such as PCS and Cellular are becoming more common. As voice and data hand-held devices become more prevalent, telecommunications facilities will become inherent to the urban and rural landscape; they will become as common as overhead electrical and telephone lines. The City does not have a specific ordinance that guides development of wireless communication monopole facilities, however, it is the intent to cluster near existing developments (preferably industrial), or co-locate onto existing structures. Co-location decreases the number of new monopoles, while clustering concentrates monopoles or structures to specific locations, thereby decreasing the proliferation of monopoles throughout the landscape. The monopole will provide additional public utility services (quasi-public) to the area. Mainly sectors of the public that utilize PCS technology will benefit by the proposed project. Presently there is no T Mobile handheld PCS coverage in the area. Also, handheld analog cellular service is being phased out. Other members of the public may relish the status quo, and regard the project as an unnecessary visual intrusion. However, it may be argued that present non-communication users may have the opportunity for ancillary benefits such as: reduced emergency response times.

10. a) - c): MINERAL RESOURCES: NO IMPACT

Finding: The project will not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state; or result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan.

Discussion: The project does not involve extraction of mineral resources. The project site is not, nor adjacent to, a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan. The Staff finds there is no evidence that the project will result in significant adverse impact with regard to mineral resources.

11. a)-c), e)-f) NOISE: NO IMPACT

Finding: The project would result in no impacts to the public or the environment, as a result of: a) the exposure of persons to or the generation of, noise levels in excess of standards established in the local general plan, or noise ordinance, or applicable standards of other agencies; b) nor the exposure of persons to generation of excessive ground borne vibration or ground borne noise levels; c) nor a permanent increase in ambient noise levels in the vicinity above those existing without the project; e) for projects located within an airport land use plan or, where such a plan has not been adopted or, within two miles of a public airport or public use airport or within the vicinity of a private airstrip, the project would not expose people residing or working in the project area to excessive noise levels; e) for projects within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels.

Discussion: The project site is not within 2 miles of a public or private airstrip or within an airport land use plan area and, therefore, is not expected to have an impact on the public based on these types of airport-related hazards.

11. d) NOISE: LESS THAN SIGNIFICANT IMPACT

Finding: The project will result in a less than significant impact with regards to the following noise hazards: a substantial temporary increase in ambient noise levels in the project vicinity above levels existing without the project.

Discussion: Construction activities related to the proposed monopole will generate a temporary increase in ambient noise levels and ground borne vibration. The closest sensitive receptor is the single-family residence located on the parcel.

Construction includes: staging of materials, using a crane to hoist each section up, and the attachment of each particular section. The agent believes the plan for construction includes 30 days from start to finish. The maintenance of the monopole will involve a monthly visit in a passenger vehicle to check the mechanisms. No noise or intrusions of any kind should be expected from the maintenance visits.

There is no proposed back-up generator that may increase temporary, periodic ambient noise levels. The Wireless/Cellular cabinets will have interior cooling fans and the back-up power will be provided by batteries. The noise level would be attenuated by residential structures and vegetation in the area.

The impact would be less than significant because such increases would only be short term, lasting only the length of time required to complete the work. There is no evidence the temporary increased noise levels and ground borne vibrations would result in significant adverse environmental impacts. Based on the above, Staff finds that the project results in a less than significant impact, individually or cumulatively, with regard to the potential exposure of persons to noise levels in excess of the standard established.

12. a) - c): POPULATION AND HOUSING: NO IMPACT

Finding: The project will not induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure); or displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere; or displace substantial numbers of people, necessitating the construction of replacement housing elsewhere.

Discussion: The project is for a PCS/Cellular/wireless transmission facility, and appurtenant attachments; no dwelling or human habitation is to occur on the parcel as a result of the project. Also, no extension or creation of roads shall be created as a result of the project. The project will utilize the existing electrical infrastructure that already is at the project site. Staff finds no evidence indicating that the project will directly or indirectly induce substantial population growth, or displace any persons. Based on the above, Staff finds no evidence indicating that the project will have a adverse impact on population and housing.

13. a) i-v: PUBLIC SERVICES: NO IMPACT

Finding: The project will have a less than significant impact on new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of that could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: fire protection, police protection, schools, parks, other public facilities.

Discussion: No issues were identified with regard to the provision, construction of, or maintenance of public services. Based on the above, the Staff finds no evidence indicating that the project will result in an adverse impact with regard to public services.

14. a) - b): RECREATION: NO IMPACT

Finding: The project will not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated; or include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment.

Discussion: The project does not include any new development that would increase the use of existing neighborhood and regional parks or other recreational facilities. There is no evidence indicating that the project would affect existing recreational opportunities based on the project as proposed and review of applicable regulations.

15. a) - g): TRANSPORTATION/TRAFFIC: NO IMPACT

Finding: The project will not cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections); nor exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways. The project will not result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks; nor substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment); nor result in inadequate emergency access; nor result in inadequate parking capacity; nor conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks).

Discussion: The communication monopole would not cause an increase in traffic. Routine maintenance is expected to be conducted on a monthly basis by one person, most likely, in a passenger vehicle. This increase in traffic would be insignificant.

16. a) - g): UTILITIES AND SERVICE SYSTEMS: NO IMPACT

Finding: The project will not exceed wastewater treatment requirements of the applicable RWQCB; or require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of that could cause significant environmental effects; or require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of that could cause significant environmental effects; or have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed; or result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments; or be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs; or comply with federal, state, and local statutes and regulations related to solid waste.

Discussion: The development of a Cellular/Wireless communication monopole does not require connection to the City of Eureka sewer and/or water lines. In addition, the project does not include the manufacture of any products, or development that has the potential to increase the density or need for additional water and sewer services, or storm water drainage facilities. The parcel is located within the water and sewer service area of the City of Eureka. The project does not require modifications to existing storm water facilities, nor is there evidence the daily operations of the monopole will generate significant volumes, or even insignificant volumes, of solid waste. There is no evidence indicating that the project will result in a significant impact with respect to utilities and service systems.

17. a) - c): MANDATORY FINDINGS OF SIGNIFICANCE: NO IMPACT

Finding: The project will **not** have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory; or have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects); or have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly.

Discussion: Based on the project as described in the administrative record, a review of the applicable regulations, and discussed herein, Staff finds there is no evidence to indicate the proposed project:

- Will have the potential to degrade the quality of the environment, reduce the habitat of a fish or wildlife species, threaten to eliminate a plant or animal community or eliminate important examples of the major periods of California history or pre-history;
- Will have the potential to achieve short-term to the disadvantage of long-term environmental goals; or
- Will have impacts that are individually limited but cumulatively considerable; or
- Will have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly.

19. DISCUSSION OF MITIGATION MEASURES, MONITORING, AND REPORTING PROGRAM

No mitigation measures are recommended

20. EARLIER ANALYSES.

Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, one or more effects have been adequately analyzed in an earlier EIR or negative declaration. Section 16063(c)(3)(D). In this case a discussion should identify the following on attached sheets:

- a) Earlier analyses used. Identify earlier analyses and state where they are available for review.

None

- b) Impacts adequately addressed. Identify that effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects are addressed by mitigation measure based on a the earlier analysis.

All effects from the proposed project were analyzed on their own merits separate from earlier analysis.

- c) Mitigation measures. For effects that are "Less than Significant with Mitigation Incorporated," describe the mitigation measures that were incorporated or refined from the earlier document and the extent to that they address site-specific conditions for the project.

No mitigation measures from earlier analysis were incorporated into the current project.

