

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

ORIGINAL

IN RE: :
: :
APPLICATION OF CELLCO PARTNERSHIP : DOCKET NO. 362
D/B/A VERIZON WIRELESS FOR A : :
CERTIFICATE OF ENVIRONMENTAL : :
COMPATIBILITY AND PUBLIC NEED FOR : :
THE CONSTRUCTION, MAINTENANCE : :
AND OPERATION OF A WIRELESS : :
TELECOMMUNICATIONS FACILITY AT : :
165 ELMWOOD HILL ROAD, PUTNAM, : :
CONNECTICUT : JULY 22, 2008

RECEIVED
JUL 22 2008

CONNECTICUT
SITING COUNCIL

RESPONSES OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS
TO CONNECTICUT SITING COUNCIL PRE-HEARING INTERROGATORIES

On July 2, 2008, the Connecticut Siting Council ("Council") issued Pre-Hearing Interrogatories to the Applicant, Cellco Partnership d/b/a Verizon Wireless ("Cellco"), relating to the above-captioned docket. Below are Cellco's responses.

Question No. 1

Did Cellco receive return receipts for all adjacent landowners listed in Application Attachment 5? If not, describe any additional effort to serve notice.

Response

Cellco received return receipts from all but three property owners listed as abutters behind Tab 5 of the Application. Notices to the Estate of Walter H. Pray, Hans Dirkson and Norman and Sara Seney, Jr. were returned as unclaimed and/or unable to forward. Cellco confirmed with the appropriate Town Assessor's records that the mailing addresses for these three properties were correct and resent the notice letters by regular mail.

Question No. 2

Identify the location of the following abutting properties: 168 Elmwood Hill Road, Putnam (101/7), and 109 Elmwood Hill Road, Thompson (164/12/30).

Response

The parcel identified as 168 Elmwood Hill Road, Putnam, Connecticut (Parcel # 101/7) is located on the north side of Elmwood Hill Road and is a portion of the same lot identified as Parcel # 164/11/32 in the Town of Thompson Assessor's records. The Town of Putnam lists the owner of this parcel as "Estate of Walter H. Pray". The Town of Thompson lists the owner of this same parcel as "Charles E. Pray". Cellco sent notices to each of the listed owners.

The property at 109 Elmwood Hill Road, Thompson, Connecticut, (Parcel # 164/12/30) is located northwest of the property on which the tower is proposed to be located. This parcel is owned by "Norma M. Conant". The abutter's list behind Tab 5 of the Application incorrectly identified this parcel as lot 30. The correct lot number is 3A.

Question No. 3

Referring to the Site Search Summary, identify the person(s) whom Cellco attempted to contact for the following properties: 189 Elmwood Hill Road and 203 Elmwood Hill Road, Putnam.

Response

Cellco's real estate consultant attempted to contact Hans Dirkson, the owner of both of these properties, by phone and mail.

Question No. 4

Would blasting be required for the construction of the proposed site? Provide estimates of cut and fill.

Response

Cellco does not anticipate the need for blasting during construction of the East Putnam facility. If rock is encountered during construction it could be removed using mechanical methods rather than blasting. Boulders, if encountered, could also be removed without blasting.

Construction of the East Putnam facility will result in a total "cut" of approximately 700 cubic yards of material and a total "fill" of approximately 660 cubic yards of material.

Question No. 5

What is Cellco's minimum signal level threshold for in-building and in-vehicle use?

Response

Cellco's minimum signal level threshold is -75 dBm for in-building service and -85 dBm for in-vehicle service.

Question No. 6

Did Cellco perform a site drive test or base line drive test for the area? If yes, please provide.

Response

Cellco did not perform a drive test at this proposed cell site location, but did rely on its baseline drive data to fine-tune the propagation modeling tool used to produce the plots included in the Application and submitted in response to these interrogatories.

Question No. 7

Provide the methodology and input parameters used to obtain the power density figure presented on page 8 of Application Exhibit 1.

Response

See Attachment 1.

Question No. 8

How was the FAA Summary Report generated? Was an FAA issue, sanctioned, or maintained program used?

