



New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

September 13, 2005

RECEIVED
SEP 13 2005

CONNECTICUT
SITING COUNCIL

Ms. Pamela Katz, Chairman, and
Members of the Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Use of an Approved Fire Department Tower Located at 719 George Washington Turnpike, Burlington, Connecticut.

Dear Chairman Katz and Members of the Council:

Pursuant to Connecticut General Statutes (C.G.S.) Section 16-50aa, New Cingular Wireless PCS, LLC ("Cingular") hereby requests an order from the Connecticut Siting Council ("Council") approving the proposed shared use by Cingular of a municipal telecommunications tower to be located at the Burlington Fire Department, 719 George Washington Turnpike, Burlington, Connecticut 06013. A copy of this letter is being sent to the 1st Selectman of the Town of Burlington.

Approved Municipal Tower

The Town of Burlington ("Town") owns and operates a self-supporting lattice communications tower on Town-owned property adjacent to the Fire Department at 719 George Washington Turnpike. The Town Fire Department is in need of a taller tower to remedy gaps in its own emergency communications and sought out someone willing to construct same. The replacement tower will be owned by the Town with Fire Department antennas at the top and remain under local zoning jurisdiction.

In July and August of 2005, a proposal to replace the existing 140 foot lattice tower with a 180 foot monopole approximately 90 feet to the southwest was comprehensively reviewed by the Burlington Board of Selectman and Planning & Zoning Commission ("P&Z"). The replacement monopole would be located adjacent to the firehouse at approximate coordinates of N 41° 45' 59.7" and W 72° 57' 42.7" (NAD 83).

P&Z approved the tower replacement at its regular meeting of August 24, 2005. The written resolution is not yet available. In the event the Council so desires, staff can confirm with the Town which owns the property the existence of a lease with Cingular for the project and the P&Z's recent approval of the replacement Fire Department tower. We will provide a copy of the resolution for Council files once it is available.

Neither the existing lattice tower, nor the replacement monopole, is a "facility" as that term is defined in Section 16-50i of the Connecticut General Statutes for purposes of Council jurisdiction. The lattice tower was constructed in 1997 under jurisdiction of the Burlington P&Z, and it has been continuously owned, utilized, and managed by the Town for emergency communications. Like Verizon in 1997, Cingular seeks approval from the Council before co-locating on the replacement monopole.

Proposed Shared Use of the Replacement Monopole

Pursuant to the P&Z's approval, Town antennas presently mounted on the existing lattice tower will be relocated to the replacement monopole, and the existing lattice tower is to be dismantled and removed from the property. The Town's existing whip antennas will be located at the top of the monopole, and additional Town antennas are to be mounted below the 160 foot level.

The Town will also provide space on the monopole for use by wireless carriers, and it has approved relocating Verizon's antennas from the 119 foot level of the existing lattice tower to the 160 foot level of the new replacement monopole. Through this Request for a Tower Sharing Order, we also ask the Council to acknowledge Verizon's plans to relocate its antennas.

Furthermore, the Town and Cingular have agreed to terms for co-locating on the replacement monopole. Cingular operates under licenses issued by the Federal Communications Commission ("FCC") to provide cellular and PCS mobile telephone service in Hartford County, which includes the area to be served by its proposed installation. Attached to this request are a site location map, a site plan, and the tower profile. As shown on the attached drawings, Cingular proposes to install up to six Powerwave 7770.00 dual band panel antennas, or their equivalent, approximately 55 inches in height at a centerline height of 170 feet above ground level. Cingular also proposes to place an 11½ ft x 20 ft prefabricated concrete equipment shelter at the base of the tower.

Request for an Order Approving Shared Use of the Replacement Monopole

Given that the approved replacement monopole in Burlington will be an uncertificated facility for purposes of the Siting Council, Cingular respectfully requests an order pursuant to Section 16-50aa of the Connecticut General Statutes approving its shared use of the approved tower for the reasons more fully set forth below:

A. **Technical Feasibility.** The approved replacement tower will be structurally sound and capable of supporting the proposed shared use of the Cingular antennas at 170 feet AGL. Likewise, the tower will be built to support the relocated Verizon antennas and the various Town antennas. Cingular will provide a set of tower design drawings to the Council prior to commencement of construction. The proposed shared use of this tower is therefore technically

feasible.

B. **Legal Feasibility.** Under C.G.S §16-50aa, the Council has been authorized to issue an order approving the proposed shared use of an uncertificated tower facility such as the tower located at 719 George Washington Turnpike (C.G.S §16-50aa(c) (1)). Under the authority vested in the Council by C.G.S §16-50aa, an order approving the shared use of the Town's tower would satisfy Cingular's Siting Council obligations and permit it to obtain a building permit for the proposed installation.

C. **Environmental Feasibility.** The proposed shared use of this uncertificated tower facility would have a minimal environmental effect for the following reasons:

1. The proposed installation would have an insignificant incremental visual impact and would not cause any significant change or alteration in the physical or environmental characteristics of the property. The addition of the proposed antennas would not increase the height of the approved monopole tower. Cingular's equipment will be housed in an equipment shelter, and all construction will occur on Town property.

2. The proposed installation would not increase noise levels at the existing facility by six decibels or more.

3. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower is as follows:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit	
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Cingular	170	880-894	6	296	0.0221	0.5867	3.77	
Cingular	170	1930-1935	3	427	0.0159	1.0000	1.59	
Verizon **	160	869	9	200	0.0253	0.5793	4.36	
Verizon **	160	1900	3	200	0.0084	1.0000	0.84	
Public Safety *	144	155.345	1	40	0.0007	0.2000	0.35	
Public Safety *	134	452-458	Receive Only					0.00
Public Safety *	113	33.5	1	100	0.0028	0.2000	1.41	
Public Safety *	106	155-166	6	50	0.0096	0.2000	4.80	
Total							16.19%	

* Power density parameters provided by the Town of Burlington Fire Department.

** Verizon power density parameters (other than height) from EM-VER-008-020-025-108-130-131-050315.

† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the "worst-case" exposure would be approximately 18 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Cumulative power density levels resulting from Cingular's proposed use of the tower would thus be well within applicable ANSI/IEEE standards.

4. The proposed installation would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is completed (approximately four weeks), the proposed installation would not generate any vehicular traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.

D. **Economic Feasibility.** Cingular and the Town have negotiated the terms of an agreement to share use of the tower. The proposed facility sharing is therefore economically feasible.

E. **Public Safety Concerns.** As stated above, the approved tower will be structurally capable of supporting Cingular's proposed antennas, and radio frequency emissions fall well below State and Federal safety standards. Cingular is not aware of any other public safety concerns relative to the proposed sharing of the tower. In fact, the provision of new or improved wireless coverage in the area is expected to enhance the safety and welfare of Burlington's residents.

Conclusion

For the reasons discussed above, the proposed shared use of the approved replacement tower at 719 George Washington Turnpike in the Town of Burlington satisfies the criteria stated in C.G.S. §16-50aa and advances the General Assembly's and the Council's goal of preventing the proliferation of communication towers in Connecticut. Cingular therefore respectfully requests that the Council issue an order approving the proposed shared use. Thank you for your attention to this matter.

Please feel free to call Tim Burks at (860) 513-7219 or Christopher Fisher, Esq. at (914) 761-1300 with questions concerning this tower sharing request. Thank you for your consideration in this matter.

Sincerely,

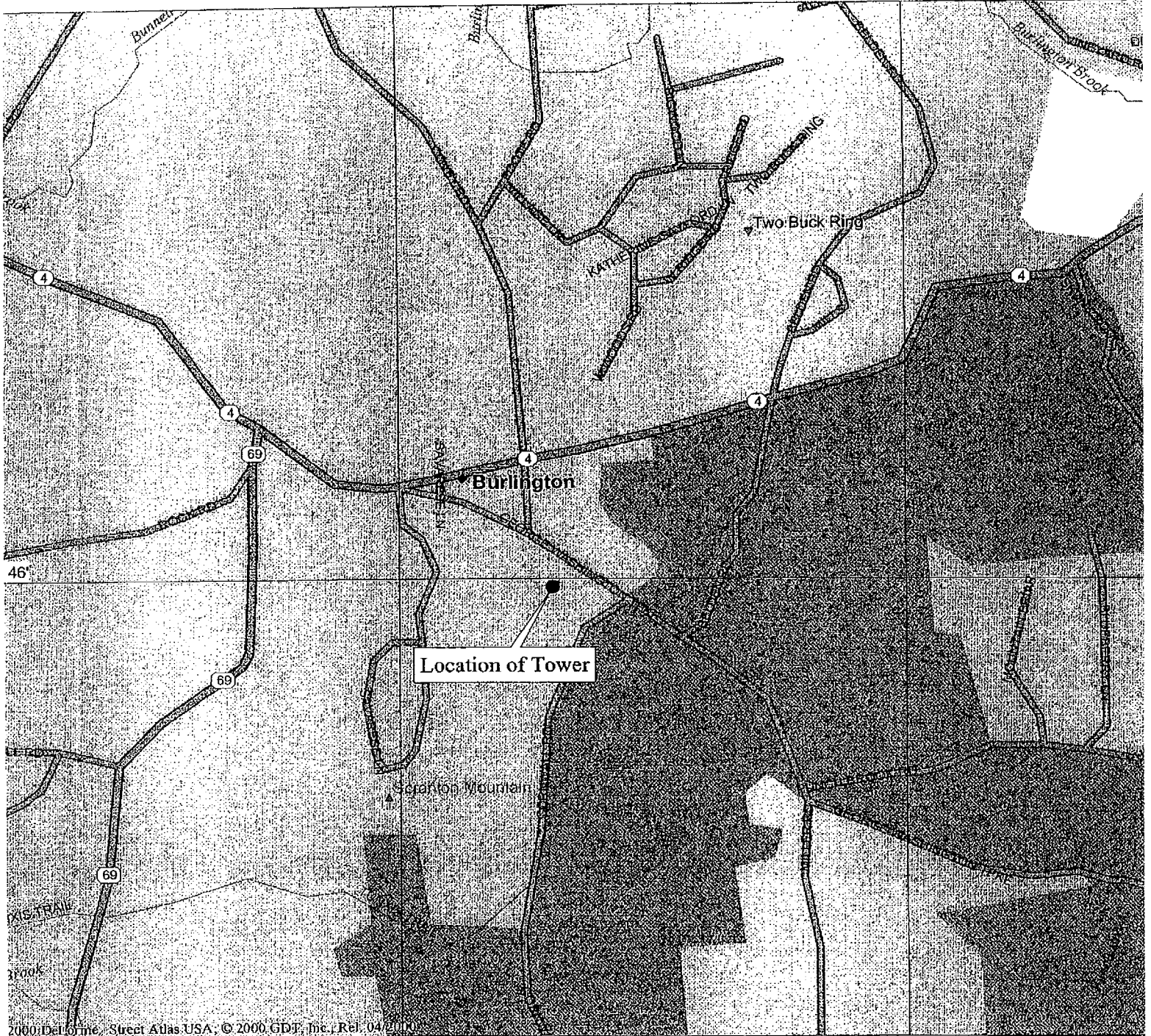


Steven L. Levine
Real Estate Consultant

cc: Honorable Theodore C. Scheidel, Jr., 1st Selectman, Town of Burlington
Michele G. Briggs, Manager of Real Estate
Christopher B. Fisher, Esq.