GENERAL NOTES

1. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. AND THE SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES. THE SCOPE OF WORK SHALL INCLUDE FINISHING ALL MATERIALS, EQUIPMENT, AND INSTALLATIONS AS DESCRIBED HEREIN.
2. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROJECT. THE CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER. ANY DISCREPANCIES OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
3. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. THE SCHEDULE SHALL BE SUBJECT TO CHANGE WITHOUT NOTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S AND/OR SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
6. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. THE SCHEDULE SHALL BE SUBJECT TO CHANGE WITHOUT NOTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.
7. GENERAL CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF DRAWINGS FOR THE USE OF ALL PERSONNEL INVOLVED IN THE PROJECT.
8. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME. THE SCHEDULE SHALL BE SUBJECT TO CHANGE WITHOUT NOTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.
9. DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.
10. SHALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH UNLISTED OR UNTESTED MATERIALS IS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.
11. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10 AND 10-B-10. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10 AND 10-B-10. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10 AND 10-B-10.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.
13. HAZARDOUS MATERIALS SHALL BE IDENTIFIED AND REMOVED FROM THE PROJECT SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.
14. THE ARCHITECT/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THESE DRAWINGS ALL NECESSARY INFORMATION FOR THE CONTRACTOR TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, ORDINANCES, FIELD CONDITIONS AND CONFORM WITH THE PROJECT MAY BE ALTERED BY THE ARCHITECT/ENGINEER.

T-Mobile

OMNIPOINT COMMUNICATIONS

T-MOBILE	INITIALS	DATE
PROPERTY		
ZONING		
CONST.		
R.F.		

REVISED

SITE ADDRESS

2327 26th STREET
EUREKA, CA 95501

T-Mobile
OMNIPOINT COMMUNICATIONS
1755 CRESCENTE OAKS DRIVE, SUITE 100 • SACRAMENTO, CA 95833

Peek Site-Com
853 Lincoln Way, Suite 106
Auburn, California 95603
Phone (530) 885-6160
E-Mail info@peektelecom.com

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NO.	DESCRIPTION	DATE	BY
1	100% ZONING DOC'S	4-28-09	VRT
2	100% ZONING DOC'S	5-11-09	SAD
3	REV. 100% ZONING DOC'S	7-7-09	VRT
4	REV. 100% ZONING DOC'S	7-29-09	JAR

PROJECT: HARRISON
DRAWING TITLE: TITLE SHEET

DESIGNED BY	DATE	SCALE
CHECKED BY	DATE	AS NOTED
DRAWN BY	DATE	DATE
PROJECT NO.	DATE	DATE
SHEET	OF	

LEGEND	PROJECT SUMMARY	SHEET INDEX
--- A --- ANTENNA CABLE (ABOVE GROUND)	SITE NAME: HARRISON	T TITLE SHEET
--- T --- TELEPHONE SERVICE (ABOVE GROUND)	SITE NUMBER: 250972	C-1 SURVEY SHEET
--- E --- POWER SERVICE (ABOVE GROUND)	SITE ADDRESS: 2327 26th STREET, EUREKA, CA 95501	A-1 SITE PLAN
--- G --- GROUND RING (ABOVE GROUND)	SITE CONTACT: JAZZ JAZZ STREET, EUREKA, CA 95501	A-2 ELEVATIONS
--- A --- ANTENNA CABLE (BURIED)	OWNER: OMNIPOINT COMMUNICATIONS, INC.	
--- T --- TELEPHONE SERVICE (BURIED)	OWNER ADDRESS: 1755 CRESCENTE OAKS DRIVE, SACRAMENTO, CALIFORNIA 95833	
--- E --- POWER SERVICE (BURIED)	APPLICANT: OMNIPOINT COMMUNICATIONS, INC.	
--- G --- GROUND RING (BURIED)	APPLICANT ADDRESS: 1755 CRESCENTE OAKS DRIVE, SACRAMENTO, CALIFORNIA 95833	
	ASSESSORS PARCEL NUMBER(S): 12-181-000	
	CURRENT ZONING: RM	
	LATITUDE: 42° 17' 11.2" N.	
	LONGITUDE: 122° 08' 22.6" W.	

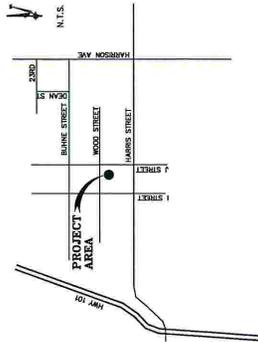
CONTACTS

D.E. ENGINEERS
OMNIPOINT COMMUNICATIONS INC.
1755 CRESCENTE OAKS DRIVE
SACRAMENTO, CALIFORNIA 95833

CONSTRUCTION MANAGER
BOB KELLER (925) 208-0378
OMNIPOINT COMMUNICATIONS INC.
1755 CRESCENTE OAKS DRIVE
SACRAMENTO, CALIFORNIA 95833

SUBJECT
SEEKING
1225 HIGH STREET
AUBURN, CA 95603
(530) 885-6160

VICINITY MAP



EUREKA, CA

HARRISON
Title Sheet
Site No. SF40972

KEY NOTES:

1. NEW BTS UNITS
2. NEW 200 AMP ELECTRICAL SERVICE SUPPORT
3. NEW 200 AMP ELECTRICAL SERVICE CABINET
4. UNSHIELD SUPPORT COAX CABLE TRAY
5. NEW MONOPOLE
6. NEW 200A METER & MAIN BREAKER IN NEW RACK
7. NEW 200A METER & MAIN BREAKER IN NEW RACK
8. NEW 200A METER & MAIN BREAKER IN NEW RACK
9. NEW T-MOBILE WIRELESS ANTENNAS
10. NEW 100W T-MOBILE SITE LIGHT AT 8' AGL
11. NEW 100W T-MOBILE SITE LIGHT AT 8' AGL
12. NEW U/G ELEC CONDUIT NEW & FUTURE BTS UNITS
13. NEW U/G TELCO CONDUIT RUN
14. NEW 1" CONC SLAB W/ 4" W/4" AND
15. NEW 6" CONCRETE SIDEWALK
16. NEW 6" CONCRETE SIDEWALK
17. NEW CONDUITS FOR U/G COAX CABLE RUN
18. NEW CONDUITS STUBBED UP 6" ABOVE GRADE
19. NEW MONOPOLE CONCRETE FOUNDATION
20. NEW DOUBLE 5" WIDE CHAIN LINK GATES
21. NEW 400A MODULAR (2) METER METER RACK

REVISED

SITE ADDRESS

237 DEAN STREET
DUNN, GA 30128



OMNIPoint COMMUNICATIONS
1705 Cascade Oaks Drive, Suite 100 - Norcross, GA 30052

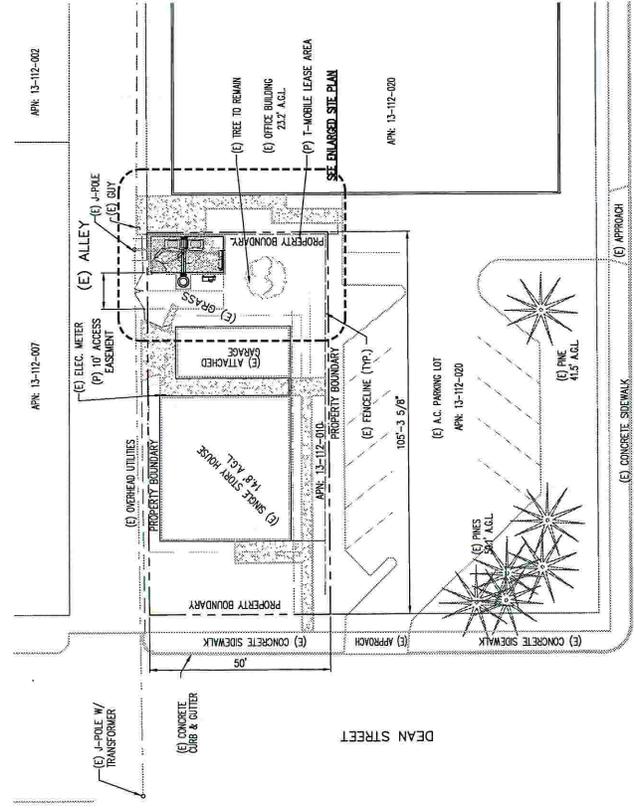
Peek Site-Com
853 Lincoln Way, Suite 106
Auburn, California 95603
Phone (530) 885-6160
E-Mail info@peeksitecom.com