Response

The summary reports are generated by a computer program tool entitled "Airspace" which contains a master listing of all public and private landing facilities (airports, heliports, runways) as well as navigational facilities and aids taken directly from the FAA's database. This program is updated periodically, as necessary. When the specifics of a proposed tower location are entered into the program (latitude; longitude; ground elevation; and structure height) the program evaluates whether the proposed tower exceeds any of the established FAA aviation standards, for example:

- Proximity to airport/heliport
- Glide slope of airport/heliport runway
- In air traffic flight path
- Proximity to navigational facilities

Height restrictions in place surrounding airports/runways are also evaluated for a proposed tower structure. As indicated in the summary report included behind Tab 13 of the

Application, the proposed East Putnam tower does not exceed (DNE) these FAA standards. The program will also notify you if a proposed facility requires a filing with the FAA.

Question No. 9

Provide coverage plots, using the scale and thresholds in Application Attachment 7, that depict cellular and PCS coverage from existing/approved Cellco sites and the proposed tower at a height of 130 feet.

Response

The coverage plots requested are included in Attachment 2.

Question No. 10

Describe how the cellular and PCS systems interrelate.

Response

The PCS and cellular systems Cellco plans to deploy at the proposed East Putnam facility will handle both Voice and Data traffic. Currently, Cellco uses its PCS frequencies for both its Voice and Data Networks, and its cellular frequencies as a Voice-only network. Cellco will operate both PCS and cellular frequencies simultaneously from the East Putnam facility. As demand on the system increases, the PCS frequencies will provide capacity offload for the cellular frequencies in use at the East Putnam facility.

As the Council is aware from prior dockets for cell sites in eastern Connecticut, Cellco has entered into a spectrum sharing agreement with AT&T of Rhode Island for cell sites along the Connecticut/Rhode Island boarder. In this agreement Cellco and AT&T agree to use only one-half of their respective licensed spectrum, in the cellular frequency range, to limit the amount of interference between the two networks. As usage increases on the limited cellular spectrum

for Cellco sites along the boarder, the system will move Cellco customers over to its PCS frequencies with an inter-frequency hand off. This hand-off is seamless to the customer.

Question No. 11

Describe Cellco's future plans to provide wireless coverage within a six-mile radius of the proposed site. Identify Cellco's tentative schedule to site such facilities.

Response

The only "future" site that Cellco is currently pursuing within six mile of the proposed East Putnam facility is the MCF/Thompson 2 facility currently pending before the Council in Docket No. 358. If approved, Cellco and MCF would anticipate completing the construction of that facility later this year.

Question No. 12

The Site Search Summary describes existing towers that currently provide coverage for Cellco's network. Are there any other tower facilities within four miles of the proposed site that do not support Cellco's network?

Response

According to the Council Telecommunications Database, Omnipoint owns and operates an existing monopole tower at 720 Thompson Road in Thompson, Connecticut, immediately east of Cellco's Lowell Davis Drive tower site.

General Power Density

Site Name: East Putnam
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW PCS	1970	6	484	2904	147	0.0483	1.0	4.83%
VZW	875	9	487	4383	147	0.0729	0.583	12.51%