Enclosures

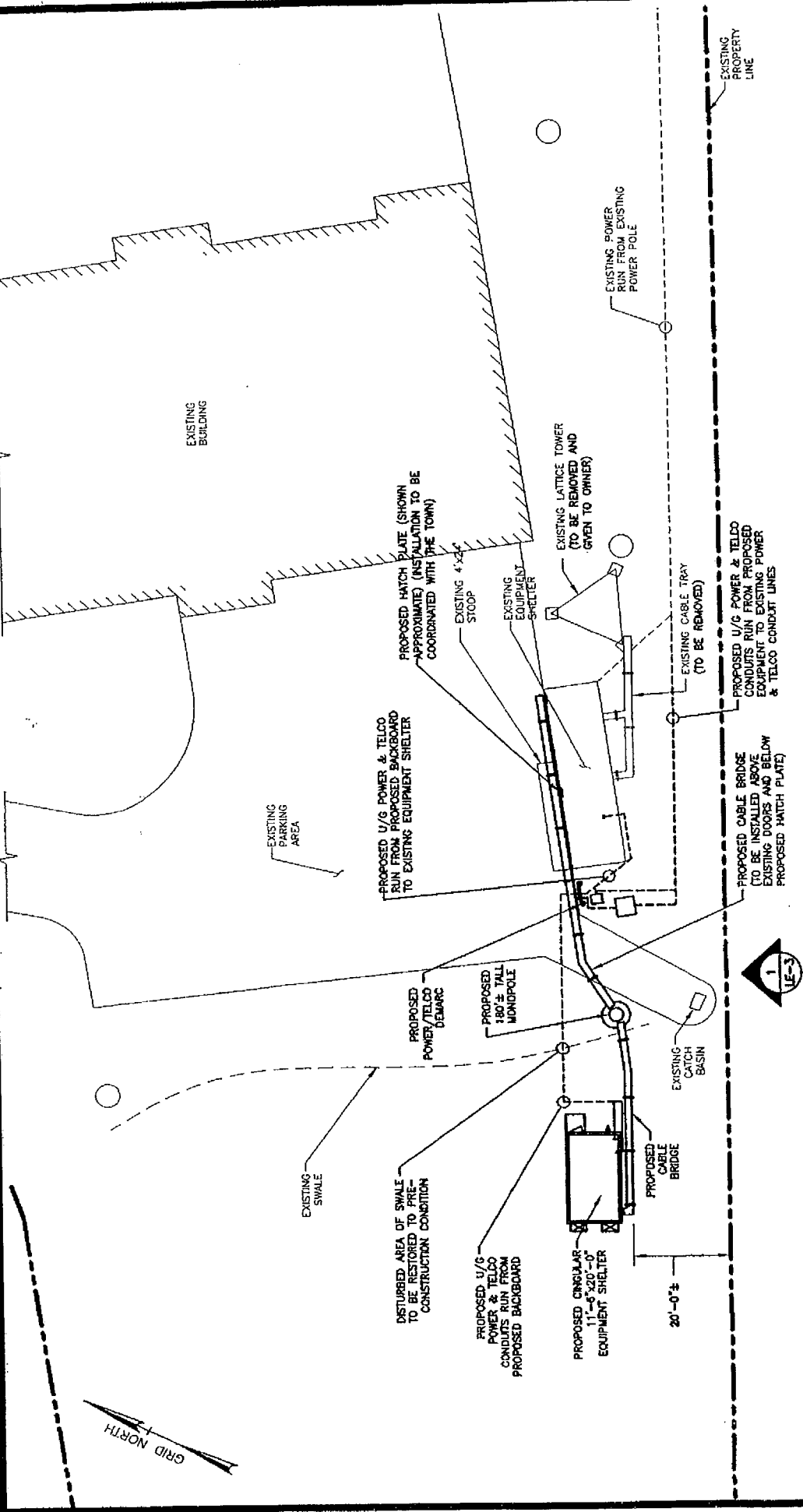
Burlington Fire Department Tower



ag 15.00
 Je Sep 06 14:06 2005
 scale 1:15,625 (at center)
 1000 Feet
 500 Meters

- | | | | |
|--|--------------------|--|-------------------|
| | Local Road | | Cemetery |
| | State Route | | State Park/Forest |
| | Trail | | Woodland |
| | Point of Interest | | River/Canal |
| | Small Town | | |
| | Summit | | |
| | Geographic Feature | | |
| | Locale | | |

C:\3752\17-Burlington FD\CAD\Cell\License\LE-1.dwg By: MJS Xref: Loyer Starter
 Fri, Sep 02, 2005 - 10:48:43am Plot: Inlines

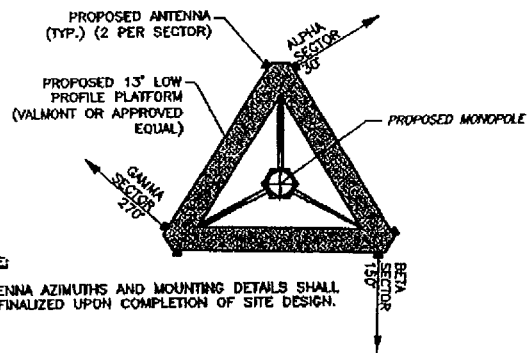


LEASE PLAN
 SCALE: 1/32"=1'-0"
 0' 8' 16' 32'

	LEASING PLAN	SHEET NO. LE1
	SITE NAME BURLINGTON FIRE DEPARTMENT CELL SITE 1123	
Dewberry-Goodkind, Inc. A Dewberry Company 59 Elm Street, Suite 101 New Haven, CT 06510 p. (203) 776-2277 f. (203) 776-2288	AS SHOWN DESIGNED BY: CKD DATE: 09/02/05	

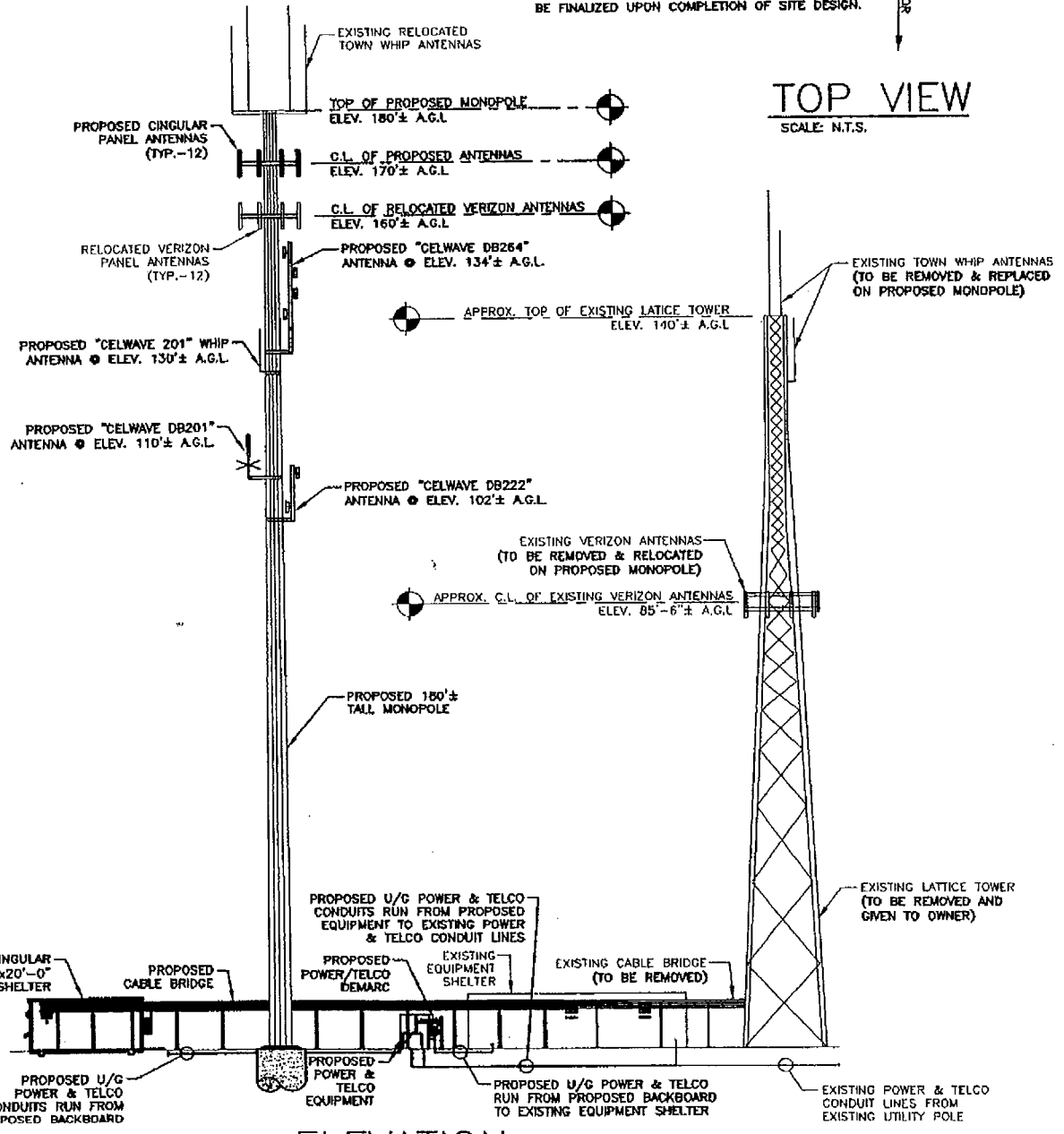
- NOTES:**
- DRAWING IS SCHEMATIC. FINAL EQUIPMENT LOCATIONS, ANTENNA TYPES, AND ANTENNA AZIMUTHS WILL BE FINALIZED UPON COMPLETION OF DESIGN. EXISTING CONDITIONS ARE SHOWN APPROXIMATE.
 - THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN BEUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

Q:\3752\17-Burlington FD\CAD\Cell\Lease\LE-3.dwg Plot msmith By: MJS Xref: Leyer State: Fri, Sep 02, 2005 10:49:27 am



NOTE:
 ANTENNA AZIMUTHS AND MOUNTING DETAILS SHALL BE FINALIZED UPON COMPLETION OF SITE DESIGN.

TOP VIEW
 SCALE: N.T.S.



