CITY OF
MUKILTEO

REQUEST FOR COMMENTS

DATE: June 21, 2018

	Alderwood Water District – (Dan Sheil / Scott Smith)		Puget Sound Clean Air Agency (Beth Carper)
	Burlington Northern Santa Fe Railway (Marvinique Hill)	X	Puget Sound Energy (Dom Amor)
	City of Edmonds (Rob Chave)		Puget Sound Regional Council
	City of Everett (Allan Giffen)		Seattle Dist. Corps of Engineers (Dept. Army-Reg. Branch)
	City of Everett (Steve Ingalsbe)		Snohomish Co. Airport/Paine Field (A. Rardin/R. Zulauf)
	City of Lynnwood (Paul Krauss)		Snohomish Co. Assessor's Office ***(Ordinances Only)***
	City of Mill Creek (Tom Rogers)		Snohomish Co. Conservation District
X	City of Mukilteo (Building Official)		Snohomish Co. Environmental (Cheryl Sullivan)
X	City of Mukilteo (Fire Chief)		Snohomish Co. Fire District #1 (Kevin Zweber)
X	City of Mukilteo (Fire Marshal)		Snohomish Co. Marine Res. Comm. (Kathleen Herrmann)
X	City of Mukilteo (Engineering "In-Box")		Snohomish Co. Planning & Dev. Srvc. (Darryl Easton)
X	City of Mukilteo (Com. Dev. Dir.)**(Postcard/Notice only)**		Snohomish Co. Public Works (Shannon Flemming)
X	City of Mukilteo (Police, Cheol Kang, Myron Travis)	X	Snohomish Co. PUD: Dist. Eng. Services (Mary Wicklund)
X	Comcast of Washington (Casey Brown, John Warrick)		Snohomish Health District (Bruce A. Straughn)
	Community Transit (Kate Tourtellot)		Sound Transit Authority (Perry Weinberg)
	Dept. of Commerce (Growth Mgmt. Svcs Rev. Team)	X	Tulalip Tribes – (Zachary Lamebull)
	Dept. of Natural Resources (James Taylor)	X	Tulalip Tribes – (Richard Young)
	FAA/Air Traffic Division, ANM-0520 (Daniel Shoemaker)	X	United States Postal Service (Soon H. Kim)
	FEMA (John Graves)	X	Verizon Company of the NW, Inc. (Tim Rennick.)
	Island County MRC (Rex Porter) (*Shoreline Only)*		Washington Dept. of Ecology (Peg Plummer)
	Master Builders King/Sno. Counties (Mike Pattison)		Washington Dept of Fish & Wildlife (Jamie Bails)
X	Mukilteo Beacon (Editor) **(Postcard/Notice only)**	X	WSDOT (Scott Rodman)
X	Mukilteo School District (Cindy Steigerwald)	X	WSDOT (Ramin Pazooki)
X	Mukilteo School District (Josette Fisher)		WSDOT Ferries(Kojo Fordjour) (*Shoreline Only)*
X	Mukilteo Tribune (Editor) **(Postcard/Notice only)*)***		WRIA 7 Water Resources
X	Mukilteo Water & Wastewater District (Jim Voetberg, Manager; Rick Matthews; Kendra Chapman)	X	Planning Commission ***(Postcard Only)***
	National Marine Fishery Service		Adjacent Property Owners
X	Office of Archaeology & Historic Pres. (Allyson Brooks)	X	Applicant/Contact Person ***(Notice Only)***
	Ogden, Murphy, Wallace (Angela Summerfield) ***(Ordinances Only)***	X	Parties of Interest
	Pilchuck Audubon Society (President)	X	Parties of Record
	Port of Everett (Graham Anderson)	X	Property Owners within 300' ***(Postcard/Notice Only)***
			Other:

FILE NO.: WCF 2018-001

PROPONENT: Gary Abrahams representing T-Mobile on behalf of Mukilteo Property Co. LLC

PROJECT NAME: T-Mobile Wireless Communication Facility

PROJECT DESCRIPTION: Installation of a new wireless communication facility on top of an existing building. The existing penthouse on the roof will be extended by ten feet and T-Mobile's antennas and associated equipment will be located with the penthouse extension, with the radio cabinets to be located within an existing storage room at grade level. Access to the roof will be via a new hatch in the roof.

FILE NO.: WCF 2018-001

PROPONENT: Gary Abrahams representing T-Mobile on behalf of Mukilteo Property Co. LLC

PROJECT NAME: T-Mobile Wireless Communication Facility

ATTACHED IS:

X	Notice of Application	X	Building Elevations
X	Location Map	X	Non-Ionizing Electromagnetic Radiation Report
X	Application	X	Acoustical Report
X	Narrative Statement(s)	X	RF engineer's affidavit
X	Site Plan (Reduced)	X	Plan Set
X	Photo Simulations		

NOTE: _____

_____

****

Please review this project as it relates to your area of concern and return your comments with this cover sheet by, Monday, July 9, 2018 to Linda Ritter, Senior Planner, City of Mukilteo, 11930 Cyrus Way, Mukilteo, WA 98275.

Linda Ritter
Senior Planner

6/20/18
Date

****

RESPONSE SECTION:

_____ Comments Attached _____ No Comments

COMMENTS: _____

_____

_____ _____
Signature Date

_____
Company

DO YOU WANT A COPY OF OUR NOTICE OF DECISION YES __ NO __

CITY OF MUKILTEO

11930 Cyrus Way
Mukilteo, WA 98275
(425) 263-8000

Notice of Application
for T-Mobile Wireless Communication Facility at 716 3rd Street by Gary Abrahams representing T-Mobile on behalf of Mukilteo Property Co. LLC

Gary Abrahams representing T-Mobile on the behalf of **Mukilteo Property Co. LLC** applied for a Wireless Communication Facility permit with the City of Mukilteo on March 30, 2018. The application became complete on June 18, 2018. This application and all supporting documents are available at City Hall for public viewing. (File No. WCF 2018-001/WCF-BLD 2018-004).

Description of Proposal: New wireless communication facility on top of the existing building. The existing penthouse on the roof will be extended by ten feet and T-Mobile's antennas and associated equipment will be located with the penthouse extension, with the radio cabinets to be located within an existing storage room at grade level. Access to the roof will be via a new hatch in the roof.

Location of Proposal: THOMAS ADD TO MUKILTEO BLK 003 D-00 - LOT 9; otherwise known as 716 3rd Street, Mukilteo, Washington.

Environmental Documents Prepared for the Proposal:

- Acoustical Report prepared by SSA Acoustics dated March 27, 2018
- Non-Ionizing Electromagnetic Radiation Report prepared by Technology Associates

List of Required Permits:

- Wireless Communication Facility
- Building Permit
- Any State and Federal Permits if applicable

Applicable Policies and Requirements

The project will be reviewed for consistency with the following policies, standards and regulations:

- ☐ Possession Shores Master Plan
- ☒ Comprehensive Plan, Shoreline Master Plan
- ☒ International Building Code (2015 Edition)
- ☒ International Fire Code (2015 Edition)
- ☐ Sector Plan & Amendments
- ☒ Mukilteo Municipal Code
- ☒ City of Mukilteo Development Standards

Comment Period
The application and supporting documents are available for review at the City of Mukilteo, 11930 Cyrus Way, Mukilteo, WA 98275. Contact: Linda Ritter, Senior Planner at (425) 263-8043. The public is invited to comment on the project by submitting written comments to the Planning Department at the above address by 4:30 p.m. on the date noted below.

Notice of Application Issued: Monday, June 25, 2018

End of Comment Period: Monday, July 9, 2018

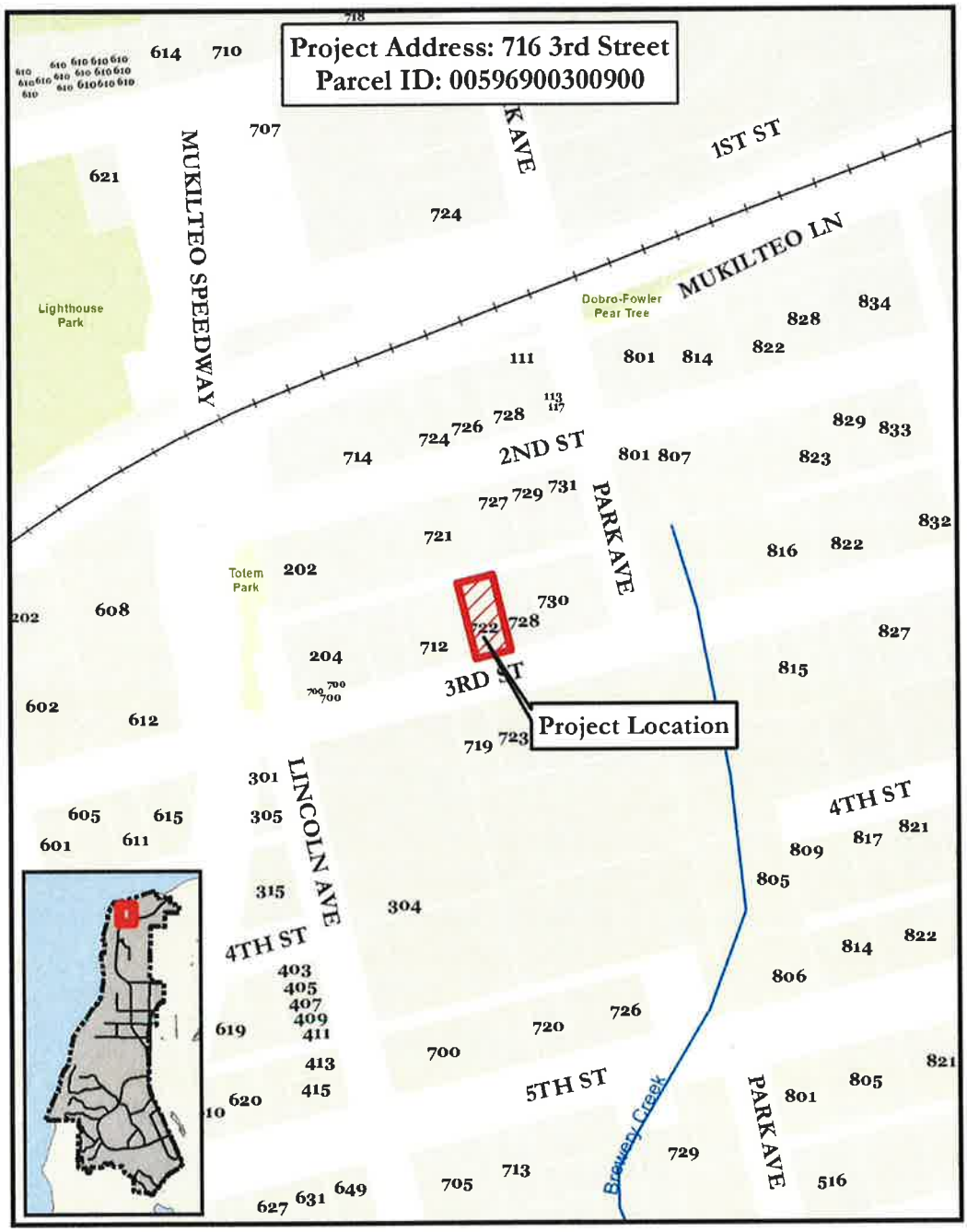
The City will not act on this application until the end of the 14-day public comment period. Upon completion of project review the proposed application will be administratively approved, approved with conditions, or denied. You may request a copy of the final decision on the project by making a written request to the City contact person named below.

Public Hearing
There will not be a public hearing conducted on this project.

Appeals
The final decision on this project is administratively appealable. An appeal must be filed within 14 days after the final decision on the project is issued. Only persons who file written comments on the project in response to the Notice of Application are considered parties of record who may appeal the decision. If you do not file written comments within the comment period, you may not appeal the final decision.

Contact Person: Linda Ritter, Senior Planner (425) 263-8043

Signature: Linda Ritter Date: 6/20/18
Linda Ritter, Senior Planner



Location Map

Date Issued: Monday, June 25, 2018
Date Advertised: Monday, June 25, 2018
End Comment Period: Monday, July 9, 2018

pc: Applicant/Representative
Reviewing Agencies
Interested Parties

CDD Director
Permit Services Supervisor
Permit Services Assistants (2)

Property File
Property Owners 300'

WCF 2018-001

RECEIVED
MAR 30 2018
CITY OF MUKILTEO

CITY OF MUKILTEO

11930 Cyrus Way Mukilteo, WA 98275
Fax (425) 212-2068

Land Use Permit Application

PPR #
SEPA #
Misc #

Applicant:	T-Mobile USA, INC.	Owner:	Mukilteo Property Co. LLC
Address:	c/o PO Box 2006 Bellevue WA 98009	Address:	716-3rd St. Mukilteo, WA 98275
Phone:	206-349-4279	Phone:	425-922-8758

Project Address: 716- 3rd St. Mukilteo

Legal Description of Property: Lot 9 and the East 25 feet of Lot 10, Block 3, Thomas's Addition to town OF MUKILTEO, according to the plat thereof Recorded in Vol 1 of Plats, Page 84, Records of Snohomish County WA

Key Contact Person: Gary Abrahams Phone: 206 349-4279

Fax:

Project Type:

- ☐ Commercial
- ☐ Multi-Family
- ☐ Industrial
- ☐ Shoreline* (JARPA)
- ☐ Conditional Use*
- ☐ Variance*
- ☐ Preliminary Subdivision*
- ☐ Final Subdivision*
- ☐ Preliminary Short Plat*
- ☐ Final Short Plat*
- ☐ Sector Plan Amendment
- ☐ Waterfront Development
- ☐ Single Family Residence
- ☐ Special Use Permit*
- ☐ Reasonable Use
- ☐ Lot Line Adjustment*
- ☐ Grading*
- ☐ Binding Site Plan
- ☐ Project Rezone
- ☒ Other, Specify Wireless

* Need to fill out supplemental application form with project.

Project Resume:

Existing Use:	Retail/Residential	Proposed Use:	Wireless communication facility
Total Site Area:	75' x 110'	Water District:	N/A
Building Foot Print Area:	66'9" x 100'4"	Sewer District:	N/A
Lot Coverage:	N/A No change	# of Proposed Units:	0
No. of Parking Stalls Provided:	N/A	Building Height:	22' 8"
Comp Plan Designation:	Commercial	Zoning:	Downtown Business
Gross Floor Area by Uses:	N/A		

Electric Vehicle Charging Units Provided: Yes ___ No X If Yes, How Many? ___

Solar Panels being installed: Yes ___ No. X If Yes, How Many

Pre-application Meeting Held: (Y/N; date) Yes - 2/26/2018

The information given is said to be true under the penalty of perjury by the laws of the State of Washington.

X _____ X 3/20/2018
Applicant/Authorized Agent Signature **Date**

X _____ for X 3/21/2018
Owners Signature **Date**
Mukilteo Property Co. LLC

O:\FORMS - New 2009\Land Use Permit Application.doc

PROPOSED WIRELESS COMMUNICATOIN FACILITY

T-MOBILE USA, INC.

716-3rd Street, Mukilteo, WA

PROJECT NARRATIVE AND CODE ANALYSIS

The following is the project narrative for this site:

Basis description of the project:

T-Mobile is proposing a new wireless communication facility to be located at 716- 3rd Street, Mukilteo, WA. The existing penthouse on the roof will be extended by ten (10) feet, and T-Mobile's antennas and associated equipment will be located within the penthouse extension, with the radio cabinets to be located within an existing storage room at grade level. Access to the roof will be via a new hatch in the roof.

The square footage on top of the penthouse is approximately 55 square feet.

Location:

The location is 716 – 3rd Street, which is an existing multi use building.

Existing site characteristics:

This is an existing 3 story building at this site which will be utilized for the proposed facility.

Ownership:

Mukilteo Property Co., LLC is the owner of the building.

Infrastructure:

No infrastructure improvements are planned as part of this project.

Grading:

No grading is part of this project.

Scheduling:

Construction is anticipated to start in the 3rd or 4th quarter of 2018.

CODE ANALYSIS

Chapter 17.17
WIRELESS COMMUNICATION FACILITIES (WCF) ATTACHED AND DETACHED

Sections:

17.17.010 Purpose.

In order to implement the purposes and policy set forth in the city's comprehensive plan, this chapter provides design and review procedures for wireless communications facilities. These provisions are intended to provide objective design criteria to assist in minimizing the visually obtrusive impacts which can be associated with wireless communications facilities and to encourage creative approaches in the location and construction of wireless communications facilities. Congress and the Federal Communications Commission ("FCC") have, pursuant to the authority granted by 47 USC Section 253(c) and 47 USC Section 332(a), required local governments to act on wireless communication facility applications within a reasonable period of time and have established time limits or "shot clocks" for local review. Accordingly, the city adopts the following time limits for review of applications for eligible facility requests, and other approvals for service providers of telecommunication services. (Ord. 1403 § 6 (Exh. C) (part), 2017)

17.17.020 Overall performance standards.

A. Wireless Communication Facilities (WCF) (Attached and Detached). Attached and detached wireless communications facilities other than small cell facilities permitted pursuant to Chapter 5.45 or eligible facilities requests shall meet the following performance standards:

1. Light Industrial (LI) Zoning. Detached WCFs located within four hundred feet of the Mukilteo Speedway/SR525 in the light industrial (LI) district shall require a conditional use permit.

2. Separation Distance. In all single-family residential and commercial districts, detached WCFs except for small cell facilities shall be separated by a distance equal to or greater than one thousand three hundred twenty linear feet. WCFs that are colocated upon a single support structure shall count as a single WCF for the purposes of this subsection.

T-Mobile response:
This code section is complied with. There are no adjacent wireless communication facilities.

3. Setbacks. Attached and detached WCFs reviewed under this section shall not be located within any required setback areas; provided, however, the setback requirement for underground facilities shall be a minimum of five feet from any property line, except where:

a. Structures which exceed forty-five feet in height shall be set back from any lot line five feet more than that specified in the individual zone for every ten feet, or fraction thereof, over forty-five feet of height.

b. The required setback, as listed above, may be reduced by the planning director, if the applicant can demonstrate to the planning director's satisfaction that the reduced setback would result in a greater natural vegetative screening of the WCF than would have been provided by meeting the WCF development regulations.

c. All equipment shelters, cabinets, or other on-the-ground ancillary equipment shall meet the setback requirements of the zone in which located, except that the rear setback requirement may be reduced to five feet if the structure meets all other standards.

T-Mobile response:
This section is complied with, and there are no setback issues to be adhered to.

4. Height. In single-family, multifamily residential and public zones the maximum combined height limit shall be sixty feet. In commercial and industrial zones the combined height of the WCF and any support structure shall not exceed eighty-five feet, except when colocation is specifically provided for, the combined height shall not exceed one hundred feet. The applicant shall demonstrate a justification for the proposed height of the structures and an evaluation of alternative designs, which might result in lower heights. Utility poles, streetlights and traffic signals may be exempted from the height limitation at the discretion of the planning director. If additional height over that allowed in the zone is justified, it may be allowed through the conditional use permit process. Due to the proximity of Paine Field Airport to the city, all WCFs shall be approved by the Federal Aviation Administration (FAA) and the Snohomish County Airport at Paine Field to ensure that the facilities are not located within the airport's restricted airspace.

T-Mobile response:
The height limit in the DB zone is 85'. The proposed height of the WCF is below that level. The proposed facility complies with this section.

5. Landscaping. Equipment shelters and cabinets and other on-the-ground ancillary equipment shall be screened using Type I and ten feet of Type III landscaping around the enclosure in accordance with the requirements contained in Chapter 17.58, Landscaping, of the Mukilteo Municipal Code. Support structures shall be landscaped using Type I screening around the compound's perimeter. Trees with significant height and fullness upon maturity shall also be used to visually screen the tower from adjacent properties.

T-Mobile response:
No landscaping is proposed as part of this project.

6. Lighting. Except as specifically requested by the Federal Aviation Administration (FAA), the Federal Communication Commission (FCC), and/or the Snohomish County Airport at Paine Field, transmission structures shall not be illuminated, except transmitter equipment shelters may use lighting for security reasons as long as the light is shielded downward to remain within the boundaries of the site.

T-Mobile response:
No lighting is proposed as part of this application.

7. Concealment Technology. All WCFs shall employ concealment technology in their design, construction, and maintenance and reduce the WCFs' aesthetic impacts to the maximum extent possible. Such concealment technology shall include, at a minimum, the following:

a. All antenna support structures and antennas shall be painted a nonreflective color, approved by the planning director, which blends into the nearby surroundings of the WCF so as to minimize the visual impact of the support structure or antennas.

b. New antenna support structures shall be located in such a manner that existing trees on the site are used to screen the WCF from view from roadways, residences, and other properties; provided, however, that all WCFs shall be designed in a manner which minimizes the need for removal of existing trees.

c. To the maximum extent possible, WCFs shall be designed to resemble an object other than a WCF which is already present in the local environment, such as a tree, a streetlight or a traffic signal. It may include the use of colors or materials to blend into the building materials from which a structure is constructed. Examples of concealment technology include, but are not limited to, the use of innovative site design techniques, existing or new vegetation and landscaping, paint and other surface treatments, alternative antenna configuration and/or

selection, utilization of antenna support structures designed to resemble trees, and any other practice which screens the WCF from observation from roadways, residences, and other properties or otherwise has the effect of reducing the aesthetic impacts associated with the WCF.

T-Mobile response:
The proposed project includes an extension on the roof of the existing building for the antennas and equipment. The penthouse will match the 2nd floor of the building, and will match the color of the building, trim and windows of the existing structure. The proposed project meets the requirement of the concealment technology.

8. Noise. No equipment shall be operated at a WCF (attached or detached) so as to produce noise in excess of the applicable noise standards under Chapter 8.18, except for in emergency situations requiring the use of a backup generator, where the noise standards may be exceeded on a temporary basis. Air conditioning and ventilation equipment associated with the ancillary equipment of the WCF shall be designed and configured in a manner so that noise impacts on adjacent properties with residential uses are minimized to the maximum extent practicable through the use of baffling and/or other noise attenuation techniques and that the noise levels generated by the ancillary equipment otherwise comply with applicable noise regulations adopted by the city. In descending order, preference shall be given to the following configurations of air conditioning and ventilation equipment: (a) orientation toward properties with nonresidential uses; (b) orientation toward streets; and (c) orientation toward the furthest residential use.

T-Mobile response:
A noise report is included with this application showing the facility will comply with all applicable codes.

9. Colocation. It is the policy of the city to minimize the number of detached WCFs and to encourage the colocation of more than one WCF on a single support tower. No new detached WCFs may be constructed unless it can be demonstrated to the satisfaction of the permit authority that existing support towers are not available for colocation of an additional WCF, or that their specific locations do not satisfy the operational requirements of the applicant. In addition, all detached WCFs shall be designed to promote facility and site sharing. All facilities shall make available unused space for colocation of other telecommunication facilities, including space for those entities providing similar, competing services. Colocation is not required if the host facility can demonstrate that the addition of the new service or facilities would impair existing service or cause the host to go offline for a period of time. Nothing in this section shall prohibit the owner of

an existing facility from charging a reasonable fee for colocation of other telecommunications facilities.

T-Mobile response:
The subject proposal is a rooftop installation, and there are no adjacent wireless facilities for collocation.

10. Abandonment and Obsolescence. A WCF shall be removed by the facility owner within six months of the date it ceases to be operational or if the facility falls into disrepair.

11. Maintenance. All WCFs shall be maintained in good and safe condition and in a manner that complies with all applicable federal, state and local requirements.

12. Electromagnetic Emissions. All applicants shall demonstrate compliance with all applicable FCC regulations regarding the radio-frequency emissions of WCFs. If at any time radio-frequency emissions exceed any of the standards established by the FCC, the applicant shall immediately discontinue use of the WCF and notify the city. Use of the WCF may not resume until the applicant demonstrates that corrections have been completed which reduce the radio-frequency emissions to levels permitted by the FCC.

T-Mobile response:
A NIER report is included with this application showing compliance with all FCC regulations.

13. Special Exceptions. When adherence to the development standards would result in a significant gap in coverage for a WCF or prevent an applicant from addressing a significant capacity need, a special exception may be granted by the approval authority if the permit authority determines that the proposal utilizes the least intrusive means of closing the gap in coverage or addressing the capacity need, as applicable. The applicant has the burden of proof of establishing the gap or need and that the proposal is the least intrusive means of so doing.

14. Use of City Right-of-Way. Any telecommunications carrier who desires to construct, install, operate, maintain, or otherwise locate telecommunication facilities in, under, over, or across any public right-of-way of the city for the purpose of providing telecommunications services shall obtain permission from the city, and enter into a right-of-way franchise agreement authorizing use of the city right-of-way. Small cells attached to utility poles, streetlights and traffic signals are exempted from the setback requirements.

15. Conditional Use Permit Criteria. In addition to the performance standards listed in Section 17.64.020, a conditional use permit for a detached WCF other than a small cell in the public

right-of-way shall only be approved if the wireless provider can demonstrate that no other attached WCF alternative(s) are available that can provide the same level of service coverage to the targeted area. (Ord. 1403 § 6 (Exh. C) (part), 2017)

17.17.030 Application review time frame. SHARE

A. Eligible Facilities Request.

1. Application. The director shall prepare and make publicly available an application form which shall be limited to the information necessary for the city to consider whether an application is an eligible facilities request. The application may not require the applicant to demonstrate a need or business case for the proposed modification.

2. Type of Review. Upon receipt of an application for an eligible facilities request pursuant to this chapter, the director shall review such application to determine whether the application qualifies as an eligible facilities request.

3. Time Frame for Review. Within sixty days of the date on which an applicant submits an application seeking approval under this chapter, the director shall approve the application unless it determines that the application is not covered by this section.

