



City of Bellevue
Department of Planning & Community Development
Land Use Division Staff Report

Proposal Name: T-Mobile @ Bellevue Church of Nazarene

Proposal Address: 15760 NE 4th St

Proposal Description: Replace an existing 23-foot light pole located within the parking lot of the Bellevue Church of Nazarene with an 80-foot light pole 24-inches in diameter with antennas and all conduit enclosed within the pole. The proposal includes a new equipment shelter for associated radio cabinets.

File Number: 06-133702-LB

Planner: Leah Hyatt, Assistant Planner

Applicant: T-Mobile

Recommendations Included: Conditional Use approval (Process I, Land Use Code 20.30B)

State Environmental Policy Act Threshold Determination: Determination of Non-Significance (DNS)

Carol V. Helland
Carol V. Helland, Environmental Coordinator

Director's Decision: Approval with Conditions

Matthew A. Terry
Matthew A. Terry, Director

Decision Publication Date: March 1, 2007
Appeal Deadline: March 15, 2007

For information on how to appeal the project, visit the Permit Center at City Hall or call (425) 452-6864. Appeal of the decision must be received in the City Clerk's office by 5 p.m. on the date noted for the appeal deadline.

I. Request/Proposal Description

The purpose of this land use approval request is to increase the capacity and coverage of T-Mobile's wireless service to residents located in a coverage gap within its system around NE 4th St and 156th Ave NE.

The property is zoned R-1.8 and an increase in pole height for wireless communication facilities above the maximum height in a residential land use district is allowed so long as the pole height does not increase by more than 21 feet (LUC Section 20.20.195.C). A conditional use is required for this proposal because the height increase of the replacement light pole is more the 21 feet (LUC Section 20.20.195.C.1.c).

T-Mobile proposes to replace an existing 23-foot light pole in the center of Bellevue Church of Nazarene's parking lot with an 80-foot light pole. The pole will be 24 inches in diameter. T-Mobile's antennas will be enclosed within the pole, with all power lines to run underground from the light pole to radio cabinets located within a new equipment shelter building on the church's property (refer to Attachment G, Project Plans for more information). A prior approval (05-127589-LA) allowed the replacement of a utility pole within the right-of-way adjacent to NE 4th St with a 52-foot 6-inch utility pole. As discussed in more detail under section IV below, the approval was appealed to the Hearing Examiner and per the Hearing Examiner's decision, T-Mobile now proposes to replace the light pole within the church's parking lot to reduce the visual impact to the immediate neighborhood. The equipment shelter will be screened with landscaping around the north and west sides of the structure; an Installation and Maintenance Security will be required prior the approval of any associated building permits (See Section VII Condition Number 1).

II. Site Description and Context

The proposed facility is to be located within the parking lot of Bellevue Church of Nazarene. The immediate neighborhood is zoned for and contains single family homes and Hillaire park. The neighborhood has a large number of tall trees and varying topography.

III. Environmental Impacts of the Proposal

The environmental review (SEPA Checklist in project file, City Hall Records Room) indicates no probability of significant adverse environmental impacts occurring as a result of the proposal. The Environmental Checklist submitted with the application adequately discloses expected environmental impacts associated with the project. The City codes and requirements, including the Clear and Grade Code, Utility Code, Land Use Code, Noise Ordinance, Building Code and other construction codes adequately mitigate expected environmental impacts. Therefore, issuance of a Determination of Non-Significance (DNS) is the appropriate threshold determination under the State Environmental Policy Act (SEPA) requirements.

IV. Public Comment

This revised application was filed on November 21, 2006. The surrounding property owners were mailed notice of the proposal in the Weekly Permit Bulletin on November 30, 2006 and a public information sign was installed that same day on NE 4th St in front of the church's property. The public comment period established for this application ended on December 19, 2006. This is four days longer than the 14 day minimum comment period typically posted. The minimum comment was extended to coincide with the December 19, 2006 public meeting date.

The previous appellant and applicant came to the meeting in support of the project. The applicant responded to the City staff's questions during the public meeting regarding the proposal, including the analyses performed which led to the facility location and design.

In September, 2005 T-Mobile applied for an Administrative Conditional Use to replace an existing 32-foot 4-inch with a 52-foot 6-inch pole utility pole within the City of Bellevue right-of-way adjacent to 15670 NE 4th St. The project was approved by the City of Bellevue and was appealed to the Hearing Examiner. The Examiner's determined that a light pole replacement in the middle of the church's parking would be a less obtrusive option. At the hearing, T-Mobile indicated that a height of 80 to 100 feet would be required at the parking lot location to provide the same coverage as the originally proposed wireless communication facility in the right-of-way. The Hearing Examiner's decision directed T-Mobile to analyze the impacts of locating their wireless communication facility in the church's parking lot; determining that a pole located within the center of the parking lot, although taller, would have less impacts to the immediate neighborhood. T-Mobile subsequently applied for a Conditional Use permit to replace a light standard within the center of the parking lot at a taller height in order to meet their coverage and capacity needs.

V. Applicable Decision Criteria / Findings and Conclusions

Compliance with decision criteria of Land Use Code Section 20.30B.140 is discussed below.

A. The conditional use is consistent with the Comprehensive Plan.

Finding: This proposal is consistent with Bellevue's Comprehensive Plan policies regarding such facilities. The Comprehensive Plan policies listed below from the Utility Element have been considered in support of the City's decision regarding this site:

- (1) UT-40. Require the reasonable screening and/or architecturally compatible integration of all new above-ground utility facilities.
- (2) UT-41. Protect Bellevue's aesthetic quality and infrastructure investment from unnecessary degradation caused by the construction of telecommunication infrastructure.

- (3) UT-53. Require all utility equipment support facilities to be aesthetically compatible with the area in which they are placed by using landscape screening and/or architecturally compatible details and integration.
- (4) UT-55. Require the placement of personal wireless communication facilities in a manner that minimizes the adverse impacts on adjacent land uses.
- (7) UT-59. Recognize that personal wireless communication facilities will be deployed in all areas of the city to provide coverage and capacity consistent with the changing use of wireless technology. Minimize the attendant impacts, particularly the visual impacts, of personal wireless communication facility towers, lattice towers and structures by utilizing criteria for the design and location of such facilities that appropriately balance the need for wireless services and the impacts of the necessary facilities.
- (8) UT-60. Minimize visual impacts of personal wireless communication facilities by encouraging deployment in land use districts in the following preferred and descending order when possible, considering the provider's coverage needs: 1) Nonresidential land use districts, except Transition Areas; 2) Transition Areas; 3) Multifamily (R-20 and R-30) districts; and 4) and Park sites and Residential districts.
- (9) UT-61. Minimize visual impacts of personal wireless communication facilities by encouraging system designs in the following preferred and descending order: 1) attached to public facility structures, building mounted, or integrated with utility poles, light standards, and signal supports; 2) co-located on utility poles, light standards, signal supports; and 3) free standing towers.

T-Mobile's proposal is consistent with these policies as significant efforts have been made to minimize visual intrusions, summarized under criteria B below. The analysis of location and design alternatives (refer to Attachment D, Site Analysis) identifies the proposed location and height as having the least impact on the immediate neighborhood. While the proposed location is ranked fourth within the hierarchy of preferred locations for wireless communication facilities (LUC Section 20.20.195.D.2.a), the neighborhood identified the church parking lot as a preferred alternative to locating the facility within City of Bellevue right-of-way adjacent to the church. The proposal meets the overall intent of the Utilities Element of the Comprehensive Plan by locating the proposed facility to minimize visual impacts while at the same time meeting coverage and capacity needs of T-Mobile's network, as summarized under criterion E below.

Sufficient documentation has been provided by the applicant to support the proposed location and height, including drive test and propagation maps, (see Attachment D, Site Analysis).

B. The design is compatible with and responds to the existing or intended character, appearance, quality of development and physical characteristics of the subject property and immediate vicinity.

Finding: T-Mobile's proposed project is located in a residential zone within the City of Bellevue. The proposed project utilizes the physical characteristics of topography, natural vegetation and landscaping to blend in with the surrounding area. The following measures are proposed to ensure the design is compatible with the surrounding area:

1. A light standard in the parking area will be replaced with a taller light standard. Locating the wireless communication facility in the parking area outside of the right of way will minimize any visual impact to the surrounding area.
2. Locating the antennas within a shroud that does not exceed the width of the light standard.
3. Painting the replacement light standard an anti-glare brown.
4. There are many mature, tall trees in the area that will provide sufficient screening.
5. T-Mobile's radio cabinets will be located on an adjacent parcel owned by the church and will be located within a new equipment shelter building. Landscaping is proposed around two sides of the equipment shelter.

The proposal responds to the character of the neighborhood by locating the replacement pole within the church parking lot, this will utilize existing vegetation and landscaping to provide screening for the immediate neighbors to lessen visual impacts of the proposal. The applicant will also intensify the landscaping to ensure appropriate screening for the equipment shelter. See Attachments C, Photo Simulations and G, Project Plans for more information.

C. The conditional use will be served by adequate public facilities including streets, fire protection, and utilities.

Finding: The proposed facility will be served by existing public facilities, and will not require additional facilities or streets. Access to the site will be by the existing public roadway, NE 4th St.

D. The conditional use will not be materially detrimental to uses or property in the immediate vicinity of the subject property.

Finding: Approval of a conditional use will not be materially detrimental to the uses or property in the immediate vicinity of the subject property. As illustrated on the attached photo simulations (Attachment C) and project plans (Attachment G), the antennas will be housed entirely within the replacement light pole in the parking lot, surrounded by tall trees. As stated above, the original application was for a replacement utility pole in the right of way. However, locating the antennas within a replacement light pole in the parking lot (albeit, a significant taller pole) will have less visual impact on the

surrounding areas. Therefore, this revised application is a less obtrusive alternative, and hence less detrimental to the surrounding areas.

E. The conditional use complies with the applicable requirements of the Land Use Code.

Finding: The proposal meets all specific Land Use Code requirements applicable to non-exempt wireless communications facilities per LUC 20.20.195.D 1-9, as summarized below.

1. **Height:** The height limit in this residential zone is 30 feet. The proposed 80-foot tall pole will replace an existing 23-foot tall pole. This proposed height may be permitted subject to Conditional Use approval, as described in Section I of this report. The proposed height is the minimum necessary for T-Mobile to achieve their desired coverage and capacity based upon their objectives, surrounding tree heights and adjacent T-Mobile's Wireless communication facilities. Also attached is an RF Engineer analysis as to why the requested height is the minimum necessary for the system. This proposed height was determined after extensive drive test analysis was done from the church parking lot (see Attachment D).

The purpose of this Wireless Communication Facility is to enable T-Mobile to provide coverage to its customers in a part of Bellevue where existing coverage is very poor to non-existent. The propagation map (see Attachment D) shows existing poor coverage in the area. The proposed propagation coverage map shows the coverage that would be obtained from the subject site. The drive test data (see Attachment D) shows the coverage that would be obtained at four different heights and why the proposed height is required to achieve their coverage and capacity objectives.

2. Wireless Communication Facility Location and Design

- a. **Preferred Location (LUC 20.20.195D.2.a):** The Search Ring Map (see Attachment D) shows the area in which a Wireless communication facilities must be located to provide the necessary coverage to the subject area. This entire area is zoned residential; there are no non-residentially zoned areas within the search ring in which to provide service. The subject proposal is fourth in the "preferred location hierarchy." (LUC Section 20.20.195.D.2.a) However, there are no non-residential zones within proximately to the search ring, a residential zone must be used to provide coverage.

T-Mobile's site development team was faced with a number of constraints in trying to find a location for a new facility that would fill the identified coverage gap, including radiofrequency coverage needs, zoning requirements, aesthetic considerations such as minimizing visual impact, and construction feasibility.

As described in Section IV above, the previously approved site (right-of-way adjacent to 15760 NE 4th St) was appealed. The proposed alternative location is the result of T-Mobile's desire to work with the community to provide the needed coverage by locating the replacement pole to reduce the visual impact to the surrounding neighborhood.

The applicant's engineer has certified that the proposed location is necessary to meet T-Mobile's coverage and capacity needs for this area see Attachment D for the Engineer's Certification attached.

b. Preferred System Design (LUC 20.20.195D.2.b): The subject proposal is to replace an existing light standard to accommodate T-Mobile's antennas. As the antennas will be completely integrated into the light pole, it meets the first tier of the preferred system design hierarchy.

c. Minimizing Adverse Impacts LUC 20.20.195D.2.c):

The utilization of the light standard with internal antennas will have the least visual impacts on the surrounding neighborhood. Relocating the wireless communication facility off of the right of way and into the church parking lot will have the least visual impact even though the replacement light pole is substantially taller than the previously proposed replacement utility pole. The revised site design encloses the antennas and all associated equipment within the replacement light standard. The surrounding tall trees will mitigate the visual impacts of the 80-foot replacement pole (see attachment C, photo simulations).