ELEVATION
 SCALE: 1/32"=1'-0"



Dewberry-Goodkind, Inc.
 A Dewberry Company
 59 Elm Street, Suite 101
 New Haven, CT 06510
 p. (203) 776-2277
 f. (203) 776-2288

Engineers
 Planners
 Surveyors

SCALE:
 AS SHOWN
 DESIGNED BY:
 CKD
 DATE:
 09/02/05

LEASING ELEVATION
 SITE NAME BURLINGTON FIRE DEPARTMENT
 CELL SITE 1123



SHEET NO.
LE3

ORIGINAL

CUDDY & FEDER LLP
90 MAPLE AVENUE
WHITE PLAINS, NEW YORK 10601-5196

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1971-2000

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FISHKILL, NEW YORK 12524
(845) 896-2229
FACSIMILE (845) 896-3672

NORWALK, CONNECTICUT

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WILLIAM S. NULL
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PAMELA B. RICHARDSON (also NJ)
NEIL T. RIMSKY
RUTH E. ROTH
ANDREW P. SCHRIEVER (also MA)
JENNIFER L. VAN TUYL
CHAUNCEY L. WALKER (also CA)

Of Counsel
ANDREW A. GLICKSON (also CT)
KAREN G. GRANIK
ROBERT L. OSAR (also TX)
MARYANN M. PALERMO
ROBERT C. SCHNEIDER

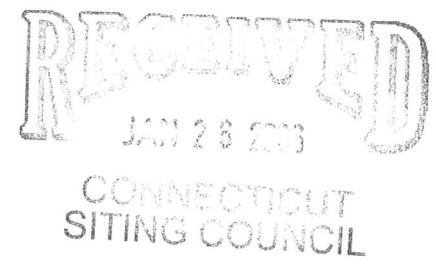
NEIL J. ALEXANDER (also CT)
THOMAS R. BEIRNE (also DC)
STEPHANIE BORTNYK (also NJ)
JOSEPH P. CARLUCCI
LUCIA CHIOCCHIO (also CT)
KENNETH J. DUBROFF
ROBERT FEDER
CHRISTOPHER B. FISHER (also CT)
CINDY M. FOX (also NJ & DC)
ANTHONY B. GIOFFRE III (also CT)
JOSHUA J. GRAUER
KENNETH F. JURIST
MICHAEL L. KATZ (also NJ)
JOSHUA E. KIMERLING (also CT)
DANIEL F. LEARY (also CT)
BARRY E. LONG

January 25, 2006

VIA OVERNIGHT MAIL

Hon. Pamela B. Katz, Chairman
and Members of the Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC
TS-CING-020-050913
Premises: 719 George Washington Turnpike
Burlington, Connecticut



Dear Chairman Katz and Members of the Council:

We are writing on behalf of New Cingular Wireless PCS, LLC ("Cingular") in connection with the above referenced matter to notify the Siting Council of an amendment to the site plan for the proposed replacement tower at the Burlington Fire Department.

On September 28, 2005, the Council approved Cingular's request for an order to share the Town of Burlington Fire Department's replacement communications tower located at 719 George Washington Turnpike. Pursuant to an agreement between the Town of Burlington and the State Department of Health, the replacement tower and Cingular's associated electronic equipment shelter was relocated on the premises. Due to the presence of a well on the Fire Department premises, the replacement tower and equipment shelter was relocated more than 200 feet from the existing well. Amended site plan approval for the relocation of the replacement tower and equipment shelter was issued by the Burlington Planning and Zoning Commission on January 11, 2006.

CUDDY & FEDER LLP

January 25, 2006
Page 2

For the Council's records and information, we are enclosing (25) sets of signed and sealed drawings detailing the amended site plan for the replacement tower and equipment shelter.

Should any Members of the Council or Staff have questions regarding this information, please do not hesitate to contact me.

Very truly yours,


Lucia Chiochio

Enclosure

Cc: Tim Burks, New Cingular Wireless PCS, LLC
Honorable Theodore Schiedel, First Selectman, Town of Burlington
Charles H. Bauer, Esq., Town Attorney



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September 13, 2005



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CONNECTICUT
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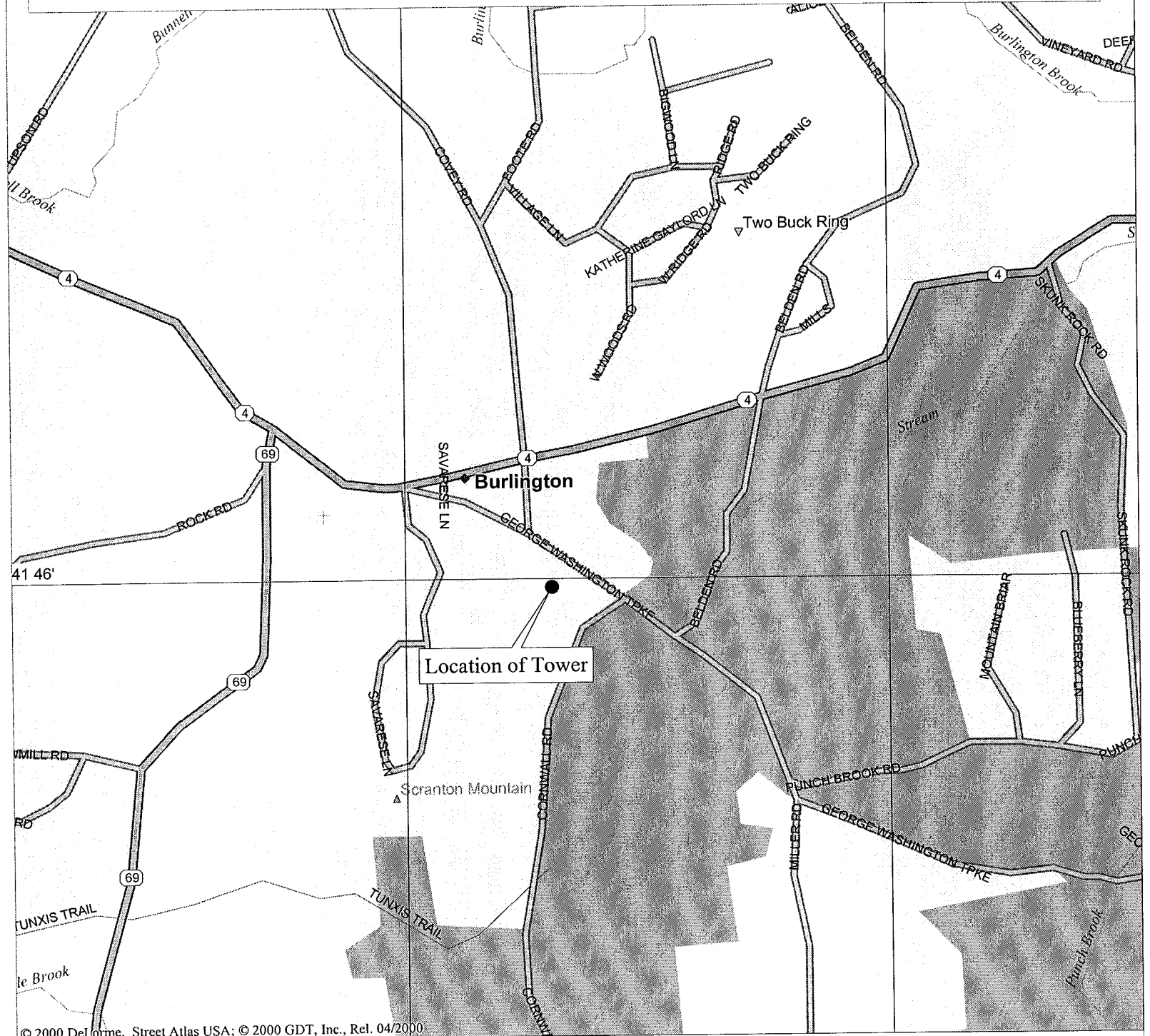


Steven L. Levine
Real Estate Consultant

cc: Honorable Theodore C. Scheidel, Jr., 1st Selectman, Town of Burlington
Michele G. Briggs, Manager of Real Estate
Christopher B. Fisher, Esq.

Enclosures

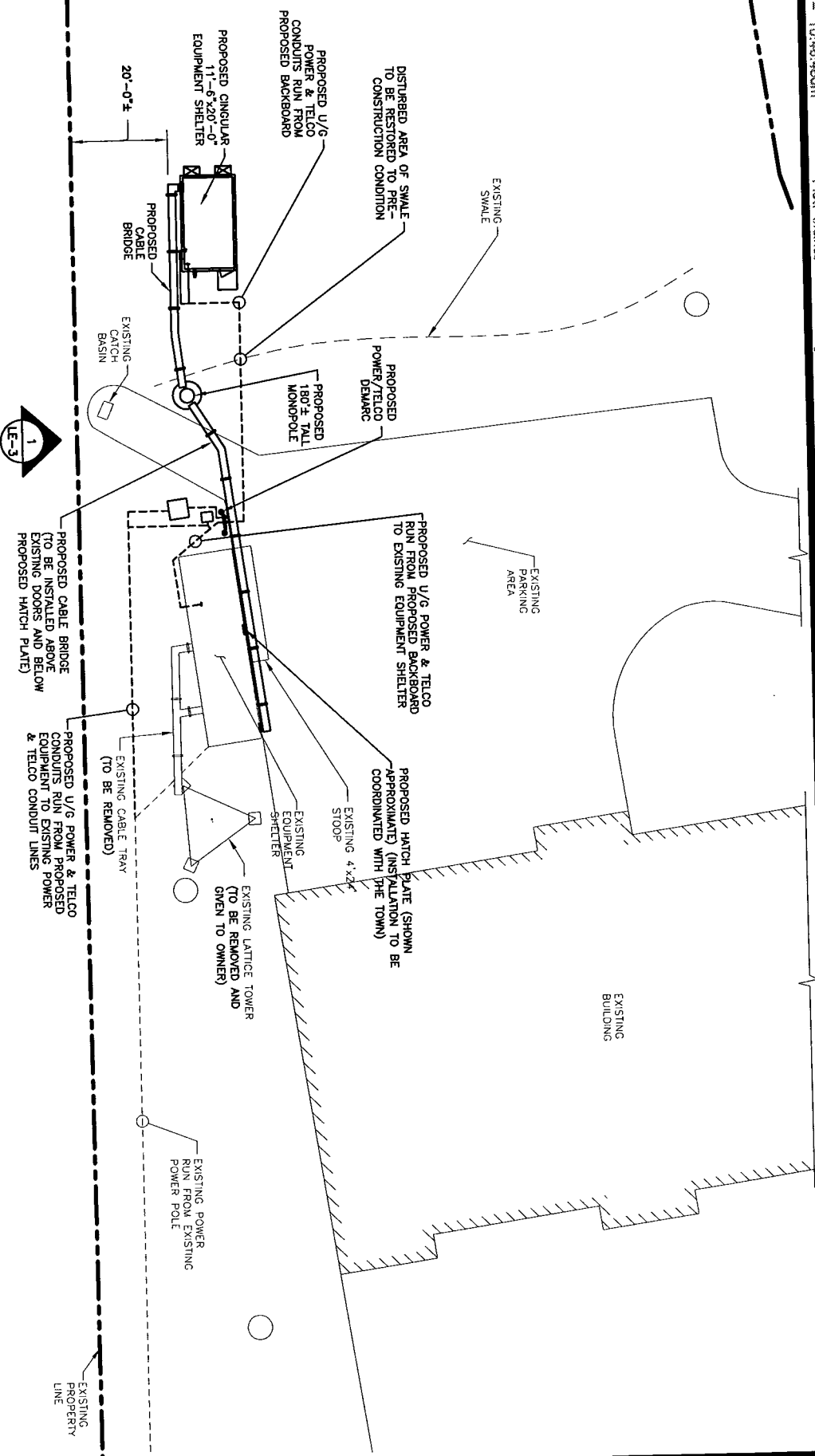
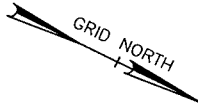
Burlington Fire Department Tower