4. Tolling of the Time Frame for Review. The sixty-day review period begins to run when the application is filed, and may be tolled only by mutual agreement by the director and the applicant or in cases where the director determines that the application is incomplete. The time frame for review of an eligible facilities request is not tolled by a moratorium on the review of applications.

a. To toll the time frame for incompleteness, the director shall provide written notice to the applicant within thirty days of receipt of the application, clearly and specifically delineating all missing documents or information required in the application.

b. The time frame for review begins running again when the applicant makes supplemental submission in response to the director's notice of incompleteness.

c. Following a supplemental submission, the director will notify the applicant within ten days that the supplemental submission did not provide the information identified in the original notice delineating missing information. The time frame is tolled in the case of second or subsequent notices pursuant to the procedures identified in this subsection. Second or subsequent notice of incompleteness may not specify missing documents or information that was not delineated in the original notice of incompleteness.

5. Determination That Application Is Not an Eligible Facilities Request. If the director determines that the applicant's request does not qualify as an eligible facilities request, the director shall deny the application. In the alternative, to the extent additional information is necessary, the director may request such information from the applicant to evaluate the application under other provisions of this chapter and applicable law.

6. Failure to Act. In the event the director fails to approve or deny a request for an eligible facilities request within the time frame for review (accounting for any tolling), the request shall be deemed granted. The deemed grant does not become effective until the applicant notifies the director in writing after the review period has expired (accounting for any tolling) that the application has been deemed granted.

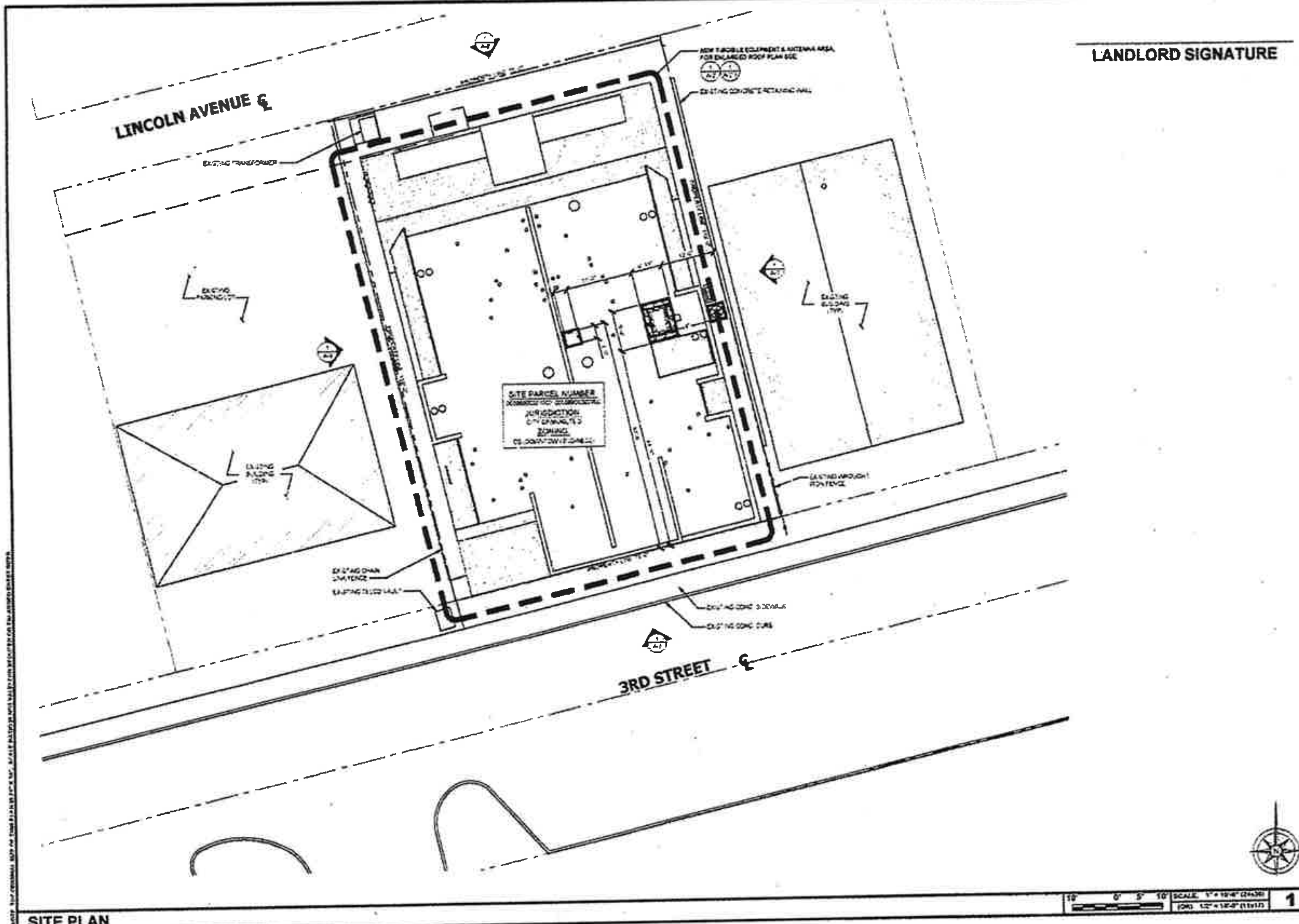
7. Remedies. Both the applicant and the city may bring claims related to Section 6409(a) of the Spectrum Act to any court of competent jurisdiction.

B. Colocation. Eligible colocations other than those defined in this section shall be processed within ninety days of receipt of a complete application. The director will notify the applicant within thirty days of receipt of an application whether it is complete or if additional information is required. The term "colocation" shall not apply to the initial placement of a small cell facility on a utility pole or on any other base station or tower that was not constructed for the sole or primary purpose of an FCC-licensed antenna and their associated facilities.

C. New Wireless Communication Facilities. New wireless communications facilities shall be processed within one hundred and fifty days of receipt of a complete application. The director will notify the applicant within thirty days of receipt of an application whether it is complete or if additional information is required. (Ord. 1403 § 6 (Exh. C) (part), 2017)

17.17.040 Additional review procedures.

Wireless communication facilities in design zones, shoreline management environments, undergrounded areas or critical areas are subject to review as provided in this chapter; Chapter 17.25A, Design Standards for the DB District; Chapter 17.25B, Mixed-Use Design Standards for the WMU District; Chapter 17.52, Critical Areas Regulations; Chapter 17.52A, Geologic Sensitive Area Regulations; Chapter 17.52B, Wetland Regulations; Chapter 17.52C, Fish and Wildlife Habitat Conservation Areas (Outside Shoreline Jurisdiction); and Chapter 17.52E, Shoreline Regulations. See also Chapter 17.84 regarding SEPA. (Ord. 1403 § 6 (Exh. C) (part), 2017).



T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
800 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

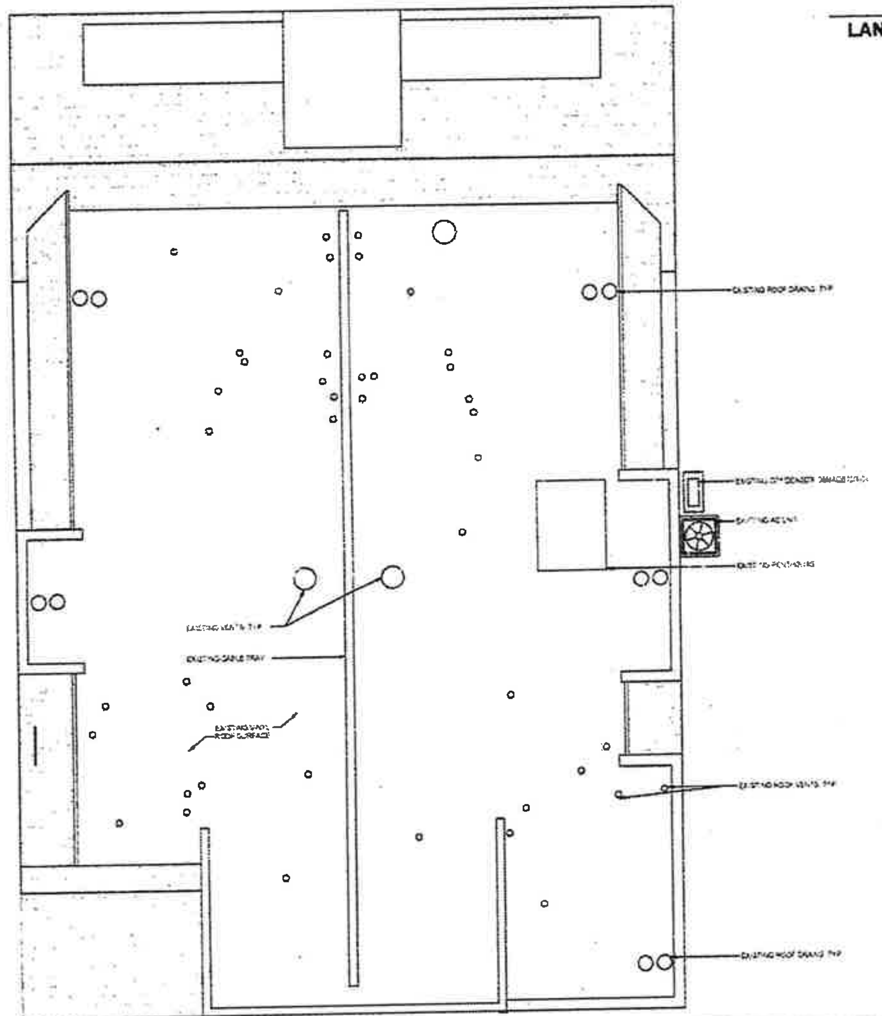
Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
SITE PLAN

SHEET NUMBER
A-1

LANDLORD SIGNATURE



1

EXISTING ENLARGED ROOF PLAN

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
650 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

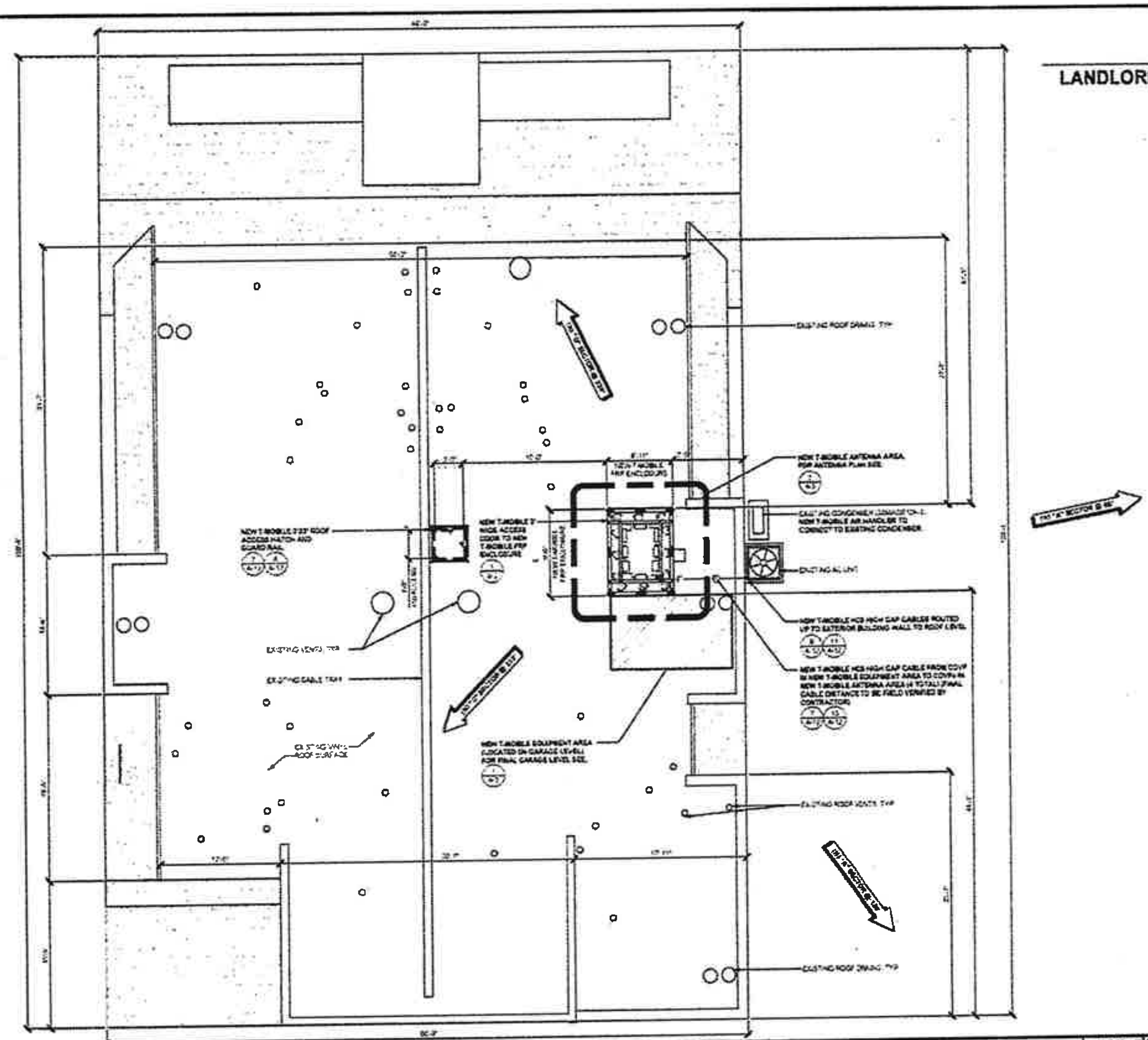
SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
EXISTING ENLARGED ROOF PLAN

SHEET NUMBER
A-2



LANDLORD SIGNATURE

FINAL ENLARGED ROOF PLAN

1

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
880 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
2	[illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