The applicant has also provided a letter from the radio frequency engineer (Attachment D) which states that the facility complies with radio frequency emission guidelines set forth by the Federal Communications Commission, refer to attached letter for additional information.

- 3. Dispersal Limits:** The nearest existing cellular facility is located within the crossroads pump station more than 1,300-feet from the subject site. Therefore, the 520 feet dispersal requirement has been met (LUC Section 20.20.195.D.3).
- 4. Development Standards:** As described in previous sections of this report, all development standards applicable to wireless communications facilities will be met by this proposal as conditioned.
- 5. Radio Frequency Emissions:** Refer to the letter from T-Mobile's radio frequency engineer stating that the facility will comply with the radio frequency emission standards adopted by the Federal Communications Commission (Attachment D).

6. **Setback Requirements for Freestanding Wireless communication facilities:** All applicable setback requirements of the Land Use Code are met under this application.
7. **Independent Technical Review:** No such review was deemed necessary for this application.
8. **Removal of Abandoned Antennas and Towers:** Refer to section VII of this report for applicable condition of approval.
9. **Removal Upon Under-grounding:** Refer to section VII of this report for applicable condition of approval.

VI. Recommendation

After conducting the various administrative reviews associated with this proposal, including applicable land use consistency, SEPA, and City Code and Standard compliance reviews, the Director of Planning & Community Development does hereby **RECOMMEND APPROVAL** of the proposal subject to the following conditions:

VII. Recommended Conditions of Approval

Staff recommends imposing the following conditions to ensure compliance with the relevant decision criteria and Code requirements. If imposed by the Hearing Examiner, these conditions must be complied with on plans submitted with the construction permit:

1. Landscape Installation and Maintenance Security

The applicant shall provide a landscape assurance device (assignment of savings or letter of credit) for 150% of the fair market value of labor and materials for any required landscaping not installed at final inspection. It shall also cover 20% of the fair market value of labor and materials for landscape maintenance for a period of one year from date of final inspection.

Reviewer: Leah Hyatt, 425-452-6834
Authority: LUC 20.20.520.K.1 and 2, and 20.20.520.L.1 and 2

2. Removal of Abandoned Sites

The owner of this facility shall provide the Director with copies of any notice of intent to cease operations that is provided to the Federal Communications Commission (FCC). All Wireless communication facilities and the associated equipment shall be removed by the facility owner within 90 days of the date it ceases to be operational, or if the facility falls into disrepair and is not maintained. Disrepair includes structural features, paint, or general lack of maintenance, which could result in safety or visual impacts.

Reviewer: Leah Hyatt, 425-452-6834
Authority: LUC 20.20.195.D.8

3. **Removal Upon Under-grounding:** The facility shall be removed at no expense to the City if co-located on an electrical system facility or utility support structure that is subsequently under-grounded.

Reviewer: Leah Hyatt, 425-452-6834
Authority: LUC 20.20.195.D.9

VIII. Attachments

- A. Environmental Checklist
- B. Aerial Photo
- C. Photo Simulations
- D. Radio Frequency Engineer Site Analysis & Analysis of Drive Test Data from Subject Site
- E. Zoning Map
- F. Deployment Plan
- G. Project Plans



DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT
 ENVIRONMENTAL COORDINATOR
 11511 MAIN ST., P.O. BOX 90012
 BELLEVUE, WA 98009-9012

DETERMINATION OF NON-SIGNIFICANCE

PROPONENT: T-Mobile

LOCATION OF PROPOSAL: 15760 NE 4th St

NAME & DESCRIPTION OF PROPOSAL:

Replace an existing 23-foot light pole located within the parking lot of the Bellevue Church of Nazarene with an 80-foot light pole 24-inches in diameter with antennas and all conduit enclosed within the pole. The proposal includes a new equipment shelter for associated radio cabinets.

FILE NUMBER: 06-133702-LB

The Environmental Coordinator of the City of Bellevue has determined that this proposal does not have a probable significant adverse impact upon the environment. An Environmental Impact Statement (EIS) is not required under RCW 43.21C.030(2)(C). This decision was made after the Bellevue Environmental Coordinator reviewed the completed environmental checklist and information filed with the Land Use Division of the Department of Planning & Community Development. This information is available to the public on request.

- There is no comment period for this DNS. There is a 14-day appeal period. Only persons who submitted written comments before the DNS was issued may appeal the decision. A written appeal must be filed in the City Clerk's office by 5:00 p.m. on March 16, 2006.
- This DNS is issued after using the optional DNS process in WAC 197-11-355. There is no further comment period on the DNS. There is a 14-day appeal period. Only persons who submitted written comments before the DNS was issued may appeal the decision. A written appeal must be filed in the City Clerk's Office by 5 p.m. on March 15, 2007.
- This DNS is issued under WAC 197-11-340(2) and is subject to a 14-day comment period from the date below. Comments must be submitted by 5 p.m. on _____. This DNS is also subject to appeal. A written appeal must be filed in the City Clerk's Office by 5 p.m. on _____.

This DNS may be withdrawn at any time if the proposal is modified so that it is likely to have significant adverse environmental impacts; if there is significant new information indicating, or on, a proposals probable significant adverse environmental impacts (unless a non-exempt license has been issued if the proposal is a private project); or if the DNS was procured by misrepresentation or lack of material disclosure.

Wesley D. Davis for C. Hayward _____ 3/1/07
 Environmental Coordinator Date

OTHERS TO RECEIVE THIS DOCUMENT:

- State Department of Fish and Wildlife
- State Department of Ecology,
- Army Corps of Engineers
- Attorney General
- Muckleshoot Indian Tribe

Attachment A

City of Bellevue Submittal Requirements

27a

ENVIRONMENTAL CHECKLIST

11/20/06

If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call the Permit Center (425-452-6864) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Assistance for the hearing impaired: Dial 711 (Telecommunications Relay Service).

BACKGROUND INFORMATION

Property Owner: Bellevue Church of Nazarene

Proponent: T-Mobile

Contact Person: Gary Abrahams
(If different from the owner. All questions and correspondence will be directed to the individual listed.)

Address: PO Box 1557, Bothell, WA 98041

Phone: 206-282-2357

Proposal Title: T-Mobile's "160th & 4th/New Hope"

Proposal Location: 15760 NE 4th Street, Bellevue, Washington.
(Street address and nearest cross street or intersection) Provide a legal description if available.

Legal per assessors records:

Lot 22 & 23, Block 2, Hill-Aire addition according to the plat thereof recorded in Volume 43 of Plats, page 34, in King County, Washington.

Please attach an 8 1/2" x 11" vicinity map that accurately locates the proposal site.

Give an accurate, brief description of the proposal's scope and nature:

1. General description:

T-Mobile proposes to construct an unmanned wireless communication facility ("WCF") in Bellevue, Washington. The proposed project location is at Bellevue Church of Nazarene, at 15760 NE 4th Street ("Subject Property"). The proposed project consists of replacing an existing light pole in the parking lot of the Subject Property. The existing light pole is 23 feet in height, and the replacement light pole will be 80 feet in height. The pole will be 24" in diameter. T-Mobile's antennas will be enclosed within the replacement light pole. The pole will be painted an anti-glare brown. All conduit will be contained within the pole. Telco and power lines will run underground from the light pole to the radio cabinets. The radio cabinets will be contained within a new equipment shelter building on the church property ("Shelter"). There will be landscaping around the north and west sides of the Shelter. Landscaping is not required on the east and south sides due to the existing substantial vegetation along NE 4th Street.

T-Mobile has identified a coverage gap in its system in the subject area identified on the Search Ring Map (hereinafter "Search Ring") included with the application materials. The proposed site is critical to filling that coverage gap, both in-building and outdoor coverage. The site is in a residential area, zoned Residential-1.8 and any non-residentially zoned areas are outside of the Search Area. The particular pole location in this application was chosen as the best choice to provide coverage to the subject area, and would be the least obtrusive to the surrounding area. A replacement utility pole was part of the first application, and a light pole in the center of the parking lot, after further analysis, would be less obtrusive.

2. Acreage of site: .84 acres

RECEIVED
NOV 21 2006
PERMIT PROCESSING

06-133702-LB
3/1/07
LHyatt

3. Number of dwelling units/buildings to be demolished: 0
4. Number of dwelling units/buildings to be constructed: 0
5. Square footage of buildings to be demolished: Not applicable.
6. Square footage of buildings to be constructed: Equipment shelter building will have 160 square feet.
7. Quantity of earth movement (in cubic yards): 35 cubic yards +/- (equipment building and foundation for replacement light pole)
8. Proposed land use: Wireless Communication Facility ("WCF")
9. Design features, including building height, number of stories and proposed exterior materials:
The replacement light pole will be 80 feet in height with the antennas completely enclosed within the light pole. The pole will be painted an anti-glare brown. All conduit will be contained within the pole. The equipment shelter building will match the existing church building in color and texture.
10. Other

Estimated date of completion of the proposal or timing of phasing: First quarter, 2007.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No.

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

None required.

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. List dates applied for and file numbers, if known.

There are no other applications, other than the subject application, pending for this property.

List any government approvals or permits that will be needed for your proposal, if known. If permits have been applied for, list application date and file numbers, if known.

Conditional Use Permit (LB), SEPA determination and building permit.

Please provide one or more of the following exhibits, if applicable to your proposal. None applicable. (Please check appropriate box(es) for exhibits submitted with your proposal):

- Land Use Reclassification (rezone) Map of existing and proposed zoning
- Preliminary Plat or Planned Unit Development Preliminary plat map

- Clearing & Grading Permit
Plan of existing and proposed grading
Development plans
- Building Permit (or Design Review)
Site plan
Clearing & grading plan
- Shoreline Management Permit
Site plan

A. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site: X Flat Rolling Hilly Steep slopes Mountains Other

b. What is the steepest slope on the site (approximate percent slope)?

10% +/-

c. What general types of soil are found on the site (for example, clay, sand, gravel, peat, and muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

See Geotech report of Adapt Engineering submitted as part of this application, and incorporated by reference herein.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Grading will be required for the new Shelter building and the light pole foundation. Less than 25 cubic yards of soil will be excavated.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Best practices will be employed to prevent any erosion.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The project will result in new impervious surface of 160 square feet. The overall project site contains 73,278 (both parcels). The church building contains 5,187 square feet. Parking for the church is located on the second parcel where the light pole to be replaced is located. The light pole replacement will add an additional very small amount of impervious surface for the light pole foundation. After construction, approximately 20% of the site will be covered with impervious surfaces.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

None necessary.

*impacts mitigated by application
of Clear + Grade Code 23.76*

*06-133702-LB
3/1/07
LHyatt*

2. AIR

- a. What types of emissions to the air would result from the proposal (i.e. dust, automobile odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Small quantities of dust and exhaust will be released from construction vehicles and construction activities during the approximate 1-month construction phase. The completed facility will not generate emissions.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

- c. Proposed measures to reduce or control emissions or other impacts to the air, if any:

None necessary.

3. WATER

- a. Surface

- (1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

No.

- (2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If Yes, please describe and attach available plans.

No.

- (3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

- (4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

Not applicable.

- (5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

- (6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

06-133702-LB
3/1/07
LHyatt

b. Ground

- (1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description.

There will be no ground water withdrawal, or water discharge to ground water associated with this development.

- (2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Not applicable.

c. Water Runoff (Including storm water)

- (1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Not applicable-runoff will be channeled through existing collection routes.

- (2) Could waste materials enter ground or surface waters? If so, generally describe.

No. Connection to water and sanitary sewer are not required for this project.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

This project will not have any significant impact on water runoff; no additional measures are proposed.

4. Plants

a. Check or circle types of vegetation found on the site:

X deciduous tree: alder, maple, aspen, other

X evergreen tree: fir, cedar, pine, other

X shrubs

X grass

pasture

crop or grain

wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other

water plants: water lily, eelgrass, milfoil, other

other types of vegetation

06-133702-LB
3/1/07
LHyatt

b. What kind and amount of vegetation will be removed or altered?

Some grass will be removed for the Shelter area.

c. List threatened or endangered species known to be on or near the site.

None known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Landscaping is proposed along the north and west sides of the Shelter. No landscaping is proposed along the south and west sides of the Shelter.

5. ANIMALS

a. Check or circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

Birds: hawk, heron, eagle, songbirds, other:

Mammals: deer, bear, elk, beaver, other:

Fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered species known to be on or near the site.

None known.

c. Is the site part of a migration route? If so, explain.

No.

d. Proposed measures to preserve or enhance wildlife, if any:

None proposed.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy need? Describe whether it will be used for heating, manufacturing, etc.