© 2000 DeLorme, Street Atlas USA; © 2000 GDT, Inc., Rel. 04/2000

Mag 15.00
 Tue Sep 06 14:06 2005
 Scale 1:15,625 (at center)
 1000 Feet
 500 Meters

- Local Road
- State Route
- Trail
- Point of Interest
- Small Town
- Summit
- Geographic Feature
- Locale
- Cemetery
- State Park/Forest
- Woodland
- River/Canal



LEASE PLAN
 SCALE: 1/32"=1'-0"
 0' 8' 16' 32'

- NOTES:**
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 2. THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

Dewberry-Goodkind, Inc.
 A Dewberry Company
 59 Elm Street, Suite 101
 New Haven, CT 06510
 P. (203) 776-2277
 F. (203) 776-2288

Engineers
 Planners
 Surveyors

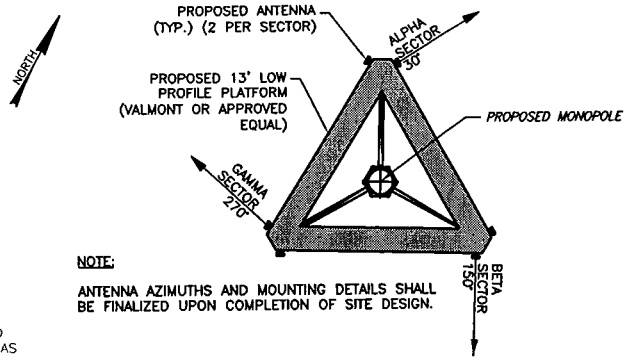
SCALE: AS SHOWN
 DESIGNED BY: CKD
 DATE: 09/02/05

LEASING PLAN
 SITE NAME: BURLINGTON FIRE DEPARTMENT
 CELL SITE 1123

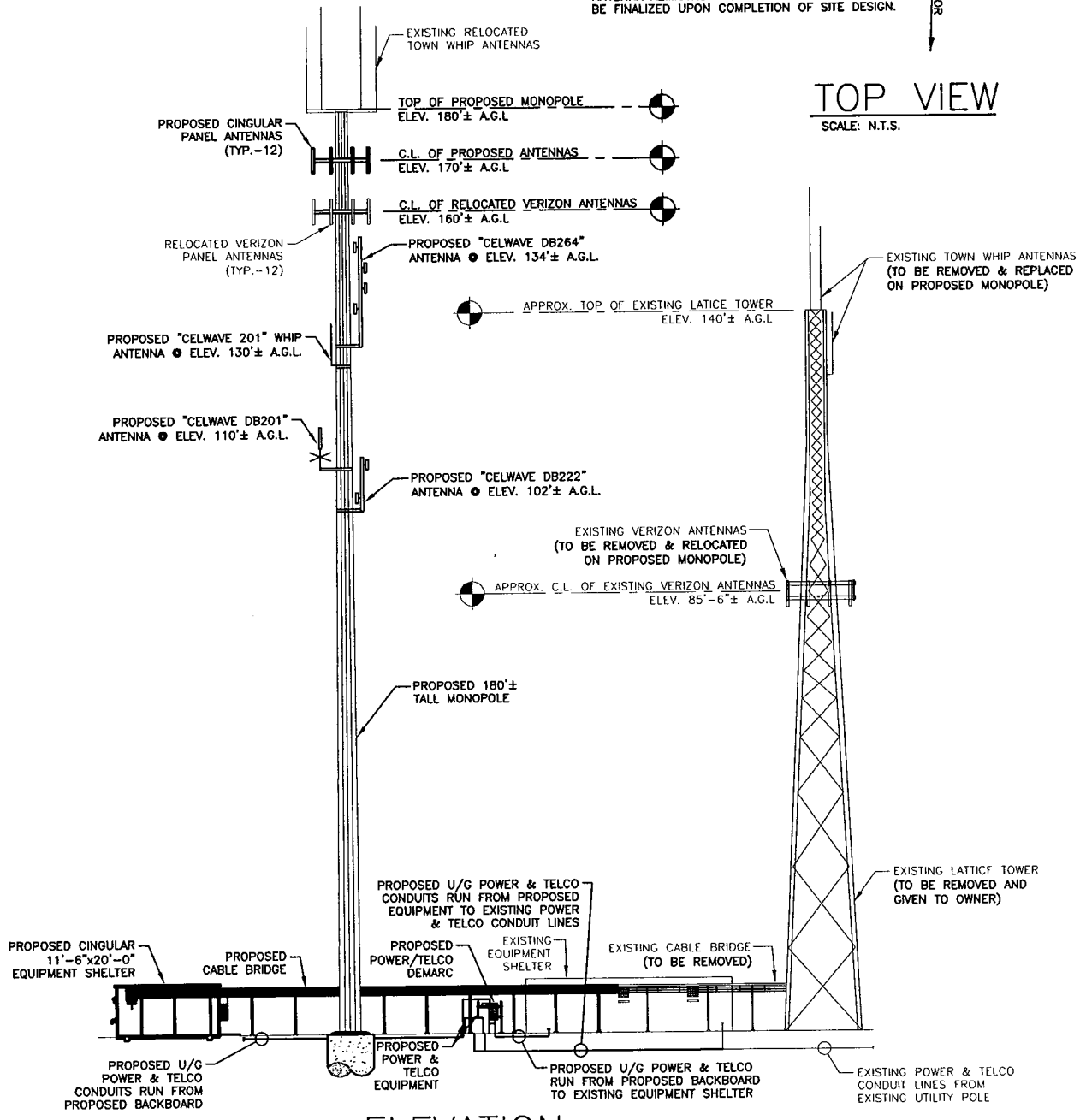


SHEET NO. **LE1**

Q:\3752\17-Burlington FD\CAD\Cel\Lease\LE-3.dwg
 Pn. Sep 02 2005 10:49:27am
 By: MJS
 Layer State:



TOP VIEW
SCALE: N.T.S.



ELEVATION
SCALE: 1/32"=1'-0"
0' 8' 16' 32'

Dewberry-Goodkind, Inc.
A Dewberry Company
59 Elm Street, Suite 101
New Haven, CT 06510
p. (203) 776-2277
f. (203) 776-2288

Engineers
Planners
Surveyors

SCALE:
AS SHOWN
DESIGNED BY:
CKD
DATE:
09/02/05

LEASING ELEVATION
SITE NAME BURLINGTON FIRE DEPARTMENT
CELL SITE 1123



SHEET NO.
LE3



New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

September 13, 2005

Honorable Theodore C. Scheidel, Jr.
First Selectman, Town of Burlington
Town Hall 200 Spielman Highway
Burlington, Connecticut 06013

Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Use of an Approved Fire Department Tower Located at 719 George Washington Turnpike, Burlington, Connecticut.

Dear Mr. Scheidel:

As you know, New Cingular Wireless PCS, LLC ("Cingular") intends to install cellular antennas and equipment on a replacement monopole tower at the Burlington Fire Department on George Washington Turnpike. The replacement tower was recently approved by the Planning & Zoning Commission, will be owned and operated by the Town of Burlington, and Cingular's lease was reviewed and approved by your Board of Selectman.

As was discussed throughout the Town process, Cingular is now finalizing approvals pursuant to Connecticut General Statutes Section 16-50aa and requesting the Connecticut Siting Council to approve its shared use of this approved municipal tower.

If you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Tim Burks
Real Estate Consultant

Enclosures



500 Enterprise Drive
Suite 3A
Rocky Hill, CT 06067

RECEIVED
SEP 27 2005
CONNECTICUT
SITING COUNCIL

Phone: (860) 513-7218
Fax: (860) 513-7190

To: <i>Mike Perrone</i>	From: Tim Burks
Fax: <i>860 827 2950</i>	Pages: <i>6</i> (inc cover sheet)
Phone:	Date: <i>9/12/05</i>
Re:	CC:

Urgent For Review Please Comment Please Reply Please Recycle

*Minutes of P+2 Meeting 8/24/05
@ which the tower replacement was approved.*



Town of Burlington

Selectman's Office
860.673.6789

Accounting Office
860.675.4960

Town Clerk
860.673.2108

Assessor
860.673.3901

Tax Collector
860.673.0717

Building Inspector
860.673.1000

Highway Department
860.673.2439

Parks + Recreation
860.673.7361
fax 860.675.5038

Town Fax
860.675.9312

FAX COVER SHEET

To: Tim Brooks FAX # 860-513-7190

FIRM NAME: _____

FROM: Peggy Lee, Asst. Assessor

RE: Copy of PaZ minutes 8-24-05

DATE: Sept. 27, 2005 NUMBER OF PAGES 5
(including this sheet)

COMMENTS/INSTRUCTIONS: Hi Tim - I have enclosed the copy of the Aug. 24, 2005 minutes w/ vote & also the Notice of Decision that was sent to the Bristol Press & posted on our board at Town Hall.

CALL BACK TO CONFIRM RECEIPT YES NOT NECESSARY

The right to appeal is 15 days from the date of publication in the newspaper. The Notice was faxed to the Bristol Press on 8/25/05.

Hope this is what you needed!

Peggy ☺

received
9-2-05 CMH



Town of Burlington

Selectman's Office
860.673.6789

Accounting Office
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Town Clerk
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Assessor
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Parks + Recreation
860.673.7361
fax 860.675.5038

Town Fax
860.675.9312

BURLINGTON PLANNING & ZONING COMMISSION MINUTES August 24, 2005 REGULAR MEETING

Approved _____
Dated: September 14, 2005

The meeting was called to order at 7:32 p.m. Commissioners present: Vollono, Alden, Dumais, Halpin, Perkins, Fanning, and van Noordennen. Alternate Fabiano was present.