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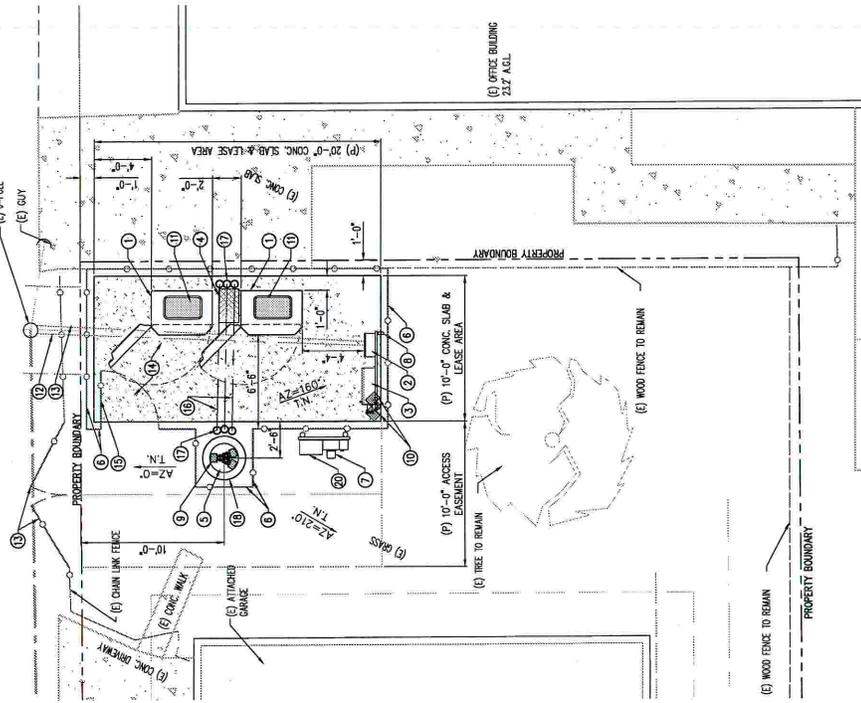
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1	BOX ZONING DOC'S	4-28-09	VRT
2	LOCAL ZONING DOC'S	5-11-09	SAD
3	REV. LOCAL ZONING DOC'S	7-7-09	VRT
4	REV. LOCAL ZONING DOC'S	7-20-09	UMR

PROJECT: **HARRISON**
DRAWING TITLE: **SITE PLAN**

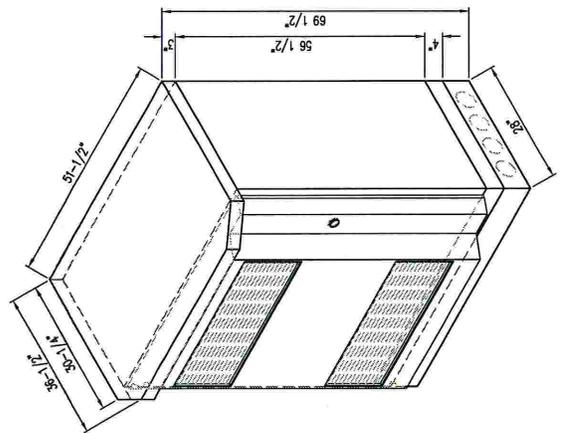
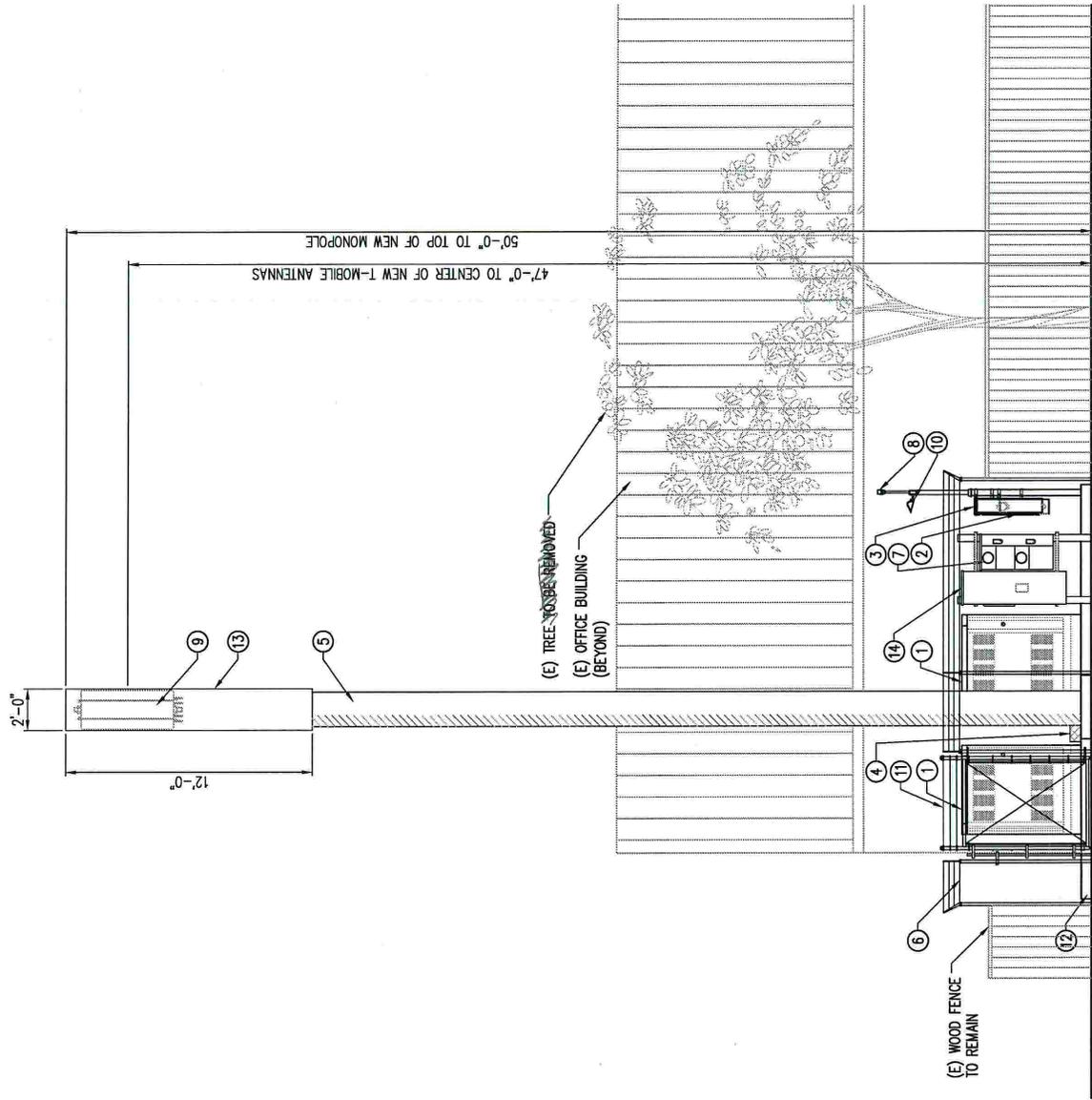
PROJECT NO. SF 60772	DRAWN BY VRT	CHECKED BY	SCALE AS NOTED
DRAWING NO. A-1	DATE 4-28-09	PRINTED	SHEET OF