FINAL ENLARGED ROOF PLAN

SHEET NUMBER

A-2.1

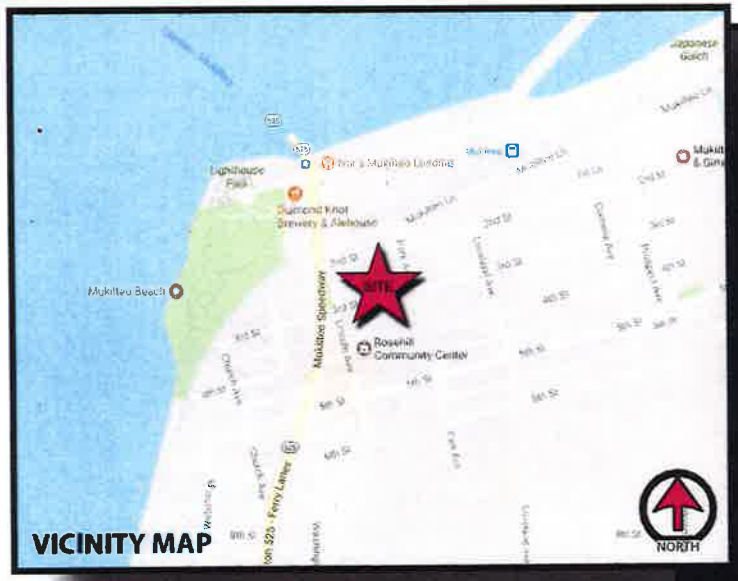
RECEIVED
MAR 30 2018
CITY OF MUKILTEO

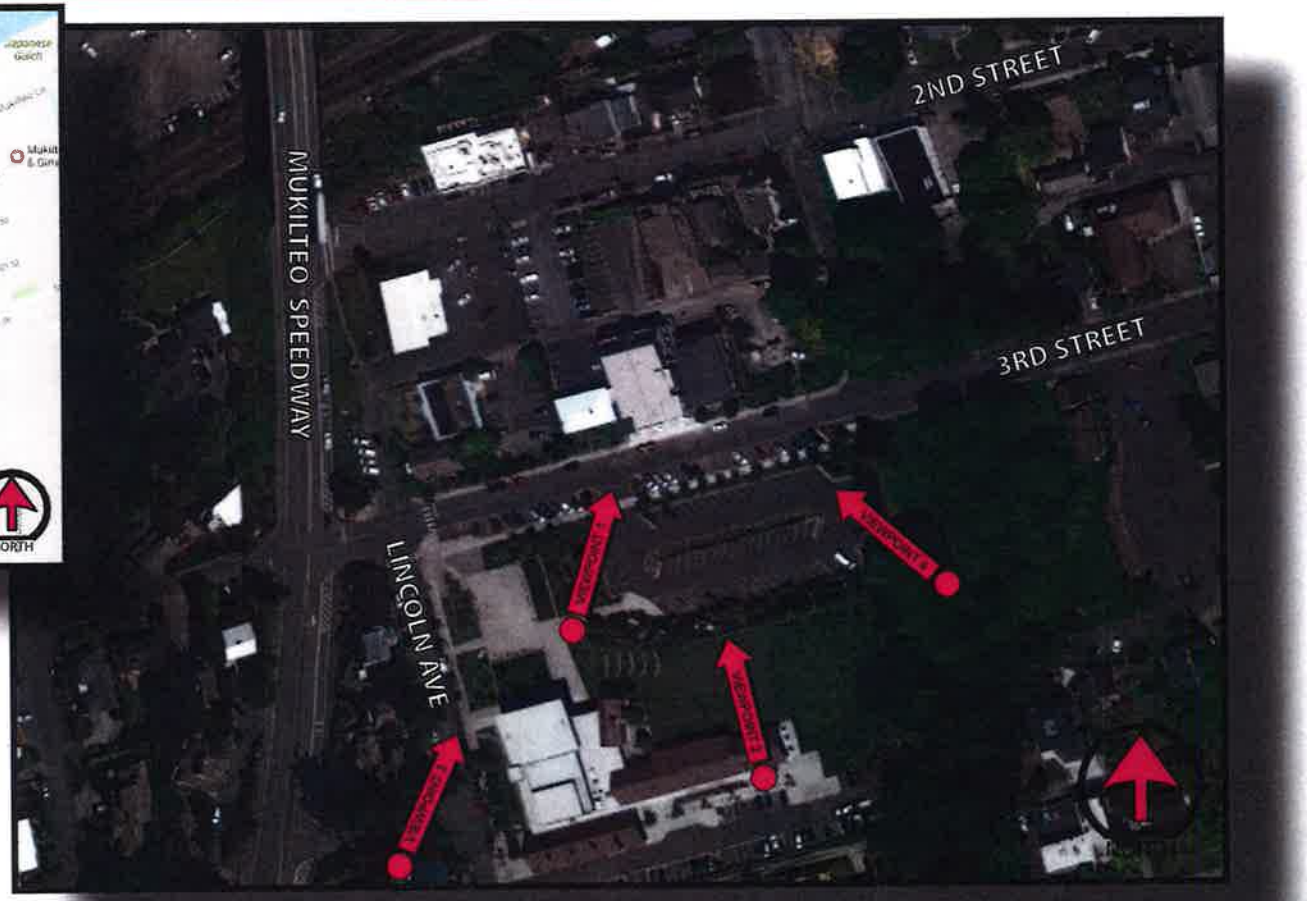
T-Mobile

SE01582M
MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275

Technology Associates





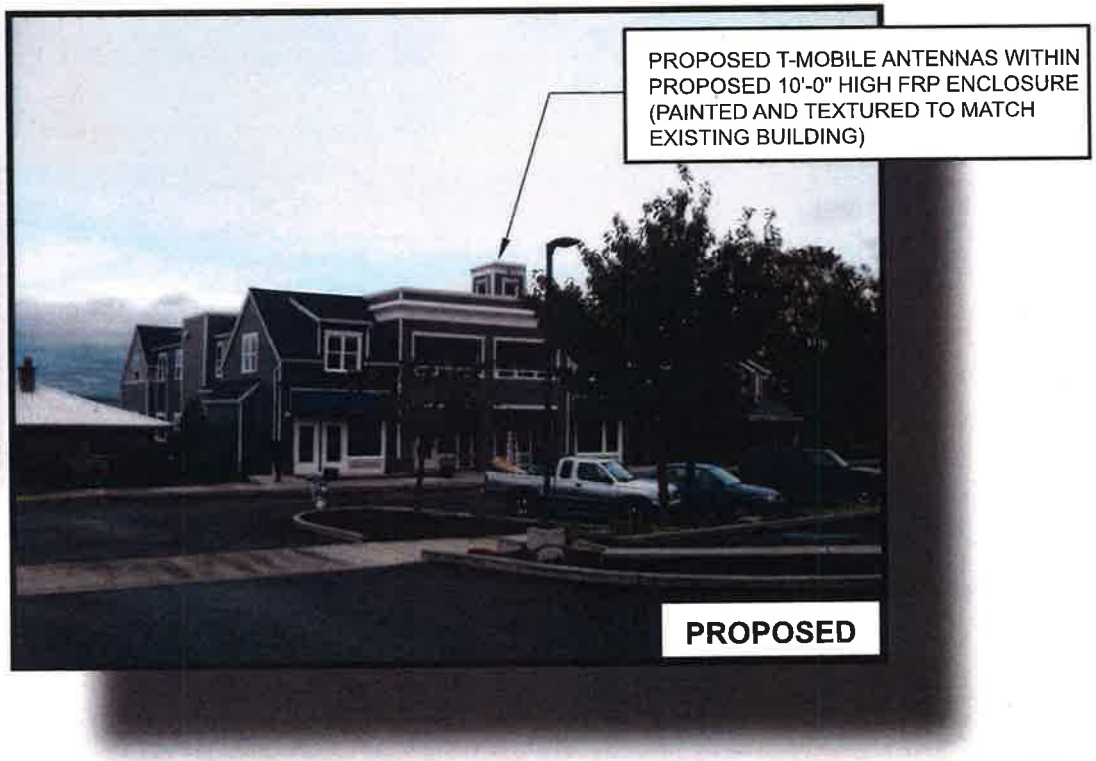
AERIAL MAP

T-Mobile

SE01582M
MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275

Technology Associates



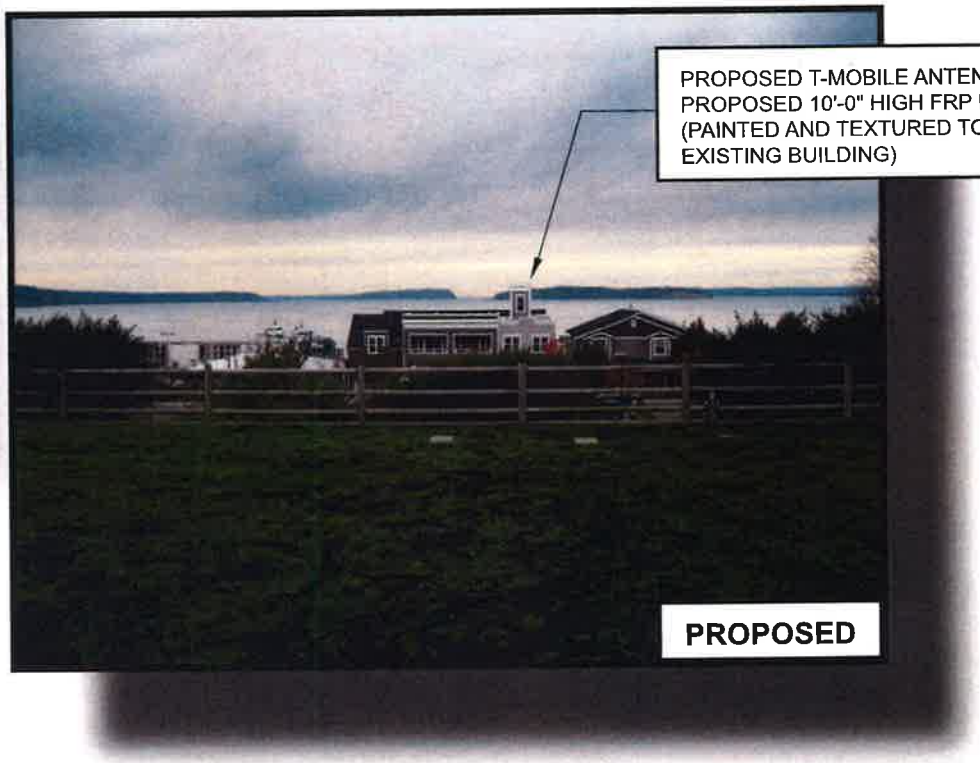
VIEWPOINT 1

T-Mobile

SE01582M
MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275

Technology Associates



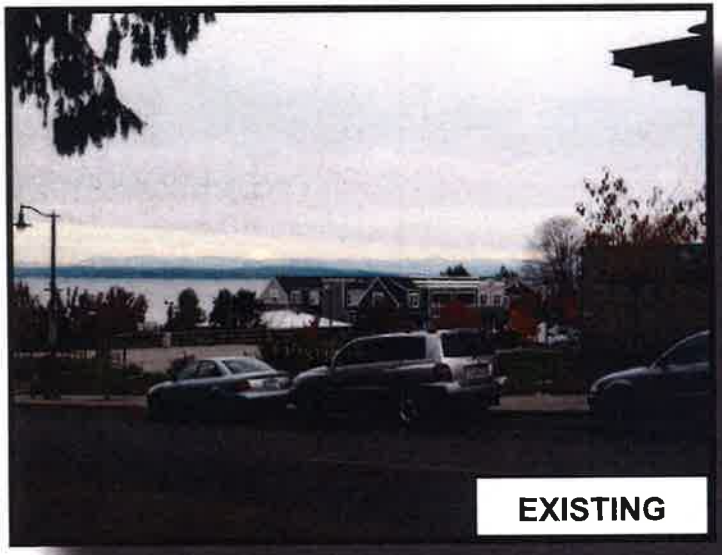
VIEWPOINT 2

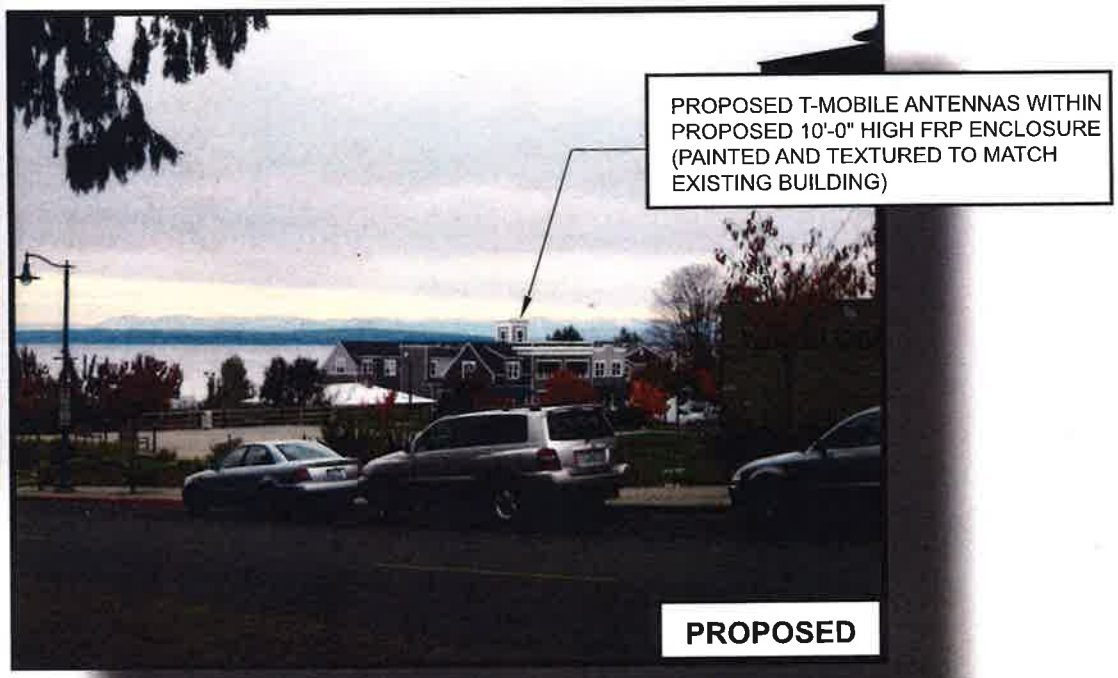
T-Mobile

SE01582M
MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275

Technology Associates





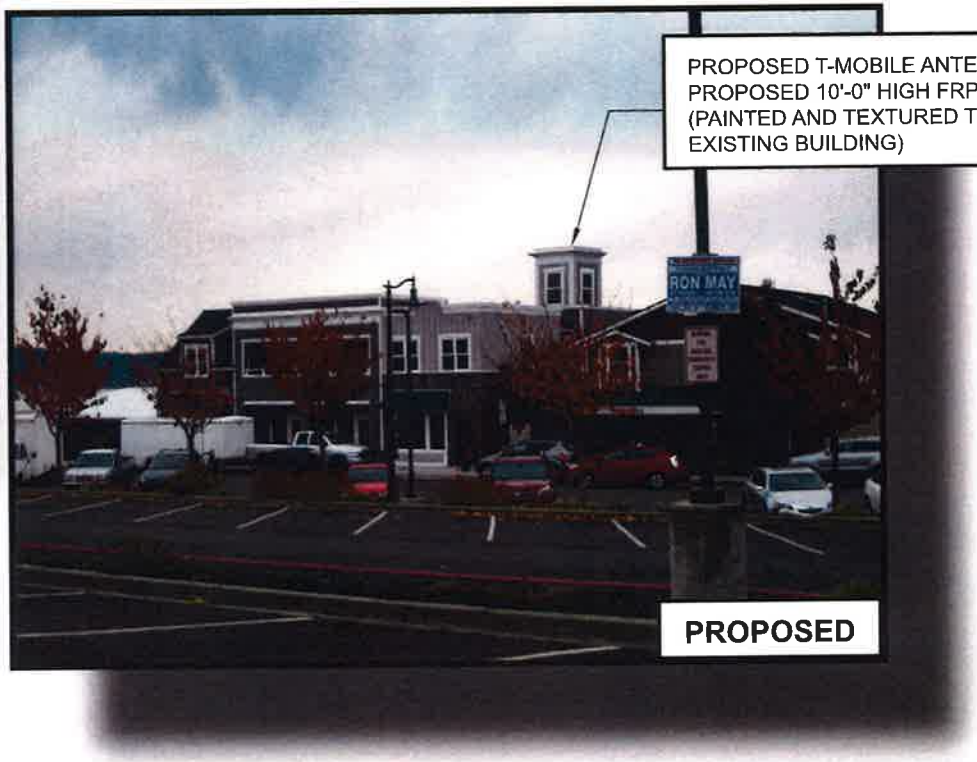
VIEWPOINT 3

T-Mobile

SE01582M
MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275

Technology Associates



VIEWPOINT 4

LANDLORD SIGNATURE

SOUTH ELEVATION (EXISTING) 1

SOUTH ELEVATION (FINAL) 2

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
860 SOUTH ORCAS STREET, STE. R-183
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

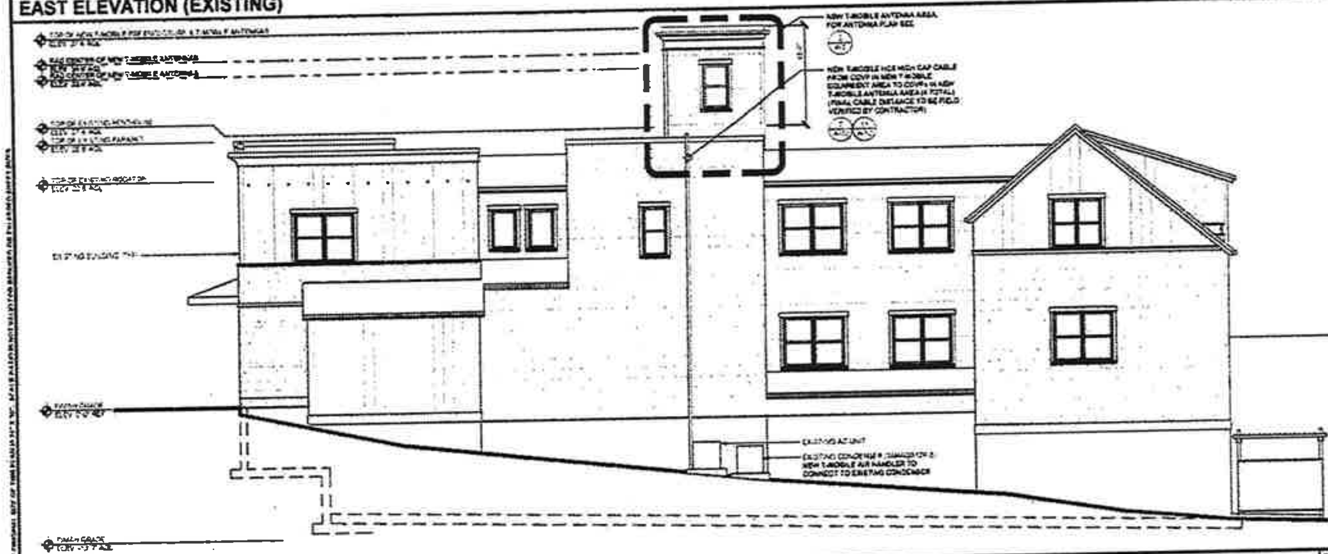
SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-6

LANDLORD SIGNATURE

EAST ELEVATION (EXISTING) 1



EAST ELEVATION (FINAL) 2

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

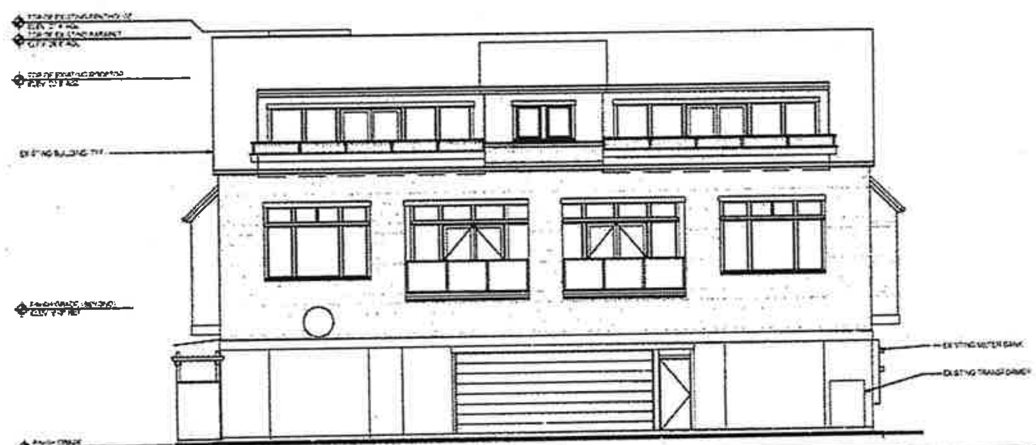
Technology Associates
PNW MARKET OFFICE:
850 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

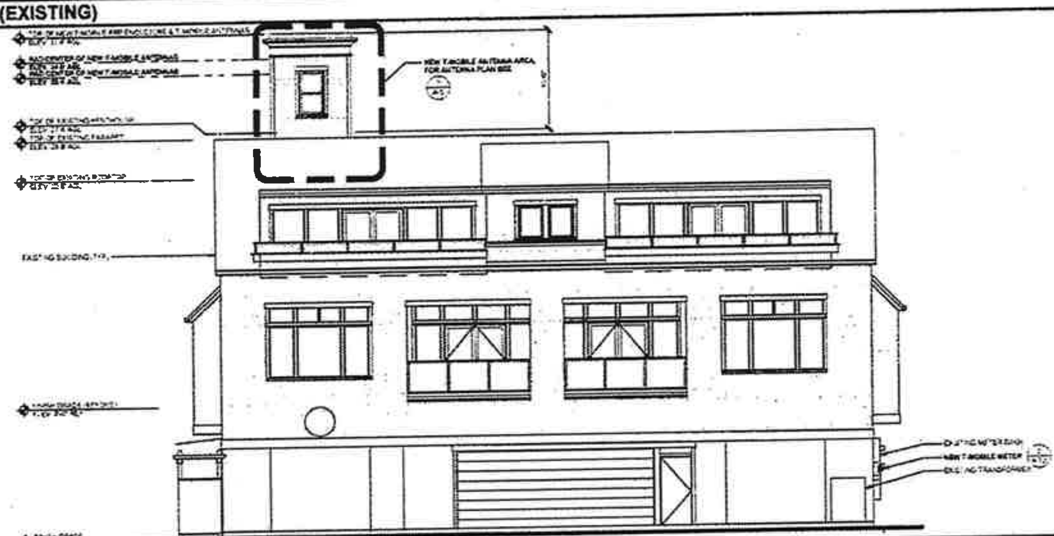
SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-7



NORTH ELEVATION (EXISTING) 1



NORTH ELEVATION (FINAL) 2

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

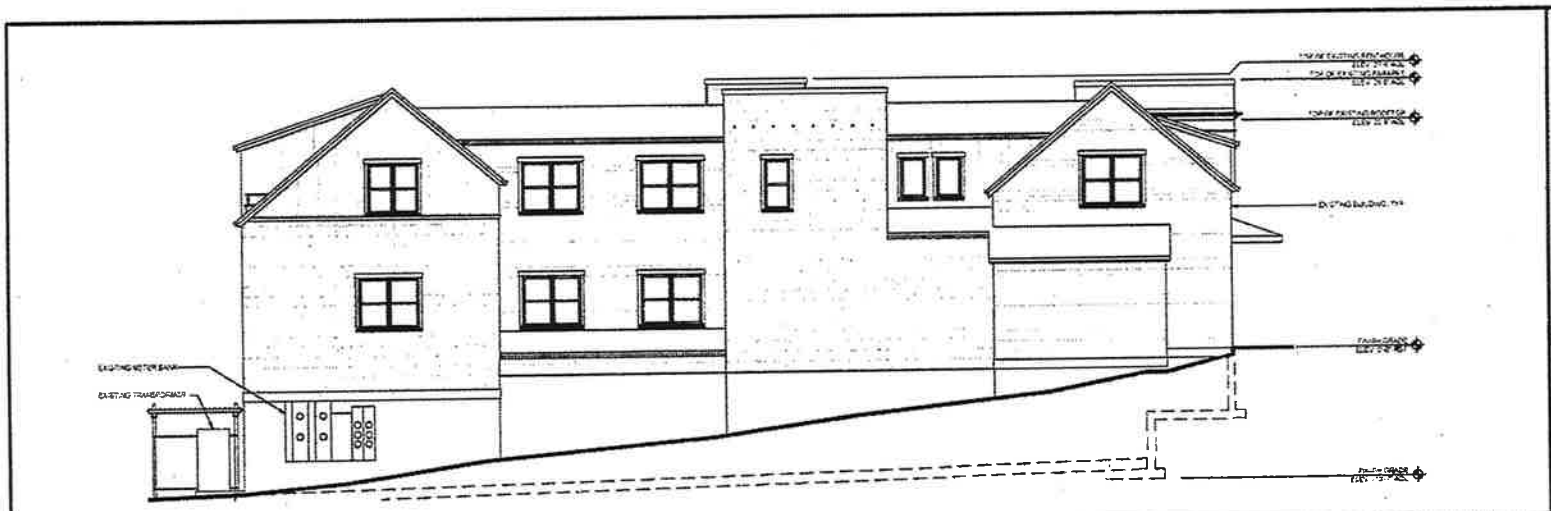
Technology Associates
PNW MARKET OFFICE
660 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 220
SAN DIEGO, CA 92108

SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-8



WEST ELEVATION (EXISTING) 1

WEST ELEVATION (FINAL) 2

T-Mobile
13607 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PWN MARKET OFFICE
850 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY

SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
ELEVATIONS

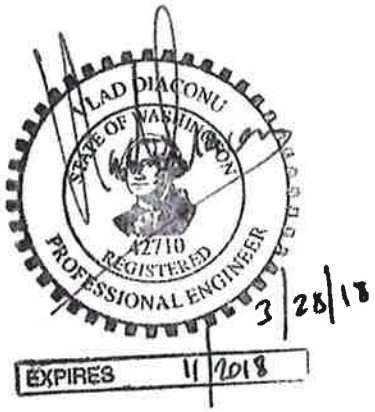
SHEET NUMBER
A-9

Technology Associates

Non –Ionizing Electromagnetic Radiation Report

For

SE01582M
Mukilteo Downtown
716 Third Avenue
Mukilteo, WA 98275



Headquarters
3115 Melrose Drive
Suite 110
Carlsbad, CA 92010
T: (760) 736-5276
www.taec.net

Site Number: SE01582M
Site Name: Mukilteo Downtown
Site Address: 716 Third Avenue, Mukilteo, WA 98275
Site Latitude: 47° 56' 48.50" N
Site Longitude: 122° 18' 08.70" W

PROJECT DESCRIPTION:

T-Mobile proposes to remove and install (12) twelve antennas, (3) three antennas per sector, and add ancillary radio equipment to the building rooftop.

PROJECT SCOPE:

The scope of this report is to determine, using the recommended prediction methods outlined in the Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01, if the radio facility in question will be in compliance with all appropriate Federal regulations in regards to Radio Frequency (RF) Exposure.

RESULTS:

Based on our review of the proposed RF configuration and applying the worst-case scenario, we have determined that the proposed site will comply with current FCC and municipal guidelines for human exposure to non-ionizing electromagnetic radiation for the Uncontrolled Condition and General Population Condition.

For the Controlled / Occupational Condition, the MPE limit is reached at a plan radius of 6'-0" from the proposed antennas. Signage and striping may be required to alert personnel of exposure. Alternatively, the proposed height of the antennas may be adjusted to bring the level of exposure to within the prescribed limits. See calculations in Appendix A and B which verify these results.

Tortal Calculated Maximum Power Exposure: MPE (mW/cm^2)		
Uncontrolled / General Population	MPE Limits per FCC (mW/cm^2)	1.0
	MPE Limits at Site(mW/cm^2)	0.006772
	%MPE	0.68%
Controlled / Occupanional at Zero Feet from Antenna	MPE Limits per FCC (mW/cm^2)	5.0
	MPE Limits at Site(mW/cm^2)	0.01693
	%MPE	0.34%

We trust this addresses your concerns. Please contact us if there are any questions.

1. EQUIPMENT INVENTORY

Elevation (ft)	Equipment	Status	ERP (Watts)	Owner
33	Andrew TMZXX-6516-A2M	Proposed	4657	T-mobile
33	Commscope FF-65C-R1	Proposed	4657	T-mobile

2. Documents & Data Provided

The following data was used to determine the RF exposure for the site.

Data	Document	Author
Limits for MPE	Table 1 OET Bulletin 65 Appendix A	FCC
Equipment Frequency Range	Equipment S[ecification Sheet	Manufacturer
Site Information	Construction Drawings	TAEC

3. Calculation Comments

Section 2 of OET Bulletin 65 states that "for a truly worst-case prediction of power density at or near the surface, such as at ground-level or on a rooftop, 100% reflection of incoming radiation can be assumed, resulting in a potential doubling of predicted field strength and a four-fold increase in (far field equivalent) power density". For this report, the worst-case of power density is used and the following equation from the OET Bulletin 65 is used.

Equation #6: $S = EIRP/\pi R^2$

Where: S = power density (mW/cm^2)
EIRP = equivalent isotropically radiated power
R = distance to the center of the radiation antenna (cm)

For this site, maintenance personnel can access the rooftop at a location which is in line with the primary focus of the panel antennas. For this reason, the controlled exposure calculation is performed conservatively without a 20dB drop, and without the need for assuming reflection of the emissions as stated for the uncontrolled condition above. This shows that the exposure has the potential to be high given the location and direction of the mounted antennas relative to the location for line maintenance personnel. Therefore, for this report, the following equation #4 from the OET Bulletin 65 is

Equation #4: $S = EIRP/4\pi R^2$

4. Conclusion

Uncontrolled / General Population

To the best of our knowledge and belief, the worst-case RF emissions of the proposed antennas, existing antennas, and antennas located nearby will be in satisfactory compliance with the requirements of the current FCC and municipal guidelines for human exposure to non- ionizing electromagnetic radiation.

The total power density is calculated as 0.006772 mW/cm² which is well below the maximum power density allowed per the FCC of 1.0 mW/cm².

Controlled / Occupational

To the best of our knowledge and belief, the worst-case RF emissions of the proposed antennas, existing antennas, and antennas located nearby will be in satisfactory compliance with the requirements of the current FCC and municipal guidelines for human exposure to non- ionizing electromagnetic radiation after providing signing and striping at the required distance from the antenna.

The total power density is calculated as 0.01693 mW/cm² which is well below the maximum power density allowed per the FCC of 5.0 mW/cm². TAEC recommends the addition of striping and signage to warn personnel of the location where they may be subject to overexposure which is within a distance of 6'-0" away from the antennas.

5. Disclaimer

This report was performed in accordance with generally accepted practices and principles of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided so that our conclusions may be revised and modified, if necessary. The analysis for this report is considered void if the equipment mentioned in this report is changed, substituted, or installed in alternative locations.

It is the responsibility of the Client to ensure that the information provided and used in the completion of this report is correct and comprehensive. In the absence of information to the contrary, we assume that the equipment listed is a complete inventory that will provide a worst-case scenario of RF exposure.

TAEC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Appendix A – MPE Calculation

Antenna Frequency (MHz):	699-2000
Max. Power Density (mW/cm²):	1
Structure Height(ft):	23
Antenna Height (ft):	8

Uncontrolled Emissions Calculation

Radiation Center (ft)	Effective Height (ft)	Horizontal Distance (ft)	Total Distance (cm)	ERP (Watts)	ERP (dBm)	Effective ERP (dBm)	Effective EIRP (dBm)	Effective EIRP (mW)	Power Density (mW/cm²)
33	29	62.244696	1897.2183	4657	66.6811	46.68106	48.841062	76578.3912	0.006772080

Total Power Density: 0.006772080

Percentage of Uncontrolled Power Density : 0.6772%

Notes:

1. A 20db loss of emissions to reach location below the antenna results in EIRP/100
2. Effective antenna EIRP conservatively assumes a 20dB vertical radiation loss for panel antennas.
3. *ERP (dBm)* = 10* log10[*ERP(watts)*]+30
4. *EIRP (dBm)* = *ERP(dBm)* +2.16
5. *EIRP (mW)* = 10^*EIRP (dBm)*/10

Appendix B – MPE Calculation

Antenna Frequency (MHz):	699-2000
Max. Power Density (mW/cm²):	5
Structure Height(ft):	23
Antenna Height (ft):	8

Unmittigated Controlled Emissions Calculation

Radiation Center (ft)	Effective Height (ft)	Horizontal Distance (ft)	Total Distance (cm)	ERP (Watts)	ERP (dBm)	Effective ERP (dBm)	Effective EIRP (dBm)	Effective EIRP (mW)	Power Density (mW/cm²)
33	29	62.244696	1897.2183	4657	66.6811	56.68106	58.841062	765783.912	0.016930201

Total Power Density: 0.016930201

Percentage of Uncontrolled Power Density : 0.3386%

Notes:

6. A 20db loss of emissions to reach location below the antenna results in EIRP/100
7. Effective antenna EIRP conservatively assumes a 20dB vertical radiation loss for panel antennas.
8. *ERP (dBm)* = 10* log10[*ERP(watts)*]+30
9. *EIRP (dBm)* = *ERP(dBm)* +2.16
10. *EIRP (mW)* = 10^*EIRP (dBm)*/10

SSA acoustics
Stewart · Burt · Nelsen · Keiffer

March 27, 2018

Mr. Gary Abrahams
Technology Associates EC, Inc.
650 S Orcas Street #R-103
Seattle, WA 98108

Re: Acoustical Report – T-Mobile SE01582M Mukilteo Downtown
Site: 716 Third Street, Mukilteo, WA 98275

Dear Gary,

This report presents a noise survey performed in the immediate vicinity of the proposed T-Mobile telecommunications facility at 716 Third Street in Mukilteo, Washington. This noise survey extends from the proposed equipment to the nearest properties. The purpose of this report is to document the existing conditions and the impacts of the acoustical changes due to the proposed equipment. This report contains data on the existing and predicted noise environments, impact criteria and an evaluation of the predicted sound levels as they relate to the criteria.

Ambient Conditions

Existing sound levels were measured on site with a Svantek 971 sound level meter on March 26, 2018 to determine ambient sound levels. Measurements were conducted as close to the proposed location as possible and the property lines in accordance with the State of Washington code for Maximum Environmental Noise Levels WAC 173-60-020. The average ambient noise level was 50 dBA, primarily due to traffic on Mukilteo Speedway.

Code Requirements

The site is located within the City of Mukilteo Zoning jurisdiction on property with a DB (Downtown Business) zoning designation, in use as a commercial business. The receiving properties are all businesses, with the exception of the Community Center across Third Street.

The proposed new equipment consists of equipment support cabinets, which are expected to run 24 hours a day.

City of Mukilteo Municipal Code Section 8.18, Noise Control, adopts by reference Washington Administrative Code (WAC) Sections 173-58 and 173-60. WAC 173-60-030 defines the source property and all of the receiving properties as Class B EDNA.

222 Etruria Street, Ste 100
Seattle, Washington 98109
t. 206.839.0819 f. 206.839.0824

According to WAC 173-60, noise from equipment on a Class B EDNA property is limited as follows:

Class B EDNA Receiver: Noise is limited to 60 dBA, 24 hours a day.

Predicted Equipment Sound Levels

The proposed equipment cabinets are located within an existing garage level equipment room within the building. The cabinets will be cooled by a proposed indoor Carrier 40MAQB12B unit connected to an existing outdoor condensing unit. According to manufacturer data, the proposed indoor Carrier 40MAQB12B unit has a sound pressure level of 42 dBA at 5 ft.

To predict equipment noise levels at the receiving properties, this survey used the methods established by ARI Standard 275-97. Application factors such as location, height, and reflective surfaces are accounted for in predicting the sound level at the nearest receivers.

There is no direct path for sound to exit the equipment room. Noise levels from the proposed equipment will therefore be contained within the building and as such will be in compliance with the 60 dBA code limit.

Please contact us if you have any questions or require further information.

Sincerely,
SSA Acoustics, LLP

Steven Hedback
Technician

Joel Esselstrom
Acoustical Consultant

T-Mobile

Radio Frequency Engineer Site Need Analysis

T-Mobile Project No.: SE01582M
Project Name: Mukilteo Downtown
Project Description: New site coverage
Location: 716 – 3rd Street, Mukilteo, WA
Date: 6/10/2018

T-Mobile Site Selection Overview

Wireless systems are expanded or introduced in a given area to improve service to customers. There are typically three reasons to add a new facility: extending the coverage to new areas, increasing the capacity of the system within the current service area, or improving quality. Some sites do all three.

Coverage:

Coverage can be defined as having a certain level of signal strength in a particular area. T-Mobile's target is to provide –91dBm of signal strength to our customers in all areas. This level of coverage guarantees reliable signal strength inside buildings to provide excellent voice quality in residential neighborhoods and commercial areas. In today's competitive marketplace, T-Mobile requires adequate coverage to be competitive and to fulfill our responsibilities under our FCC license.

Existing and proposed coverage is demonstrated by use of propagation maps and drive test data. The propagation maps are computer simulations of wireless signal coverage in a given area. One map shows the predicted coverage as it exists without the proposed facility. The other map shows predicted coverage with the proposed facility in place. Drive test data consists of actual wireless signal strength documented in the field by driving through the coverage objective with measurement equipment. The existing signal strength is measured by driving through the proposed coverage area and recording call strength throughout the route driven. Next, a temporary antenna is lifted to the proposed facility height and the same area is driven again while signal strength is recorded. The data collected is plotted on maps showing coverage throughout the proposed area.