Minutes

Motion to approve the minutes of August 10, 2005 regular meeting as submitted (Fanning/Dumais). **IN FAVOR**, Vollono, Alden, Dumais, Halpin, Fanning, Perkins, van Noordennen.

OPPOSED, none. **ABSTAINED**, none.

Communications

- a. Original letter dated August 19, 2005, from Town Clerk re: Definition of Kennels.
- b. Original letter dated August 9, 2005, from First Selectman re: new cingular wireless PCS, LLC, Application - Replacement Tower - Fire Station Property.
- c. Original letter dated August 9, 2005, from James A. Thompson re: Cingular Wireless, 719 George Washington Turnpike.
- d. Copy of letter dated August 24, 2005, from James A. Thompson re: 1872 Brycorp Inc., 3-Lot Subdivision, Johnnycake Mountain Road.
- e. Copy of letter dated August 24, 2005, from James A. Thompson re: 1871 Brycorp, Inc., Special Permit, Cluster Development.
- f. Copy of letter dated August 23, 2005, to Ms. Lori Matthew, Supervisor Source Water Protection Unit from James A. Thompson re: Burlington Senior Housing Water.
- g. Affidavit of posting, Cingular Wireless PCS LLC notice of public hearing signs.
- h. Copy of IWWC minutes of regular scheduled meeting of Wednesday, August 3, 2005.
- i. Copy of IWWC Agenda of regular meeting of Wednesday, August 17, 2005.
- j. Copy of ZBA Agenda of regular meeting of Tuesday, August 16, 2005.

200 Spielman Highway
Burlington, Connecticut
06013-1735

- k. Copy of letter dated August 19, 2005 from Cuddy & Feder, LLP to commission.
- l. Copy of letter dated August 15, 2005 to James A. Thompson Engineer from State of CT, Dept. of Public Health re: Burlington Senior Housing Water System.
- m. Letter dated August 17, 2005 from CRCOG re: referral Z-2005-79, Town of Avon.
- n. Environmental Management Bulletin, August 8, 2005, No. 05-05.
- o. App. 1873 – The Metropolitan District – MDC, Application for Removal, Filling, Grading and Processing of Earth Products, Northerly Clearbrook Road and North Mill Dam Road submitted by MDC.

Citizen Comment - Nothing.

Pending File – Address under Unfinished Business.

Unfinished Business

- a. Reports/Discussion with the First Selectman. Selectman was present discussion was held with other agenda items.
- b. Reports/Discussion with the Town Attorney: Town Attorney was present; discussion was held with other agenda items.
- c. Review/Discussion with Zoning Enforcement Officer: No report. Signs: Neil Beup with EDC contacted Vollono, Beup will try to be present at the next regular scheduled meeting to discuss how to proceed with sign regulations.
- d. Discussion matter with BVFD: the process for adopting Fire Pond Regulations will be started. The consensus of the commission was to send proposed regulations to local agencies and tentatively set a public hearing at the regular meeting of October 12, 2005.
- e. Release Maintenance Bond, Cedar Springs, Section 5: The First Selectman addressed the commission.
A motion was made by Perkins and seconded by Alden to release the performance bond of \$157,000.00 for Cedar Spring, Section 5. IN FAVOR, Vollono, Perkins, Dumais, Halpin, Fanning, van Noordennen and Alternate Fabiano. ABSTAINED – None. OPPOSED – None.
- f. App. No. 1871 – Brycorp, Inc. (8/10/05) Application for Special Permit Use, Johnnycake Mountain Road, submitted by Brycorp, Inc.
- g. App. No. 1872 – Brycorp, Inc. (8/10/05) Application for Subdivision 3-Lots, Johnnycake Mew – Johnnycake Mountain Road, submitted by Brycorp, Inc. Jerry Bryant addressed the commission on items f. and g. together. Active Adult Community is being proposed. The applicant is before the IWWC.

A ten-minute recess was taken. Alternate Fabiano left the meeting at 8:47 p.m.

A motion was made by Perkins and seconded by Alden to close the regular meeting and open the public hearing at 8:48 p.m. IN FAVOR, all.

App. No. 1870 – Cingular Wireless (7/27/05) Application for Special Permit -- Replacement of existing communications tower, 719 George Washington Turnpike, submitted by Cingular Wireless: Attorney Christopher Fisher, address the commission for this application. Christopher K. Daddi, PE and Fire Department personnel were also present to answer questions.

A motion was made by Perkins and seconded by Halpin to close the public hearing and reopen the regular meeting. IN FAVOR, all.

A motion was made by Alden and seconded by Dumais to approve Application No. 1870, for Modification of Site Plan submitted by The Town of Burlington subject to the following conditions:

That the Applicant secure all necessary permits from the Department of Health; and

That a risk assessment of the property be performed by the Town or its insurer to determine if any fencing around the Tower or the Site is required.

IN FAVOR, Vollono, Alden, Dumais, Halpin, Fanning, Perkins and van Noordennen. ABSTAINED – None. OPPOSED – None.

A motion was made by Alden and seconded by Dumais to approve Application No. 1870 for Modification of Site Plan submitted by the Town of Burlington pursuant to Connecticut General Statutes Section 8-24.

IN FAVOR, Vollono, Alden, Dumais, Halpin, Fanning, Perkins and van Noordennen. ABSTAINED – None. OPPOSED – None.

New Business

- A. Task List of Modifying Zoning Regulations and Subdivision Regulations: The Subcommittee report was distributed. Item 1.-Political Sign Regulations – Section 7 – Temporary Signs will be forwarded to area planning agencies. A public hearing has been tentatively set for October 12, 2005. Item 5-Adult Entertainment Ordinance - A letter will be sent to the BOS requesting to be adopted as a municipal ordinance rather than a Zoning Regulation.
- B. Discussion of Telecommunication Tower Regulations modifications – no discussion.
- C. The commission received one new application. MDC the applicant has requested a public hearing be scheduled for the next regular scheduled meeting of September 14, 2005.

A motion was made to adjourn at 10:02 p.m. (Perkins/Dumais).

received
8-25-05 cmu



Town of Burlington

VIA FACSIMILE NO. (860) 584-2192

Selectman's Office
860.673.6789

Accounting Office
860.675.4960

Town Clerk
860.673.2108

Assessor
860.673.3901

Tax Collector
860.673.0717

Building Inspector
860.673.1000

Highway Department
860.673.2439

Parks + Recreation
860.673.7361
fax 860.675.5038

Town Fax
860.675.9312

Bristol Press
Classified Department
99 Main Street
Bristol, CT 06010

To Whom It May Concern:

Please publish the following legal notice once upon receipt. Thank you.

NOTICE OF VOTES/NOTICE OF DECISIONS

The Burlington Planning & Zoning Commission made the following decisions at the meeting of August ~~25~~₂₄, 2005:

A motion was made by Alden and seconded by Dumais to approve Application No. 1870, for Modification of Site Plan submitted by The Town of Burlington subject to the following conditions:

That the Applicant secure all necessary permits from the Department of Health; and

That a risk assessment of the property be performed by the Town or its insurer to determine if any fencing around the Tower or the Site is required.

IN FAVOR, Vollono, Alden, Dumais, Halpin, Fanning, Perkins and van Noordennen. ABSTAINED – None. OPPOSED – None.

A motion was made by Alden and seconded by Dumais to approve Application No. 1870 for Modification of Site Plan submitted by the Town of Burlington pursuant to Connecticut General Statutes Section 8-24.

IN FAVOR, Vollono, Alden, Fanning, Dumais, Perkins, Halpin and van Noordennen. ABSTAINED – None. OPPOSED – None.

The Burlington Planning and Zoning Commission, by Michael Vollono, Chairman, dated this 25th day of August, 2005.

200 Spielman Highway
Burlington, Connecticut
06013-1735

Cc: Town Clerk
File No. 1870



ENGINEERED ENDEAVORS INCORPORATED

RECEIVED
SEP 21 2005
CONNECTICUT
SITING COUNCIL

**Dewberry
Structure & Foundation
Design Calculations
180' Pole
Site: Burlington Fire Department
EEI Job #: 13628-E01**

MATERIAL REQ'D. PER ASSEMBLY

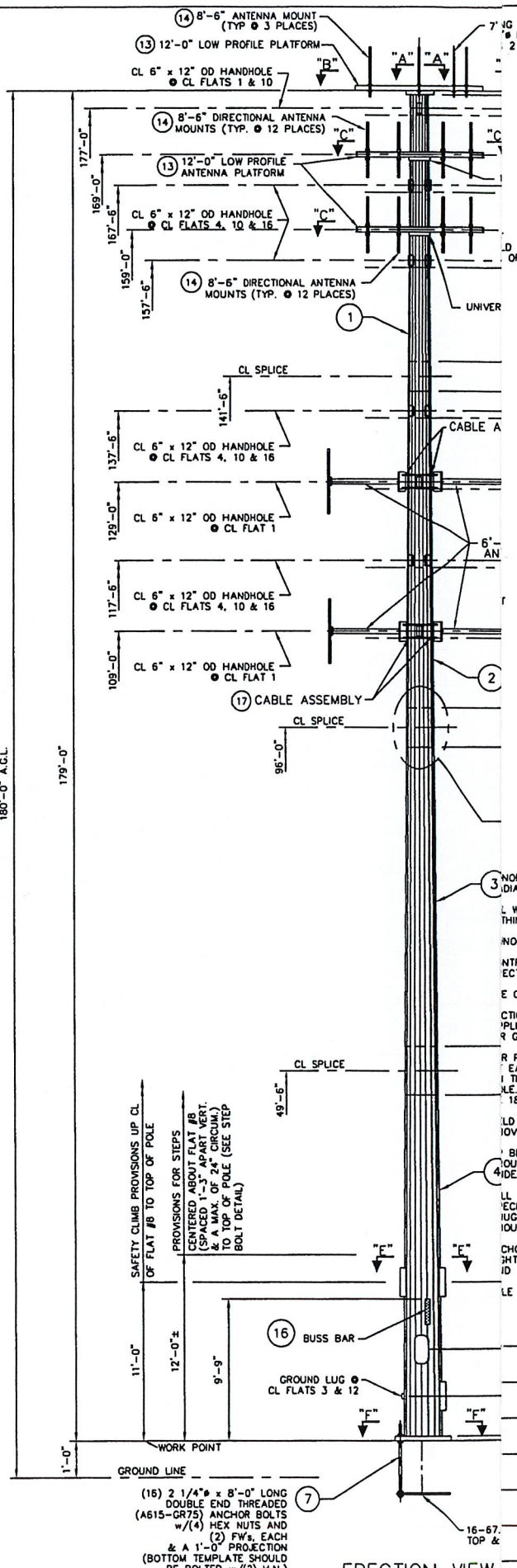
GALV. WT.	QTY.	ITEM	MK. NO.	DESCRIPTION
--	1	(1)	---	SHAFT ASSY. (TOP) 39.46' LG.
--	1	(2)	---	SHAFT ASSY. (UP. MID.) 51.59' LG.
--	1	(3)	---	SHAFT ASSY. (LOW MID.) 51.89' LG.
--	1	(4)	---	SHAFT ASSY. (BOTTOM) 51.77' LG.
31.41	5	(5)	K11497	10" x 30" ACCESS PORT COVER PL
		(6)		HARDWARE AS FOLLOWS:
6.87	16	(6)	K11097	6" x 12" HANDHOLE COVER PL
129.50	16	(7)	2.25-AB80DE-4	2 1/4" x 8'-0" LG. (A615-CR75) ANCHOR BOLTS w/ (4) HEX NUTS (A194-GR2H) & (2) FWs, EACH
1.08	--	(8)	S10006	5/8" x 6 1/2" LG. BUTTON HEAD STEP BOLT w/ (1) HEX & (1) SQUARE NUT EACH
	1	(9)		STRUCTURE ASSEMBLY AND ERECTION PROCEDURES
	1	(10)	DBI-180	180'-0" SAFETY CLIMB KIT
	1	(10)	L2010	SAFETY CLIMB HARNESS
126.77	2	(11)	16-67.00-2.25	SETTING TEMPLATE
1.50	18	(12)	GS13625	5/8" KELLUMS HOOK ASSY.
1098.42	3	(13)	K10994A	12'-0" LOW PROFILE ANTENNA PLATFORM
40.91	27	(14)	K11014	8'-6" LOW PROFILE DIRECTIONAL ANTENNA MOUNTS
292.32	1	(15)	K11128	CENTER HUB KIT
7.50	1	(16)	K10062	BUSS BAR KIT
231.03	2	(17)	K10461	UNIVERSAL BRACKET (10" - 25")
28.60	1	(18)	K10333	7' LIGHTNING ROD
77.08	4	(19)	WA11850	6'-0" ANTENNA SIDE ARM
9.55	8	(20)	K10843	FIELD FIT CABLE ASSEMBLY