Standard electric power will be required for the antennas and radio cabinets.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of the proposal? List other proposed measures to reduce or control energy impacts, if any:

Not applicable.

7. Environmental Health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

None.

- (1) Describe special emergency services that might be required.

No special emergency services are required for this project.

- (2) Proposed measures to reduce or control environmental health hazards, if any.

Not applicable.

b. Noise

- (1) What types of noise exist in the area which may affect your project (for example, traffic, equipment, operation, other)?

None.

- (2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example, traffic, construction, operation, other)? Indicate what hours noise would come from the site.

*impacts mitigated by
application of BCC 9.18*

This proposal will create negligible amount of noise during the 1-month construction period. The radio cabinets will be contained within the Shelter, and will comply with all noise regulations of the City of Bellevue.

- (3) Proposed measures to reduce or control noise impacts, if any:

Placing the radio cabinets within the Shelter will control any noise impacts for this project.

8. Land and Shoreline Use

- a. What is the current use of the site and adjacent properties?

The current use of the site is as a church, Bellevue Church of Nazarene. The adjacent parcel that contains the light pole to be replaced contains a parking lot. Adjacent properties are single family residential. Across NE 4th is a synagogue, with a park located to the north.

- b. Has the site been used for agriculture? If so, describe.

No.

- c. Describe any structures on the site.

A church.

- d. Will any structures be demolished? If so, what?

No.

*06-133702-LB
3/1/07
UHyatt*

e. What is the current zoning classification of the site?

R-1.8.

f. What is the current comprehensive plan designation of the site?

Residential.

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None required.

i. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The proposal complies with Bellevue zoning regulations concerning the siting of WCF's. T-Mobile strives to integrate its projects into the fabric of the surrounding community. Locating the antennas within a replacement light pole in the parking lot will ensure the project is compatible with the surrounding area.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

None proposed.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The replacement light pole will have a tip height of 80 feet.

b. What views in the immediate vicinity would be altered or obstructed?

None. The area is flat and surrounded by trees. Across the street is another religious facility.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Locating the antennas within a replacement light pole will reduce any potential visual or aesthetic impacts.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The proposed WCF will not produce any additional light or glare. There will be 4 box lights attached to the replacement light pole, which are point down towards the parking lot.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light or glare impacts, if any:

None required.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

There is a City of Bellevue park just north of the subject site on the adjacent parcel.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None required.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None known.

b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site.

None noted.

c. Proposed measures to reduce or control impacts, if any:

None required.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

The subject parcel is on NE 4th Street, just east of 156th Avenue NE.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

Not Applicable.

c. How many parking spaces would be completed project have? How many would the project eliminate?

The subject proposal will not change the number of parking spots on the subject property. The Shelter location is currently grass, and the light pole replacement area already contains a light pole with the parking surrounding this area. The light pole replacement will not affect the parking spaces.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Approximately one trip per month will be required for routine maintenance.

g. Proposed measures to reduce or control transportation impacts, if any:

None required.

15. Public Services

a. Would the project result in an increased need for the public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None required.

16. Utilities

06-133702-LB
3/1/07
LHatt

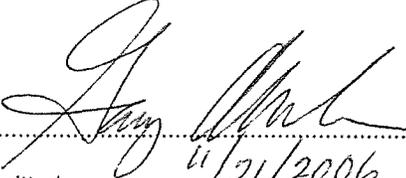
a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other. [underlined rather than circled]

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Electric and phone services are required for this project. Power will be provided by PSE. Telephone service will be provided by Qwest. Water and sewer services are not required for this project.

Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature.....
Date Submitted.....¹¹/21/2006

06-133702-LB
3/1/07
LHyatt

Attachment B



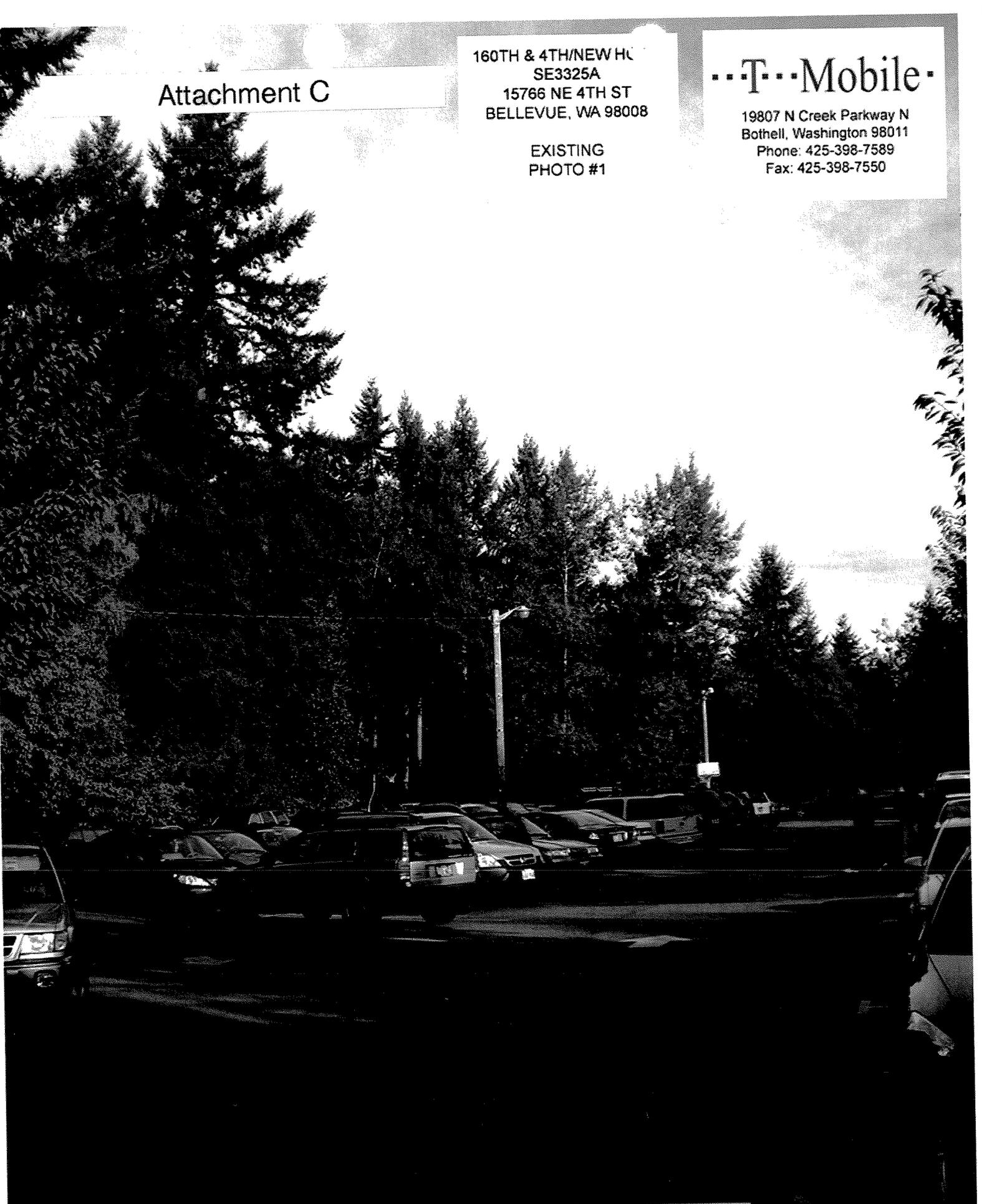
Attachment C

160TH & 4TH/NEW HC
SE3325A
15766 NE 4TH ST
BELLEVUE, WA 98008

EXISTING
PHOTO #1

...T...Mobile...

19807 N Creek Parkway N
Bothell, Washington 98011
Phone: 425-398-7589
Fax: 425-398-7550



FROM NE 4TH ST LOOKING NORTH

160TH & 4TH/NEW HOPE
SE3325A
15766 NE 4TH ST
BELLEVUE, WA 98008

PROPOSED
PHOTO #1

...T...Mobile...

19807 N Creek Parkway N
Bothell, Washington 98011
Phone: 425-398-7589
Fax: 425-398-7550

FROM NE 4TH ST LOOKING NORTH

160TH & 4TH/NEW I
SE3325A
15766 NE 4TH ST
BELLEVUE, WA 98008

EXISTING
PHOTO #2

T-Mobile

19807 N Creek Parkway N
Bothell, Washington 98011
Phone: 425-398-7589
Fax: 425-398-7550

FROM NE 6TH ST LOOKING SOUTH

160TH & 4TH/NEW I. E.
SE3325A
15766 NE 4TH ST
BELLEVUE, WA 98008

PROPOSED
PHOTO #2

FROM NE 6TH ST LOOKING SOUTH

Radio Frequency Engineer Site Analysis
& Analysis of Drive Test Data from
Subject Site Parking Lot

T-Mobile Project No.: SE3325A
Project Name: “160th & 4th/Light Standard/New Hope”
Project Description: **Wireless Communication Facility consisting of antennas within a replacement light pole in the parking lot, with radio cabinets in new equipment shelter building.**
Location: **15760 NE 4th Street, Bellevue, WA-in parking lot**
Date: **November 20, 2006**

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. The site at 15760 NE 4th Street, Bellevue, is designed to extend coverage to this area of Bellevue, and increase capacity.

Coverage:

Coverage can be defined as having a certain level of signal strength in a particular area. T-Mobile’s target is to provide –76dBm 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. 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 the predicted coverage that would be obtained at the subject site.

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 or other wireless phones. Ongoing phone calls occupy the resources of the serving site, which can handle only a limited number of calls. When a particular antenna site is handling a



sufficient number of calls the available RF channels assigned to that site are used up. When this occurs, the wireless phone user will hear a busy signal on his or her phone. For T-Mobile's specific GSM technology, typical sites with 3 antennas can handle approximately 150 calls at any given time. The maximum capacity of each antenna is equivalent to approximately 50 people calling continuously over an hour. The engineering term for this measurement of capacity is 50 Erlangs. The call traffic of antenna sites is continuously monitored and analyzed so that overloading of sites is prevented. Careful projection allows sufficient lead time to design, permit, and construct the wireless facility prior to exceeding the capacity of surrounding sites. Capacity cell sites are typically required in areas that currently have insufficient coverage. The objective for a capacity site is to handle increased call volume rather than increase a coverage area.

Interference:

In areas with good coverage, phone calls may still have poor quality that the caller hears as warbled voices or temporary loss of communication. This is often caused by interference. Wireless telephone systems reuse specific radio frequencies at different cell antenna locations. When frequencies are reused at nearby sites, interference may result. Engineers work to achieve the most efficient use of limited frequency resources and reduce interference.

Unfortunately, there are still areas where interference is nearly unavoidable. This typically occurs in areas where one antenna site is having trouble handing off calls to another. On a freeway or busy roadway, for example, the network juggles a call between competing antenna sites seeking to find the best one. When this occurs, the solution is often to locate a new antenna site as close to the location where the bad handoff is occurring. Interference is documented by measuring received call quality (Rx Qual) during a drive test similar to that performed to measure coverage. Rx Qual is a measurement of digital data (voice signal) lost as the result of poor communication between adjacent cell sites. Drive test maps demonstrate the Rx Qual of the area as it exists both with and without the proposed cell site.

Site Selection Process for this Location

T-Mobile has a coverage gap within its system in this part of Bellevue around NE 4th Street and 156th Avenue NE. This area extends, roughly, from 152nd Place SE on the west, SE 4th Street on the south, to 164th Avenue NE on the east to NE 8th Street on the north. The subject site will not cover the entire coverage gap that exists in the area; that is not possible. However, the subject site will cover its intended coverage objective which is primarily around NE 4th Street from 156th Avenue NE to 164th Avenue NE.

T-Mobile®

On the “Existing Coverage” map, white indicates that there is no coverage, and light green is identified as Existing coverage – in vehicle, which is the inability to make and/or keep a call within a building. The white on the map is an indication that coverage is almost non-existent in the area. The light green areas are areas in which a call can be made, or received, from within a car, or on the outside, with limited call quality. This is not the quality that T-Mobile’s customers demand, nor will it allow T-Mobile’s customers to make calls from their residential homes. The dark green is optimum coverage, which allows a customer to make a call, and maintain it, from their residence. On the “New Site Coverage” map, the white and light green have been replaced with dark green “in-building” coverage.

To provide coverage in that area, it is necessary to locate a facility within the search ring, attached as Attachment 2 hereto (“Search Ring”). The Search Ring is not the same thing as the coverage to be obtained. The Search Ring shows the location in which a wireless facility must be located to provide the necessary coverage to the area in the system that has a coverage gap, and where the wireless facility is located within that Search Ring will determine exactly what kind of coverage will be obtained. The propagation map shows the coverage that will be obtained from the subject site located within the Search Ring (the propagation map is for the original candidate in the Right-of-way at 52’6” tip height).