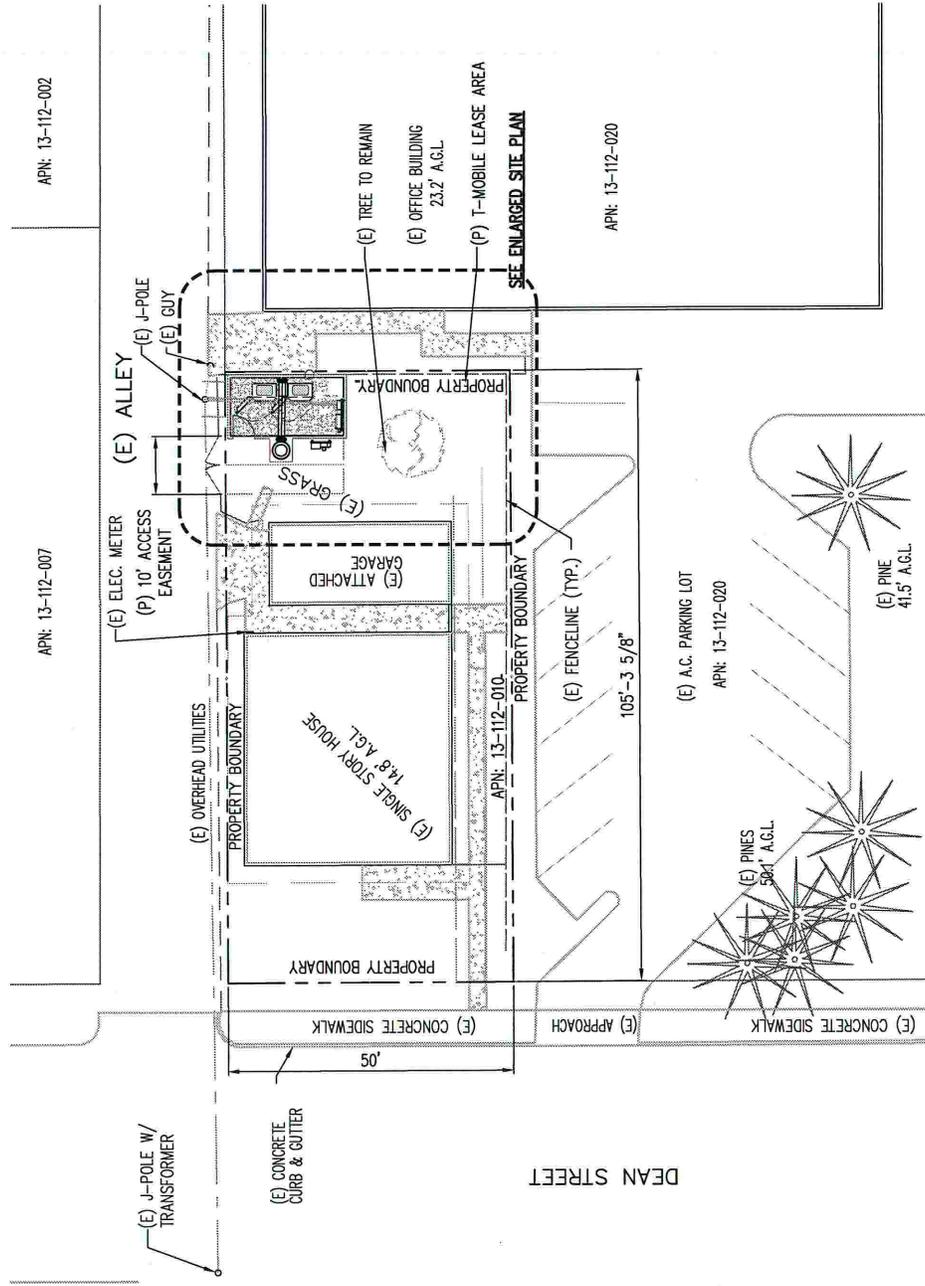


OVERALL SITE PLAN
1/16" = 1'-0"



ENLARGED SITE PLAN
1/4" = 1'-0"





APN: 13-112-002

APN: 13-112-007

APN: 13-112-020

SEE ENLARGED SITE PLAN

DEAN STREET

(E) ALLEY
(E) J-POLE
(E) GUY

(E) ELEC. METER
(P) 10' ACCESS EASEMENT

(E) OVERHEAD UTILITIES

(E) CONCRETE CURB & GUTTER

(E) CONCRETE SIDEWALK

(E) APPROACH

(E) SINGLE STORY HOUSE
14.8' A.G.L.

(E) ATTACHED GARAGE

(E) GRASS

(E) TREE TO REMAIN
(E) OFFICE BUILDING
23.2' A.G.L.

(P) T-MOBILE LEASE AREA

(E) FENCELINE (TYP.)

105'-3 5/8"

(E) AC. PARKING LOT
APN: 13-112-020

(E) PINES
58ft' A.G.L.

(E) PINE
41.5' A.G.L.

PROPERTY BOUNDARY

PROPERTY BOUNDARY

PROPERTY BOUNDARY

PROPERTY BOUNDARY

APN: 13-112-010

PROPERTY BOUNDARY

PROPERTY BOUNDARY

PROPERTY BOUNDARY

PROPERTY BOUNDARY

SEE ENLARGED SITE PLAN

LDING
3.L

E LEASE AREA

PLAN

2-020

18 NEW MONOPOLE C
19 NEW DOUBLE 5' V
20 NEW 400A MODUL

REVISED

SITE

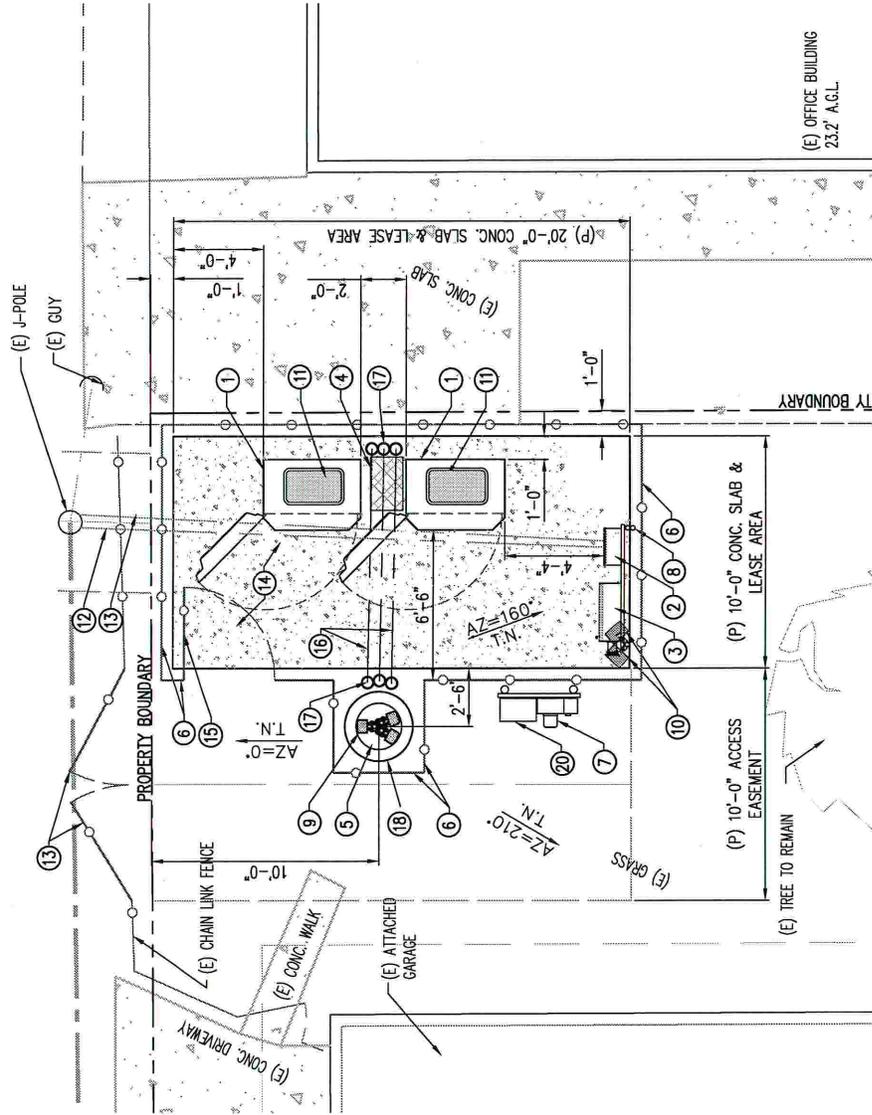
T.O.
OMNIPON
1765 Crestside Oaks

Peek

853 Lin
Auburn,
Phone 1

E-Mail

This drawing contains
property of T.O.
or duplicate herein, write



(E) OFFICE BUILDING
23.2' A.G.L.