Capacity:

Capacity is the number of calls that can be handled by a particular antenna site. When we make phone calls, our mobile phones communicate with a nearby antenna site that then connects to land based phone lines. Ongoing phone calls occupy the resources of the serving site, which can handle only a limited number

T-Mobile is also in the process of upgrading existing cell sites in order to deploy the 600 and 700 MHz frequencies. This will entail adding additional equipment and new antennas that can support the 600 and 700 MHz frequency band. The specific site configuration was designed in order to maximize coverage while minimizing the antenna height requirement. Significant deviation from this configuration will result in reduced effectiveness, including possible invalidation of the site configuration altogether. The required antenna height is the minimum acceptable to provide the needed coverage with respect to that from neighboring cell sites. Lower antenna height will result in reduced effectiveness, again including possible invalidation of the candidate. In some cases, an increased antenna height is possible which can allow some greater flexibility in location placement. However, too much antenna height is unacceptable as it creates interference conditions that degrade performance of one or more other existing cell sites in the T-Mobile network.

When this technical analysis was completed, requirements were provided to T-Mobile's real estate and zoning specialists. Whenever possible, T-Mobile strives to minimize the changes to the current site configuration. T-Mobile attempts to select a configuration that minimizes or limits any negative visual impacts on adjacent or nearby residential areas to the greatest extent possible

The specific location (or position) of the proposed site has been selected to maximize coverage while minimizing the antenna height requirement. Significant deviation from this location will result in reduced effectiveness, including possible invalidation of the site candidate altogether. The required antenna height is the minimum acceptable to provide the needed coverage with respect to that from neighboring cell sites. Lower antenna height will result in reduced effectiveness, again including possible invalidation of the candidate. In some cases, an increased antenna height is possible which can allow some greater flexibility in location placement. However, too much antenna height is unacceptable as it creates interference conditions that degrade performance of one or more other existing cell sites in the T-Mobile network.

When this technical analysis was completed, a search area map and other requirements were provided to T-Mobile's real estate and zoning specialists. With this information in hand, T-Mobile ranked potential sites. Whenever feasible T-Mobile strives to acquire property that is properly zoned and adjacent to compatible land uses. T-Mobile attempts to select a location that minimizes or limits any negative visual impacts on adjacent or nearby residential areas to the greatest extent possible. Sites adjacent to existing tall power lines, antenna facilities, water treatment facilities, and on the tops of buildings are selected when they meet the other technical requirements of the system. New, freestanding towers are avoided as are locations adjacent to schools, preschools and view corridors or where demolition is required that would be detrimental to the existing character of the neighborhood. Rooftop and utility pole applications are favored where the design can be screened or incorporated into the existing structure and mechanical equipment can be placed out of view.

Conclusion

T-Mobile engineers have carefully designed this site to maximize quality of service to our customers, which can best be accomplished at a height of 10' above the existing rooftop penthouse. This location was also selected because of its position relative to existing sites, providing favorable site geometry for federally mandated E911 location accuracy requirements and efficient frequency reuse. Good site geometry is needed to achieve accurate location of mobile users through triangulation with existing and proposed sites.

T-Mobile USA, Inc.

Amir Jabbarzadeh 6/14/2018
RF Engineer

RELATED INFORMATION

About T-Mobile's Wireless Network

T-Mobile's entire network has been enhanced to provide customers wireless Internet access and operates the largest carrier owned "Wi-Fi" wireless broadband network in the world with service in over 1,200 public locations under the name T-Mobile HotSpot[sm].

Overview of Wireless Technology

Wireless service operates through cellular radio telephone networks, which are comprised of thousands of cell antenna sites, switching facilities and other network elements. All cell antenna sites are radio frequency (RF) transmission towers operating at different frequencies. Each wireless carrier is assigned a very limited amount of frequency, which is divided into certain number of RF channels. RF Channels are assigned to each of the cell sites for communication with our handheld wireless phones. Since the number of channels is very limited, they have to be reused at different cell sites. The problem with reusing RF channels is the potential for interference. When a cell site is using the same RF channel as another cell site nearby this can cause interference. Sometimes when you

Apart from improving service to T-Mobile's existing customer base, T-Mobile has experienced phenomenal growth in the last few years, with an average national customer growth rate of almost 40% per year. It is not unusual for T-Mobile to add more than a million nationwide customers per quarter. T-Mobile forecasts this phenomenal growth to continue. T-Mobile's system design accounts for this predicted growth.

ATTACHMENTS

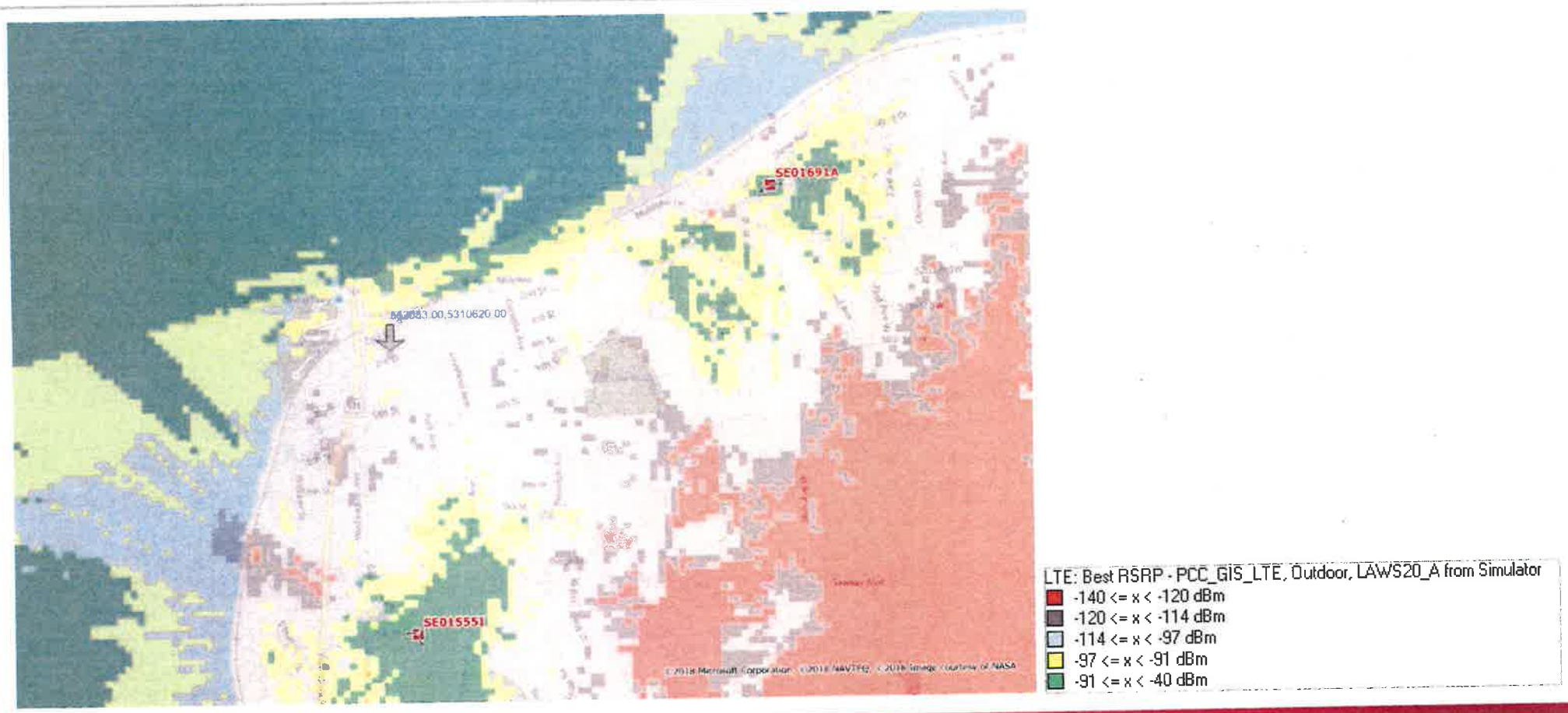
PROPAGATION MAPS

Main coverage objectives for the new site SE01582M

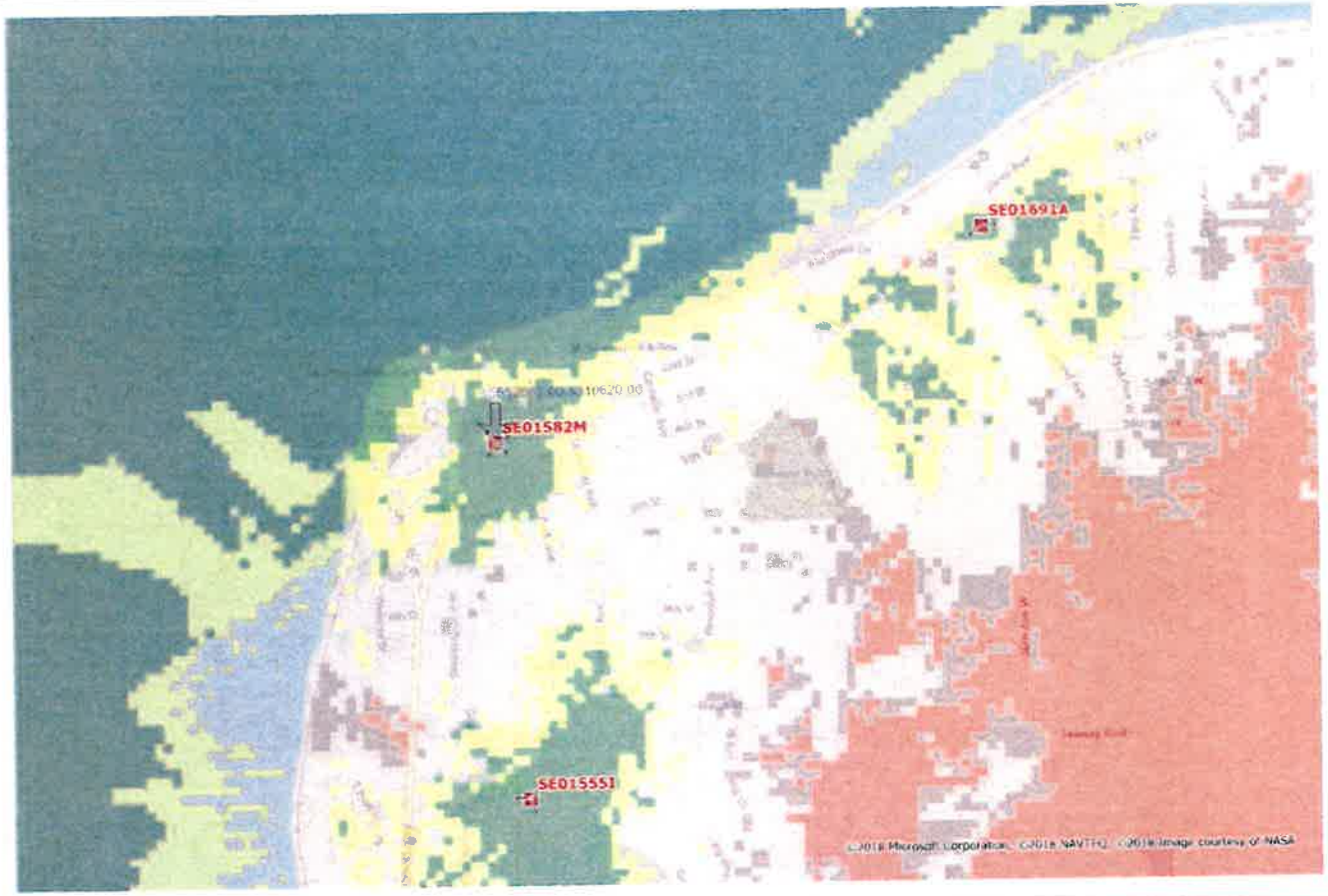
Improve better indoor coverage and user experience

- Mukilteo down town area
- Ferry terminal
- New development area

Existing


SE01691A
SE01555I
LTE: Best RSRP - PCC_GIS_LTE, Outdoor, LAWS20_A from Simulator
-140 <= x < -120 dBm
-120 <= x < -114 dBm
-114 <= x < -97 dBm
-97 <= x < -91 dBm
-91 <= x < -40 dBm

Proposed coverage



LTE: Best RSRP - PCC_GIS_LTE, Outdoor, LAWS20_A from Simulator
-140 <= x < -120 dBm
-120 <= x < -114 dBm
-114 <= x < -97 dBm
-97 <= x < -91 dBm
-91 <= x < -40 dBm

WASHINGTON STATE CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. THE WASHINGTON STATE BUILDING CODE IS COMPRISED OF THE MODEL CODE EDITIONS BELOW WITH WASHINGTON STATE AMENDMENTS

- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL RESIDENTIAL CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL FIRE CODE
- 2015 UNIFORM PLUMBING CODE
- 2015 WASHINGTON STATE ENERGY CODE
- LOCAL CODES AND AMENDMENTS

FCC NOTE:

THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

CODE COMPLIANCE

APPLICANT: T-MOBILE USA INC, 19807 NORTH CREEK PARKWAY NORTH, BOTHELL, WA 98011

PROPERTY OWNER

SITE ADDRESS: 716 THIRD STREET, MUKILTEO, WA 98275

POWER COMPANY: SNOHOMISH COUNTY PUD

SITE PARCEL NUMBER

TELCO COMPANY: FRONTIER

COUNTY: SNOHOMISH COUNTY

TOTAL LEASE AREA

JURISDICTION: CITY OF MUKILTEO

EXISTING USE: UNMANNED TELECOMMUNICATIONS FACILITY

ZONING: DB (DOWNTOWN BUSINESS)

NEW USE: UNMANNED TELECOMMUNICATIONS FACILITY

LATITUDE AND LONGITUDE

LEGAL DESCRIPTION

HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS REQUIREMENTS DO NOT APPLY

SITE INFORMATION

PROJECT DESCRIPTION

SURVEYOR

ZONING & PERMITTING: TECHNOLOGY ASSOCIATES EC, INC

SITE ACQUISITION: TECHNOLOGY ASSOCIATES EC, INC

CONSTRUCTION MANAGER: TECHNOLOGY ASSOCIATES EC, INC

ARCHITECTURE: TECHNOLOGY ASSOCIATES EC, INC

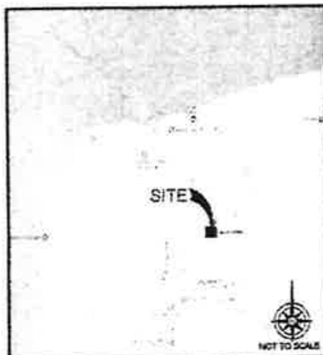
ENGINEER

CONTACT INFORMATION

T-Mobile

SE01582M

MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275



VICINITY MAP

LOCAL MAP

1. HEAD EAST ON NORTH CREEK PKWY N
2. TURN RIGHT ONTO 120TH AVE NE
3. TURN RIGHT ONTO NE 195TH ST
4. TURN RIGHT ONTO THE INTERSTATE 405 N RAMP TO EVERETT
5. MERGE ONTO I-405 N
6. CONTINUE ONTO I-5 N
7. KEEP LEFT TO CONTINUE ON MUKILTEO SPEEDWAY
8. TURN RIGHT ONTO 3RD ST
9. DESTINATION WILL BE ON THE LEFT

DRIVING DIRECTIONS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS, CONDITIONS ON THE JOB-SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DO NOT SCALE

APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
T-MOBILE RF ENGINEER		
SITE ACQUISITION		
CONSTRUCTION MANAGER		
SITE OWNER		
T-MOBILE DEVELOPMENT MANAGER		
T-MOBILE CONSTRUCTION MANAGER		
T-MOBILE OPS MANAGER		
T-MOBILE REGULATORY REVIEW		
T-MOBILE PROJECT MANAGER		
T-MOBILE PERMITTING		

APPROVALS

811 Know what's below. CALL before you dig

DIG ALERT

CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	NOTES & LEGEND
SV-1	SITE SURVEY
A-1	SITE PLAN
A-2	EXISTING ENLARGED ROOF PLAN
A-2.1	FINAL ENLARGED ROOF PLAN
A-3	EXISTING TOP FLOOR PLAN
A-3.1	FINAL TOP FLOOR PLAN
A-4	EXISTING GARAGE LEVEL
A-4.1	FINAL GARAGE LEVEL
A-5	ANTENNA & EQUIPMENT PLANS
A-6	ELEVATIONS
A-7	ELEVATIONS
A-8	ELEVATIONS
A-9	ELEVATIONS
A-10	ANTENNA & EQUIPMENT DETAILS
A-11	RACK & EQUIPMENT DETAILS
A-12	CONSTRUCTION DETAILS
A-13	CONSTRUCTION & SIGNAGE DETAILS
S-1	STRUCTURAL NOTES
S-2	STRUCTURAL DETAILS
M-1	MECHANICAL PLAN & NOTES
M-2	MECHANICAL DETAILS
E-1	ELECTRICAL NOTES
E-2	ELECTRICAL SITE PLAN - GARAGE LEVEL
E-3	PANEL SCHEDULE & ONE-LINE DIAGRAM
G-1	GROUNDING PLANS
G-2	GROUNDING DETAILS
RF-1	RF DETAILS
RF-2	RF DIAGRAM

SHEET INDEX

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

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850 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL NOTES

GENERAL NOTES

STORM WATER QUALITY NOTES CONSTRUCTION BMPS

GENERAL FIRE NOTES

GENERAL NOTES | 4

ABBREVIATIONS

ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ABBREVIATIONS | 1

LEGEND

LEGEND | 3

NOT USED

NOT USED | 2

T-Mobile

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2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
[illegible]	[illegible]	[illegible]	[illegible]

SE01582M

MUKILTEO DOWNTOWN

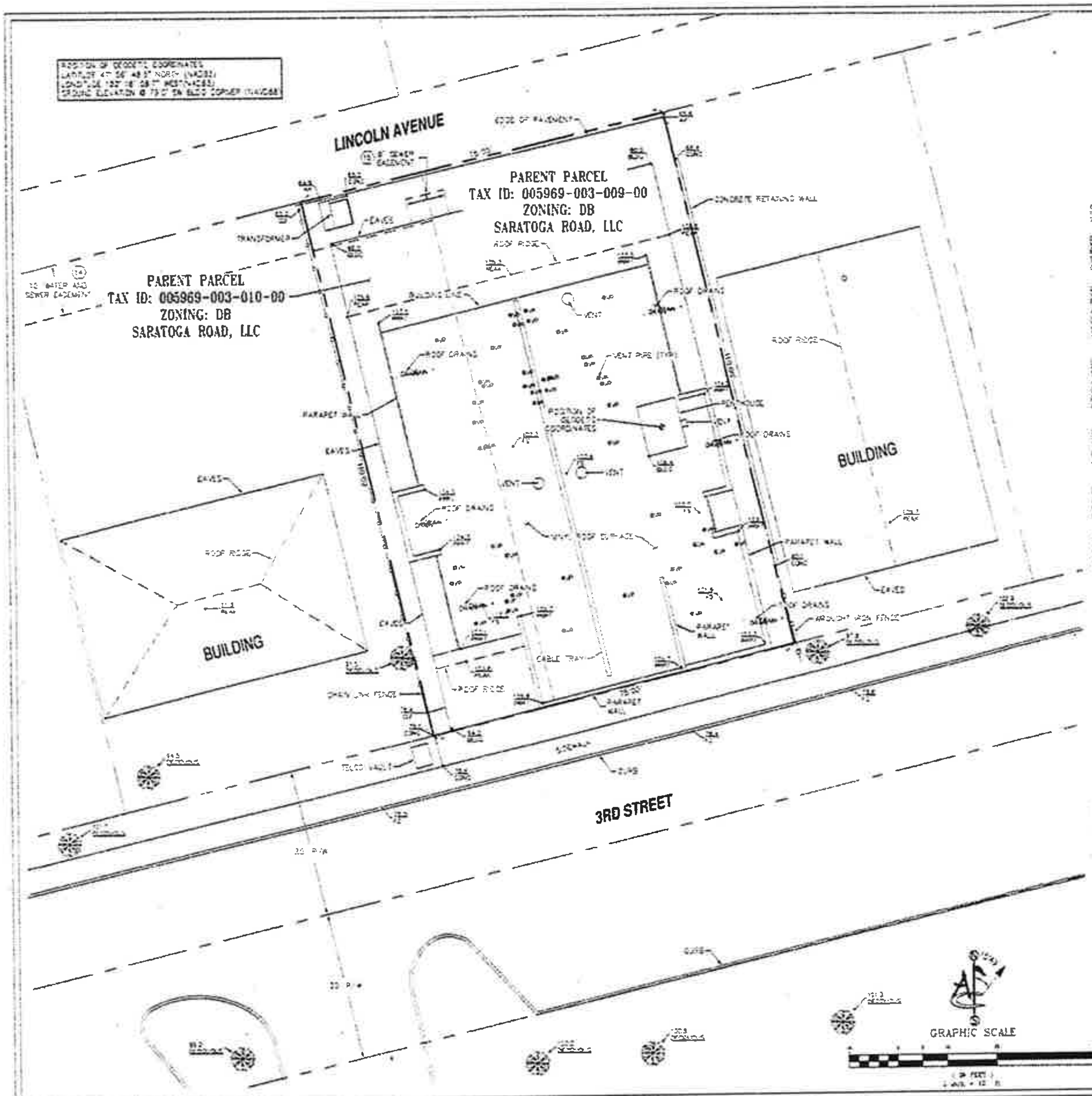
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

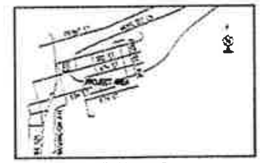
SHEET TITLE

NOTES & LEGEND

SHEET NUMBER

T-2




VICINITY MAP
NTS

SURVEY DATE

BASIS OF BEARING
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM WASHINGTON STATE PLANE COORDINATE ZONE NORTH, DETERMINED BY GPS OBSERVATIONS.

BENCHMARK
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 12B' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY REAL TIME KINETIC (RTK) GPS DATA PROCESSED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN). ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NAVD88 DATUM.

UTILITY NOTES
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

FLOOD ZONE
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X" ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S) MAP ID [illegible], DATED [illegible].

LESSOR'S LEGAL DESCRIPTION
LOT 9 AND THE EAST [illegible] FEET OF LOT 10, BLOCK 3, THOMAS' ADDITION TO TOWN OF MUKILTEO ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 1 OF PLATS, PAGE 63, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

SCHEDULE "B" NOTE
REFERENCE IS MADE TO THE SUBDIVISION GUARANTEE REPORT ORDER #[illegible] ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY DATED OCTOBER 13, 2017. ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED.

NOTE: ITEMS THAT ARE NOT SURVEY RELATED ARE NOT SHOWN.

13. EASEMENT, INCLUDING TERMS AND CONDITIONS CONTAINED THEREIN
GRANTED TO: PUBLIC UTILITY DISTRICT NO. 1 OF SNOHOMISH COUNTY, A WASHINGTON STATE MUNICIPAL CORPORATION
FOR: OVERHEAD AND/OR UNDERGROUND ELECTRIC DISTRIBUTION LINES AND FACILITIES, GRANTEE-OWNED COMMUNICATION WIRES AND CABLES, AND OTHER NECESSARY OR CONVENIENT APPURTENANCES
RECORDED: MAY 04, 2015
RECORDING INFORMATION: [illegible]
NOT PLOTTABLE

14. EASEMENT, INCLUDING TERMS AND CONDITIONS CONTAINED THEREIN
GRANTED TO: MUKILTEO WATER AND WASTEWATER DISTRICT
FOR: WATER AND SEWER MAINS AND RELATED APPURTENANCES
RECORDED: AUGUST [illegible]
RECORDING INFORMATION: [illegible]
PLOTTED

15. AGREEMENT AND SEWER EASEMENT FOR COMMON SIDE SEWER OWNERS AND THE TERMS AND CONDITIONS THEREOF
BETWEEN: MUKILTEO WATER AND WASTEWATER DISTRICT, A MUNICIPAL CORPORATION
AND: SARATOGA ROAD, LLC
RECORDING INFORMATION: [illegible]
PLOTTED

SCHEDULE "B" SUMMARY
THE SURVEYOR'S OPINION IS THAT NO SCHEDULE "B" ITEMS PROVIDED BY SAID REPORT AFFECT THE PROPOSED LEASE AND EASEMENT AREAS SHOWN HEREON.