Total Percentage of Maximum Permissible Exposure

17.34%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

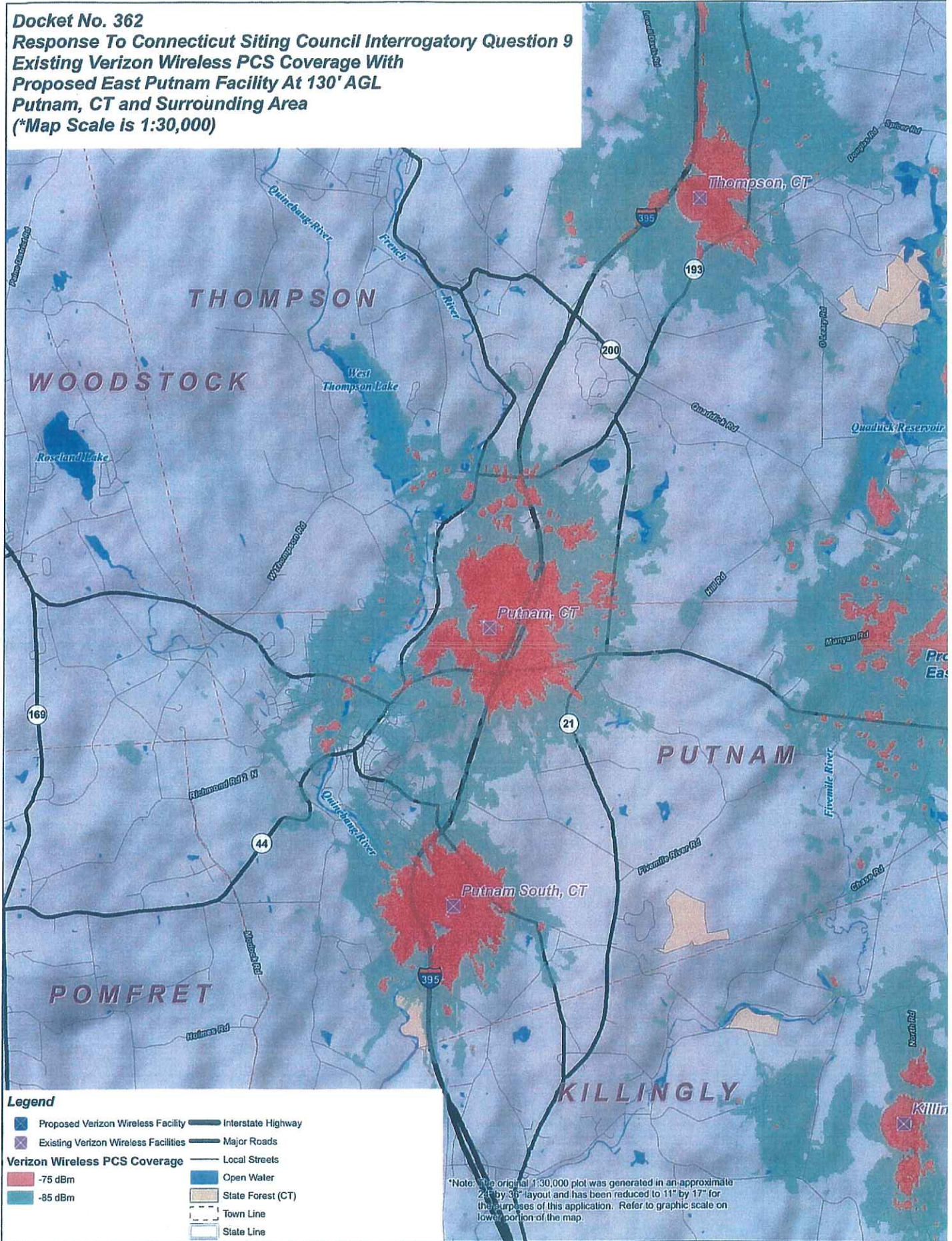
mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

TAB 1

Docket No. 362
Response To Connecticut Siting Council Interrogatory Question 9
Existing Verizon Wireless PCS Coverage With
Proposed East Putnam Facility At 130' AGL
Putnam, CT and Surrounding Area
 (*Map Scale is 1:30,000)