KEY NOTES:

- 1 NEW BTS UNITS
- 2 NEW TELCO CABINET ON UNISTRUT SUPPORT
- 3 NEW 200A METER & MAIN BREAKER ON ELECTRICAL PANEL ON UNISTRUT SUPPORT
- 4 NEW FULLY ENCLOSED COAX CABLE TRAY
- 5 NEW MONOPOLE
- 6 NEW 6' TALL CHAIN LINK FENCE
- 7 NEW 200A METER & MAIN BREAKER IN NEW SITE MODULAR (2) METER RACK
- 8 NEW GPS UNIT TO MOUNT TO NEW UNISTRUT
- 9 NEW T-MOBILE WIRELESS ANTENNAS TYP. OF (1) PROPOSED PER SECTOR FOR CLOSURE OF (3) ANTENNAS IN NEW RADOME
- 10 NEW 100W T-MOBILE SITE LIGHT AT 8' AGL
- 11 NEW SPLICE BOX UNDER NEW & FUTURE BTS UNITS
- 12 NEW U/G ELEC. CONDUIT RUN
- 13 NEW U/G TELCO CONDUIT RUN
- 14 NEW 6" THK. CONG. SLAB WITH REBAR AT T-MOBILE SLAB FOR T-MOBILE
- 15 NEW 4' WIDE ACCESS GATE
- 16 NEW 6"Ø CONDUITS FOR U/G COAX CABLE RUN
- 17 NEW CONDUITS STUBBED UP 6" ABOVE GRADE FOR NEW COAX CABLES TO MONOPOLE
- 18 NEW MONOPOLE CONCRETE FOUNDATION
- 19 NEW DOUBLE 5' WIDE CHAIN LINK GATES
- 20 NEW 400A MODULAR (2) METER METER RACK

REVISED

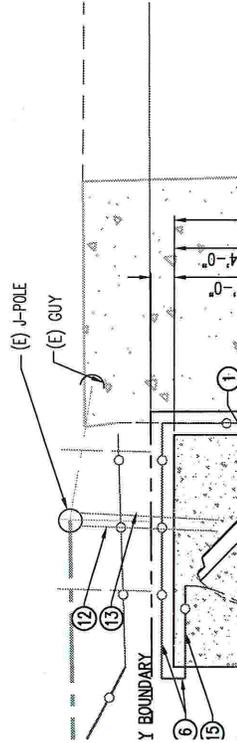




Photo taken from Dean Street looking east down the alley



Photo taken from the alley looking west



Photo taken from the alley looking eastward

Reference Power Pole in the alley near the location of the proposed Monopole



Photo taken from the alley looking south

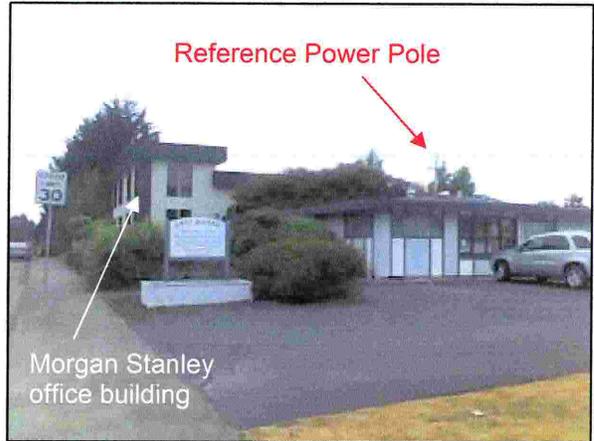
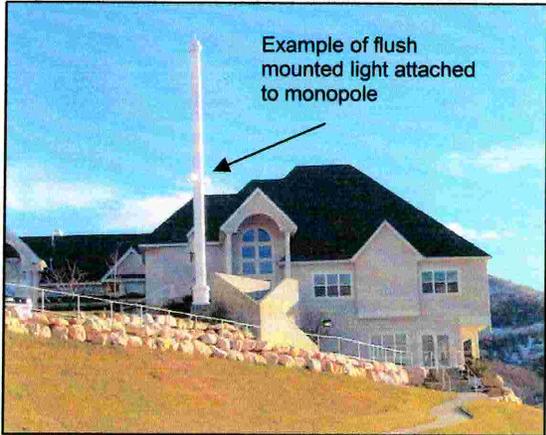


Photo taken from Buhne Street looking northwest

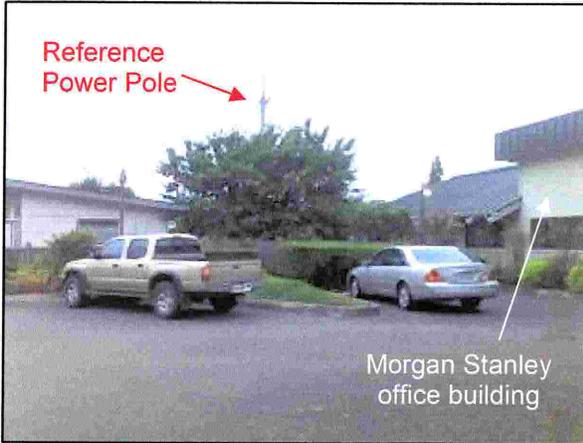


Photo taken from Morgan Stanley office building parking lot looking northeast

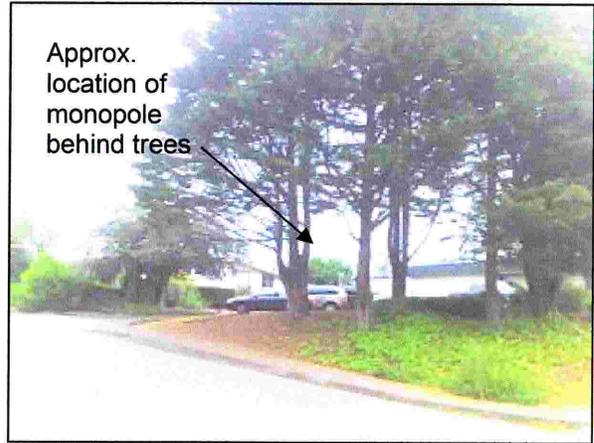


Photo taken from corner of Dean and Buhne Streets looking northeast



Photo's taken from Buhne Street looking north. The proposed monopole would be approximately 116 feet back from sidewalk beyond the parking lot and behind the existing trees and landscaping,

REVISED

PWM INC.

P.O. Box 1032 2039 Williams Street, Eureka, CA. 95502 Phone: (707) 442-8420 Fax: (707) 442-8499

June 29, 2009

Ms. Sidnie Olson
Senior Planner, City of Eureka
531 K Street
Eureka, California 95501

RECEIVED

JUL 28 2009

DEPARTMENT OF
COMMUNITY DEVELOPMENT

Re: T-Mobile 2327 Dean Street-Wireless Facility

Dear Ms. Olson:

Attached is an application for a new T-Mobile Wireless Facility at the above address composed of a fifty (50) foot monopole and a site for two wireless transmitting- receiving cabinets.

Project Description: The project is composed of the construction of a fifty (50) foot high, twenty-four (24) inch diameter painted steel pole for T-Mobile cellular monopole and a 200 sq. foot areas for cellular cabinets in back of the hospital/medical zoned building at 2327 Dean Street, a developed 50' x 105' 7/10 ft. parcel in the Buhne Street/Harrison Avenue area of the City of Eureka. The wireless/cellular pole would be a monopole design with three concealed antennas within a plastic enclosure cover (radome) *without* top lighting. The foundation for the monopole (pending a soils report) would be approximately seven (7) feet square and seven (7) feet in depth located at the back of the building within the existing lawn area. The total number of cubic yards of soil to be removed from the site is twelve one-half (12 1/2) yards. The remainder of the existing lawn and tree would remain. A battery cabinet would be used for temporary power outages. Electrical and telephone services are available from the alley adjacent to the site.