LEGEND

AP	ASPHALT
BLDG	TOP OF BUILDING
CLF	CHAIN LINK FENCE
CONC	CONCRETE
EP	EDGE OF PAVEMENT
FC	FACE OF CURB
NG	NATURAL GRADE
R/W	RIGHT OF WAY

POSITION OF GEODETIC COORDINATES
SPOT ELEVATION
WATER CONTROL VALVE
GAS VALVE
TREES
CHAIN LINK FENCE
WROUGHT IRON FENCE
STREET CENTERLINES
SUBJECT PROPERTY LINE
ADJACENT PROPERTY LINE
EASEMENT LINES
TIE LINES
LEASE AREA LIMITS

T··Mobile·
19807 North Creek Parkway North
Bothell, Washington 98011

PROJECT INFORMATION
SEO1582M
MUKILTEO DOWNTOWN
710 THIRD STREET
MUKILTEO WA 98275
SNOHOMISH COUNTY

ORIGINAL ISSUE DATE
11/15/2017

REV	DATE	DESCRIPTION	BY
A	11/15/17	PRELIMINARY	DRH

PLANS PREPARED BY
Technology Associates
4122 FACTORIA BLVD SE, SUITE 303
BELLEVUE, WA 98006

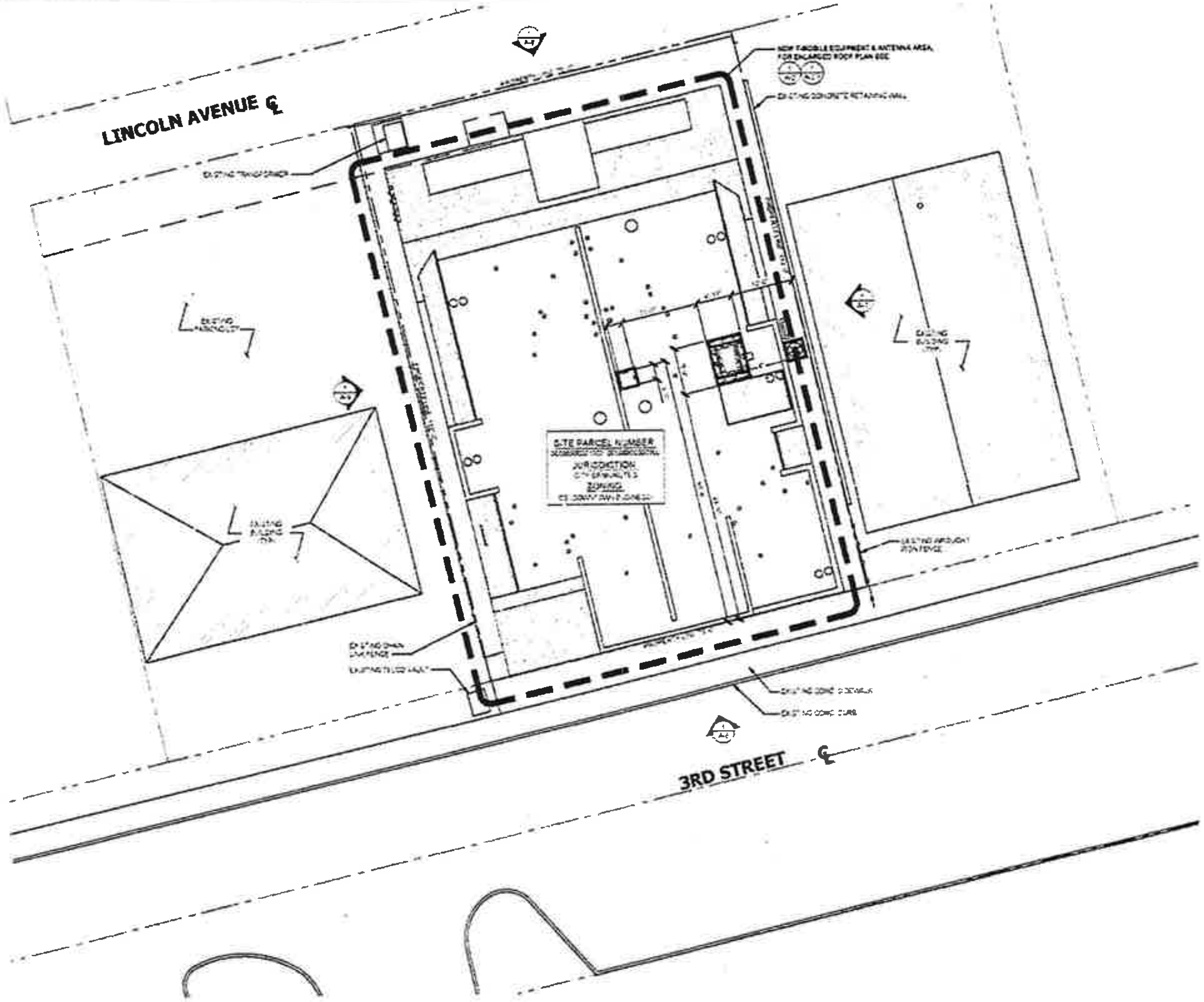
CONSULTANT
ambit consulting

DRAWN BY	CHK	APV
DRH	SF	SF

LICENSER

SHEET TITLE
SITE SURVEY

SHEET NUMBER
SV-1



LANDLORD SIGNATURE

SITE PLAN

1

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
800 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

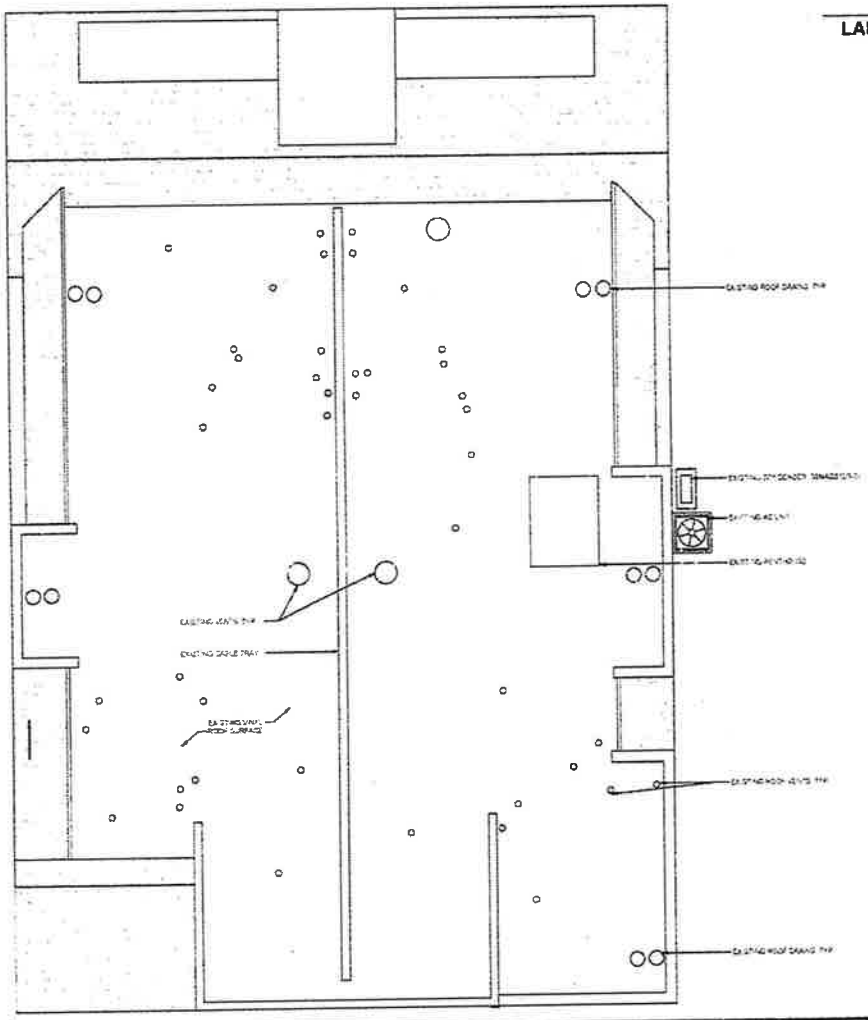
Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

SE01582M
MUKILTEO
DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
SITE PLAN

SHEET NUMBER
A-1

LANDLORD SIGNATURE



EXISTING ENLARGED ROOF PLAN

1

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PMW MARKET OFFICE
450 SOUTH CIRCAS STREET, STE R-133
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2801 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY

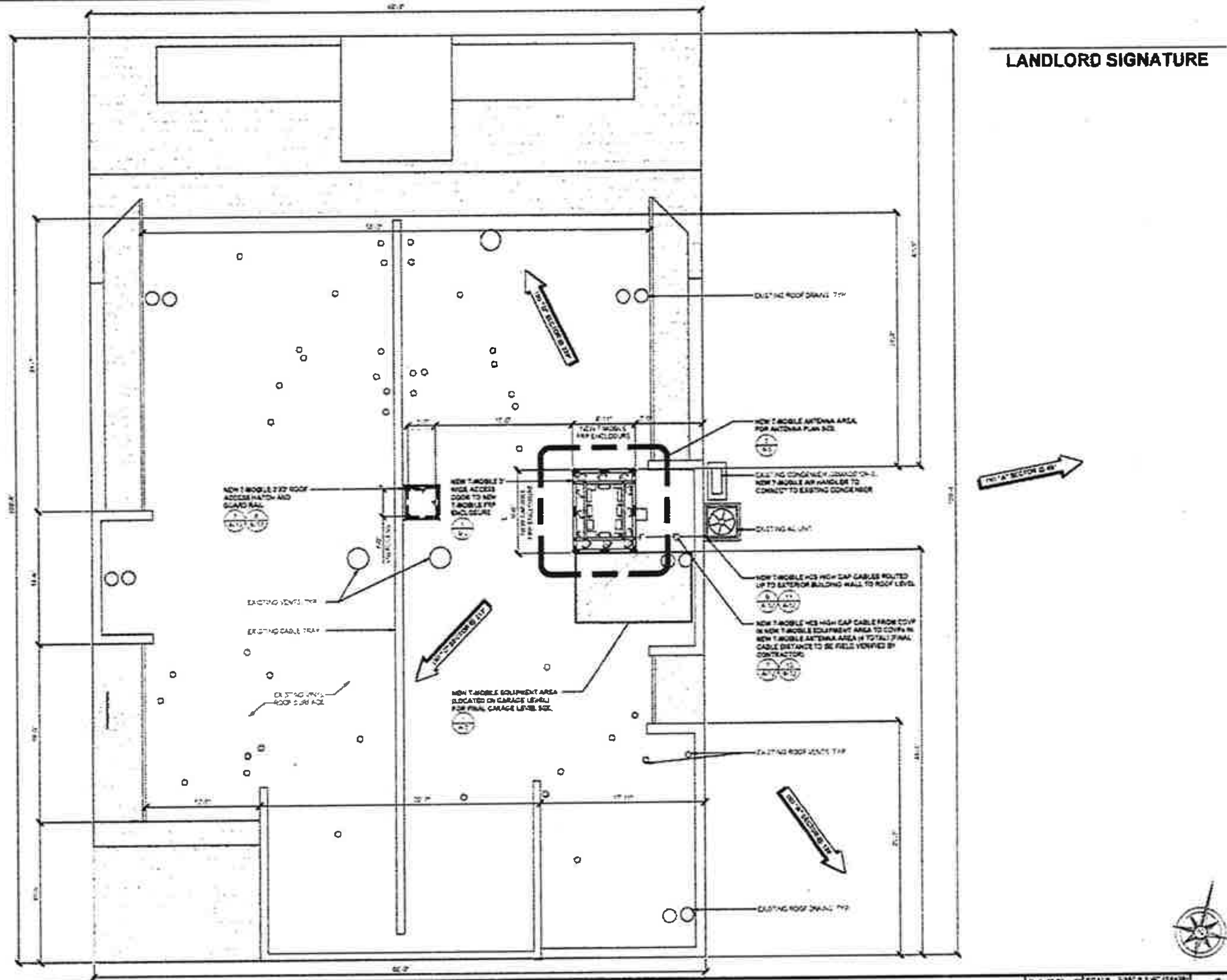
SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
EXISTING ENLARGED ROOF PLAN

SHEET NUMBER
A-2



FINAL ENLARGED ROOF PLAN

1

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
880 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
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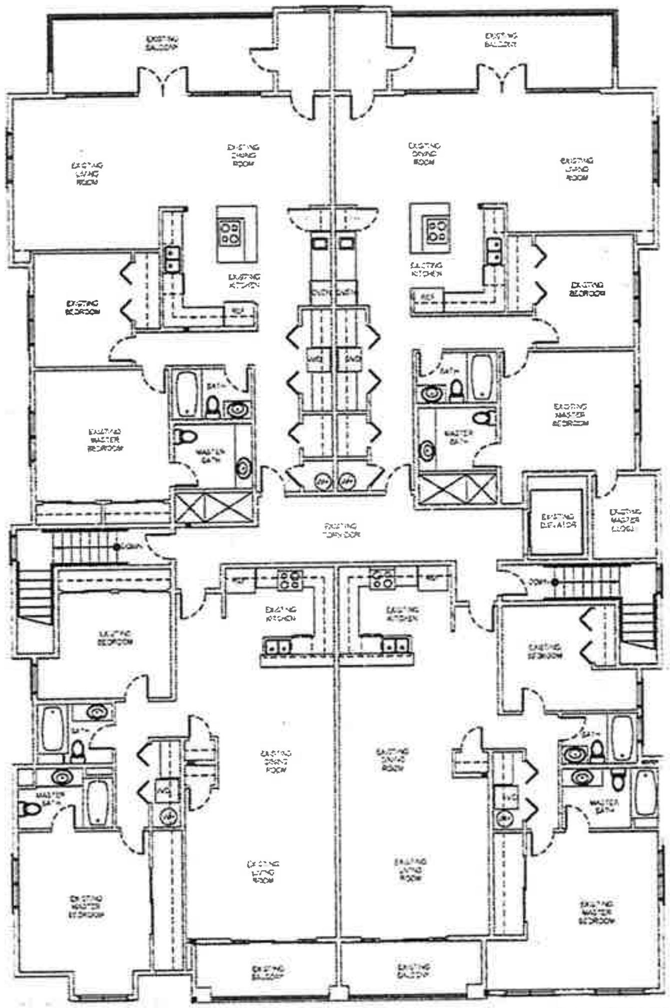
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

SE01582M
MUKILTEO
DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
FINAL ENLARGED ROOF PLAN

SHEET NUMBER
A-2.1

LANDLORD SIGNATURE



EXISTING TOP FLOOR PLAN

1

T-Mobile

19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates

PNW MARKET OFFICE
650 SOUTH ORCAS STREET, STE. R-133
SEATTLE, WA 98108

Technology Associates

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2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

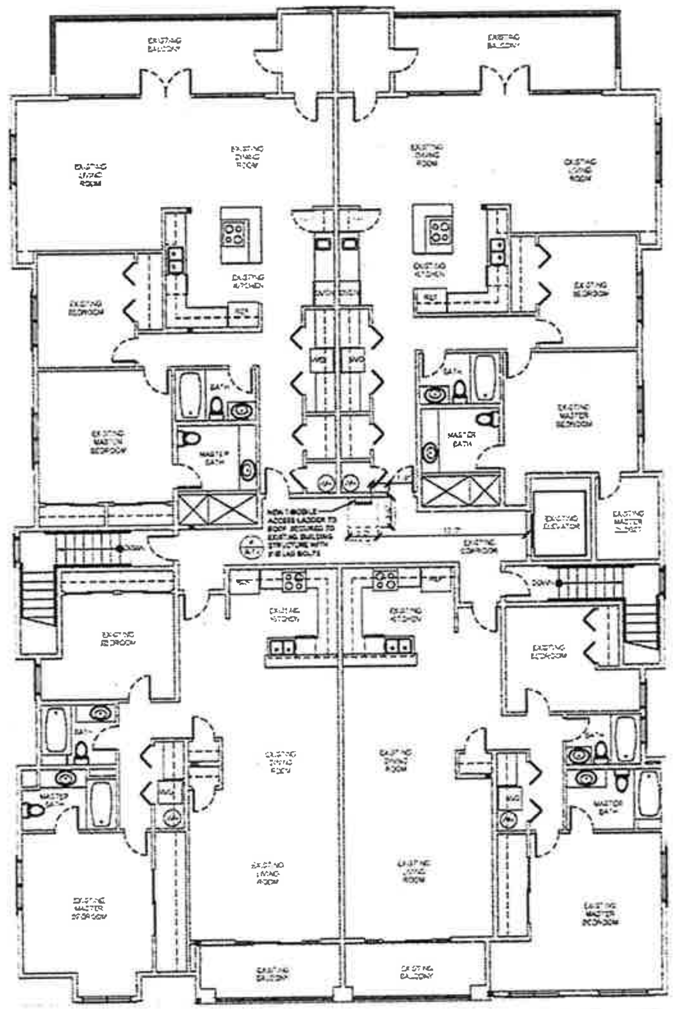
SHEET TITLE

EXISTING TOP FLOOR PLAN

SHEET NUMBER

A-3

LANDLORD SIGNATURE



FINAL TOP FLOOR PLAN

1

T-Mobile

18807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
850 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2251 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

SE01582M

MUKILTEO DOWNTOWN

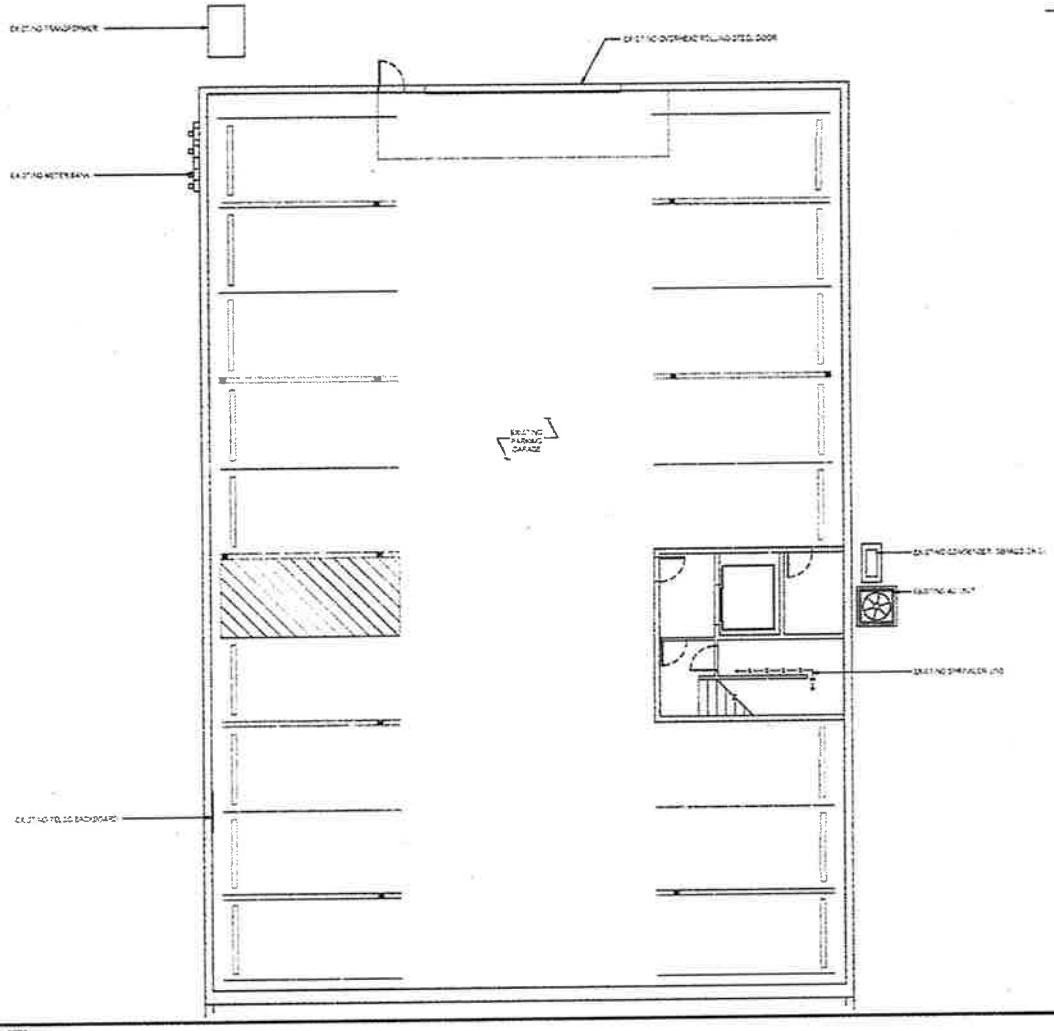
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

FINAL TOP FLOOR PLAN

SHEET NUMBER

A-3.1



LANDLORD SIGNATURE

EXISTING GARAGE LEVEL

1

T-Mobile
18907 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
650 SOUTH ORCAS STREET, STE R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY

SE01582M

MUKILTEO DOWNTOWN

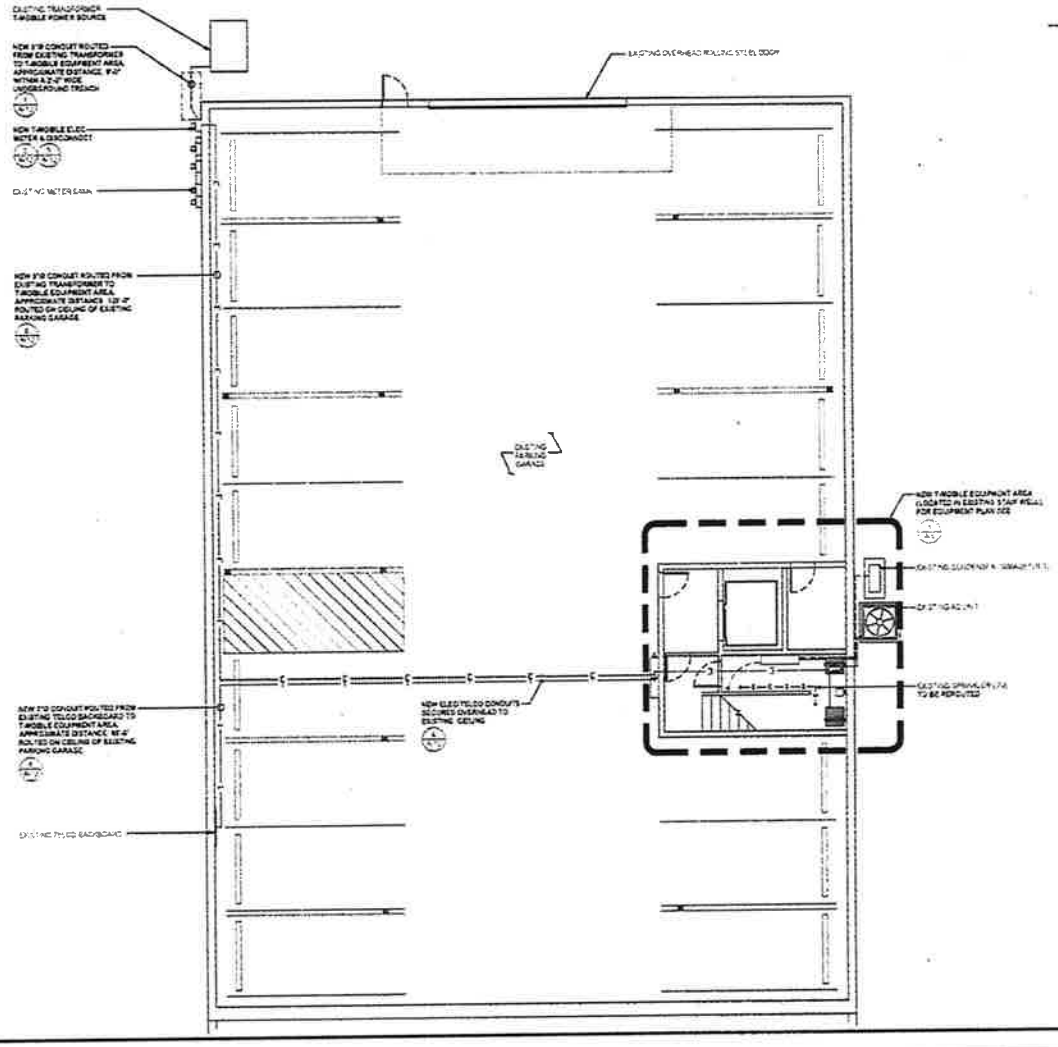
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

EXISTING GARAGE LEVEL

SHEET NUMBER

A-4



LANDLORD SIGNATURE

FINAL GARAGE LEVEL

1

T-Mobile

19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates

MAIN MARKET OFFICE
600 SOUTH ORCAS STREET STE R-103
SEATTLE, WA 98108

Technology Associates

ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
5			
4			
3			
2			
1			

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

FINAL GARAGE LEVEL

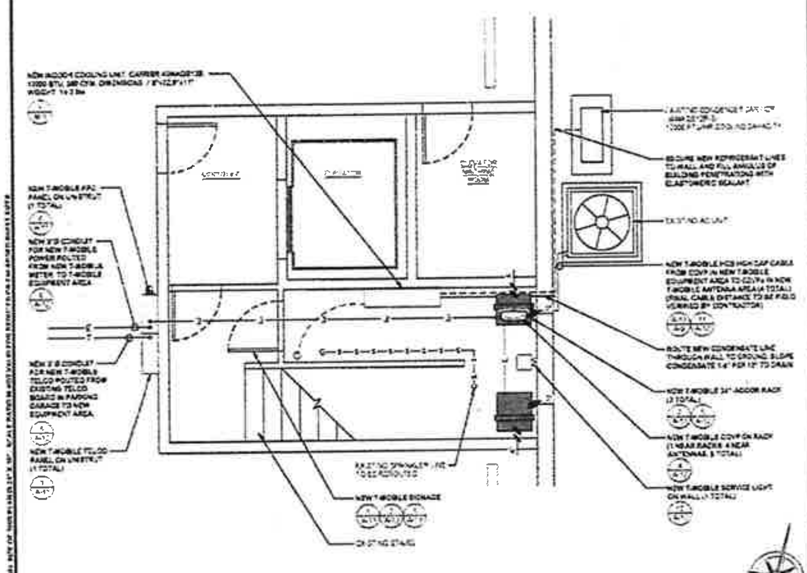
SHEET NUMBER

A-4.1

GROUND FINAL EQUIPMENT INVENTORY								
SCOPE OF WORK	QUANTITY	TECHNOLOGY	MANUFACTURER	EQUIPMENT MODEL	DIMENSIONS (LxWxD)	WEIGHT (LBS)	RACK TYPE (LOCATION OF EQUIPMENT)	RACK QUANTITY
ADD NEW	(1)	BASEBAND	NOKIA	FSMF	[illegible]	[illegible]	INSIDE RACK	(1)
ADD NEW	(2)	BASEBAND	NOKIA	ABIA	[illegible]	[illegible]	INSIDE RACK	(1)
ADD NEW	(1)	BASEBAND	NOKIA	ASIA	[illegible]	[illegible]	INSIDE RACK	(1)
ADD NEW	(2)	EQUIPMENT RACK	COOPER B-LINE	[illegible]	[illegible]	30	EQUIPMENT AREA	N/A
ADD NEW	(1)	COVP	RAYCAP	[illegible]	[illegible]	[illegible]	ON EQUIPMENT RACK	N/A
ADD NEW	(1)	TELCO CABINET	PENTAIR	7' 3 BOX TELEPHONE RACK TYPE 3R	TBD	150	NEW UTILITY UNISTRUT	N/A
ADD NEW	(1)	PPC CABINET	EMERSON	PPC AC MODEL	[illegible]	[illegible]	NEW UTILITY UNISTRUT	N/A
ADD NEW	(1)	METER	TBD	TBD	TBD	TBD	NEW UTILITY UNISTRUT	N/A
ADD NEW	(1)	INDOOR FAN COIL UNIT	MITSUBISHI	[illegible]	[illegible]	[illegible]	WALL	N/A
EXISTING TO REMAIN	(1)	OUTDOOR AIR COOLED CONDENSING UNIT	CARRIER	[illegible]	[illegible]	[illegible]	OUTSIDE ON CONC. PAD	N/A

NOTE:
1. EXISTING SPRINKLER TO BE RELOCATED THROUGH EXISTING WALL AND CHANGED TO HIGH TEMP HEAD.