TOTAL GALV. STR. & ACCES. WT. # _____
 TOTAL ANCHOR BOLT & TEMPLATE WT. 2325.56#

GENERAL NOTES

- MONOPOLE IS DESIGNED IN ACCORDANCE WITH TIA/EIA-222F FOR 80 MPH FASTEST MILE WIND SPEED AND 1/2" DIAL ICE (NON-CONCURRENTLY). DESIGNED WITH AN INITIAL FAILURE POINT AT 97' AGL.
- WELDS SHALL BE IN ACCORDANCE WITH AWS D.1.1. (LATEST EDITION). LONGITUDINAL SEAM WELDS THIN SLIP-JOINT AREA IN FEMALE SECTION SHALL BE 100% PENETRATION.
- MONOPOLE SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- CONTRACTOR SHALL THOROUGHLY REVIEW EEI'S ASSEMBLY & ERECTION PROCEDURE PRIOR TO INITIATING THE ERECTION OF THE MONOPOLE.
- ORIENTATION OF THE MONOPOLE SHALL BE VERIFIED PRIOR TO ERECTION OF THE POLE.
- SECTIONS OF THE MONOPOLE SHALL BE JACKED TOGETHER WITH A MINIMUM JACKING FORCE OF 10,000 lbf APPLIED TO EACH SIDE. FOR A MAXIMUM RECOMMENDED JACKING FORCE, SPLICE LENGTH TOLERANCE, AND GAP BETWEEN SECTIONS REFER TO EEI ASSEMBLY & ERECTION PROCEDURE.
- FOR PROPER SHAFT ALIGNMENT A 2" HORIZONTAL WELD BEAD AND A MARK ARE POSITIONED ON EACH SHAFT AT EACH SPLICE. THE 2" HORIZONTAL WELD BEADS ARE ON THE MATCHING CORNERS. THE MARK NUMBER IS IN THE ADJACENT FLAT. THE CORNERS WITH WELD BEADS SHALL BE ALIGNED FROM TOP TO BOTTOM OF THE POLE. MARK NUMBERS SHALL BE MATCHED FOR EACH SIDE & THE DISTANCE BETWEEN TWO WELD BEADS SHOULD BE 18" (±4").
- FIELD ASSEMBLY NUTS (1") FOR JACKING SECTIONS TOGETHER ARE LOCATED ON OPPOSING SECTION FLATS ABOVE AND BELOW SPLICES.
- SPACE BETWEEN TOP OF THE FOUNDATION AND BOTTOM OF THE BASE PLATE MAY BE FILLED WITH A NON-SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF F=2000 psi. WATER DRAINAGE MUST BE PROVIDED UNDERNEATH THE BASE PLATE TO ENSURE THAT MOISTURE DOES NOT COLLECT INSIDE THE MONOPOLE.
- ALL BOLTED CONNECTIONS WITH A325 HIGH-STRENGTH BOLTS SHALL BE ASSEMBLED IN ACCORDANCE WITH SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS. BOLTS SHALL BE BROUGHT TO TIGHT-TIGHT CONDITIONS AS RECOMMENDED BY THE FLANGE SPECIFICATIONS IN FLANGE-TYPE JOINTS AND SHOULD BE SHIMMED IF NECESSARY. THE SHIMS WILL BE SUPPLIED BY EEI.
- ANCHOR BOLTS SHALL BE TIGHTENED AFTER THE STRUCTURE IS PLUMB. BOTH TOP & BOTTOM NUT SHALL BE TIGHTENED TO 600 ft-lbs MOMENT. FOR DETAIL ANCHOR BOLT INSTALLATION REFER TO EEI ASSEMBLY & ERECTION PROCEDURE.
- POLE TAPER = 0.2329in/1ft.

EEI WILL NOT HONOR ANY BACKCHARGES WHICH HAVE NOT RECEIVED PRIOR WRITTEN AUTHORIZATION phone (440) 918-1101



NOTE: ALL ELEVATIONS SHOWN FROM BOTTOM OF BASE PLATE UNLESS OTHERWISE NOTED.

ERECTION VIEW

SCALE NONE

APPROVAL DWG 9/8/2005 J.A.M.
 DESCRIPTION DATE OWN APP.



7610 Jenther Drive • Mentor, OH 44060-4872
 Ph: (440) 918-1101 • Ph: (888) 270-3855
 Fx: (440) 918-1108 • www.engend.com

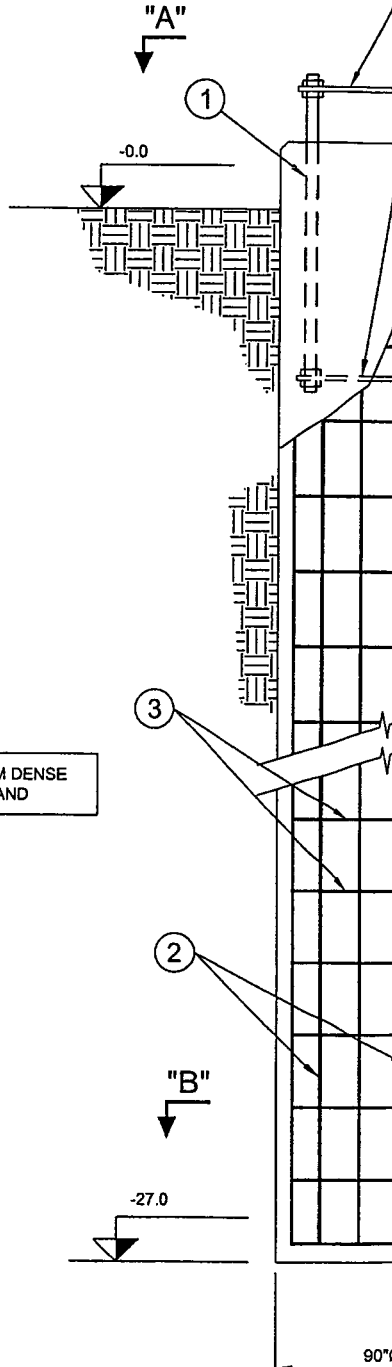
180'-0" MONOPOLE
 DEWBERRY
 BURLINGTON FIRE DEPARTMENT
 HARTFORD COUNTY, CT

SCALE NONE PROJECT NO. 13628
 SHEET 1 OF 1 DRAWING NO. GS55931

MATERIAL LIST

DESCRIPTION	
2 1/4"Ø x 8'-0" (A615-GR.75) ANCHOR BOLTS	
#11 REBAR x 27'-6" (ASTM A615-GR.60)	
#5 REBAR x 23'-6" (ASTM A615-GR.60)	

VOL. CONCRETE @ 4000 psi (TYPE II CEMENT)	46 yd ³
STEEL (ASTM A615-GR.60)	4240 lbs



GENERAL NOTES:

FOLLOWING: EEI JOB# 13628, DRAWING# GS55931
PE, PC, REPORT DATED 08/19/05

FROM THE GROUND LEVEL AT THE TIME OF SOIL INVESTIGATION
WOULD THE ACTUAL SOIL CONDITIONS DIFFER FROM THOSE
ENGINEER AND FOUNDATION DESIGNER SHOULD BE NOTIFIED
FOUNDATION DESIGN.

PRIOR TO CONSTRUCTION. STEEL CASING OR SLURRY METHOD
FROM CAVING DURING CONSTRUCTION. THE CASING SHOULD BE
CRETING OR, IF LEFT IN THE GROUND, ALL VOIDS AROUND THE
RIZED GROUT. THE CONTRACTOR IS SOLELY RESPONSIBLE
ODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.

SPECTED PRIOR TO PLACEMENT OF REINFORCEMENT AND

ENT, ANCHOR BOLT INSTALLATION, AND CONCRETE IS
REINFORCEMENT AND ANCHOR BOLTS SHALL

TO ASTM A615-87, Fy=60 ksi. REINFORCEMENT SHALL BE
VG IS NOT PERMITTED. MINIMUM SPLICE LENGTH: FOR
R No. 7 BARS AND LARGER - 55 x Øbar.
D WITH NO MORE THAN 50% OF SPLICES IN ONE PLACE.

CTION PROCEDURE SHALL BE IN COMPLIANCE WITH
ICABLE STATE AND LOCAL CODES.

4000 psi AT 28 DAYS. USE TYPE II CEMENT UNLESS

MP OF 7" (±1") FOR DRILLED PIER AND 3" (±1")

RETE OVER THE ENTIRE LENGTH OF ANCHOR BOLTS SHALL
S ALL CONCRETE SHALL BE VIBRATED.

PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHOULD
E DRAWING FOR PROPER ACCESS PORT ORIENTATION.