The site is adjacent to the Morgan Stanley Office Building and an unoccupied former residence that is now vacant and being considered for office type uses. Other buildings in the area are various medical offices and related uses such as Humboldt Radiology, St. Joseph Outpatient Imaging, the old General Hospital, a Medical Marijuana Consulting Office and a Sempervirons Clinic across the street. The medical/office buildings are concentrated along the east end of Buhne Street and on the north and south sides of Harrison Street and include a Coast Central Credit Union Building. Residential buildings are located to the west of the site along Buhne Street.

Cellular carriers do not have adequate coverage in the Harrison-Buhne area for wireless in home coverage including voice and data transmissions. There are no other poles in the area that are available to duplicate this site. T Mobile, a new carrier to Eureka, has determined that this site is necessary to provide cellular service for low power

communication devices including hand held cellular phones with features included such as the Blackberry listed below:

- Camera (3.2 MP)
- Built-in GPS
- Media Player
- Video Recording
- BlackBerry® Maps
- Wireless Email
- Organizer
- Browser
- Phone
- Corporate Data Access
- SMS/MMS
-

It should be noted that the cellular industry provides the City of Eureka with sales tax revenue from the sale of all cellular products, the sale of supplies and tools during and after construction of facilities, substantial purchases of construction tools and equipment and consistent use of construction equipment rentals. Consumer spending by the industry and related employees are another source of sales tax revenue. The City of Eureka also receives property taxes on the real estate and equipment improvements required by the various Communication companies. All of the above add to the overall economic benefits to the local economy.

Respectfully,

PWM Inc.

Thomas J. McMurray Jr.

President

TJM/tjm

cc: City Manager

COMMUNICATIONS

Tower Development & Site Management

REAL ESTATE

Consulting, Development and Management

CONSTRUCTION

Materials & Project Management



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Antenna Structure Registration

RECEIVED

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JUL 28 2009

[FCC Site Map](#)

TOWAIR Determination Results

[New Search](#) [Printable Page](#)

DEPARTMENT OF [HELP](#)
COMMUNITY DEVELOPMENT

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

PASS SLOPE(50:1): NO FAA REQ-RWY 10499 MTRS OR LESS & 4160.82 MTRS (4.16080) KM AWAY

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	40-48-1.00N	124-06-32.00W	MURRAY FIELD	HUMBOLDT, EUREKA, CA	0.9	914.39999999999998

PASS SLOPE(50:1): NO FAA REQ-RWY 10499 MTRS OR LESS & 6210.90 MTRS (6.21089) KM AWAY

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	40-46-37.00N	124-12-44.00W	EUREKA MUNI	HUMBOLDT, EUREKA, CA	2.7	823.0

Your Specifications

NAD83 Coordinates

Latitude: 40-46-14.4 north
Longitude: 124-08-20.8 west

Measurements (Meters)

Overall Structure Height (AGL)	15.2
Support Structure Height (AGL)	15.2
Site Elevation (AMSL)	33.2

Structure Type

POLE - Any type of Pole

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

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Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Phone: 1-877-480-3201
TTY: 1-717-338-2824
[Submit Help Request](#)

T-Mobile

1855 Gateway Blvd. 9th Floor
Concord, CA 94520

SF40972 – PWM Harrison

T-Mobile RF design plan proposes a communications facility located at the address **2327 Dean Street, Eureka, CA 95501**. The proposed T-mobile communications facility would be Co-located on a structure owned by **PWM** at a height of **50'** above ground level.

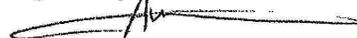
T-Mobile currently has no existing sites in the area, and site **SF40972** would be a neighbor of **4** other site locations proposed by T-Mobile to provide coverage to the objective area. Site **SF40972** is necessary for the designed sites being able to cover the targeted area. T-Mobile current RF design plan proposes a total of **5** sites within city of **Eureka**.

The site **SF40972** is necessary to provide coverage to a **large Residential and Commercial area in the city of Eureka**. The site would provide coverage along **Harrison Ave up to Myrtle Ave and down to Harris Street**. Site will also provide coverage along **Buhne Street between S Street and Harrison Ave and East to Myrtle Ave**. Site **SF40972** will also provide coverage to the **St. Joseph Hospital**.

The communication facility at site **SF40972** will utilize the installation of **3** panel antennas at a height of **50** ft AGL with a maximum output of **400** Watts / channel.

Executed on the day of **Tuesday, March 17th 2009**.

Signed By



Amr Kharaba
RF Engineer – T-Mobile



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
RADIO AND TELEVISION

WILLIAM F. HAMMETT, P.E.
DANE E. ERICKSEN, P.E.
STANLEY SALEK, P.E.
MARK D. NEUMANN, P.E.
ROBERT P. SMITH, JR.
RAJAT MATHUR, P.E.
FERNANDO DIZON
ROBERT L. HAMMETT, P.E.
1920-2002
EDWARD EDISON, P.E.

BY E-MAIL TJMACJR@PACBELL.NET

July 7, 2009

Mr. Thomas T. McMurray
PWM, Inc.
2039 Williams Street
Eureka, California 95501

Dear Tom:

As you requested, we have analyzed the RF exposure conditions near the T-Mobile West Corp. base station (Site No. SF40972) proposed to be located at 2327 Dean Street in Eureka, California. An electronic copy of our report is enclosed. Fields in publicly accessible areas at the site are calculated to be well below the applicable limits.

We appreciate the opportunity to be of service and would welcome any questions on this material. Please let me know if we may be of additional assistance.

Sincerely yours,

William F. Hammett

nrs

Enclosure

**T-Mobile West Corp. • Proposed Base Station (Site No. SF40972)
2327 Dean Street • Eureka, California**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of T-Mobile West Corp., a personal wireless telecommunications carrier, to evaluate the base station (Site No. SF40972) proposed to be located at 2327 Dean Street in Eureka, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Prevailing Exposure Standards

The U.S. Congress requires that the Federal Communications Commission (“FCC”) evaluate its actions for possible significant impact on the environment. In Docket 93-62, effective October 15, 1997, the FCC adopted the human exposure limits for field strength and power density recommended in Report No. 86, “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements (“NCRP”). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, “Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” includes similar exposure limits. A summary of the FCC’s exposure limits is shown in Figure 1. 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.

The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

<u>Personal Wireless Service</u>	<u>Approx. Frequency</u>	<u>Occupational Limit</u>	<u>Public Limit</u>
Broadband Radio (“BRS”)	2,600 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Advanced Wireless (“AWS”)	2,100	5.00	1.00
Personal Communication (“PCS”)	1,950	5.00	1.00
Cellular Telephone	870	2.90	0.58
Specialized Mobile Radio (“SMR”)	855	2.85	0.57
Long Term Evolution (“LTE”)	700	2.33	0.47
[most restrictive frequency range]	30–300	1.00	0.20

General Facility Requirements

Base stations typically consist of two distinct parts: the electronic transceivers (also called “radios” or “channels”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are often located at ground level and are connected to the antennas by coaxial cables



**T-Mobile West Corp. • Proposed Base Station (Site No. SF40972)
2327 Dean Street • Eureka, California**

about 1 inch thick. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. Along with the low power of such facilities, this means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

The FCC provides direction for determining compliance in its Office of Engineering and Technology Bulletin No. 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation," dated August 1997. Figure 2 attached describes the calculation methodologies, reflecting the facts that a directional antenna's radiation pattern is not fully formed at locations very close by (the "near-field" effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the "inverse square law"). The conservative nature of this method for evaluating exposure conditions has been verified by numerous field tests.

Site and Facility Description

Based upon information provided by T-Mobile, including drawings by Peek Site-Com, dated April 28, 2009, it is proposed to mount three Andrew Model TMBXX-6516-R2M directional panel antennas with the top of a 50-foot pole to be sited behind the garage of the one-story residence located at 2327 Dean Street in Eureka, California. The antennas would be mounted at an effective height of about 47 feet above ground and would be oriented toward 0°T, 160°T, and 230°T. The maximum effective radiated power in any direction would be 1,600 watts, representing the simultaneous operation of two PCS channels and two AWS channels at 400 watts each. There are reported no other wireless telecommunications base stations installed nearby.