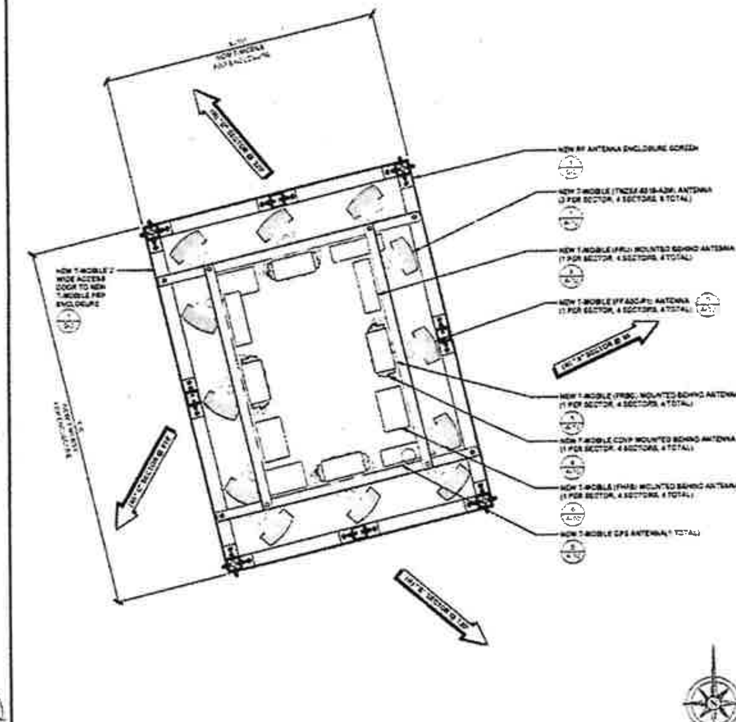
LANDLORD SIGNATURE



EQUIPMENT PLAN (FINAL) 1

TOWER FINAL EQUIPMENT INVENTORY						
SCOPE OF WORK	QUANTITY	TECHNOLOGY	MANUFACTURER	MODEL	DIMENSIONS (LxWxD)	WEIGHT (LBS)
ADD NEW	(4)	ANTENNA	COMMSCOPE	[illegible] (QUAD)	[illegible]	[illegible]
ADD NEW	(4)	ANTENNA	ANDREW	[illegible] (QUAD)	[illegible]	[illegible]
ADD NEW	(4)	RRU	NOKIA	[illegible]	[illegible]	[illegible]
ADD NEW	(4)	RRU	NOKIA	[illegible]	[illegible]	[illegible]
ADD NEW	(4)	RRU	NOKIA	[illegible]	[illegible]	[illegible]
ADD NEW	(4)	COVP	RAYCAP	[illegible]	[illegible]	[illegible]

NOTE:
1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND AZ. DESIGN.
2. REFER TO FINAL CONFIGURATION ANTENNA SCHEDULE ON SHEET [illegible]
3. NEW ANTENNA RF ENCLOSURE [illegible] TO BE PAINTED AND TEXTURED TO MATCH EXISTING EXTERIOR BUILDING.



ANTENNA PLAN (FINAL) 2

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2851 CAMINO DEL RIO SOUTH, STE 300
SAN DIEGO, CA 92108

SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
ANTENNA & EQUIPMENT PLANS

SHEET NUMBER
A-5

LANDLORD SIGNATURE

SOUTH ELEVATION (EXISTING)

1

SOUTH ELEVATION (FINAL)

2

T-Mobile

19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
550 SOUTH OREAS STREET, STE R-133
SEATTLE, WA 98108

Technology Associates
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2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

ELEVATIONS

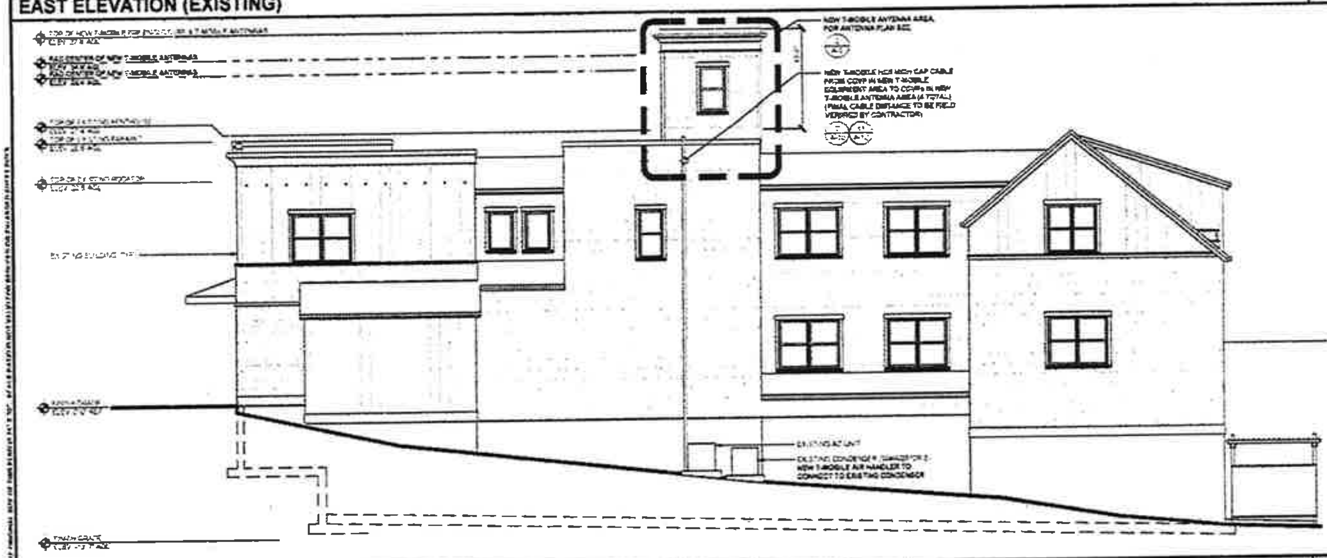
SHEET NUMBER

A-6

LANDLORD SIGNATURE

EAST ELEVATION (EXISTING)

1



EAST ELEVATION (FINAL)

2

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
650 SOUTH ORCAS STREET, STE R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108

SE01582M

MUKILTEO DOWNTOWN

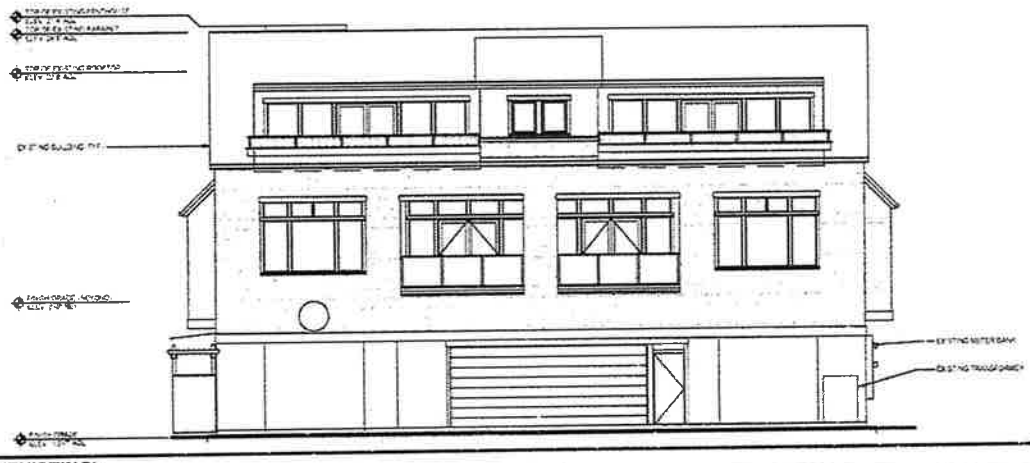
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

ELEVATIONS

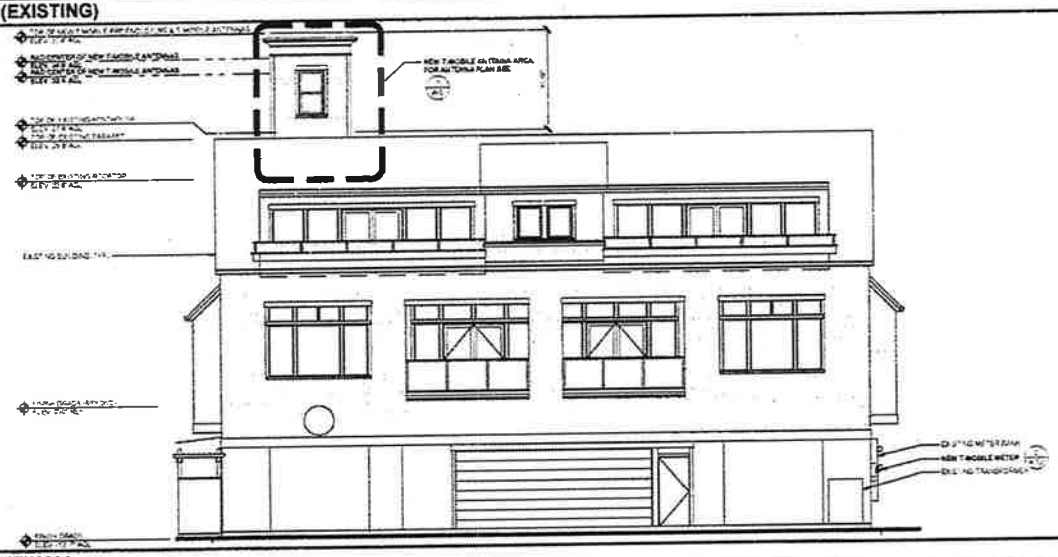
SHEET NUMBER

A-7



NORTH ELEVATION (EXISTING)

1



NORTH ELEVATION (FINAL)

2

T-Mobile

19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates

PWW MARKET OFFICE
600 SOUTH ORCAS STREET, STE R-103
SEATTLE, WA 98108

Technology Associates

ARCHITECTURE & ENGINEERING
3961 CAMINO DEL RIO SOUTH, STE 209
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

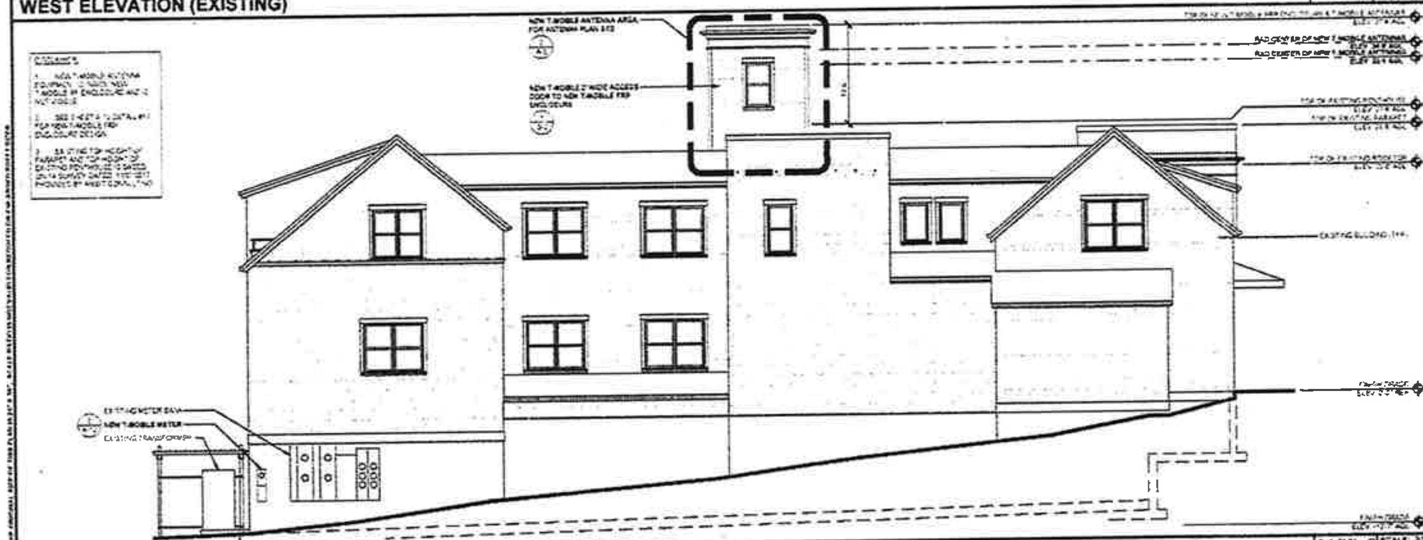
ELEVATIONS

SHEET NUMBER

A-8

WEST ELEVATION (EXISTING)

1



WEST ELEVATION (FINAL)

2

T-Mobile

12807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates

PAW MARKET OFFICE
850 SOUTH ORCAS STREET, STE. R-103
SEATTLE, WA 98108

Technology Associates

ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

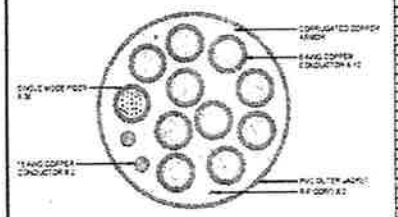
SHEET TITLE

ELEVATIONS

SHEET NUMBER

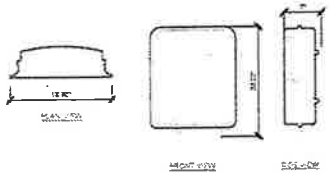
A-9

ARMORED TRUNK HYBRID CABLE - HIGH CAPACITY



HYBRID CABLE HIGH CAPACITY — SCALE N.T.S. — 7

RAYCAP COVP (RNSNDC-7771-PF-48)



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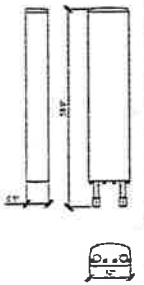
ANDREW TMZXX-6516-A2M



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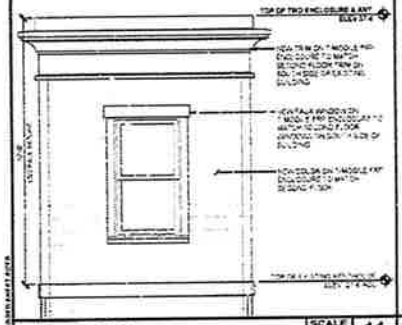
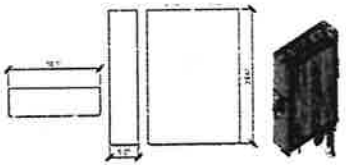


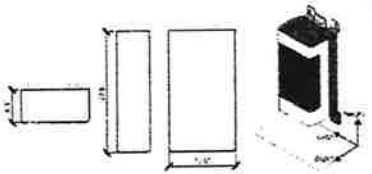
FRP DESIGN — SCALE N.T.S. — 11

NOKIA (AWS, L2100) - FRIJ



FRIJ — SCALE N.T.S. — 8

NOKIA (L700) - FRBG

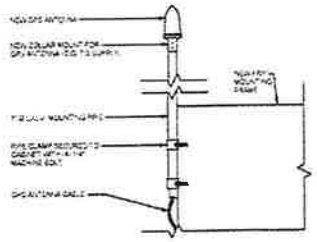


FRBG — SCALE N.T.S. — 5

COMMSCOPE FF-65C-R1

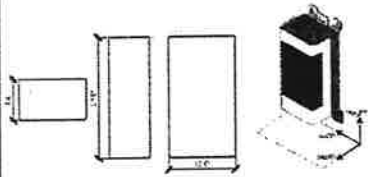
ANTENNA SPECIFICATIONS — SCALE N.T.S. — 2

NOT USED — SCALE N.T.S. — 12

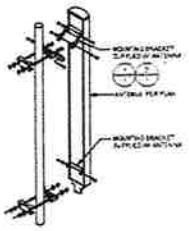


GPS MOUNTING — SCALE N.T.S. — 9

NOKIA (PCS, U1900+L1900) - FHFB



FHFB — SCALE N.T.S. — 6



ANTENNA MOUNTING — SCALE N.T.S. — 3

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18837 NORTH CREEK PARKWAY NORTH
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SAN DIEGO, CA 92108

SE01582M

MUKILTEO
DOWNTOWN

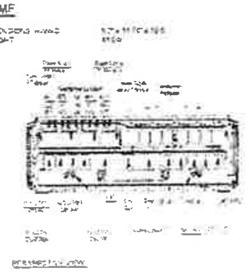
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
ANTENNA & EQUIPMENT DETAILS

SHEET NUMBER
A-10

NOT USED
SCALE N.T.S. 10

FSMF



FSMF
SCALE N.T.S. 7

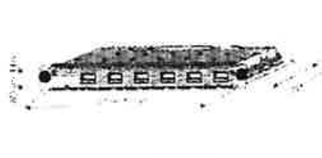
NOT USED
SCALE N.T.S. 11

NOKIA AIRSCALE COMMON UNIT (ASIA)

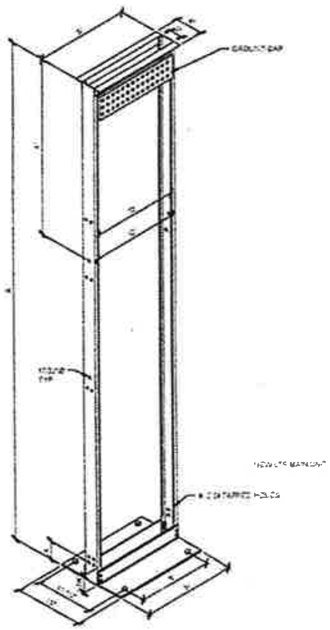
ASIA
SCALE N.T.S. 8

NOT USED
SCALE N.T.S. 12

NOKIA AIRSCALE CAPACITY UNIT (ABIA)



ABIA
SCALE N.T.S. 9



COOPER B-LINE TWO-POST NETWORK EQUIPMENT RACK

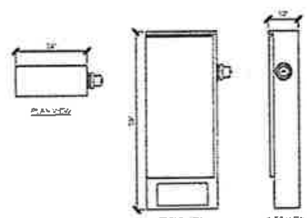
DIMENSIONS	19" RACK WIDTH	23" RACK WIDTH
A OVERALL HEIGHT	30" - 108"	30" - 108"
B OVERALL WIDTH	20 5/16"	24 5/16"
C PANEL MOUNTING	18 5/16"	22 5/16"
D USABLE INSIDE WIDTH	17 3/4"	21 3/4"
E BASE ANCHOR SPACING	18"	22"

UNIVERSAL SPACING (5/8" 5/8" 1/2")

PART NUMBER	'A' HEIGHT	'F' SPACING	MOUNTING SPACES	SHIPPING WEIGHT (lbs)
19" RACK WIDTH				
[illegible]	30"	6"	17	22
[illegible]	45"	[illegible]	24	24
[illegible]	[illegible]	[illegible]	38	27.5
[illegible]	84"	[illegible]	45	30
[illegible]	[illegible]	[illegible]	51	31.5
[illegible]	108"	[illegible]	[illegible]	33.5
23" RACK WIDTH				
[illegible]	30"	6"	17	24.5
[illegible]	45"	[illegible]	24	[illegible]
[illegible]	[illegible]	[illegible]	38	[illegible]
[illegible]	84"	[illegible]	45	32
[illegible]	[illegible]	[illegible]	51	34
[illegible]	108"	[illegible]	[illegible]	36

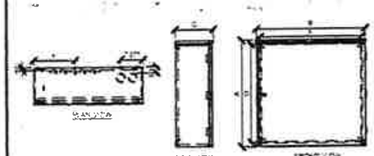
RACK SPECIFICATIONS
SCALE N.T.S. 2

EMERSON PPC (AC MODEL)



PPC SPECIFICATIONS
SCALE N.T.S. 6

FENTAIR T-3 BOX TELEPHONE CABINET, TYPE 3R



TELCO SPECIFICATIONS
SCALE N.T.S. 3

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ARCHITECTURE & ENGINEERING
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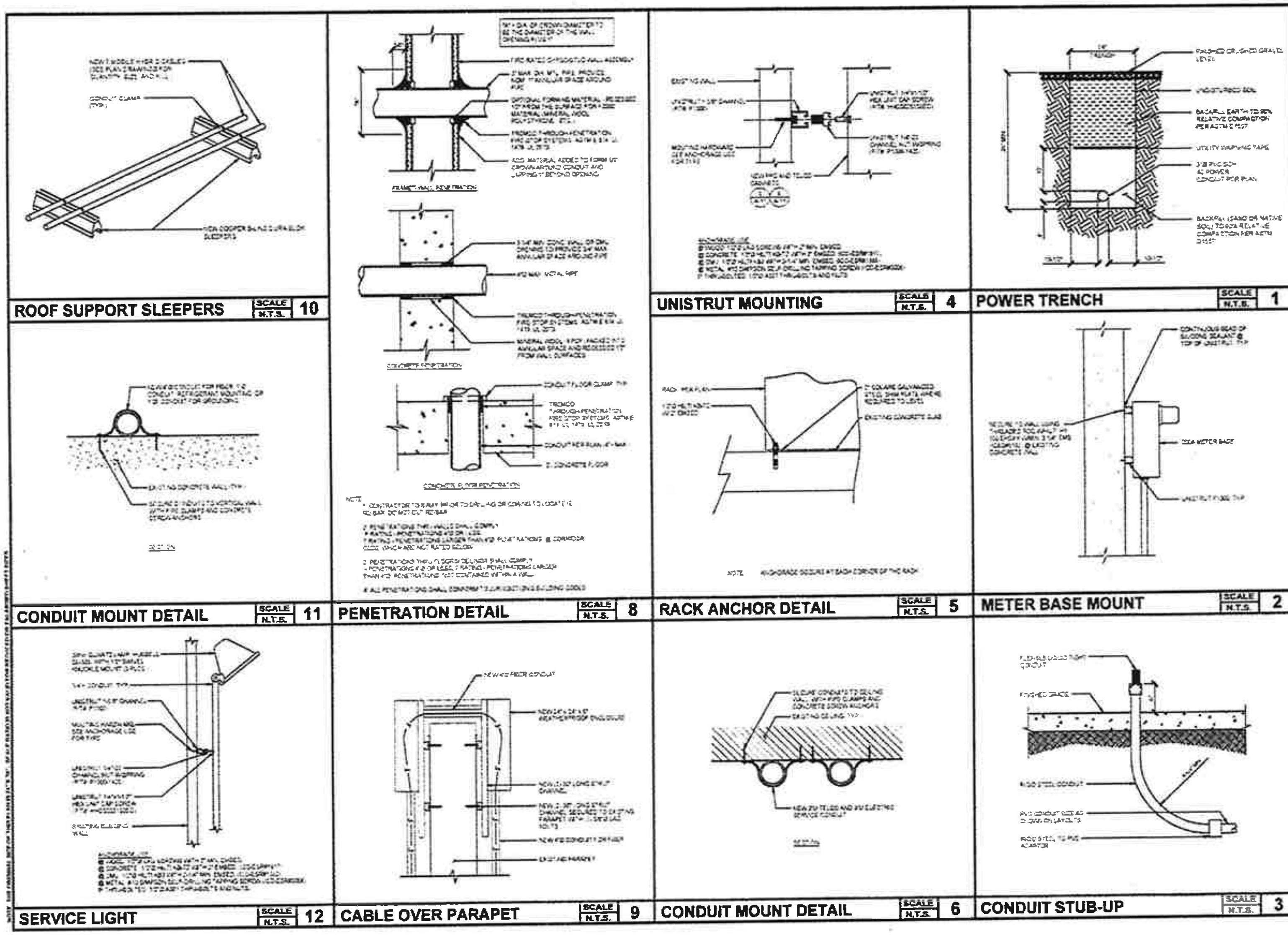
SAN DIEGO, CA 92108

SE01582M
MUKILTEO
DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
RACK & EQUIPMENT DETAILS