**ENGINEERED
ENDEAVORS
INCORPORATED**

The Experienced Point of View

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Fx: (440) 918-1108 • www.engend.com

**DEWBERRY
180'-0" MONOPOLE
BURLINGTON FIRE DEPARTMENT
HARTFORD COUNTY, CT**

J.P.	
N.U.	
DWN	CHK

SCALE: <u>N.T.S.</u>	PROJECT NO.	13628
SHEET 1 of 1	DRAWING NO.	D13628-180.1



ENGINEERED ENDEAVORS INCORPORATED
The Experienced Point of View

Customer: DEWBERRY
Description: 180' MONOPOLE
EEI Job Number: 13628

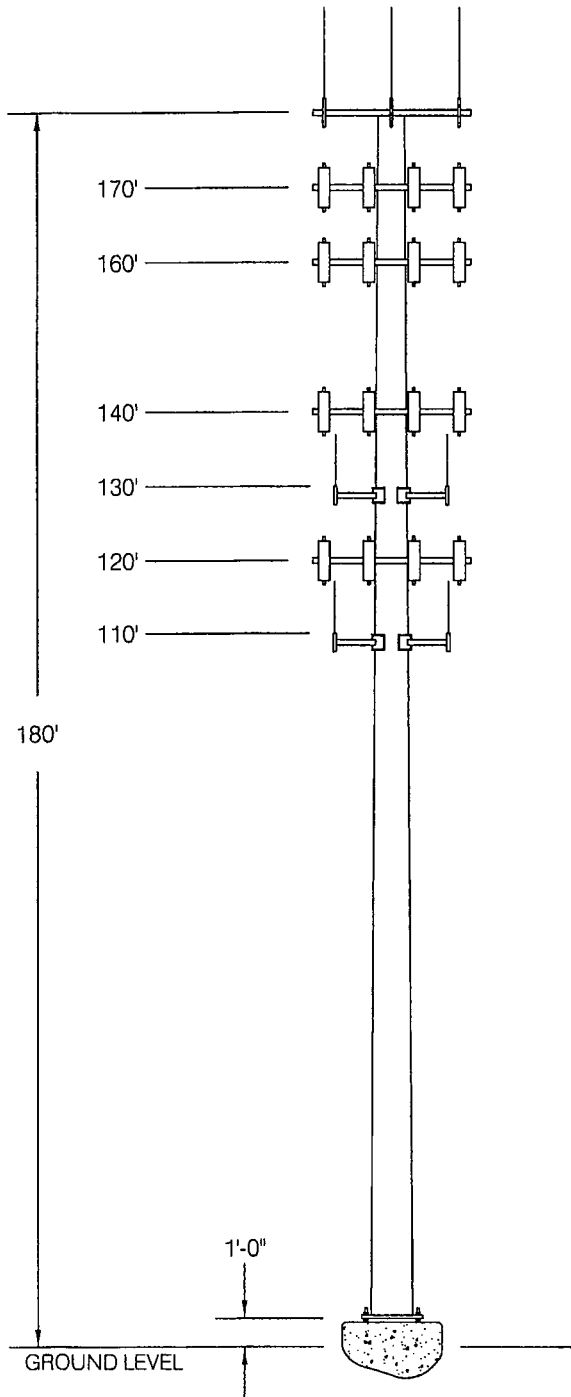


SITE INFORMATION

Location: HARTFORD COUNTY, CT
Site Name: BURLINGTON FIRE DEPARTMENT
Site Number: N/A

DESIGN INFORMATION

Designed By: JAY PARR
Design Date: 9/13/2005
Status: REVISION 1



ANTENNA LOADING

- (3) PD220 OMNI ANTENNAS MOUNTED ON A 12 ft LOW PROFILE PLATFORM AT 180'
- (12) AP14/17-880/1940/065D PANEL ANTENNAS MOUNTED ON A 12 ft LOW PROFILE PLATFORM AT 170'
- (12) AP14/17-880/1940/065D PANEL ANTENNAS MOUNTED ON A 12 ft LOW PROFILE PLATFORM AT 160'
- (12) AP14/17-880/1940/065D PANEL ANTENNAS MOUNTED ON A 12 ft LOW PROFILE PLATFORM AT 140'
- (1) 201 OMNI ANTENNA AND (1) DB264 OMNI ANTENNA MOUNTED ON (2) CABLE-ON SIDE ARMS AT 130'
- (12) AP14/17-880/1940/065D PANEL ANTENNAS MOUNTED ON A 12 ft LOW PROFILE PLATFORM AT 120'
- (1) 201 OMNI ANTENNA AND (1) DB222 OMNI ANTENNA MOUNTED ON (2) CABLE-ON SIDE ARMS AT 110'

DESIGN CRITERIA

DESIGNED IN ACCORDANCE WITH THE TIA/EIA 222-F FOR 80 MPH FASTEST MILE WIND SPEED AND 1/2" RADIAL ICE (NON-SIMULTANEOUS)

DESIGNED WITH AN INITIAL FAILURE POINT AT 97' AGL



Michael R. Moret

ENGINEERED ENDEAVORS, INC.

7610 Jenther Drive • Mentor, Ohio 44060-4872
Phone: (440) 918-1101 • Phone: (888) 270-3855
Fax: (440) 918-1108 • www.engend.com

APPURTENANCES

DESCRIPTION	NUM.	ELEV.	Kz	< WITHOUT ICE >			< WITH ICE >			FACTOR
				AREA	WGT	Ca	AREA	WGT	Ca	
PD 220	3	179.	1.621	1.98	23.	1.8000	2.97	45.	1.8000	1.00
12' LOW PROFILE PLAT	1	179.	1.621	7.50	1500.	2.0000	9.20	1750.	2.0000	1.00
AP14/17-880/1940/065	12	169.	1.595	3.68	33.	1.4000	4.12	62.	1.4000	0.92
12' LOW PROFILE PLAT	1	169.	1.595	7.50	1500.	2.0000	9.20	1750.	2.0000	1.00
AP14/17-880/1940/065	12	159.	1.567	3.68	33.	1.4000	4.12	62.	1.4000	0.92
12' LOW PROFILE PLAT	1	159.	1.567	7.50	1500.	2.0000	9.20	1750.	2.0000	1.00
AP14/17-880/1940/065	12	139.	1.508	3.68	33.	1.4000	4.12	62.	1.4000	0.92
12' LOW PROFILE PLAT	1	139.	1.508	7.50	1500.	2.0000	9.20	1750.	2.0000	1.00
201	1	129.	1.476	2.50	25.	1.8000	3.50	40.	1.8000	1.00
DB 264	1	129.	1.476	3.50	66.	1.8000	4.70	100.	1.8000	1.00
6' ARM (4" SQ. X 1/4	2	129.	1.476	2.00	80.	2.0000	2.50	160.	2.0000	1.00
AP14/17-880/1940/065	12	119.	1.443	3.68	33.	1.4000	4.12	62.	1.4000	0.92
12' LOW PROFILE PLAT	1	119.	1.443	7.50	1500.	2.0000	9.20	1750.	2.0000	1.00
201	1	109.	1.407	2.50	25.	1.8000	3.50	40.	1.8000	1.00
DB 222	1	109.	1.407	1.60	16.	1.8000	3.50	40.	1.8000	1.00
6' ARM (4" SQ. X 1/4	2	109.	1.407	2.00	80.	2.0000	2.50	160.	2.0000	1.00

LOAD CASE 1

BASIC LOADING

ELEV FT	TUBE PROPERTIES		MEMBER FORCES			STRESSES			STRESS RATIOS	TOTAL	
	DIAM IN	WALL IN	SHEAR K	BENDING K-FT	AXIAL K	AXIAL KSI	BEND. KSI	ALLOW KSI		DEFL IN	TILT DEG
179.00	19.50	0.1875	1.58	0.00	1.60	0.14	0.00	50.23	0.00	134.0	6.69
169.00	21.66	0.1875	1.58	15.67	1.60	0.13	2.79	48.85	0.06	120.2	6.65
159.00	23.83	0.1875	5.47	69.96	3.50	0.25	10.28	47.72	0.22	106.6	6.52
149.50	25.89	0.1875	9.31	157.90	5.46	0.36	19.62	46.82	0.43	94.0	6.25
141.50	27.62	0.1875	9.81	235.90	5.91	0.37	25.72	46.16	0.56	83.9	5.94
TYPE OF JOINT: SLIP JOINT											
141.50	27.12	0.2500	10.18	235.84	6.51	0.31	20.15	49.66	0.41	83.9	5.94
139.00	27.66	0.2500	10.18	261.15	6.51	0.30	21.44	49.40	0.44	80.8	5.85
129.00	29.82	0.2500	13.71	397.58	8.58	0.37	28.01	48.46	0.58	69.1	5.45
119.00	31.99	0.2500	15.11	548.02	9.60	0.39	33.51	47.64	0.71	58.2	4.99
109.00	34.15	0.2500	18.75	734.86	12.17	0.46	39.36	46.93	0.85	48.3	4.48
96.00	36.97	0.2500	20.07	995.09	13.53	0.47	45.41	46.13	0.99	37.1	3.77
TYPE OF JOINT: SLIP JOINT											
96.00	36.34	0.3750	20.97	995.10	16.08	0.38	31.66	51.25	0.63	37.1	3.77
82.50	39.27	0.3750	20.97	1277.64	16.08	0.35	34.75	50.14	0.70	27.3	3.22
71.50	41.65	0.3750	21.78	1516.95	18.12	0.37	36.61	49.35	0.75	20.4	2.77
60.50	44.03	0.3750	22.51	1764.27	20.09	0.39	38.04	48.65	0.79	14.5	2.33
49.50	46.41	0.3750	23.22	2019.51	22.17	0.41	39.14	48.02	0.82	9.6	1.89
TYPE OF JOINT: SLIP JOINT											
49.50	45.53	0.3750	24.00	2019.49	26.44	0.50	40.68	48.25	0.85	9.6	1.89
36.00	48.46	0.3750	24.00	2343.37	26.44	0.47	41.62	47.53	0.88	5.0	1.35
24.00	51.05	0.3750	24.69	2639.64	28.89	0.48	42.18	46.97	0.91	2.2	0.88
12.00	53.65	0.3750	25.33	2943.63	31.34	0.50	42.55	46.45	0.92	0.6	0.43
0.00	56.25	0.3750	26.44	3255.50	35.24	0.54	42.77	45.99	0.94	0.0	0.00

REACTION COMPONENTS (KIPS AND FT-KIPS)						
TRANSVERSE SHEAR	VERTICAL FORCE	WIND SHEAR	MOMENT ABOUT TRANSVERSE	MOMENT ABOUT VERTICAL	MOMENT ABOUT WIND AXIS	MOMENT ABOUT WIND AXIS
0.000	35.235	-26.444	3255.500	0.000	0.000	0.000