Study Results

For a person anywhere at ground, the maximum ambient RF exposure level due to the proposed T-Mobile operation is calculated to be 0.0031 mW/cm², which is 0.31%* of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building would be 0.55%† of the public limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels.

* That is, 99.69% below the standard.

† That is, 99.45% below the standard.



**T-Mobile West Corp. • Proposed Base Station (Site No. SF40972)
2327 Dean Street • Eureka, California**

Recommended Mitigation Measures

Due to their mounting location, the T-Mobile antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. It is presumed that T-Mobile will, as an FCC licensee, take adequate steps to ensure that its employees or contractors comply with FCC occupational exposure guidelines whenever work is required near the antennas themselves.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that the base station proposed by T-Mobile West Corp. at 2327 Dean Street in Eureka, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2011. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



William F. Hammett
William F. Hammett, P.E.

July 7, 2009

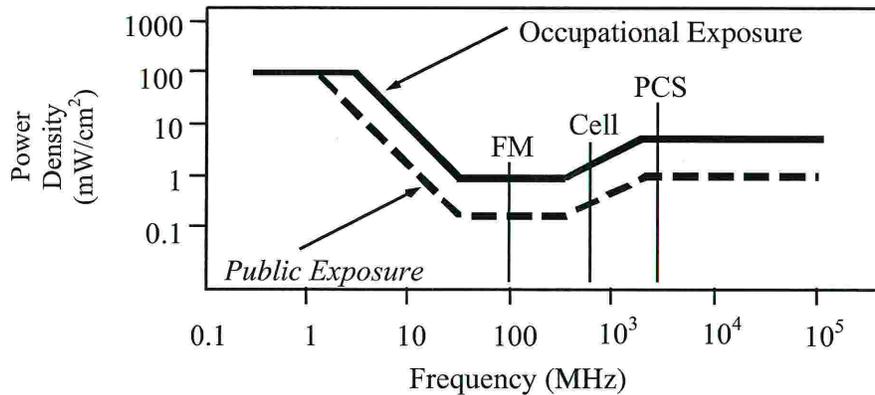


FCC Radio Frequency Protection Guide

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, “Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements (“NCRP”). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, “Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:

Frequency Applicable Range (MHz)	Electromagnetic Fields (f is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm ²)	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f²</i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f ²	<i>180/f²</i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√f	<i>1.59√f</i>	√f/106	<i>√f/238</i>	f/300	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.



RFR.CALC™ Calculation Methodology

Assessment by Calculation of Compliance with FCC Exposure Guidelines

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

Near Field.

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm²,

and for an aperture antenna, maximum power density $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$, in mW/cm²,

where θ_{BW} = half-power beamwidth of the antenna, in degrees, and
 P_{net} = net power input to the antenna, in watts,
 D = distance from antenna, in meters,
 h = aperture height of the antenna, in meters, and
 η = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

Far Field.

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

power density $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$, in mW/cm²,

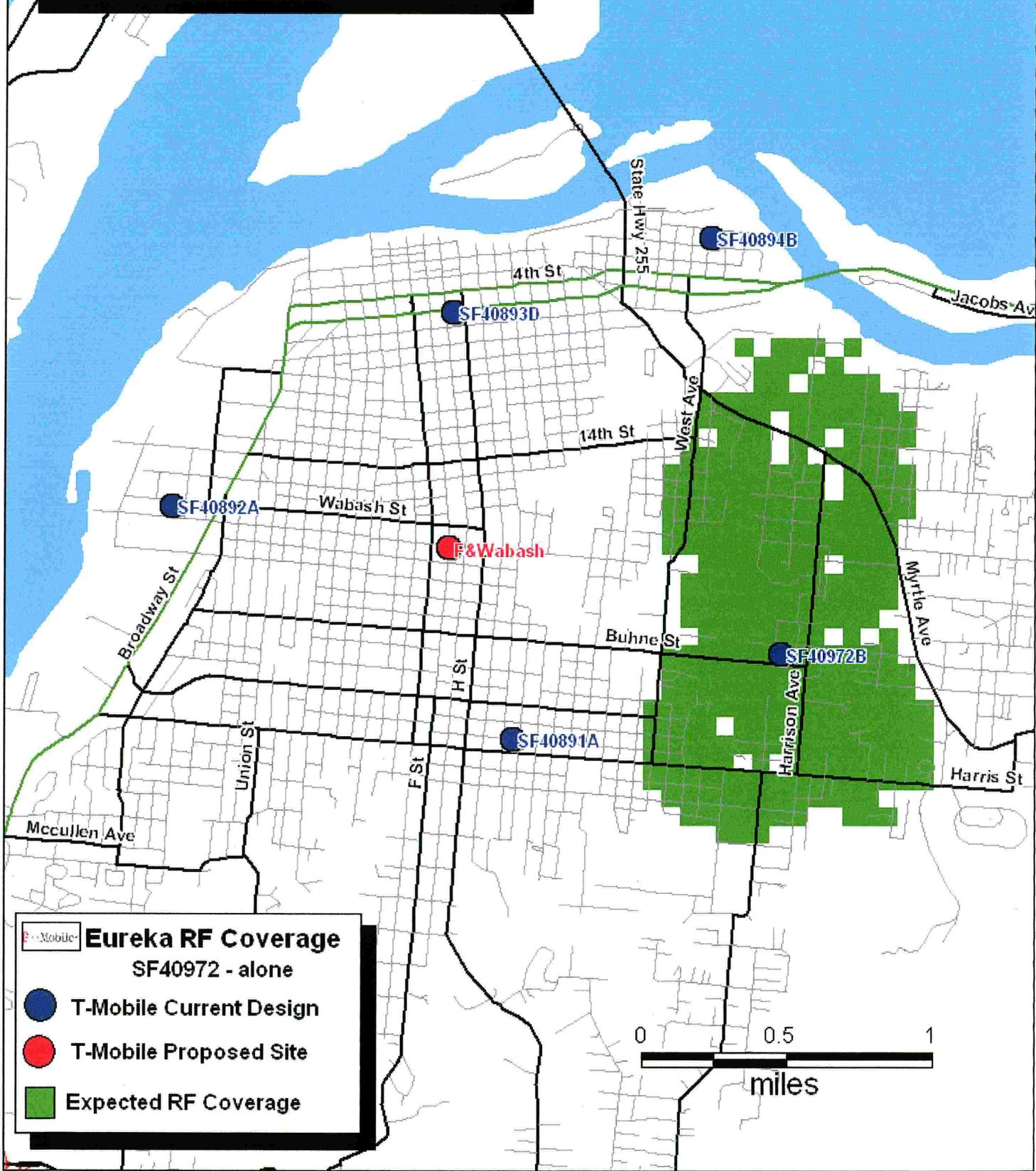
where ERP = total ERP (all polarizations), in kilowatts,
RFF = relative field factor at the direction to the actual point of calculation, and
D = distance from the center of radiation to the point of calculation, in meters.

The factor of 2.56 accounts for the increase in power density due to ground reflection, assuming a reflection coefficient of 1.6 (1.6 x 1.6 = 2.56). The factor of 1.64 is the gain of a half-wave dipole relative to an isotropic radiator. The factor of 100 in the numerator converts to the desired units of power density. This formula has been built into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radiation sources. The program also allows for the description of uneven terrain in the vicinity, to obtain more accurate projections.