SHEET NUMBER
A-11



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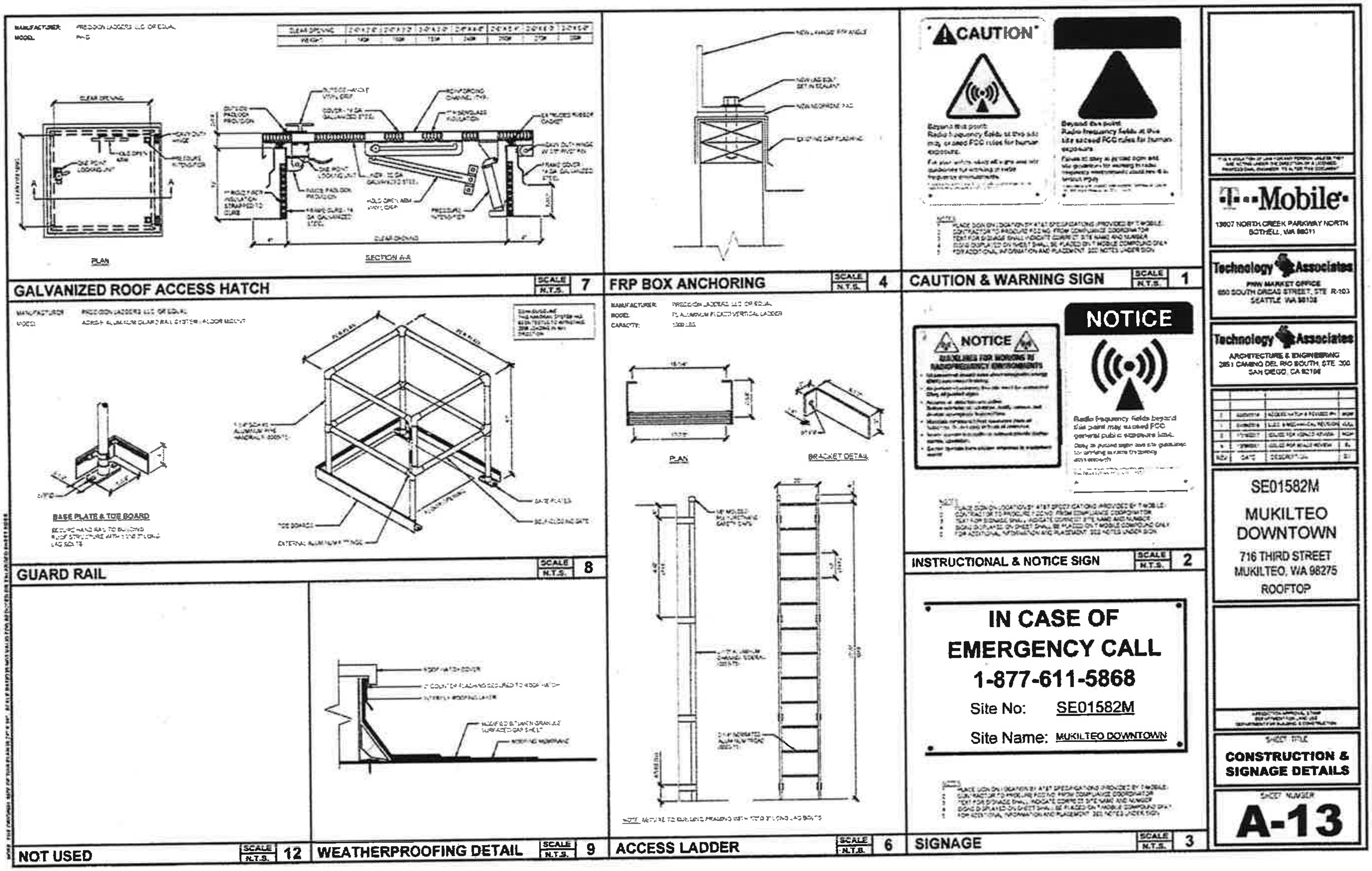
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
A-12


GALVANIZED ROOF ACCESS HATCH
SCALE N.T.S. 7
PLAN
SECTION A-A
FRP BOX ANCHORING
SCALE N.T.S. 4
CAUTION
Beyond this point:
Radio frequency fields at this site may exceed FCC rules for human exposure.
CAUTION & WARNING SIGN
SCALE N.T.S. 1
GUARD RAIL
SCALE N.T.S. 8
BASE PLATE & TOE BOARD
PLAN
BRACKET DETAIL
NOTICE
GUIDELINES FOR WORKING IN RADIOFREQUENCY ENVIRONMENTS
NOTICE
Radio frequency fields beyond this point may exceed FCC general public exposure limit.
INSTRUCTIONAL & NOTICE SIGN
SCALE N.T.S. 2
IN CASE OF
EMERGENCY CALL
1-877-611-5868
Site No: SE01582M
Site Name: MUKILTEO DOWNTOWN
NOT USED
SCALE N.T.S. 12
WEATHERPROOFING DETAIL
SCALE N.T.S. 9
ACCESS LADDER
SCALE N.T.S. 6
SIGNAGE
SCALE N.T.S. 3
T-Mobile
13807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011
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SAN DIEGO, CA 92108
SE01582M
MUKILTEO
DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP
SHEET TITLE
CONSTRUCTION &
SIGNAGE DETAILS
SHEET NUMBER
A-13

ALL TRADES

A. THE FOLLOWING ABBREVIATIONS OR ACRONYMS MAY BE USED IN THESE DRAWINGS:

WSBC	WASHINGTON STATE BUILDING CODE
IBC	THE INTERNATIONAL BUILDING CODE, 2015 EDITION WITH CITY OF SEATTLE BUILDING CODE AMENDMENTS
ICC	THE INTERNATIONAL CODE CONFERENCE, AUTHOR OF IBC, SOURCE AUTHORITY FOR GENERAL CODE REQUIREMENTS
ACI	THE AMERICAN CONCRETE INSTITUTE, SOURCE AUTHORITY FOR STRUCTURAL CONCRETE WORK
AISC	THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SOURCE AUTHORITY FOR STRUCTURAL STEEL WORK
AISI	THE AMERICAN IRON AND STEEL INSTITUTE, SOURCE AUTHORITY FOR LIGHT GAGE STEEL FRAMING
AWS	THE AMERICAN WELDING SOCIETY, SOURCE AUTHORITY FOR WELDING
ASTM	THE AMERICAN SOCIETY FOR TESTING OF MATERIALS, SOURCE AUTHORITY FOR MATERIAL QUALITY AND TESTING STANDARDS
CRSI	THE CONCRETE REINFORCING STEEL INSTITUTE, SOURCE AUTHORITY FOR REINFORCING STEEL FABRICATION AND INSTALLATION STANDARDS

[illegible]

STRUCTURAL STEEL

[illegible]

FRP (FIBER REINFORCED PLASTIC)

[illegible]

CONSTRUCTION ADMINISTRATION

[illegible]

SPECIAL INSPECTION

[illegible]

STRUCTURAL NOTES

SCALE N.T.S. 1

T-Mobile

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Technology Associates
ARCHITECTURE & ENGINEERING
2051 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
A	[illegible]	[illegible]	[illegible]

SE01582M

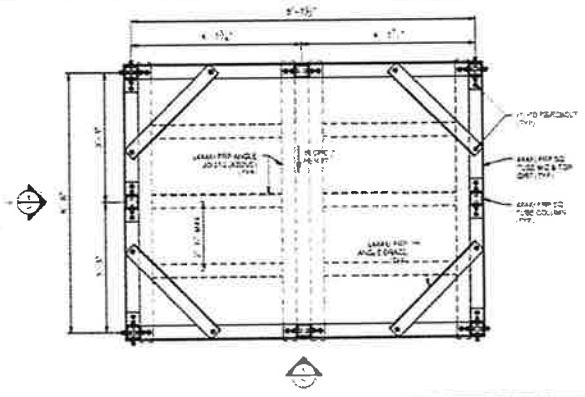
MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275

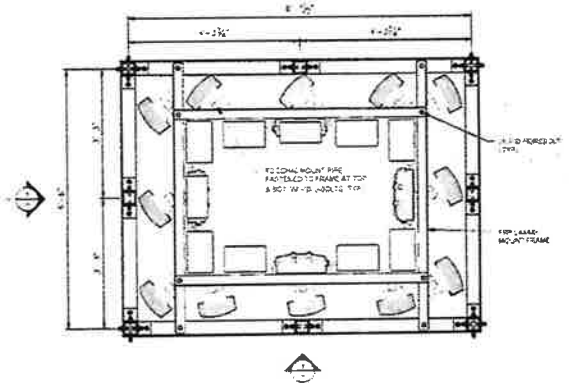
ROOFTOP

SHEET TITLE
STRUCTURAL NOTES

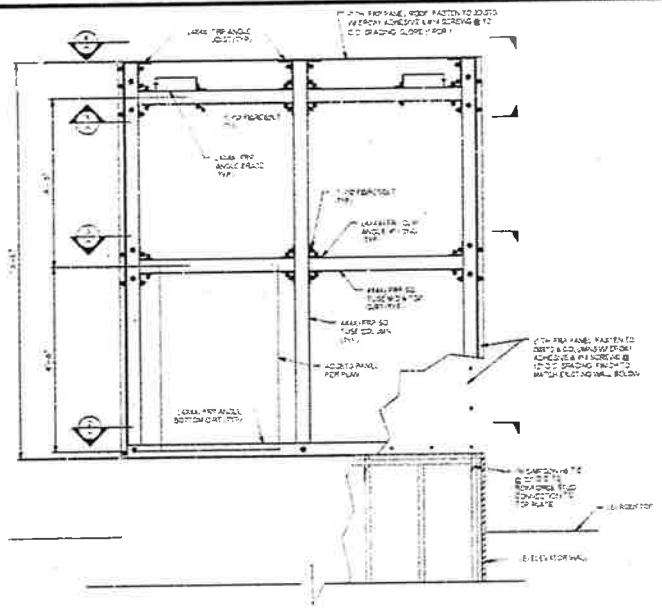
SHEET NUMBER
S-1



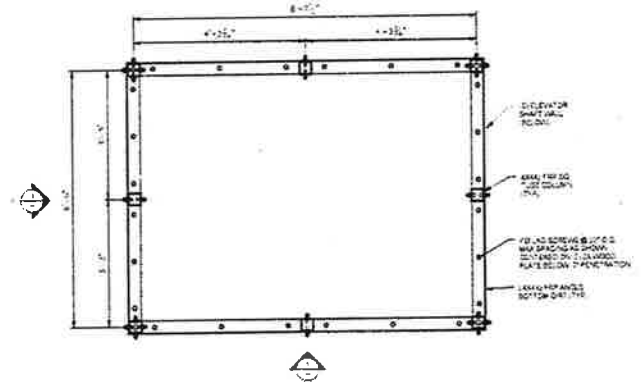
TOP BRACING PLAN — SCALE N.T.S. — 4



ANTENNA MOUNT / BRACING PLAN — SCALE N.T.S. — 3



FRP ENCLOSURE ELEVATION — SCALE N.T.S. — 1



BOTTOM GIRT / ANCHOR PLAN — SCALE N.T.S. — 2

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SEATTLE, WA 98108

Technology Associates
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2851 CAMINO DEL RIO SOUTH, STE. 200
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
A	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

S-2

KEYED NOTES

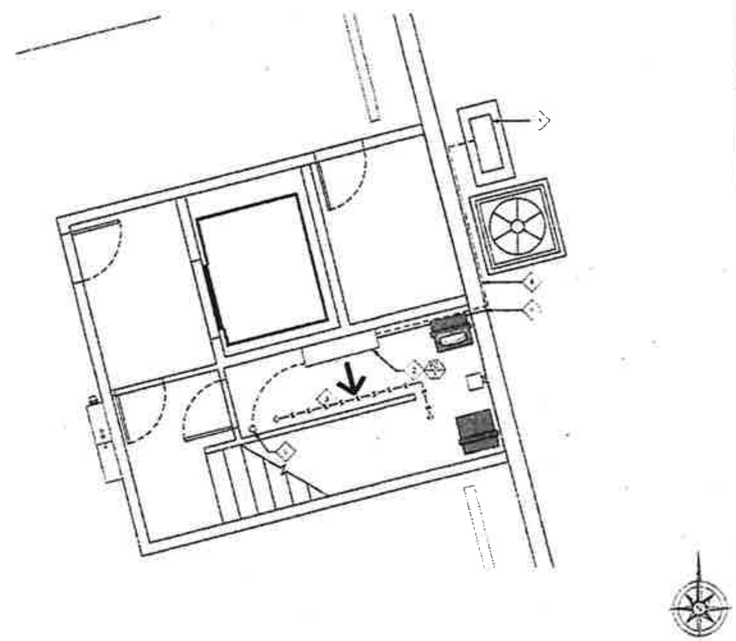
HVAC GENERAL NOTES

HVAC EQUIPMENT SCHEDULE

ENERGY CONSERVATION NOTE

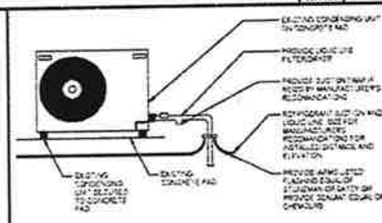
ENVIROMENTAL CONTROL GENERAL NOTES

NOTES — SCALE N.T.S. — 1



MECHANICAL PLAN — SCALE N.T.S. — 2

NOTES — SCALE N.T.S. — 6



CONDENSING UNIT DETAIL — SCALE N.T.S. — 3

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PNW MARKET OFFICE
690 SOUTH ORCAS STREET, STE R-103
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO CA 92108

REV	DATE	DESCRIPTION	BY

SE01582M

MUKILTEO DOWNTOWN

716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
MECHANICAL PLAN & NOTES

SHEET NUMBER
M-1

DIMENSIONS - INDOOR

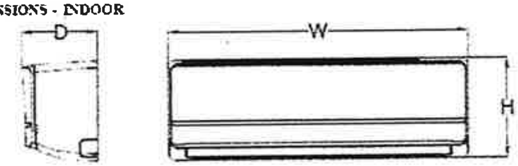

Fig. 2 – Indoor unit

Unit Size	W in (mm)	D in (mm)	H in (mm)	Operating Weight lb (kg)
9K/12K	32.9 (835)	7.8 (198)	11.0 (280)	19.2 (8.7)
18K	39.0 (990)	8.6 (218)	12.4 (315)	26.5 (12.0)
24K/30K	46.7 (1186)	10.2 (258)	13.4 (340)	40.6 (18.5)

DIMENSIONS - OUTDOOR

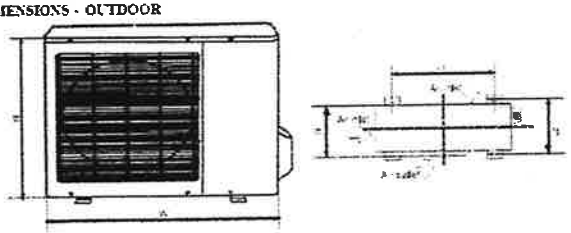

Fig. 3 – Outdoor unit

Model	W in (mm)	D in (mm)	H in (mm)	L1 in (mm)	L2 in (mm)	Operating Weight lb (kg)
9K/12K	30.0 (760)	12.2 (310)	22.0 (558)	20.9 (530)	11.4 (290)	60.5 (27.4)
18K	33.3 (845)	12.1 (320)	27.6 (700)	22.1 (560)	13.2 (335)	102.5 (46.5)
24K	37.2 (945)	15.5 (395)	31.9 (810)	25.1 (640)	15.9 (405)	137.6 (62.4)
30K	37.2 (945)	15.5 (395)	31.9 (810)	25.1 (642)	15.9 (405)	157.6 (71.5)

CLEARANCES - INDOOR

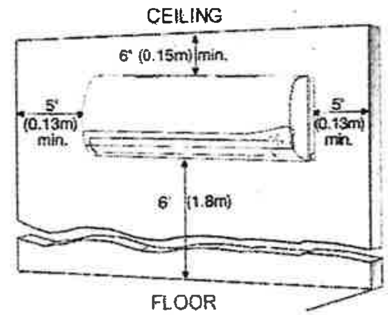

Fig. 4 – Indoor Unit Clearance

CLEARANCES - OUTDOOR

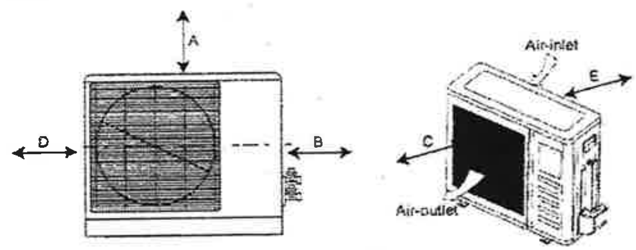

Fig. 5 – Clearances Outdoor

UNIT	Minimum Value in. (mm)
A	24 (609)
B	24 (609)
C	24 (609)
D	4 (101)
E	4 (101)

WALL MOUNTED AIR-CONDITIONING SYSTEM: 40MAQB12B ONLY

SCALE N.T.S. 1

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2851 CAMINO DEL RIO SOUTH, STE. 203
SAN DIEGO, CA 92108

SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER
M-2

1 GENERAL REQUIREMENTS

A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY AS THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.

B. THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.

C. THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT SPECIFICALLY OR SHOWN WHICH ARE NECESSARY FOR BUILDING OPERATION OF ALL SYSTEMS.

D. THE CONTRACTOR SHALL PREPARE AND SUBMIT A COMPLETE AND OPERATIONAL SYSTEM WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.

E. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ARCHITECT/ENGINEER.

F. COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.

G. THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THE CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER, REPLACE WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.

H. ANY ERROR OR OMISSION OR DEVIATION FROM ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.

I. "PROVIDE" SIGNIFIES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.

J. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUISITE FEES.

2 EQUIPMENT LOCATION

A. THE DRAWINGS INDICATE GENERALLY BUT NOT THE DESIRED LOCATION AND THE ARRANGEMENT OF THE MAJOR ITEMS OF EQUIPMENT, DUCTS AND PIPING. THE CONTRACTOR SHALL STUDY ALL DRAWINGS AND ASSIST THE ARCHITECT/ENGINEER IN SELECTING THE MOST SUITABLE AND ADVANTAGEOUS LOCATIONS FOR ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT. HE SHALL ALSO STUDY THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL CONDITIONS ENCOUNTERED.

B. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OF APPARATUS OR EQUIPMENT ARE NECESSARY DUE TO FIELD CONDITIONS, IN THE BUILDING STRUCTURE OR TO REARRANGEMENT OF PLANNED AIR EQUIPMENT, SUCH CHANGES SHALL BE MADE AT NO COST PREVIOUS TO THE CHANGE. IF SUCH CHANGES REQUIRE ADDITIONAL PIPE AND WORK SHALL BE FURNISHED AT THE SAME UNIT PRICE AS INSTALLED AND EXTRA MATERIALS ARE REQUIRED.

C. LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FINAL LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE. ENSURE THAT THE WORK OF THIS SECTION, WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR, IS SO ARRANGED AS TO CAUSE THE LEAST AMOUNT OF CHANGE TO EQUIPMENT AND TO DRAWINGS. WHERE SUCH CHANGES ARE NECESSARY, OBTAIN WRITTEN ACCEPTANCE FROM ARCHITECT/ENGINEER PRIOR TO MAKING CHANGES BEFORE PROCEEDING.

3 SHOP DRAWINGS

A. N/A UNLESS NOTED OTHERWISE.

4 SUBSTITUTIONS

A. NO SUBSTITUTIONS ARE ALLOWED.

5 TESTS

A. BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC. ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

6 PERMITS

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL THE REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

7 GROUNDING

A. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONNECTORS AND EQUIPMENT GROUNDING AS REQUIRED BY ARTICLE 250 OF NATIONAL ELECTRICAL CODE.

B. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE AN EFFECTIVE ELECTRICAL CONTINUITY.

C. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.

D. REFER TO GROUND BUS DETAILS. PROVIDE NEW SYSTEM COMPLETE WITH CONDUCTORS, GROUND RODS, AND OF SCRIBED TERMINATIONS.

E. ALL GROUNDING CONDUCTORS SHALL BE SOLID UNLESS COPPER AND ANNEALED UNLESS NOTED OTHERWISE.

F. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT CONDUCTORS SHALL BE #6 STRANDED GROUND THWN/GREEN INSULATION.

G. ALL GROUND CONNECTIONS SHALL BE MADE WITH THERMO-WELD COMPRESSION TYPE OR BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.

H. PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.

I. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND AFFIDAVIT TO SHART (SHE CONTRACTOR) OF FINAL COMPLETED AND FILLED WORK.

8 UTILITY SERVICE

A. TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM IN THEIR DETAILS TO THE STANDARDS OF THE SERVING COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS BEFORE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITY.

B. CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

9 PRODUCTS

A. ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC AND NEMA AND THEY SHALL BE UL LISTED AND LABELED.

B. CONDUIT

1. RIGID CONDUIT SHALL BE U.L. LABELED GALVANIZED STEEL, EXCEPT WHERE THE INTERIOR WALLS ARE LEFT EXPOSED AND INSTALLED IN AN UNFINISHED ROOM, SUCH AS WITH THE EARLY CONSTRUCTION PUBLIC ROADWAYS. IN BASEMENTS SHALL BE EMT. ALL CONDUITS ON BUILDING EXTERIOR WALLS SHALL BE CONCEALED WITH EMT. SHALL BE TO CAPPED WRAPPED WITH 4 MONTS WRAP ADDED NO. 3.

2. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL. IT SHALL BE COMPRESSION TYPE (EMT SHALL BE USED ONLY FOR INTERIOR RUNS).

3. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. IT IN USES SHALL BE LIQUIDTIGHT TYPE. SEALTIGHT FLEXIBLE CONDUIT ALL CONDUIT IN CEILINGS OF DRY PERLIGHT SHALL HAVE FULL GROUNDING WIRE.

4. CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILINGS OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. MUST EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLATION.

5. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 UNLESS NOTED OTHERWISE, AT A MINIMUM DEPTH OF 24" BELOW GRADE.

6. ALL CONDUIT ONLY (NO WIRE) SHALL HAVE PULL ROPE.

7. CONDUITS PASSING THROUGH ROOFS SHALL BE FACTORY FABRICATED WITH ELEMENTS SUPPLIED COMPLETE WITH NON-HARDENING MASTIC.

C. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID CONDUCTOR. #8 AWG AND LARGER SHALL BE STRANDED. TYPE THWN INSULATION ONLY UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE "XHW" INSULATION SHALL BE USED.

D. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED AS REQUIRED TO ACCOMMODATE ALL DEVICES AND WIRING.

E. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH, UNLESS NOTED BY ARCHITECT/ENGINEER, 20 AMP 125 VOLT, THREE WIRE GROUNDING TYPE NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTOR TYPE WITH SIERRA MARK LIFT COVER PLATES.

F. TOGGLE SWITCHES SHALL BE 15 AMP, 120 VOLT, AC SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE). MOUNT SWITCHES AT 48" ABOVE FINISHED FLOOR.

G. SAND BOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOUNDLESS COMPRESSION SPRING TYPE CORNER CONNECTORS. COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK BRAKE QUICK BREAK BOLT-ON TYPE THERMAL MAGNETIC CIRCUIT BREAKERS MOUNT TOP OF THE PANEL BOARDS AT 6'-0" ABOVE FINISHED FLOOR. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY.

H. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

I. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG, COPPERWELD OR APPROVED EQUAL.

10 INSTALLATION

A. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC. SUPPORT CHANNELS FROM UNDERSIDE OF STRUCTURAL MEMBERS. ALL SUPPORTS SHALL BE SECURELY FASTENED, HORIZONTAL AND PLUMB IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.

B. CUTTING AND CHASE SHALLED DRILLING. PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS, CEILING, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE ARE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ARCHITECT/ENGINEER BEFORE CORING.

C. ALL SLEEVING HOLES AND CONCRETE INSERTION FOR FASTENING OR ANCHORING PURPOSES. GRADE "A" CONCRETE THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC. IT MUST BE CLEARLY UNDERSTOOD THAT TRENCHING AND/OR BOX CORING IS TO BE WILL NOT BE TOLERATED. CUT OR DAMAGED UNDER READY CONCRETE.

D. LOCATION OF TENDONS AND/OR POST GROUND STEEL, AND NOT DEFINITELY KNOWN AND PROPERLY MARKED, MUST BE EXAMINED FOR ALL CONCRETE CORING AND FOR ALL TRENCHING AND BOX CORING. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO LOCATE THE AFOREGOING AND/OR STEEL TENDONS.

E. PENETRATION OF FIRE RATED WALLS SHALL BE PACKED, STUFFED & ADDITIONALLY APPLIED AS REQUIRED BY THE U.B.C.

11 PROJECT CLOSEOUT

A. UPON COMPLETION OF WORK, CONDUCT COMPLETE SHORT CIRCUIT AND FALL FROM GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

B. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.

C. ALL BROCHURES, OPERATING MANUALS, CATALOG SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

ELECTRICAL GENERAL NOTES — 1

ELECTRICAL NOTES — SCALE N.T.S. — 2

1. EQUIPMENT POWER SHALL BE 208A, 1Ø, 3W, 120/208V OR 120/240V.
2. UTILITY RECEPTACLE IS A GFCI DUPLEX OUTLET INSTALLED ON THE EXTERIOR OF RPC.
3. PROVIDED A MIN. 36" WORK CLEARANCE IN FRONT OF PANELS. SERVICE EQUIPMENT.
4. ALL BREAKERS IN THE ELEC. PANEL ARE RATED TO 200 RMS SYMMETRICAL AMPS (NEMA TYPE 1).
5. ALL WIRING SHALL BE COPPER TO 2 GAUGE.
6. CONDUIT REQUIREMENTS: TYPE: E.M.T. UNDERGROUND: PVC SCHEDULE 80. CONCRETE ENCASED: EMT. INCLUDE A TRAFFIC AREAS. EXPOSED: RGS ABOVE GRADE.
7. ANY NON-EMERGENCY GENERATOR PLUGS OR A P.P. CONTRACTOR TO VERIFY EXACT LOCATION WITH LANDLORD AND UTILITY COORDINATOR.
8. PLACE STABLE TAPE AND PULL ROPE IN THE CONDUITS AS REQUIRED.