T-Mobile applied for a utility pole replacement in the Right-of-way of NE 4th Street, where the existing utility pole of 32 feet 4 inches was going to be replaced with a 52 foot 6 inch utility pole, in 2005. The project was approved the City of Bellevue, and appealed to the Hearing Examiner. Per the Hearing Examiner’s decision, light pole replacement in the middle of the church parking lot, versus the Right-of-way, may be a less obtrusive option. At the hearing, we indicated that a height of 80 feet to 100 feet would be required from the church parking lot to provide the same coverage as the WCF in the Right-of-way. We did drive testing from the parking lot to determine exactly what height is required within from that area. The center of the parking lot is surrounded by tall trees that would severely impact the signal if the antennas were not above the tree line. The original propagation maps submitted with the first application show that the new coverage would extend past NE 8th Street and connect with the existing Wireless Communication Facility at 16000 NE 8th Street. The new coverage would also extend almost as far east as 164th Avenue NE, west as far as 151st Place SE and south as far as Main Street, with some additional coverage further south to the intersection of SE 4th Street and 156th Avenue NE.

We drove tested four different heights: 50 feet, 60 feet, 75 feet and 90 feet. The coverage that would be provided at a height of 50 feet and 60 feet in the center of the parking lot is clearly insufficient as the coverage does not extend to NE 8th Street on the north, and the coverage does not extend as far south as Main Street. The coverage obtained at 75 feet extends as far north as NE 8th Street, and it does extend to Main Street, but coverage is lost at SE 4th Street and 156th Avenue NE that would have been provided by the original

location. The coverage obtained at 90 feet provides that additional coverage at SE 4th and 156th, and the areas to the east. The coverage at 90 feet is optimal. However, we always have to take into account 2 additional factors: 1) the visual impact of the proposed project and what it will look like to surrounding residents, and 2) will the antennas be too high and create the need for sector containment as it could interfere with adjacent sites. After analyzing the coverage at 75 feet and 90 feet, and the other issues involved, we compromised and decided that an 80-foot light pole (tip height) would provide sufficient coverage to replace the site originally proposed for the Right-of-way. A height of 80 feet is the minimum acceptable to provide the needed coverage to fill in the coverage gaps with respect to that from neighboring cell sites already active in T-Mobile's system. A lower antenna height at this location is not technically feasible as discussed.

A search area map and other requirements were provided to T-Mobile's real estate and zoning specialists for a site. 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 in 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.

After viewing the area, the candidates considered for location, included:

1. A light pole replacement in the Church parking lot;
2. A light pole replacement in the parking lot of religious facility across the street;
3. PSE poles west and east of the subject pole.

Eliminated from consideration are sites where zoning ordinances prohibit the location, insufficient room for mechanical equipment is available, required setbacks cannot be achieved or landowners are not interested in leasing property. The subject location would provide the best coverage with the least impact to the surrounding area.

As noted, coverage plots are attached. The first coverage plot, "Existing Coverage" demonstrates the level of service that would exist if T-Mobile had no site in the area. The second one, "New Site Coverage" shows the level of coverage that would be obtained from the subject site.

The height needed for this site is required so that it will see the subject area, and cover the coverage area boundaries as noted earlier. The height above the street level (80 feet)

for the antennas (tip height of the antennas) is the minimum height based upon the location on the site, and the coverage objective.

The legend of the coverage plots shows several different classes of best servers. The various colors of the plot indicate where a T-mobile handset can be reliably used to make and receive telephone calls in the presence of varying receive signals. The terrain, foliage, nearby structures, and WCF location are taken into account. The further the distance from the WCF, or the more abundant the clutter (trees, buildings, etc.) between the WCF and the handset, the weaker the receive signal will be. The following is a short explanation of each server class/ color:

Green: In door coverage (in-building and in residential coverage) represented by receive signals equal to or greater than -76 dBm

Yellow: In-Vehicle and outdoor coverage are represented by receive signals greater than or equal to -84 dBm.

White: No coverage or unreliable coverage (with minimal outdoor coverage in some areas)(no red is shown on the subject maps for this proposal).

The various parameters of the model used include terrain and clutter and are modified to more accurately reflect the actual terrain and topography effects of the specific location on the radio coverage predictions.

Other factors, not represented on the plot, include the ability of the site to handle the required call capacity or volume of calls and to provide the extent of data and other services required by T-Mobile customers. This site has been designed to provide coverage consistent with these factors. Finally, T-Mobile RF engineers have determined that this height and location is necessary for the effective functioning of the MCU.

Conclusion

The revised WCF location has been carefully designed at this site to maximize quality of service to our customers, which can best be accomplished at a height of 80 feet above ground. This location was also selected because of its position relative to the other T-Mobile 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.

RELATED INFORMATION



About T-Mobile's Wireless Network

T-Mobile operates the largest all digital, nationwide wireless network based on the globally dominant GSM (Global System for Mobile Communications) technology. 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 HotSpotsm.

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 use a cell phone you may hear a metallic sound or wobbling. This is probably caused by interference.

In order to minimize the interference from one site to another site that are using the same RF channel, all cell sites transmit at very low power level. The output of the wireless antenna sites is typically about 20 Watts. The RF emissions from a wireless antenna site are very minimal compared to the output power of other RF equipment. For example, TV antenna towers power output is in excess of 1000 Watts. Due to the low-level power output of wireless antennas, each cell site covers only a very limited area. In order to provide consistent, homogenous, quality wireless service, cell antenna sites is normally less than one mile apart. The exact distance required between cell antenna sites is determined by terrain, blockage from structures, call volume and antenna height.

How does a wireless antenna work and what is its function?

Wireless antennas send and receive radio signals. The RF carries the phone call to or from a wireless base station antenna that then connects your phone with the phone you are calling or with the phone calling you. Engineers carefully design each antenna to make sure it sends signals in precisely the right direction and at the right power level to provide the best calling quality to its coverage zone or "cell area." It is important to note the difference between antennas, towers and base stations. Antennas transmit the RF and are attached to structures such as buildings or towers. The antennas, towers and all of the related equipment make up a cell site.

T-Mobile®

Cells, or coverage areas, come in all sizes – they may be as small as a single building (like an airport or an arena), as large as a rural area of 20 miles across, or any size in between – and each cell has its own base station.

When you place a wireless call, your phone uses low-power radio signals to send your voice to an antenna at a base station. The base station sends your call to a switching center where it is connected to the landline phone network and delivered to the phone you called. If you are calling another wireless phone nearby, the switch might just connect you directly to another base station in the cell where the other phone is located. When you approach the boundary of one cell while using your wireless phone, the wireless network senses that the signal is becoming weak and automatically hands off the call to a base station in the next cell and your call continues uninterrupted.

An antenna distributes radio waves throughout its cell much like a lamp distributes light throughout a room. A light bulb can provide light evenly throughout a room if it's located in the right place. In the same way, a properly located antenna can provide high-quality calling throughout its cell. That's why they're usually found above the ground on towers, poles, and buildings.

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.

Thank you for your time and consideration.

T-Mobile



Kevin Durning
T-Mobile RF Engineer

ATTACHMENTS

Attachment 1

Maps without any site at that location, and existing and proposed coverage (also called propagation maps) plots