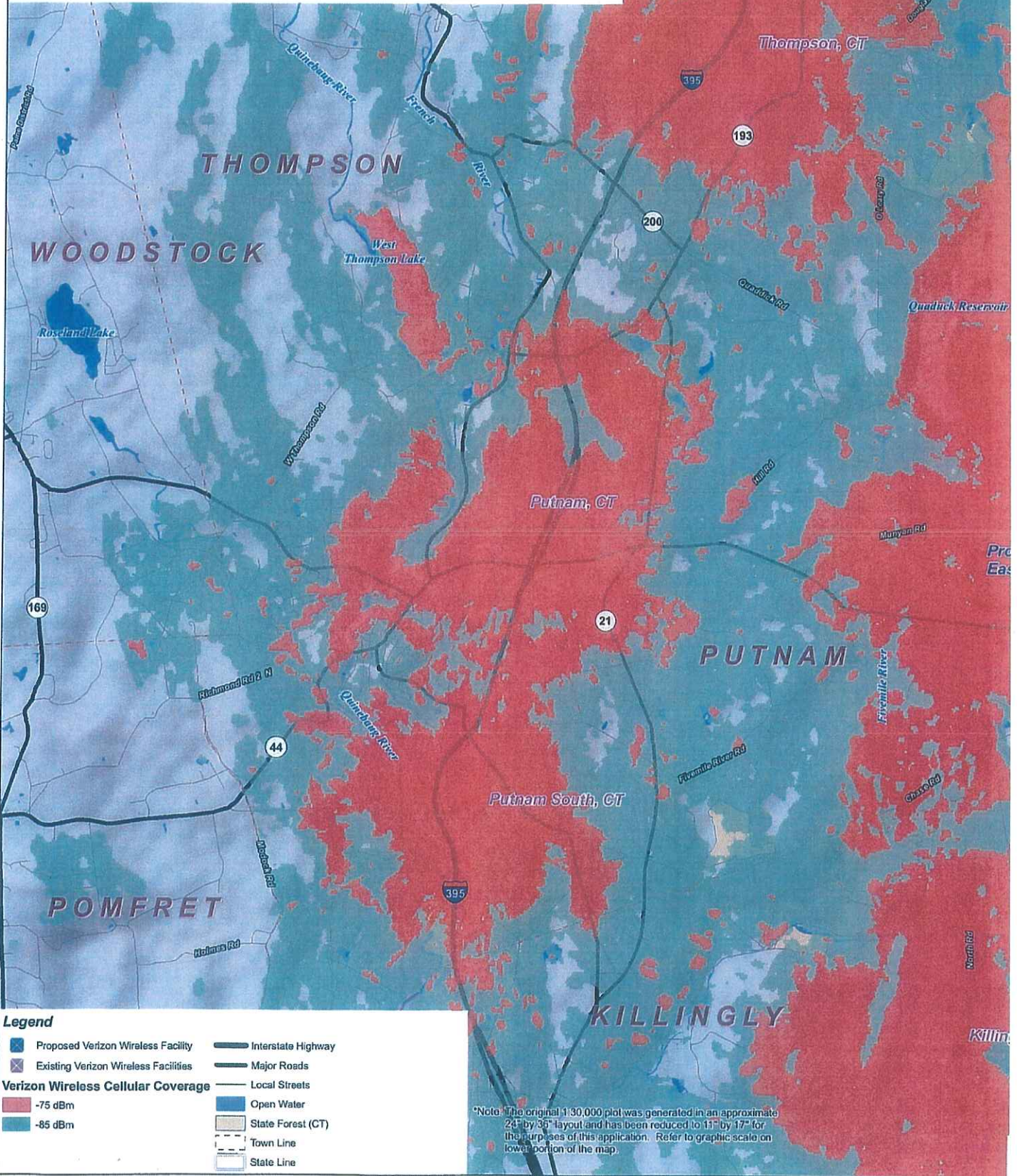


Legend

- Proposed Verizon Wireless Facility
- Existing Verizon Wireless Facilities
- 75 dBm
- 85 dBm
- State Forest (CT)
- Town Line
- Slate Line
- Interstate Highway
- Major Roads
- Local Streets
- Open Water

*Note: The original 1:30,000 plot was generated in an approximate 21" by 35" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.