GENERAL ABBREVIATIONS — SCALE N.T.S. — 3

A	AMPERE	ELEC	ELECTRICAL	MFR	MANUFACTURER
ACSR	ANTENNA CABLE COVER ASSEMBLY	EMT	ELECTRICAL METALLIC TUBING	MTG	MOUNTING
		ENCL	ENCLOSURE	MTD	MOUNTED
A.C.	AMPERE INTERRUPTING	EXIST	EXISTING	NTS	NOT TO SCALE
AMP	AMPERE	FAU	FAN UNIT	NIC	NOT IN CONTRACT
APPROX	APPROXIMATELY	F.A.	FIRE ALARM	NEMA	NATIONAL MANUFACTURERS ASSOCIATION
AT	AMPERE TYPE	F. LUX	FLUORESCENT	N.L.	NON-LOCKABLE
AWG	AMERICAN WIRE GAUGE	FT	FOOT/FEET	NEC	NEW
BATT	BATTERY	FU	FUSE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
BD	BOARD	G	GROUND	O.C.	ON CENTER
BM	BRANCH	GEN	GENERATOR	OH	OVERHEAD
BRKR	BREAKER	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	P	POLE
BTWN	BARE TRANCE COPPER WIRE			PCS	PERSONAL COMMUNICATION SYSTEM
BTS	BASE TRANSCEIVER SYSTEM	GND	GROUND	PH	PHASE
C	CONDUIT	HPS	HIGH PRESSURE SODIUM	PH	PHASE
CAB	CABINET	HR	HOUR	RAD BOARD	RADIO BOARD
CB	CIRCUIT BREAKER	HTBT	HEAT TRACE TAPE/BOX HEAT	RMC	RIGID METALLIC CONDUIT
CKT	CIRCUIT	HZ	HERTZ	RNC	RIGID NON-METALLIC CONDUIT
CONT	CONTINUOUS	I.G.	ISOLATED GROUND	SCH	SCHEDULE
CPH	CEPHEID	IPS	IRON PIPE SIZE	SPEC	SPECIFICATION
DEMO	DEMOLISH	KA	KILO AMPERE INTERRUPTING CAPACITY	SW	SWITCH
E	EXISTING	MAX	MAXIMUM	TYP	TYPICAL
EMP	EMERGENCY POWER RECEPTACLE	MECH	MECHANICAL	UNO	UNLESS NOTED OTHERWISE
		MIN	MINIMUM	V	VOLT
		MISC	MISCELLANEOUS	W	WATT OR WIRE
				WP	WEATHERPROOF
				XFMR	TRANSFORMER

GENERAL LEGEND — SCALE N.T.S. — 4

- OHP/UHP — OVERHEAD TELEPHONE/OVERHEAD POWER
- OHT — OVERHEAD TELEPHONE LINE
- OHP — OVERHEAD POWER LINE
- E — POWER RUN
- T — TELEPHONE RUN
- T/E — POWER/TELEPHONE RUN
- G — GROUNDING CONDUCTOR
- GROUNDING CONDUCTOR
- CONDUIT UNDERGROUND
- FUSE SIZE AND TYPE AS NOTED
- SAFETY SWITCH OR DISCONNECT SWITCH WITH FUSES AS NOTED OR BREAKER, SIZE OR CATALOG NO. AS NOTED
- MANUAL TRANSFER SWITCH OF 200A 1Ø 3W NEMA 3R ENCLOSURE
- LIGHTING FIXTURE, FLUORESCENT, 1'-0" W x 4'-0" LONG, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #XXXXXX
- LIGHTING FIXTURE, FLUORESCENT, 1'-0" W x 4'-0" LONG, SURFACE MOUNTED TYPE, HUBBELL LIGHTING CATALOG #XXXXXX
- LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 175W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #XXXXXX SET OR WITH HUBBELL LIGHTING CATALOG #XXXXXX
- EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING W/BATTERY PACK, HUBBELL LIGHTING CATALOG #XXXXXX
- EXIT — COMBINATION, EXIT SIGN & EMERGENCY LIGHTING HUBBELL LIGHTING CATALOG #XXXXXX
- EMERGENCY LIGHTING, 2/12W, HUBBELL LIGHTING CATALOG #XXXXXX
- LIGHTING FIXTURE, WALL SCONCE, 42W, HUBBELL LIGHTING CATALOG #XXXXXX
- LIGHTING FIXTURE, WALL SCONCE, QUARTZ, 100W, HUBBELL LIGHTING CATALOG #XXXXXX
- HCL — LIGHTING FIXTURE, 175W, METAL HALIDE, HUBBELL CAT #XXXXXX-HA
- SPLICE PIT, CITY STANDARD, MOUNTED IN, BELOW GRADE
- SPLICE PIT, CITY STANDARD, MOUNTED IN, BELOW GRADE
- CHEMICAL GROUND ROD, 8'-0" GROUND ROD
- CADWELD CONNECTION
- MECHANICAL CONNECTION
- HAND GROUND CONNECTION
- CIRCUIT BREAKER
- UTILITY METER BASE
- TRANSFORMER
- STEP DOWN TRANSFORMER
- RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE, GROUNDING TYPE, HUBBELL CATALOG #5362
- TOGGLE SWITCH, 15 AMP, 120 VOLT, 1 POLE, HUBBELL CATALOG #HBL1221
- TOGGLE SWITCH, 15 AMP, 120 VOLT, 3 WAY
- OCCUPANCY SENSOR, DETECTOR, WALL MOUNTED, WITH HORN & AUXILIARY CONTACT, 120 VAC, 60 HZ, VIA PART NO. 71330
- MOTOR
- IN POLE MOUNTED ATM/CR
- IN POLE MOUNTED ATM/P
- IN PAD MOUNTED ATM/CR
- IN PAD MOUNTED ATM/P

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REV	DATE	DESCRIPTION	BY
7	03/09/10	ADDED ANTENNA & EQUIPMENT PH	MSM
6	01/08/10	ELEC. & MECHANICAL REVISIONS	JLW
5	12/18/09	ADDED PCS EQUIPMENT	MSM
4	12/08/09	ISSUED FOR PERMIT REVISION	FI
3	11/06/09	ISSUED FOR PERMIT	FI

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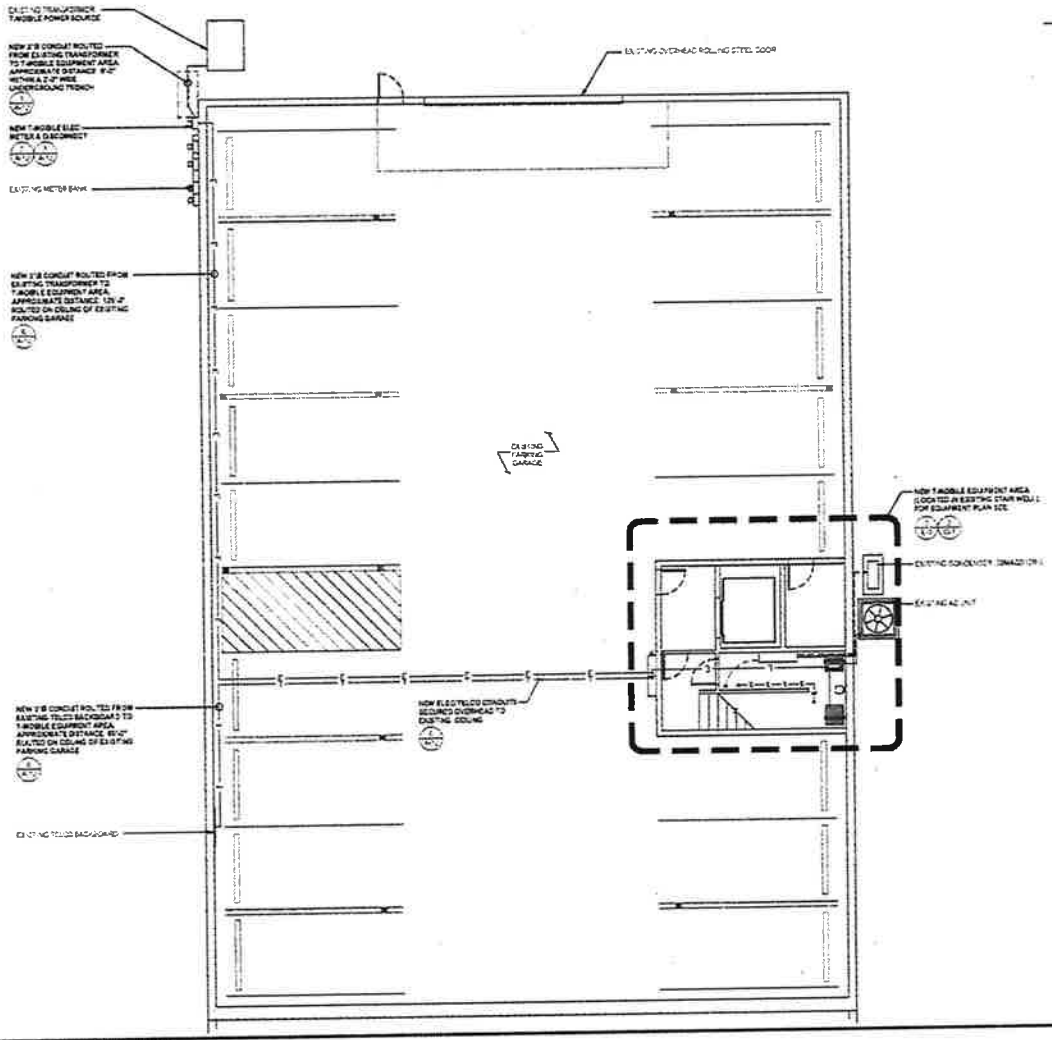
SHEET TITLE
ELECTRICAL NOTES

SHEET NUMBER
E-1



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ELECTRICAL SITE PLAN - GARAGE LEVEL

1

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REV	DATE	DESCRIPTION	BY
2	[illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]
0	[illegible]	[illegible]	[illegible]

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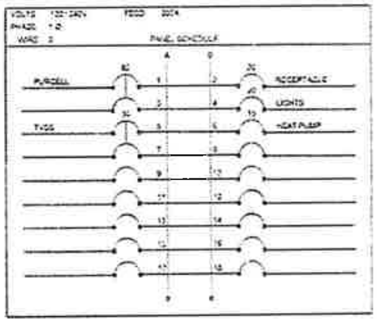
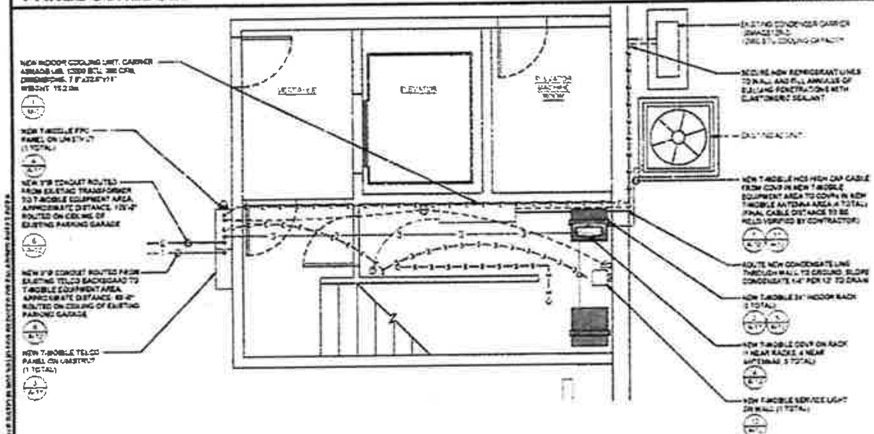
SHEET TITLE
ELECTRICAL SITE PLAN - GARAGE LEVEL

SHEET NUMBER
E-2



NOTES
1. ALL EQUIPMENT (FUSES, CIRCUIT BREAKERS, BUSSING, ETC.) SHALL HAVE A SHORT CIRCUIT RATING EQUAL TO OR GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LOCATION
2. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED
3. ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE LISTED FOR EXTERIOR USE
4. SQUARE "D" NOOD PANELBOARD
5. CU-2 SHALL OPERATE ONLY IF CU-1 IS DISCONNECTED FROM POWER BY AUTOMATIC CONTROLS
6. MULTIPLE CIRCUITS NEED COMMON "OFF" HANDLE CLIPS

PANEL SCHEDULE — SCALE N.T.S. — 1

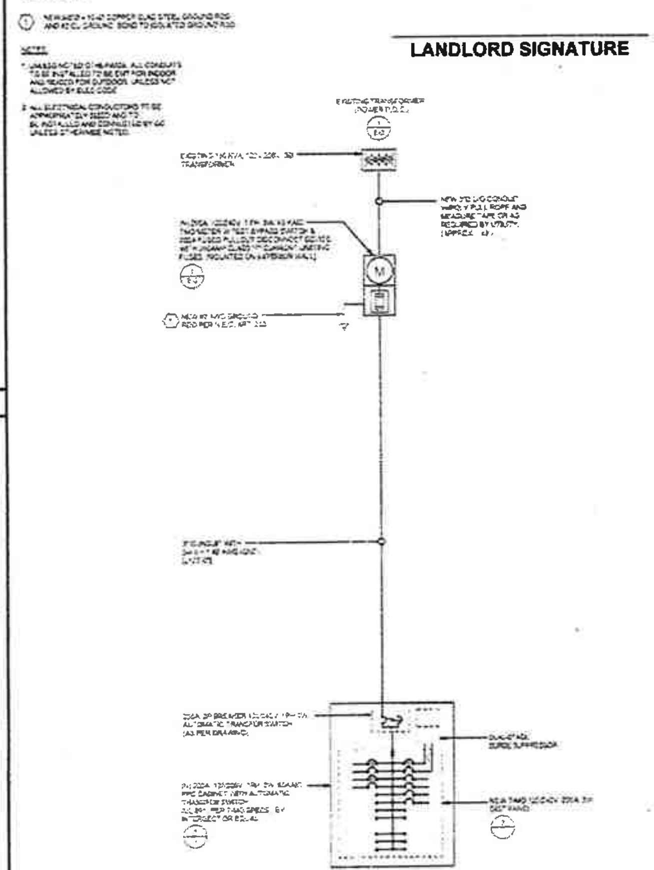


LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER AND CATALOG NUMBER	LAMPS QTY	LAMPS TYPE	LAMPS WATTS	FIXTURE INPUT VOLTS	FIXTURE TOTAL INPUT WATTS	BALLAST TYPE	BALLAST TYPE	DESCRIPTION
[illegible]	[illegible]	1	[illegible]	[illegible]	120	[illegible]	ELECTRONIC	[illegible]	FLOODLIGHT, TUNGSTEN HALOGEN [illegible]

EQUIPMENT ELECTRICAL PLAN — SCALE N.T.S. — 2

KEY NOTES



ONE LINE DIAGRAM — SCALE N.T.S. — 3

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SHEET TITLE
PANEL SCHEDULE & ONE-LINE DIAGRAM

SHEET NUMBER
E-3

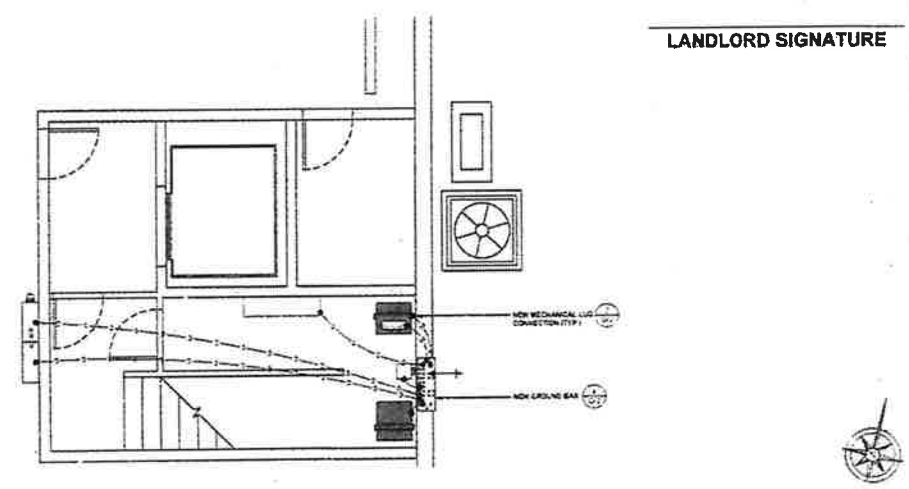
ELECTRICAL GROUNDING SPECIFICATIONS

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]
11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]

LEGEND	
●	EXOTHERMIC CONNECTION
•	MECHANICAL CONNECTION
[symbol]	EQUIPMENT GROUND BAR
[symbol]	ANTENNA GROUND BAR, AS REQUIRED
⟵	#2 AWG GROUND LEAD, AS REQUIRED

NOTE:
1. [illegible]

NOTES & LEGEND — SCALE N.T.S. — 1



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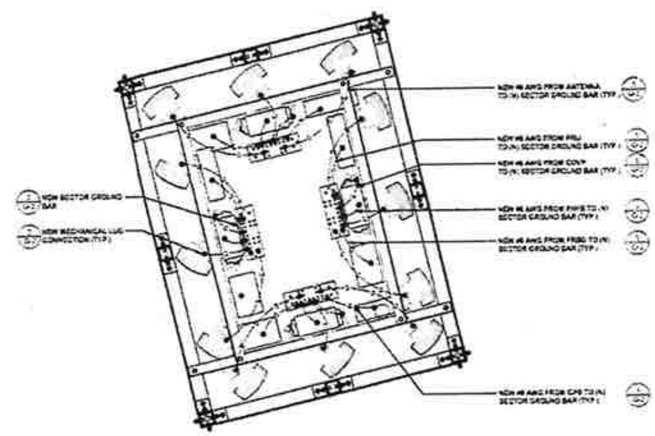
EQUIPMENT GROUNDING — SCALE N.T.S. — 2



ANTENNA GROUNDING — SCALE N.T.S. — 3

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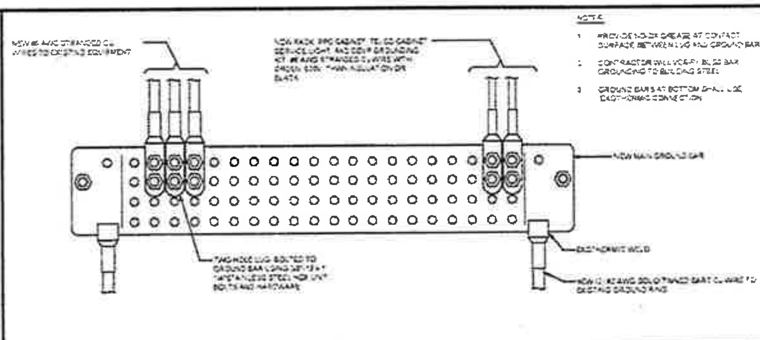
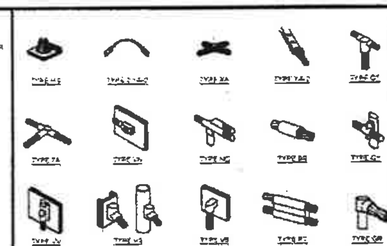
SHEET TITLE
GROUNDING PLANS

SHEET NUMBER
G-1

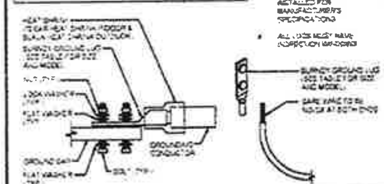


MAIN GROUND BAR
SCALE N.T.S. 4

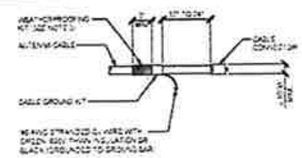


EXOTHERMIC WELDING
SCALE N.T.S. 1

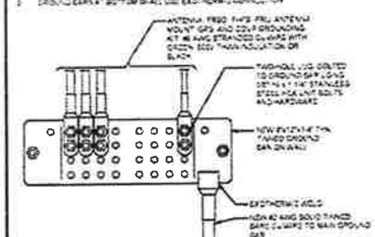
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	[illegible]	[illegible]
#2 AWG SOLID TINNED	[illegible]	[illegible]
#2 AWG STRANDED	[illegible]	[illegible]
#2/0 AWG STRANDED	[illegible]	[illegible]
#4/0 AWG STRANDED	[illegible]	[illegible]



MECHANICAL LUG
SCALE N.T.S. 2



CABLE GROUNDING
SCALE N.T.S. 5



SECTOR GROUND BAR
SCALE N.T.S. 3

NOT USED
SCALE N.T.S. 10

NOT USED
SCALE N.T.S. 11

NOT USED
SCALE N.T.S. 8

NOT USED
SCALE N.T.S. 12

NOT USED
SCALE N.T.S. 9

NOT USED
SCALE N.T.S. 6

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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-2

LANDLORD SIGNATURE

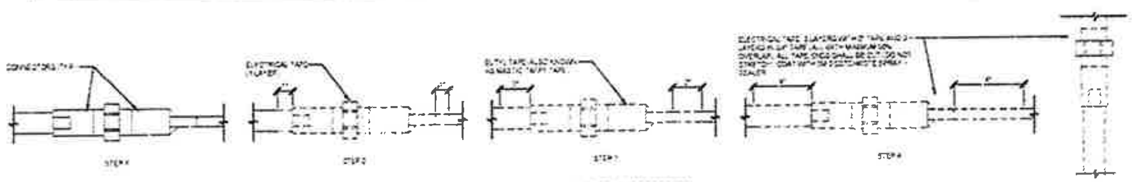
ANTENNA SCHEDULE-FINAL CONFIGURATION

SECTOR (COLOR)	POSITION	EXISTING/ NEW	MANUFACTURER	ANTENNA MODEL	PORT	ANTENNA AZIMUTH	RAD CENTER	DIMENSIONS (LxWxD)	WEIGHT (LBS)	TRANSMISSION CABLE QTY	LENGTH	SIZE	TYPE
ALPHA (RED)	A1	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TBD	1 5/8	HIGH CAP HCS
	A2	NEW	COMMSCOPE	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				
	A3	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				
BETA (GREEN)	B1	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TBD	1 5/8	HIGH CAP HCS
	B2	NEW	COMMSCOPE	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				
	B3	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				
GAMMA (BLUE)	C1	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TBD	1 5/8	HIGH CAP HCS
	C2	NEW	COMMSCOPE	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				
	C3	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				
DELTA (YELLOW)	D1	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	TBD	1 5/8	HIGH CAP HCS
	D2	NEW	COMMSCOPE	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				
	D3	NEW	ANDREW	[illegible]	QUAD	[illegible]	[illegible]	[illegible]	[illegible]				

NOTE:
1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND RF DESIGN.
2. [illegible]

ANTENNA AND COAX GENERAL NOTES

1. ALL ANTENNA AND COAXIAL ANTENNA CABLE TO BE FURNISHED BY T-MOBILE AND INSTALLED BY CONTRACTOR.
2. COAX COLOR CODING: ANTENNAS TO BE NUMBERED IN A CLOCKWISE MANNER FROM TRUE NORTH AND COLOR CODED AS FOLLOWS:
3. THE ABOVE COAX COLOR CODING APPLIES TO [illegible]
4. COAX SHALL BE TAGGED WITH COLOR CODING AT [illegible] PLACES USING [illegible] WEATHER PROOF COLORED VINYL TAPE AT THE FOLLOWING LOCATIONS:
   - [illegible] AT ANTENNA CONNECTION
   - [illegible] AT ENTRY TO EQUIPMENT CABINET
5. RUN COAXIAL CABLE [illegible] PROJECT MANAGER.
6. ALL COAXIAL CABLE CONNECTIONS TO [illegible]
7. CONTRACTOR TO [illegible]
8. TAGGING
   - ALL COAXIAL CABLES TO BE MARKED WITH COLOR CODED TAPE TO INDICATE THE ANTENNA SECTOR.
   - COLORED ELECTRICAL TAPE SHALL [illegible] INTERFERE WITH WEATHERPROOFING.
9. COAXIAL CABLE [illegible] REQUIREMENT.
10. VERTICAL CONNECTIONS SHALL BE TAPED FROM THE BOTTOM UP TO OVERLAP [illegible] WATER AWAY FROM CONNECTION [illegible]
11. PROVIDE HEAT SHRINK IN PLACE OF TAPE [illegible]



COAXIAL CABLE WEATHERPROOFING

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

Technology Associates
PNW MARKET OFFICE
650 SOUTH ORCAS STREET, STE R-100
SEATTLE, WA 98108

Technology Associates
ARCHITECTURE & ENGINEERING
2851 CAMINO DEL RIO SOUTH, STE 200
SAN DIEGO, CA 92108

SE01582M
MUKILTEO DOWNTOWN
716 THIRD STREET
MUKILTEO, WA 98275
ROOFTOP

SHEET TITLE
RF DETAILS

SHEET NUMBER
RF-1

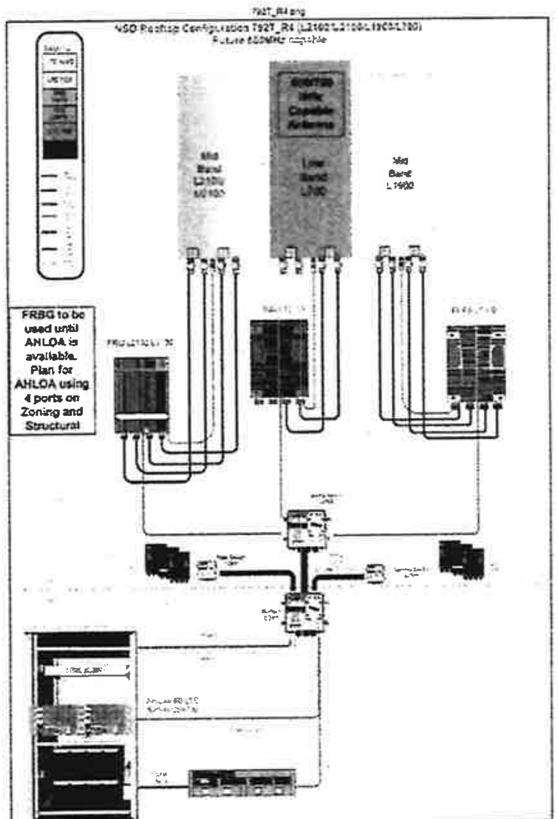
SCALE N.T.S. 1

RF DETAILS

LANDLORD SIGNATURE

11/17/2017

Section 3 - Proposed Template Images



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RF DIAGRAM

SCALE N.T.S. 1

T-Mobile
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WA 98011

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ROOFTOP

SHEET TITLE
RF DIAGRAM

SHEET NUMBER
RF-2