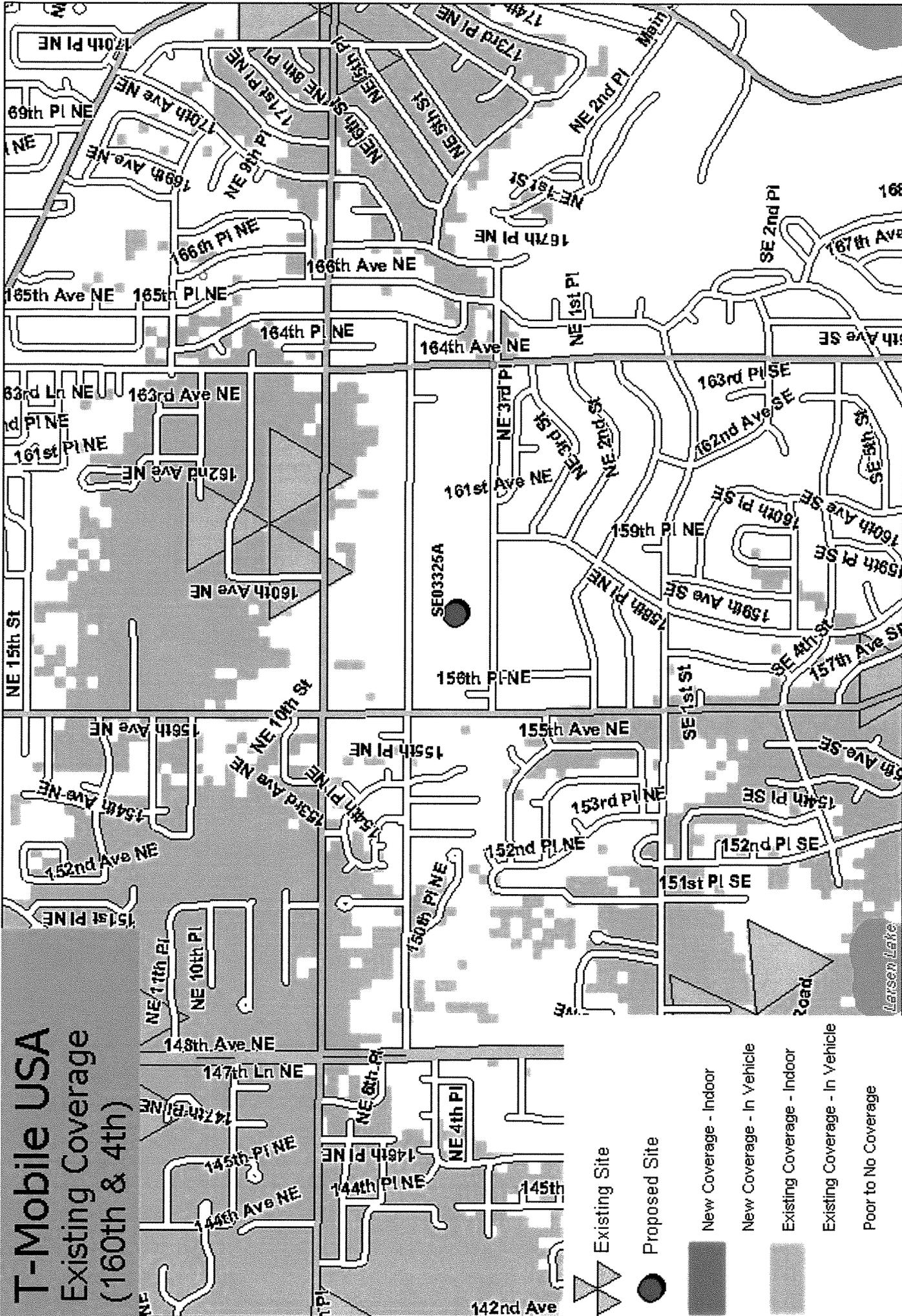
Attachment 2

Search Area map

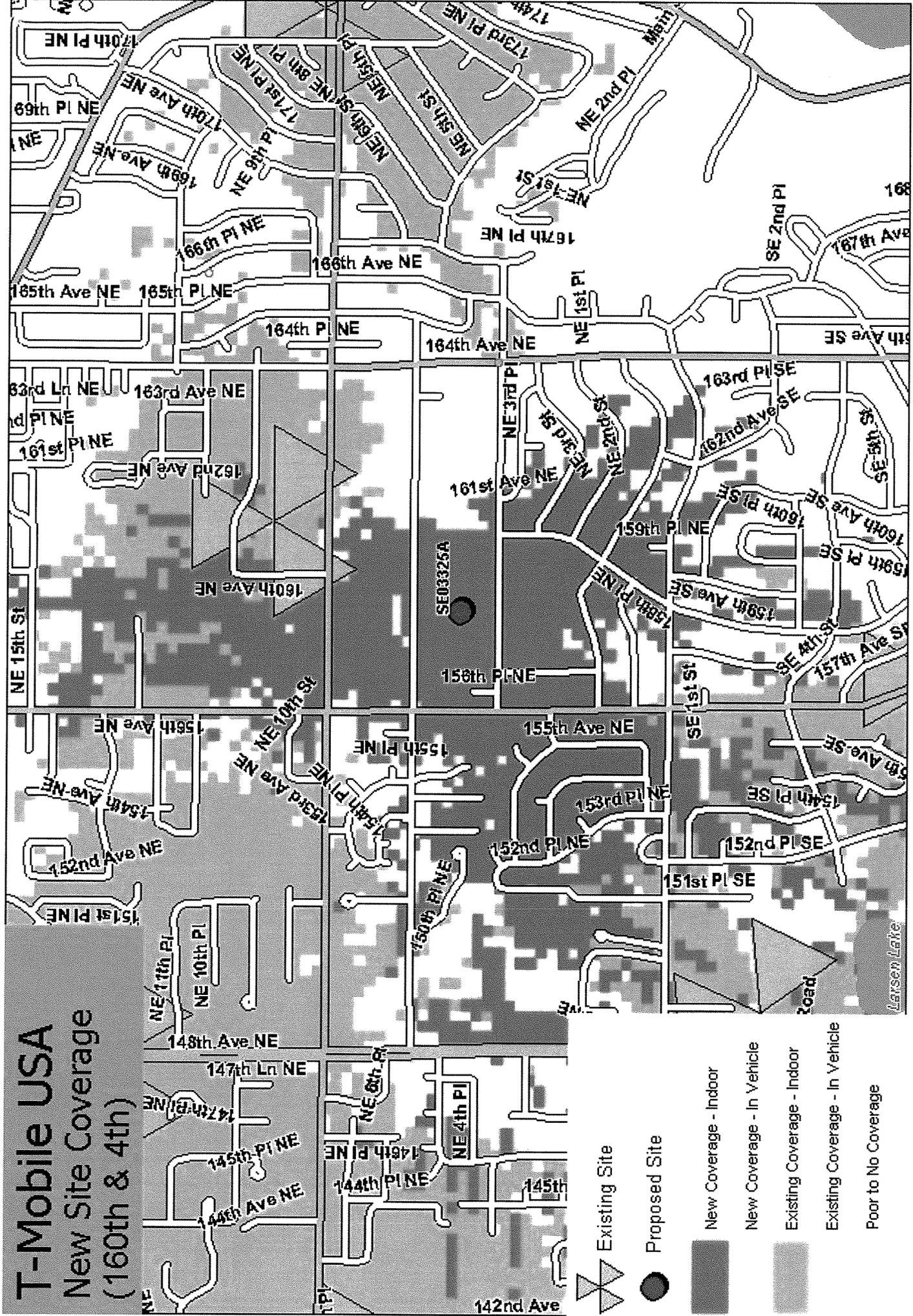
Attachment 3
Drive test data

- a. Drive test results at 50';
- b. Drive test results at 60';
- c. Drive test results at 75';
- d. Drive test results at 90'.

T-Mobile USA Existing Coverage (160th & 4th)



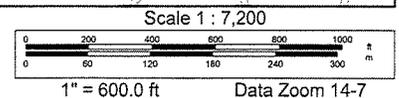
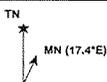
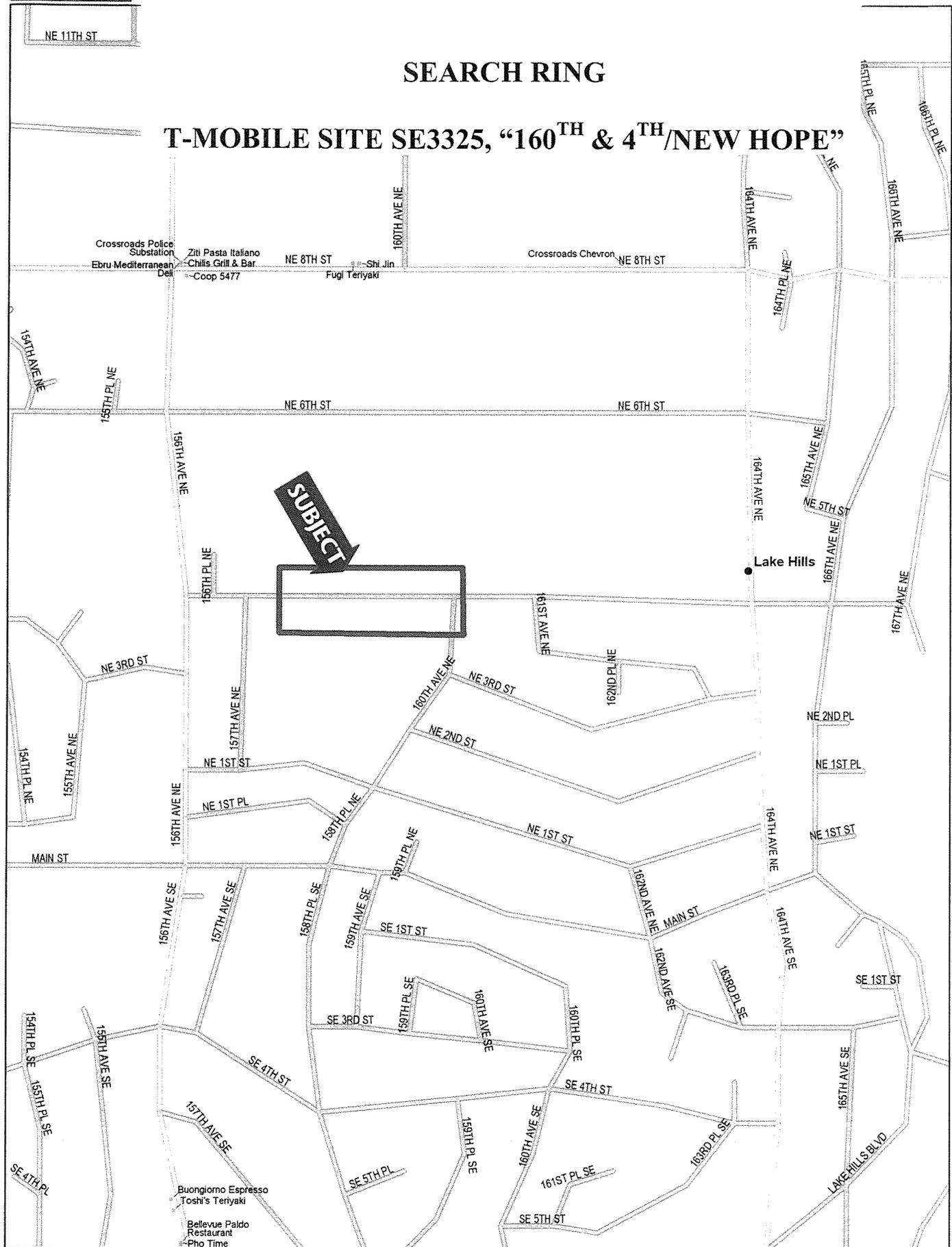
T-Mobile USA New Site Coverage (160th & 4th)



-  Existing Site
-  Proposed Site
-  New Coverage - Indoor
-  New Coverage - In Vehicle
-  Existing Coverage - Indoor
-  Existing Coverage - In Vehicle
-  Poor to No Coverage

SEARCH RING

T-MOBILE SITE SE3325, "160TH & 4TH/NEW HOPE"





0.1
0.2
kilometers

Legend

LEVEL	
-80 to -10	(518)
-90 to -80	(494)
-100 to -90	(1663)
-110 to -100	(419)
all others	(0)