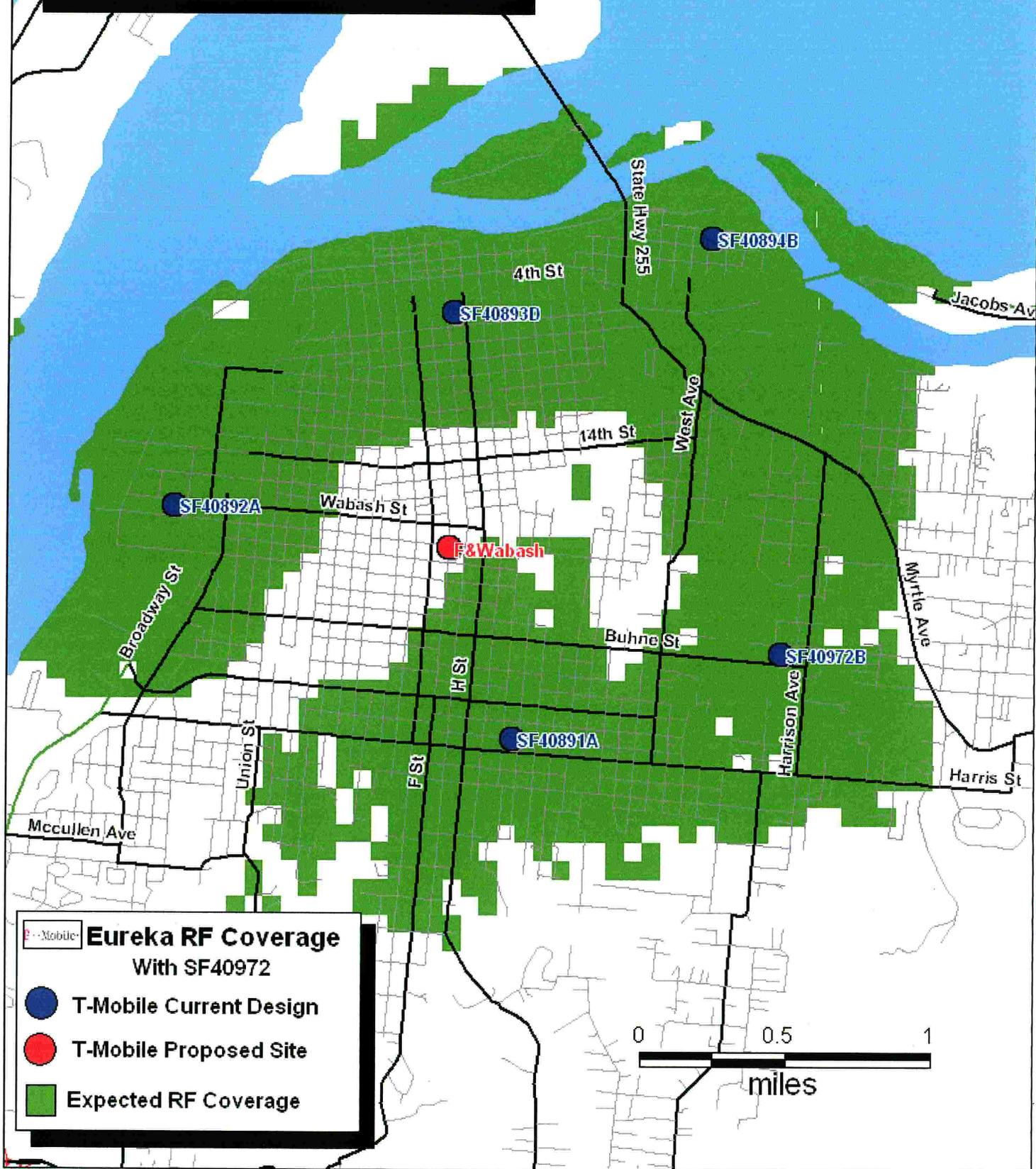
CITY OF EUREKA - CA

SF40972 - Harrison Ave



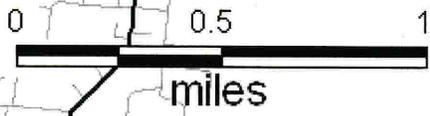
CITY OF EUREKA - CA

SF40972 - Harrison Ave



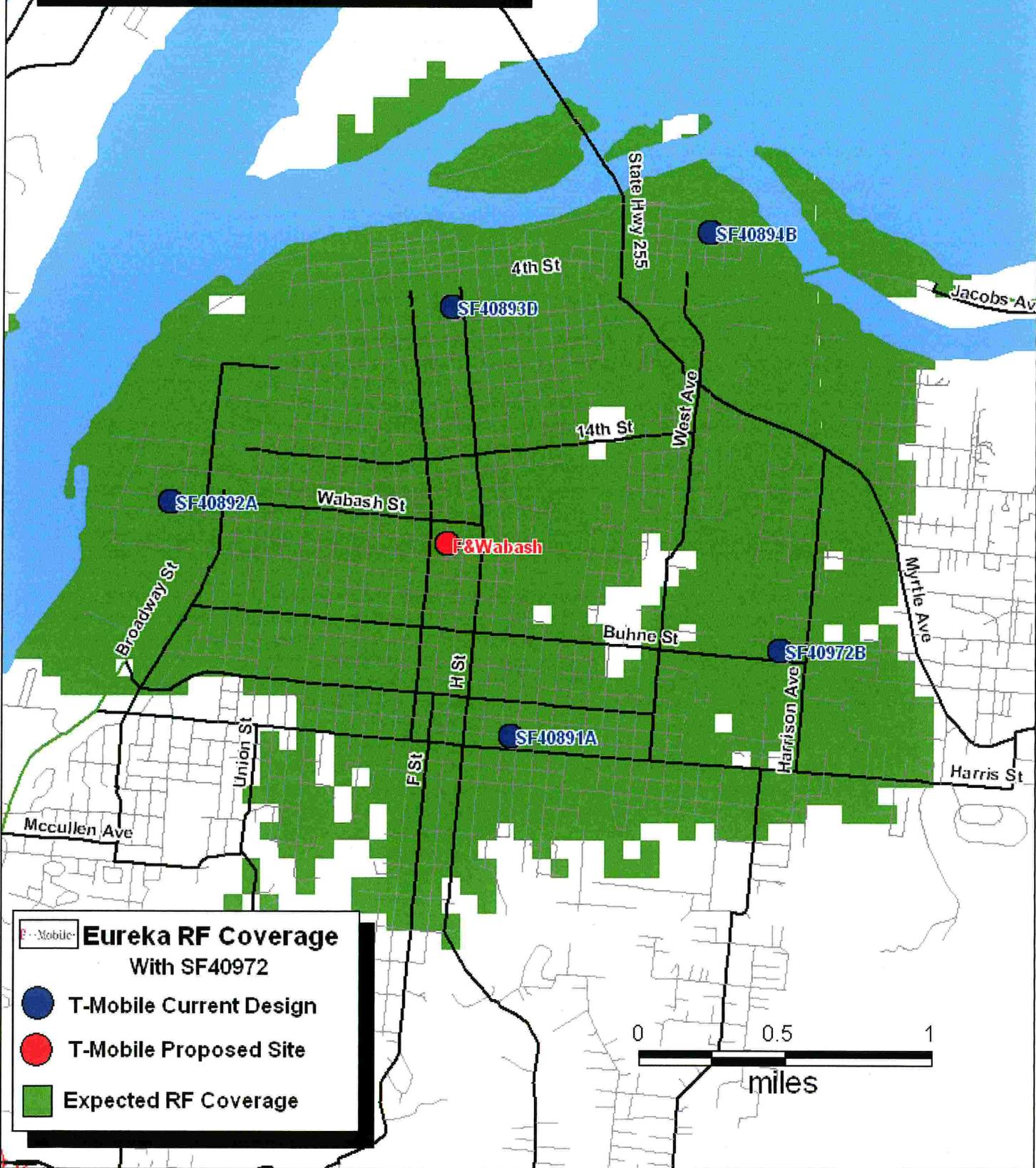
Eureka RF Coverage
With SF40972

-  T-Mobile Current Design
-  T-Mobile Proposed Site
-  Expected RF Coverage



CITY OF EUREKA - CA

SF40972 - Harrison Ave



Eureka RF Coverage
With SF40972

-  T-Mobile Current Design
-  T-Mobile Proposed Site
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CITY OF EUREKA - CA

SF40972 - PWM HARRISON