Docket No. 362
Response To Connecticut Siting Council Interrogatory Question 9
Existing Verizon Wireless Cellular Coverage With
Proposed East Putnam Facility At 130' AGL
Putnam, CT and Surrounding Area
 (*Map Scale is 1:30,000)



Legend

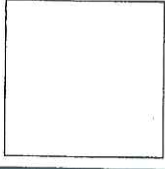
Proposed Verizon Wireless Facility	Interstate Highway
Existing Verizon Wireless Facilities	Major Roads
Verizon Wireless Cellular Coverage	
-75 dBm	Open Water
-85 dBm	State Forest (CT)
	Town Line
	State Line
	Local Streets

*Note: The original 1:30,000 plot was generated in an approximate 24" by 36" layout and has been reduced to 11" by 17" for the purposes of this application. Refer to graphic scale on lower portion of the map.

mapdata\p01011101\p01011101.ctb_10/10/2006 10:00:00 AM

Cellco Partnership
d.b.a. Verizon Wireless

Dewberry
Dewberry-Goodkind, Inc.
1000 WEST MAIN STREET
SUITE 100
PUTNAM, CT 06260
TEL: 860.377.2288 FAX: 860.377.2288



No.	DATE	BY	DESCRIPTION
1	07/16/08	AM	ISSUED DRAWING
2	08/08/08	AM	FINAL D.C.
3	08/20/08	AM	FINAL D.C.
4	08/20/08	AM	FINAL D.C.
5	08/20/08	AM	FINAL D.C.
6	08/20/08	AM	FINAL D.C.
7	08/20/08	AM	FINAL D.C.
8	08/20/08	AM	FINAL D.C.
9	08/20/08	AM	FINAL D.C.
10	08/20/08	AM	FINAL D.C.
11	08/20/08	AM	FINAL D.C.
12	08/20/08	AM	FINAL D.C.
13	08/20/08	AM	FINAL D.C.
14	08/20/08	AM	FINAL D.C.
15	08/20/08	AM	FINAL D.C.
16	08/20/08	AM	FINAL D.C.
17	08/20/08	AM	FINAL D.C.
18	08/20/08	AM	FINAL D.C.
19	08/20/08	AM	FINAL D.C.
20	08/20/08	AM	FINAL D.C.

REVISIONS

EAST PUTNAM
165 ELMWOOD HILL ROAD
PUTNAM, CT 06260

SITE NAME (LOCUS)

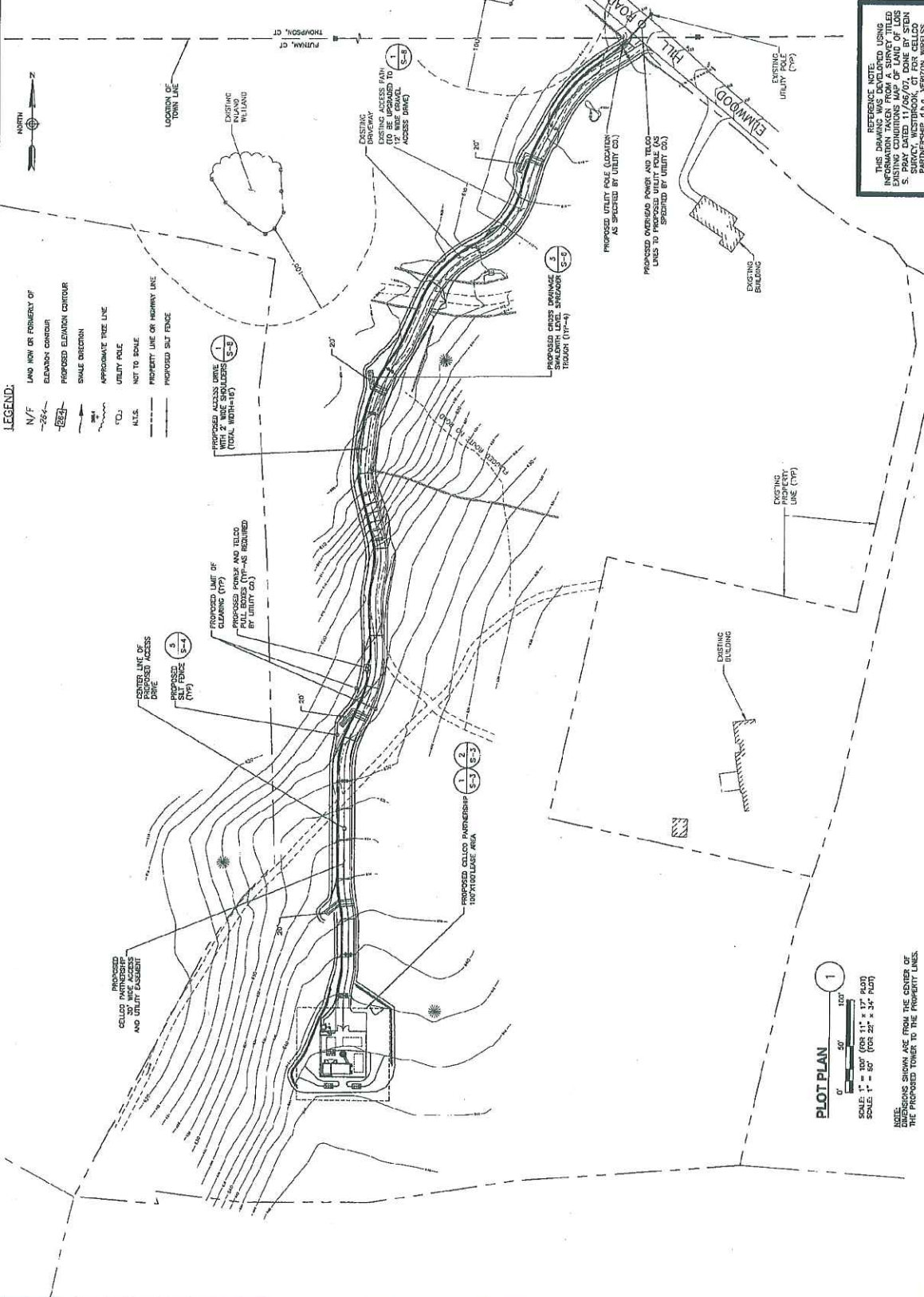
DRAWN BY: JEF
APPROVED BY: CJD
CHECKED BY: CJD
DATE: 11/29/07
SHEET TITLE:

PLOT PLAN

DEWBERRY P.L. 00000003

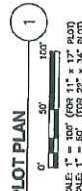
S-1

SHEET NO.



- LEGEND:**
- N/F LAND NOW OR FORMERLY OF ELEVATION CONTOUR
 - PROPOSED ELEVATION CONTOUR
 - SCALE DISCREPANCY
 - APPROXIMATE TREE LINE
 - UTILITY POLE
 - NOT TO SCALE
 - PROPERTY LINE OR HIGHWAY LINE
 - PROPOSED SUT FENCE
 - PROPOSED ACCESS DRIVE (TOTAL WIDTH=15')
 - PROPOSED LINE OF CLEARING (TOP)
 - PROPOSED POLES AND TILLO FULL BOXES (TOP-AS REQUIRED BY UTILITY CO.)
 - PROPOSED CELLCO PARTNERSHIP 100'X100' LANE AREA
 - PROPOSED 30' WIDE ACCESS AND UTILITY EASEMENT
 - CENTER LINE OF PROPOSED SUT FENCE (TOP)
 - CENTER LINE OF PROPOSED ACCESS DRIVE
 - PROPOSED CROSS DRAINAGE TRENCH (10'-14')
 - PROPOSED UTILITY POLE LOCATION AS SPECIFIED BY UTILITY CO.
 - PROPOSED OVERHEAD POLES AND TILLO LINES TO PROPOSED UTILITY POLE LOCATION AS SPECIFIED BY UTILITY CO.
 - EXISTING BUILDING
 - EXISTING UTILITY POLE (TOP)
 - EXISTING UTILITY POLE (TOP)
 - EXISTING BUILDING
 - EXISTING UTILITY POLE (TOP)

REFERENCE NOTE:
THIS DRAWING WAS DEVELOPED USING THE EXISTING CONDITIONS MAP OF LAND OF LOUISIANA, PARISH OF ORLEANS, PARISHSHIP 04.04, VERIZON WIRELESS



NOTE:
DIMENSIONS SHOWN ARE FROM THE CENTER OF THE PROPOSED TOWER TO THE PROPERTY LINES.