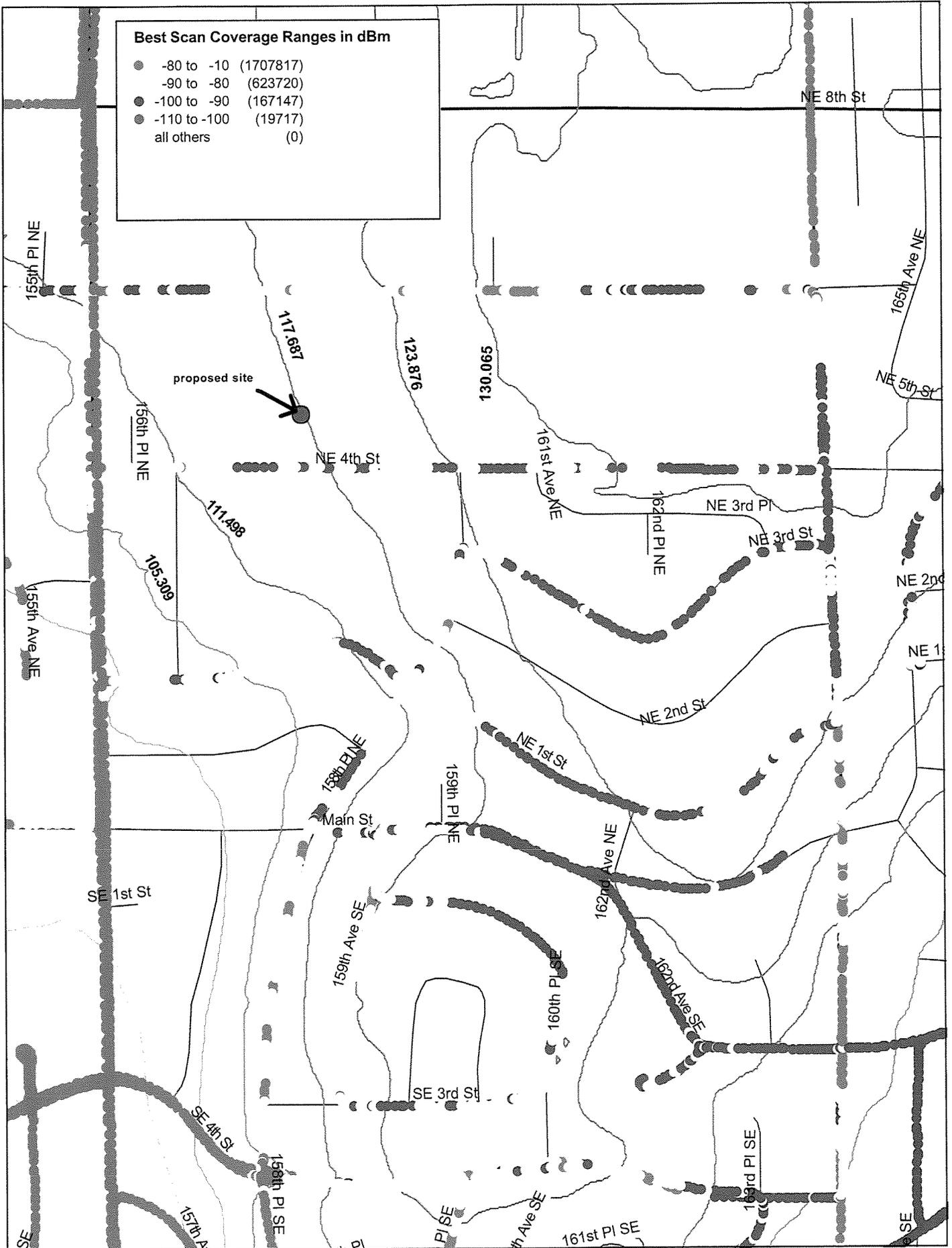
Google

© 2006 Europa Technologies
© 2006 Sanborn

Pointer: 47.364453° N 122.073068° W
Streaming 100%
Elev at 233.8ft

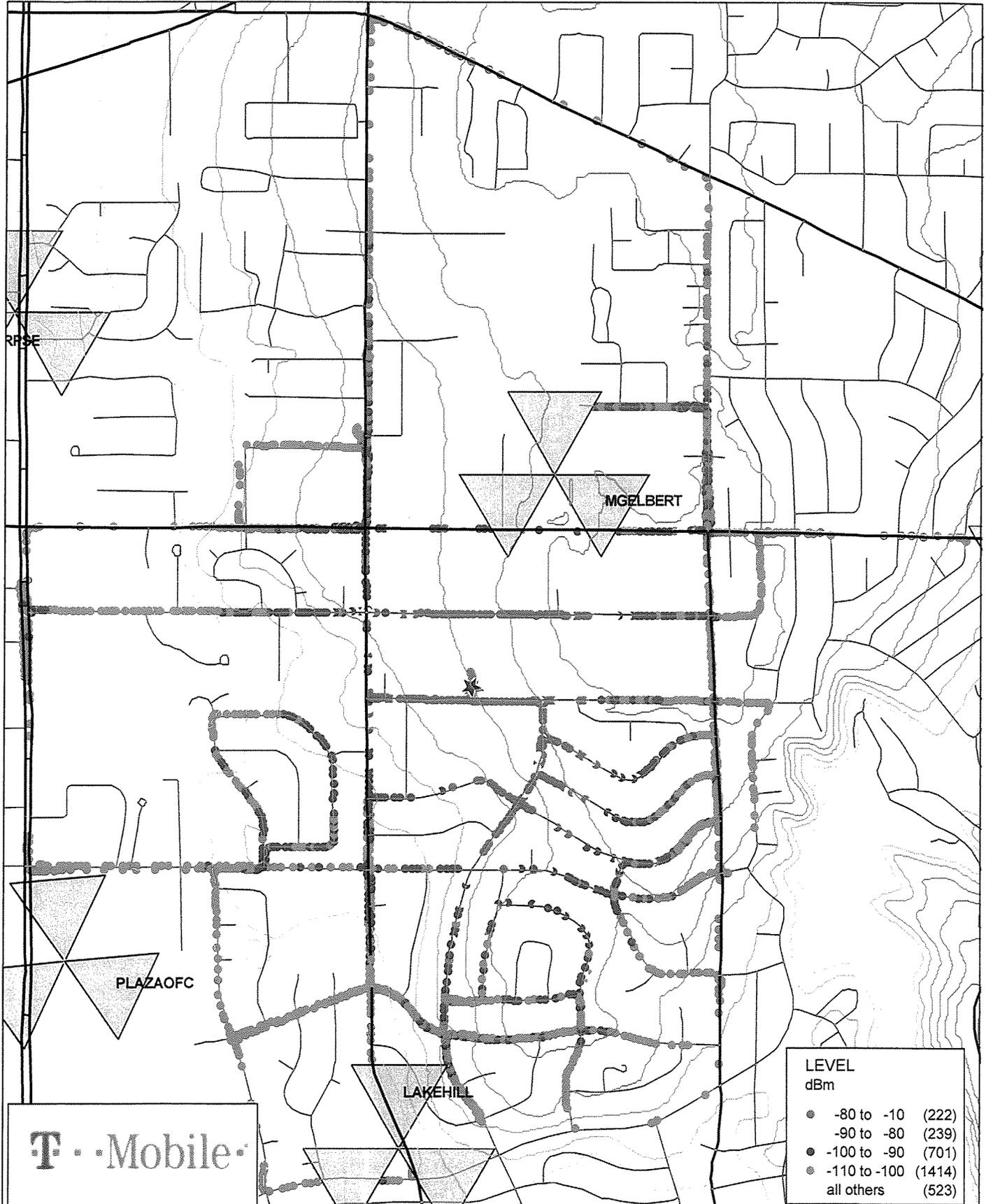
Best Scan Coverage Ranges in dBm

- -80 to -10 (1707817)
- -90 to -80 (623720)
- -100 to -90 (167147)
- -110 to -100 (19717)
- all others (0)



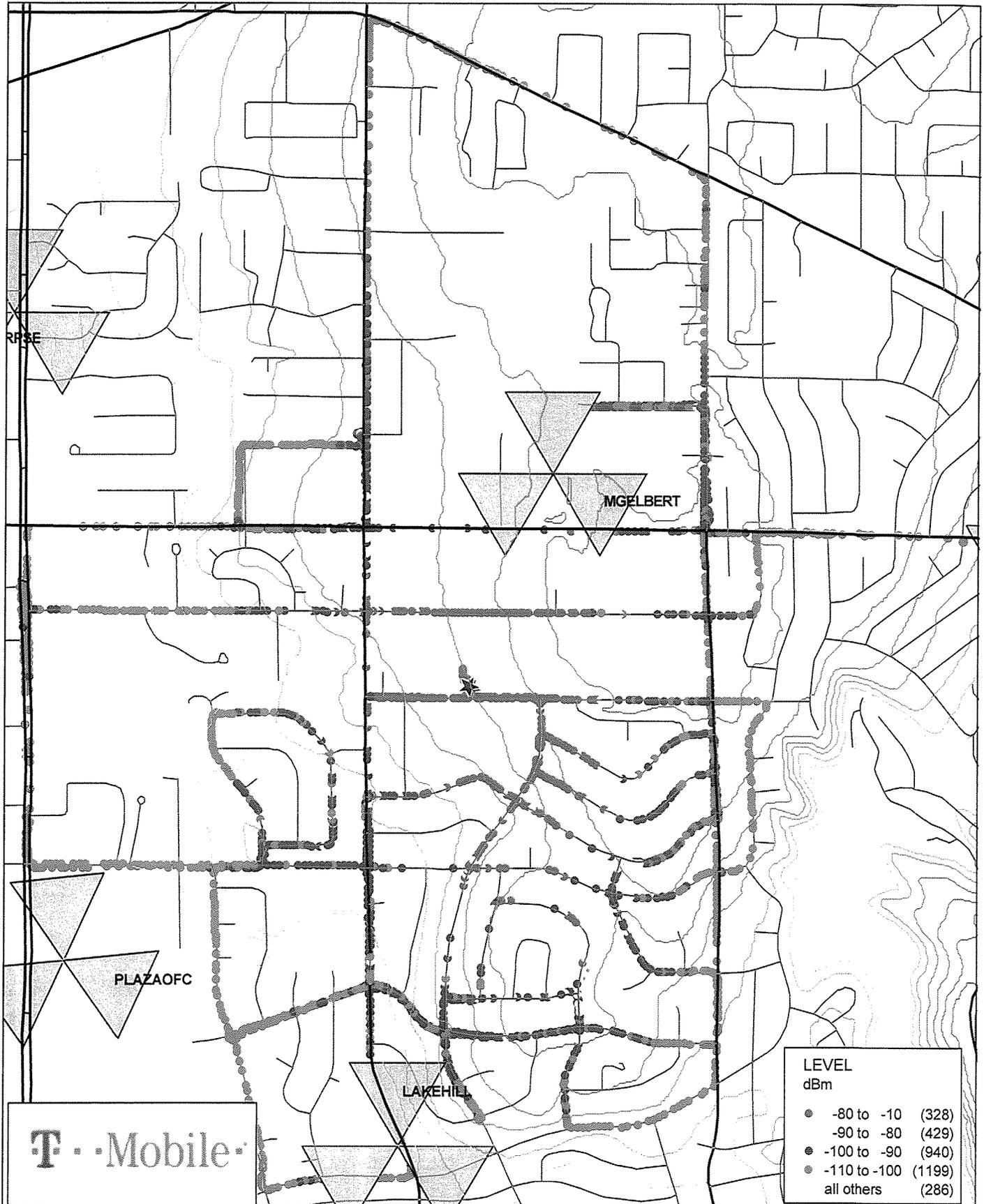
Site Name: 160th&4th / New Hope
Location: B - Edge of lot
Height: 50ft
Transmitter : 43 dBm
Antenna: 8 dBi gain

Date: 7/21/2006
Engineer: Kevin S. Durning



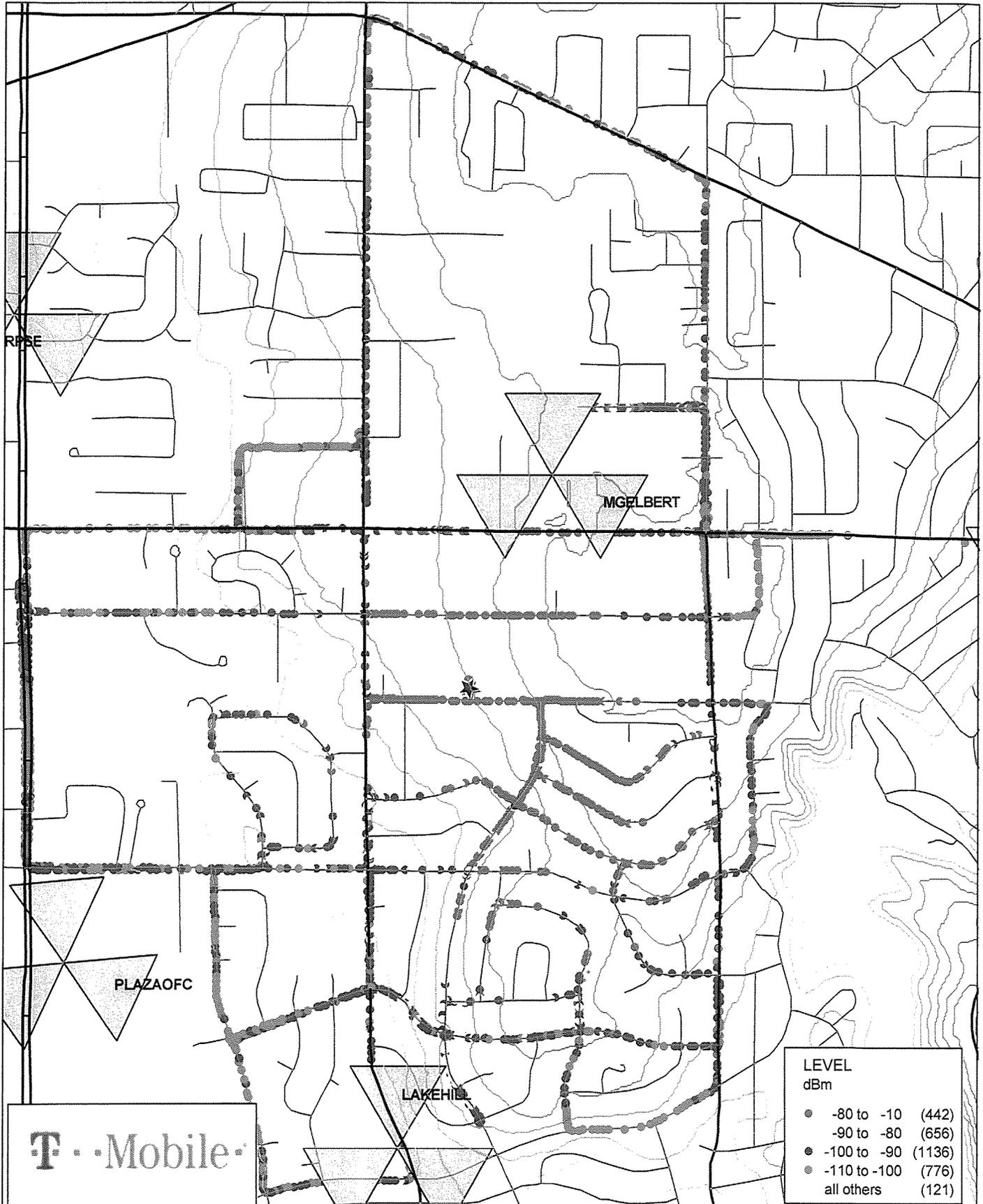
Site Name: 160th&4th / New Hope
Location: B - Edge of lot
Height: 60ft
Transmitter : 43 dBm
Antenna: 8 dBi gain

Date: 7/21/2006
Engineer: Kevin S. Durning



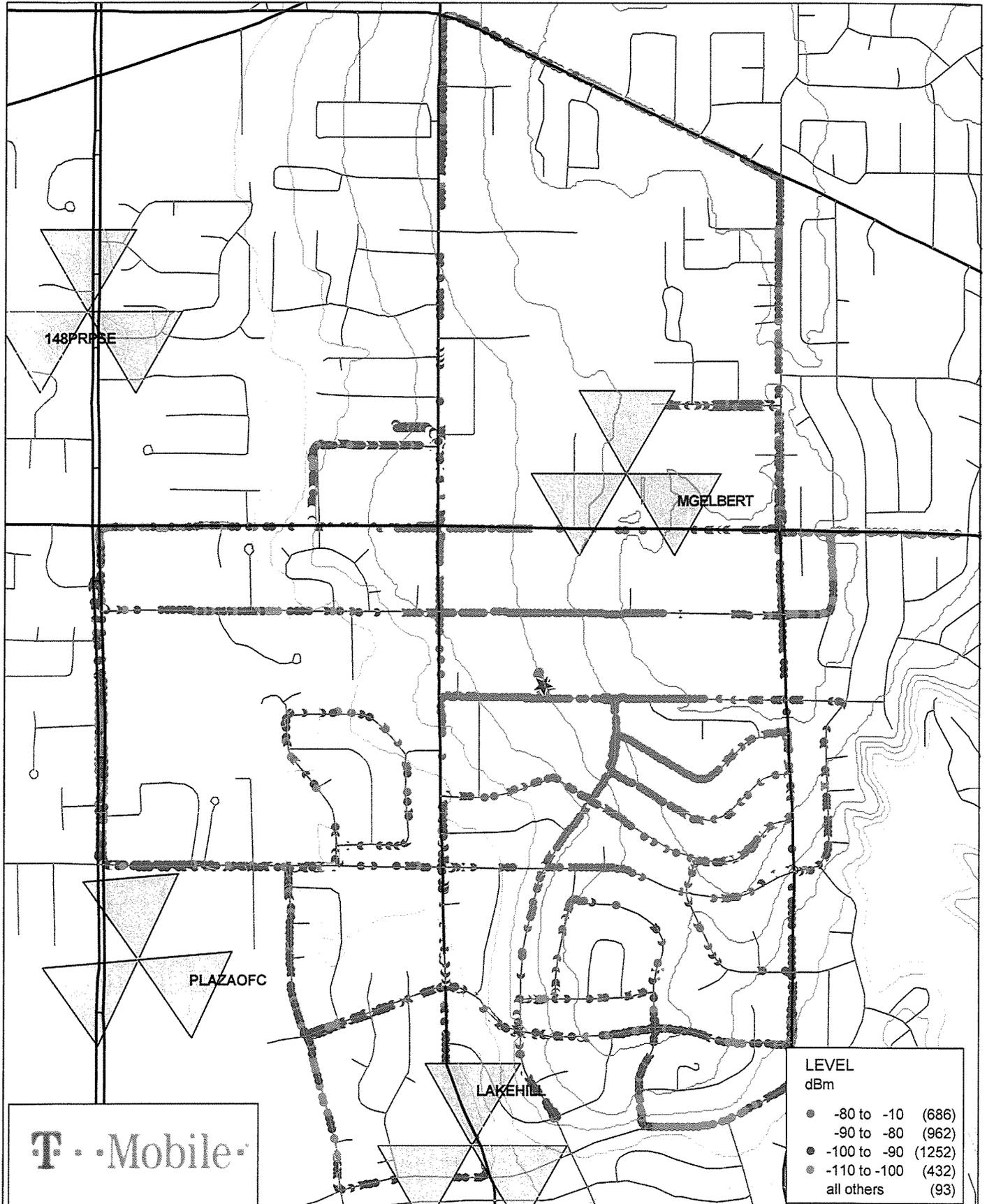
Site Name: 160th&4th / New Hope
Location: A - Middle of lot
Height: 75ft
Transmitter : 43 dBm
Antenna: 8 dBi gain

Date: 7/21/2006
Engineer: Kevin S. Durning



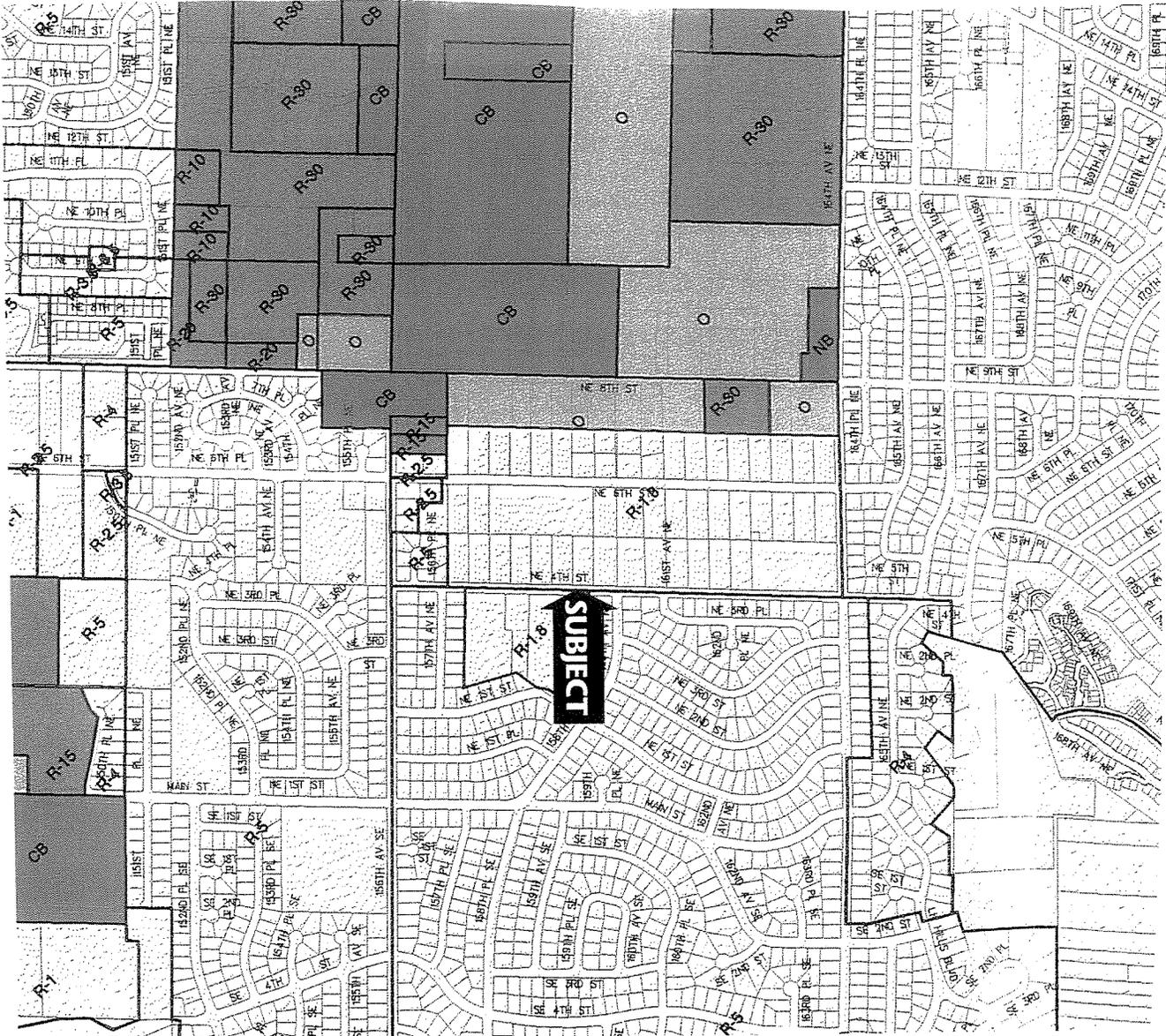
Site Name: 160th&4th / New Hope
Location: A - Middle of lot
Height: 90ft
Transmitter : 43 dBm
Antenna: 8 dBi gain

Date: 7/21/2006
Engineer: Kevin S. Durning



CITY OF BELLEVUE ZONING MAP

ATTACHMENT E



T-Mobile project
SE3325A
160th & 4th/PSE/New Hope
Proposed Wireless Communication Facility

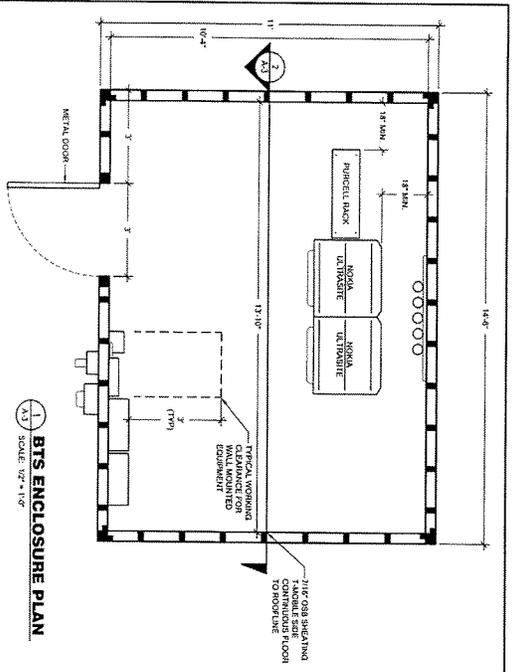
ATTACHMENT F

Deployment Plan

T-Mobile site SE3325, "160th & 4th"

On Air sites:

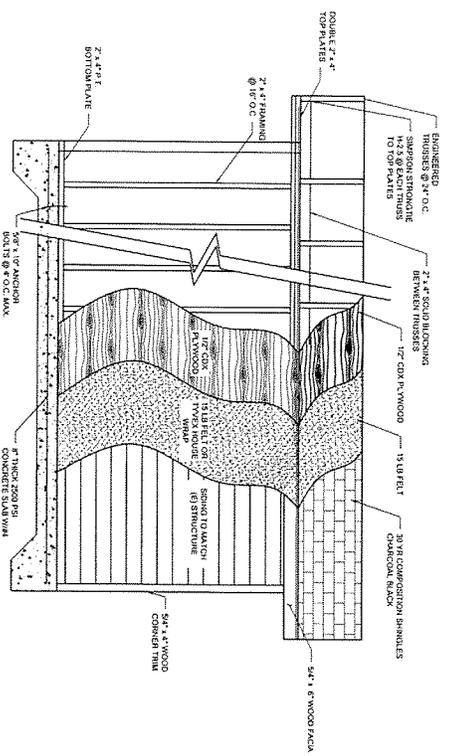
1. "148th Park and Ride," 1231-148th Avenue NE
2. "Midlakes Substation," 14001 NE 8th Street
3. "Maurice G. Elbert House," 16000 NE 8th Street
4. "NE 8th and Northup," 17222 NE 8th Street
5. "Plaza Office," 15015 Main Street
6. "Lake Hills," 548-156th Avenue SE



1 BTS ENCLOSURE PLAN
SCALE: 1/2" = 1'-0"

2 BTS ENCLOSURE INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

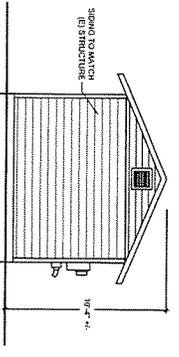
4 BTS ENCLOSURE EAST ELEVATION
SCALE: 1/2" = 1'-0"



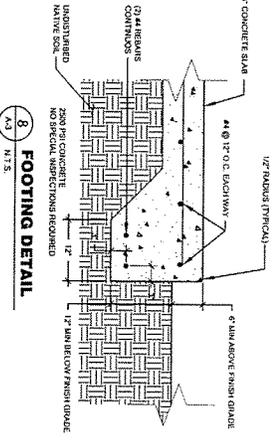
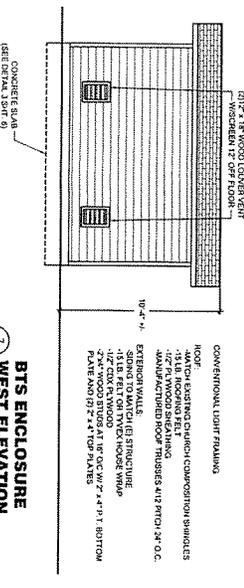
3 BTS ENCLOSURE FRAMING DETAIL
SCALE: NTS

5 BTS ENCLOSURE NORTH ELEVATION
SCALE: NTS

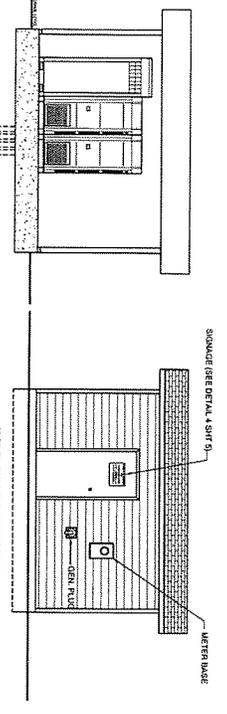
6 BTS ENCLOSURE SOUTH ELEVATION
SCALE: NTS



7 BTS ENCLOSURE WEST ELEVATION
SCALE: NTS



8 FOOTING DETAIL
SCALE: NTS



1807 NORTHVALE PARKWAY N
OFFICE (424) 353-7800

PROJECT INFORMATION:

160TH & 4TH/NEW HOPE
SE3325C
15750 NE 4TH ST
BELLEVUE, WA 98008

ISSUED FOR:

BUILDING PERMIT

REVISION HISTORY:

No.	DATE	DESCRIPTION	CHK.	APP.
1	11/17/2008	ISSUED PERMITS	BJT	ME
2	11/17/2008	ISSUED PERMITS	BJT	ME
3	10/29/2008	ISSUED PERMITS	BJT	ME
4	10/29/2008	ISSUED PERMITS	BJT	ME

PLANS PREPARED BY:

B. J. THOMAS, P.E.
7607 80TH AVE NE
MARYSVILLE, WA 98270
206-851-1106

DRAWN BY: CHK: BJT, APPV: BJT

LICENSE: BJT, BJT, AM

EQUIPMENT:

TABLET ANTENNAS LOCATED ON A BR/2' RAIL POLE WITH BTS COMPONENTS IN AN EQUIPMENT SHELF/ETC.

DRAWING INFORMATION:

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS AT THE CONSTRUCTION SITE. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT IMMEDIATELY. THE ARCHITECT SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES. THE ARCHITECT SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES. THE ARCHITECT SHALL BE RESPONSIBLE FOR ANY DISCREPANCIES.

DRAWING TITLES:

ENCLOSURE DETAILS

DRAWING NUMBER:

A-3

1807 NORTHSHORE DRIVE N
 BELLEVUE, WA 98008
 OFFICE (425) 384-7200

PROJECT INFORMATION:

160TH & 4TH/NEW HOPE
SE3325C
 15760 NE 4TH ST
 BELLEVUE, WA 98008

BUILDING PERMIT

ISSUED FOR: _____
 CHK. APP. DATE: _____
 DESCRIPTION: _____

REVISION HISTORY:

No.	DATE	DESCRIPTION	CHK. APP.	BY	BY
1	11/17/2008	MONTH REVISIONS	BLT	ME	
2	11/17/2008	UNION REVISIONS	BLT	ME	
3	10/29/2008	UNNOTED SURVEY REVISIONS	BLT	ME	
4	10/27/2008	ISSUED DESIGN REVIEW	BLT	ME	

PLANS PREPARED BY: **B. J. THOMAS, P.E.**

7607 80TH AVE NE
MARYSVILLE, WA 98270
206-951-1106

DRAWN BY: **CHK. BY: APPV. BY:**

ALB BLT AM

LICENSE NUMBER: _____

EQUIPMENT: _____

TABLE PARTS AND COULDS ON A 6" X 6" A4. POLE WITH GIS EQUIPMENT IN AN EQUIPMENT SHELTER.

DRAWING INFORMATION:

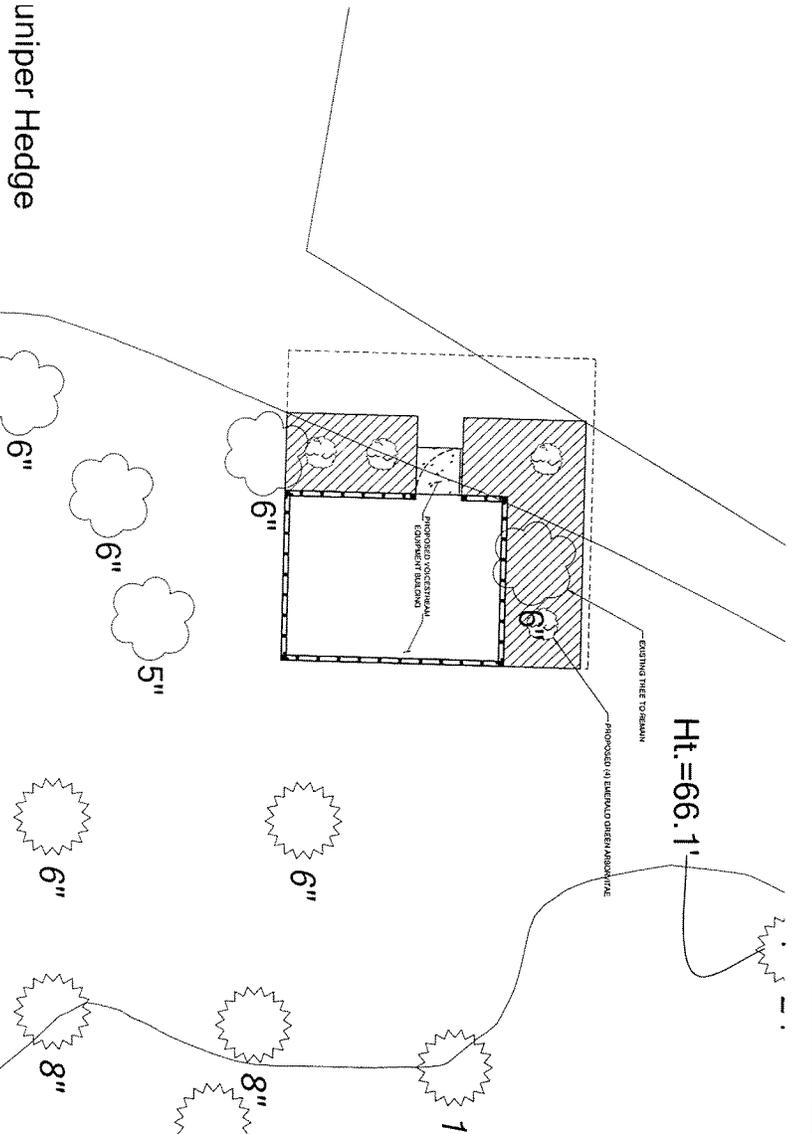
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL SERVICES ARE SHOWN BY THE LATEST REVISION. THE USER'S PROHIBITED BY LAW. ANY USE OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER SHALL BE AT THE USER'S RISK AND WITHOUT LIABILITY TO THE DESIGNER.

DRAWING TITLE:

LANDSCAPE PLAN

DRAWING NUMBER: _____

L-1



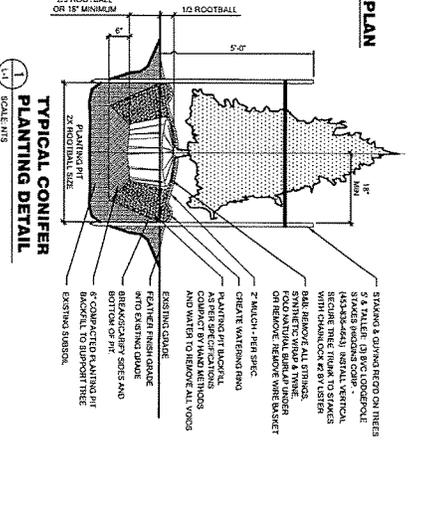
- NOTES:**
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AS REQUIRED TO PROTECT FROM ADJACENT UNAPPROVED UTILITIES AND TO COMPACTED TO 95% MINIMUM. SCALE ON HORIZONTAL DIMENSIONS TO MATCH 4" DEPTH. REMOVE DEBRIS & STONE LARGER THAN 3" IN ANY DIMENSION REMAINING ON THE JOB SITE PER THE CONTRACT DOCUMENTS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING THE DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
 2. TOPSOIL AND ROOTBALL TO A DEPTH OF 4" MINIMUM TO ACCOMPANY NEW TOPSOIL WITH BUREAU OF FOLLOWING TABLE PLACE MIN. 2" MINIMUM TOPSOIL AND COMPOST.
 3. CONTRACTOR TO VERIFY ALL DIMENSIONS AS REQUIRED TO PROTECT FROM ADJACENT UNAPPROVED UTILITIES AND TO COMPACTED TO 95% MINIMUM. SCALE ON HORIZONTAL DIMENSIONS TO MATCH 4" DEPTH. REMOVE DEBRIS & STONE LARGER THAN 3" IN ANY DIMENSION REMAINING ON THE JOB SITE PER THE CONTRACT DOCUMENTS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING THE DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
 4. CONTRACTOR TO VERIFY ALL DIMENSIONS AS REQUIRED TO PROTECT FROM ADJACENT UNAPPROVED UTILITIES AND TO COMPACTED TO 95% MINIMUM. SCALE ON HORIZONTAL DIMENSIONS TO MATCH 4" DEPTH. REMOVE DEBRIS & STONE LARGER THAN 3" IN ANY DIMENSION REMAINING ON THE JOB SITE PER THE CONTRACT DOCUMENTS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING THE DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
- JOB CONDITIONS:**
1. PLANT DURING PERIODS NORMAL FOR SEASONAL GROWTH AS DETERMINED BY SEASON WEATHER CONDITIONS, AND ACCEPTED PRACTICES. PLANTING OPERATIONS MAY BE SUSPENDED DURING PERIODS OF ADVERSE WEATHER THAT WOULD BE UNREASONABLY FOR ANY SUBSEQUENT RESULTING LOSSES.
- UNDESIRABLE CONDITIONS:**
1. BE MAINTAINED WITH UTILITY, MECHANICAL, AND ELECTRICAL PLANS SO THAT COLLISION OPERATIONS DO NOT DAMAGE LINES.
- WARRANTY:**
1. WARRANT ALL PLANT MATERIAL FOR HEALTHY, THIRING CONDITIONS FOR ONE YEAR FOLLOWING PLANT INSTALLATION.
 2. CONTRACTOR TO VERIFY ALL DIMENSIONS AS REQUIRED TO PROTECT FROM ADJACENT UNAPPROVED UTILITIES AND TO COMPACTED TO 95% MINIMUM. SCALE ON HORIZONTAL DIMENSIONS TO MATCH 4" DEPTH. REMOVE DEBRIS & STONE LARGER THAN 3" IN ANY DIMENSION REMAINING ON THE JOB SITE PER THE CONTRACT DOCUMENTS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING THE DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
 3. CONTRACTOR TO VERIFY ALL DIMENSIONS AS REQUIRED TO PROTECT FROM ADJACENT UNAPPROVED UTILITIES AND TO COMPACTED TO 95% MINIMUM. SCALE ON HORIZONTAL DIMENSIONS TO MATCH 4" DEPTH. REMOVE DEBRIS & STONE LARGER THAN 3" IN ANY DIMENSION REMAINING ON THE JOB SITE PER THE CONTRACT DOCUMENTS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING THE DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
- PLANT QUALITY:**
1. PLANTS SHALL BE FRESH, WELL FOLIAGED, IN PRIME CONDITION WHEN IN LEAF, AND OF DESIRED HEIGHT AND ANY OTHER SPECIFIC TREE OR BUSH, WILDOGWOODS AND OTHER CONIFERAE.
 2. PLANTS TO BE DELIVERED TO THE PROJECT SITE IN PROTECTIVE CONDITION. NO BALS AND BURN (APPROX) STUCK IS REQUIRED TO HAVE A ROOT STRUCTURE.
 3. PLANTS TO BE DELIVERED TO THE PROJECT SITE IN PROTECTIVE CONDITION. NO BALS AND BURN (APPROX) STUCK IS REQUIRED TO HAVE A ROOT STRUCTURE.
 4. CONTAINER GROWN PLANTS SHALL BE REQUIRED TO HAVE SURFACE ROOT TO HOLD THE CONTAINER GROWN PLANTS. THE ROOTS SHALL BE REMOVED FROM THE CONTAINER BUT NOT BE ROOT BOUND.
 5. THE BIRTH INFLUENCE WHEN REMOVED FROM THE CONTAINER BUT NOT BE ROOT BOUND.
- FERTILIZER:**
1. FERTILIZER 4-2-2 THROUGHOUT AS MANUFACTURED BY PACIFIC AGRO CO.
 2. APPLY FERTILIZER AS PER MANUFACTURER'S PRINTED INSTRUCTIONS.
 3. FERTILIZER TO BE APPLIED BY HAND OR WITH A FERTILIZER SPREADER.
 4. FERTILIZER TO BE APPLIED BY HAND OR WITH A FERTILIZER SPREADER.
 5. FERTILIZER TO BE APPLIED BY HAND OR WITH A FERTILIZER SPREADER.
 6. FERTILIZER TO BE APPLIED BY HAND OR WITH A FERTILIZER SPREADER.
- MATCH:**
- STEREO, CHECK ON OTHER APPROVED COMMERCIALLY AVAILABLE PRINTED MATCH.
- PLANT INSTALLATION:**
1. EXCAVATE PLANTING HOLE.
 2. PLANT IN CENTER OF PIT, REMOVE ANY ROOT CONTAINERS AS BE REMOVED AND SPREAD ROOTS TO HAVE A NATURAL SPREAD AND DISTRIBUTION.
 3. BACKFILL WITH EXCAVATED MATERIAL. TAKE CARE NOT TO SHAKE ROOT SYSTEM.
 4. FERTILIZE AS SPECIFIED.
 5. WATER AND GIVE AS SPECIFIED.
 6. WATER AND GIVE AS SPECIFIED.
 7. WATER AND GIVE AS SPECIFIED.
 8. WATER AND GIVE AS SPECIFIED.
 9. WATER AND GIVE AS SPECIFIED.
 10. WATER AND GIVE AS SPECIFIED.
- MAINTENANCE:**
1. MAINTAIN PLANTING AREA FOR A PERIOD OF ONE YEAR UNTIL THE CARE OF THE CONTRACTOR.
 2. MAINTAIN PLANTING AREA FOR A PERIOD OF ONE YEAR UNTIL THE CARE OF THE CONTRACTOR.
 3. MAINTAIN PLANTING AREA FOR A PERIOD OF ONE YEAR UNTIL THE CARE OF THE CONTRACTOR.

LANDSCAPE PLAN
 1/8" = 1'-0"
 1/8" SCALE 18" x 11"

SYMBOL	SIZE	NAME	COMMENTS
	4"	4" COMPACT CONIFER (Taxus occidentalis)	SPACED OUT 2' x 2' FROM BUILDING
	6"	6" COMPACT CONIFER (Taxus occidentalis)	SPACED OUT 2' x 2' FROM BUILDING
	8"	8" COMPACT CONIFER (Taxus occidentalis)	SPACED OUT 2' x 2' FROM BUILDING
	1'	1' COMPACT CONIFER (Taxus occidentalis)	SPACED OUT 2' x 2' FROM BUILDING

NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AS REQUIRED TO PROTECT FROM ADJACENT UNAPPROVED UTILITIES AND TO COMPACTED TO 95% MINIMUM. SCALE ON HORIZONTAL DIMENSIONS TO MATCH 4" DEPTH. REMOVE DEBRIS & STONE LARGER THAN 3" IN ANY DIMENSION REMAINING ON THE JOB SITE PER THE CONTRACT DOCUMENTS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE FIELD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING THE DISCREPANCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.



TYPICAL CONIFER PLANTING DETAIL
 1/8" = 1'-0"
 1/8" SCALE 18" x 11"