LOAD CASE 2

BASIC LOADING WITH ICE

TUBE PROPERTIES			MEMBER FORCES			STRESSES			STRESS	TOTAL	
ELEV	DIAM	WALL	SHEAR	BENDING	AXIAL	AXIAL	BEND.	ALLOW	RATIOS	DEFL	TILT
FT	IN	IN	K	K-FT	K	KSI	KSI	KSI		IN	DEG
179.00	19.50	0.1875	1.54	0.00	1.94	0.17	0.00	50.23	0.00	117.0	5.87
169.00	21.66	0.1875	1.54	15.36	1.94	0.15	2.74	48.85	0.06	104.9	5.84
159.00	23.83	0.1875	4.91	64.24	4.55	0.33	9.44	47.72	0.20	92.9	5.71
149.50	25.89	0.1875	8.23	142.07	7.21	0.48	17.66	46.82	0.39	81.8	5.47
141.50	27.62	0.1875	8.61	210.68	7.66	0.47	22.97	46.16	0.51	73.0	5.19
TYPE OF JOINT: SLIP JOINT											
141.50	27.12	0.2500	8.92	210.62	8.26	0.39	18.00	49.66	0.37	73.0	5.19
139.00	27.66	0.2500	8.92	232.82	8.26	0.38	19.11	49.40	0.39	70.3	5.11
129.00	29.82	0.2500	11.96	351.98	11.00	0.47	24.80	48.46	0.52	60.0	4.75
119.00	31.99	0.2500	13.21	483.69	12.23	0.49	29.57	47.64	0.63	50.5	4.35
109.00	34.15	0.2500	16.31	646.33	15.46	0.58	34.62	46.93	0.75	41.9	3.90
96.00	36.97	0.2500	17.50	873.40	16.98	0.59	39.86	46.13	0.87	32.1	3.27
TYPE OF JOINT: SLIP JOINT											
96.00	36.34	0.3750	18.16	873.40	19.50	0.46	27.79	51.25	0.55	32.1	3.27
82.50	39.27	0.3750	18.16	1118.17	19.50	0.43	30.41	50.14	0.61	23.6	2.79
71.50	41.65	0.3750	18.76	1324.27	21.52	0.44	31.96	49.35	0.66	17.6	2.40
60.50	44.03	0.3750	19.28	1536.21	23.45	0.46	33.13	48.65	0.69	12.5	2.01
49.50	46.41	0.3750	19.79	1753.81	25.50	0.47	33.99	48.02	0.72	8.3	1.64
TYPE OF JOINT: SLIP JOINT											
49.50	45.53	0.3750	20.36	1753.81	29.54	0.56	35.33	48.25	0.74	8.3	1.64
36.00	48.46	0.3750	20.36	2028.56	29.54	0.52	36.03	47.53	0.77	4.3	1.16
24.00	51.05	0.3750	20.85	2278.67	32.00	0.54	36.41	46.97	0.78	1.9	0.76
12.00	53.65	0.3750	21.29	2534.18	34.45	0.55	36.63	46.45	0.80	0.5	0.37
0.00	56.25	0.3750	22.10	2795.20	38.34	0.58	36.72	45.99	0.81	0.0	0.00

REACTION COMPONENTS (KIPS AND FT-KIPS)

TRANSVERSE	VERTICAL	WIND	MOMENT ABOUT	MOMENT ABOUT	MOMENT ABOUT
SHEAR	FORCE	SHEAR	TRANSVERSE	VERTICAL	WIND AXIS
0.000	38.342	-22.099	2795.200	0.000	0.000

BASE PLATE AT ELEVATION 0.00 FEET

TUBE DIAMETER 56.25 INCHES
 DESIGN MOMENT 3255.5 KIP FT
 DESIGN MOMENT IS 0. DEGREES FROM THE WIND DIRECTION
 BOLTS ARE ON THE KNUCKLES OF THE TUBE

APPLIED AXIAL FORCE 35.2 KIPS
 APPLIED SHEAR 26.44 KIPS

BOLT DATA

BOLT TYPE A615 GR75
 BOLTS ARE EVENLY SPACED
 DIAMETER 2.250 INCHES
 EFFECTIVE AREA 3.250 SQ IN
 TOTAL LENGTH 8.0 FEET
 End plates are required.
 MINIMUM EMBEDMENT 7.0 FEET
 NUMBER OF BOLTS 18
 BOLT CIRCLE DIAMETER 65.00 INCHES
 ALLOWABLE STRESS 60.0 KSI
 APPLIED AXIAL STRESS 41.7 KSI
 MAX BOLT FORCE 135.5 KIPS
 BOLT BENDING STRESS 2.1 KSI
 COMBINED BOLT STRESS 43.8 KSI
 CLEARANCE UNDER PLATE 3.25 INCHES
 BOLT WEIGHT 2030.4 POUNDS

PLATE DATA

DIAMETER OF PLATE 71.00 INCHES
 MATERIAL A572 GR60
 PROVIDED THICKNESS 2.000 INCHES
 REQUIRED THICKNESS 1.670 INCHES
 BOLT HOLE DIAMETER 2.625 INCHES
 CENTER HOLE SIZE 46.25 INCHES
 NET WEIGHT 1234.9 POUNDS
 RAW STOCK WEIGHT 2853.2 POUNDS
 SURFACE AREA 30.30 SQ FT
 ALLOWABLE STRESS 60.00 KSI
 MAX APPLIED STRESS 41.82 KSI

CONCRETE STRENGTH 3000. PSI

Base Plate - use 71.00 inch ROUND x 2.000 inch A572 GR60
 with (18) 2.250 diameter x 8.00 foot caged A615 GR75 bolts
 on a 65.00 inch bolt circle. End plates are required.

FOUNDATION DESIGN CALCULATIONS FOR A DRILLED PIER FOUNDATION



CUSTOMER: Dewberry

DATE: 09/15/05

LOCATION: Hartford County, CT

STRUCTURE: 180' Monopole

SITE NAME: Burlington Fire Department

JOB NUMBER: 13628

SITE NUMBER:

STATUS: Revision 1

FOUNDATION DESIGN LOADS

	OVERTURNING MOMENT	SHEAR FORCE	AXIAL FORCE
UNITS	<i>ft-kips</i> <i>in-lbs</i>	<i>kips</i> <i>lbs</i>	<i>kips</i> <i>lbs</i>
DESIGN LOADING	3255.5 39066000.0	26.4 26400.0	35.2 35200.0

PIER PROPERTIES

ANCHOR BOLT CIRCLE 65.0 in

ACTUAL DIAMETER 90.0 in

ANCHOR BOLT DESCRIPTION: (18) 2.25 in BOLTS AT 8 ft - 0 in LONG

PIER AREA 6361.7 in²

MINIMUM DIAMETER 85.0 in

MOMENT OF INERTIA 3220623.3 in⁴

SOIL INFORMATION

SOIL DESCRIPTION	DEPTH <i>ft</i>	DEPTH <i>in</i>	K _H VALUE <i>pci</i>	φ <i>degrees</i>	γ <i>pcf/pci</i>	COHESION <i>psf/psi</i>	E ₅₀ <i>in/in</i>
SAND	3.0 31.0	36 372	90	34	130 0.075		

GROUNDWATER WAS NOT ENCOUNTERED
DISREGARD UPPER 36in OF SOIL

NORMAL SOIL EMBEDMENT L_n = 29.0 ft

ACTUAL EMBEDMENT L_a = 27.0 ft

TOTAL LENGTH L = 28.0 ft

CONCRETE VOLUME V = 45.8 yds³

CONCRETE REINFORCEMENT

	BAR SIZE	BAR WEIGHT	QUANTITY	LENGTH	WEIGHT
VERTICAL BARS	# 11	5.313 lbs/ft	24	27.5 ft	3506.6 lbs
HORIZONTAL TIES	# 5	1.043 lbs/ft	30	23.17 ft	724.9 lbs
TOTAL					4231.5 lbs

Licensed to: Jay Parr
Engineered Endeavors, Inc.

PROGRAM LPILE plus Version 3.0
(C) COPYRIGHT 1997 ENSOFT, INC.
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Burlington Fire Department Site

UNITS--ENGLISH UNITS

I N P U T I N F O R M A T I O N

THE LOADING IS STATIC

PILE GEOMETRY AND PROPERTIES

PILE LENGTH = 336.00 IN
2 POINTS

X	DIAMETER	MOMENT OF INERTIA	AREA	MODULUS OF ELASTICITY
IN	IN	IN**4	IN**2	LBS/IN**2
.00	90.000	.322E+07	.636E+04	.300E+07
336.00	90.000	.322E+07	.636E+04	.300E+07

SOILS INFORMATION

X AT THE GROUND SURFACE = 48.00 IN

SLOPE ANGLE AT THE GROUND SURFACE = .00 DEG.

1 LAYER(S) OF SOIL

LAYER 1

THE SOIL IS A SAND - P-Y CRITERIA BY REESE ET AL, 1974

X AT THE TOP OF THE LAYER = 48.00 IN

X AT THE BOTTOM OF THE LAYER = 384.00 IN

MODULUS OF SUBGRADE REACTION = .900E+02 LBS/IN**3

DISTRIBUTION OF EFFECTIVE UNIT WEIGHT WITH DEPTH
2 POINTS

X, IN	WEIGHT, LBS/IN**3
48.00	.75E-01
384.00	.75E-01

IN	IN	LBS-IN	LBS	RAD.	LBS/IN**2	LBS-IN**2	LBS/IN
*****	*****	*****	*****	*****	*****	*****	*****
.0	.721E+00	.391E+08	.264E+05	-.347E-02	.551E+03	.966E+13	.000E+00
16.8	.663E+00	.395E+08	.264E+05	-.341E-02	.558E+03	.966E+13	.000E+00
33.6	.607E+00	.400E+08	.264E+05	-.334E-02	.564E+03	.966E+13	.000E+00
50.4	.551E+00	.404E+08	.263E+05	-.327E-02	.570E+03	.966E+13	-.883E+02
67.2	.497E+00	.408E+08	.193E+05	-.320E-02	.576E+03	.966E+13	-.742E+03
84.0	.444E+00	.410E+08	.117E+04	-.313E-02	.578E+03	.966E+13	-.142E+04
100.8	.392E+00	.408E+08	-.267E+05	-.305E-02	.576E+03	.966E+13	-.186E+04
117.6	.341E+00	.401E+08	-.605E+05	-.298E-02	.565E+03	.966E+13	-.214E+04
134.4	.292E+00	.387E+08	-.977E+05	-.292E-02	.547E+03	.966E+13	-.227E+04
151.2	.243E+00	.368E+08	-.136E+06	-.285E-02	.519E+03	.966E+13	-.226E+04
168.0	.196E+00	.342E+08	-.173E+06	-.279E-02	.483E+03	.966E+13	-.212E+04
184.8	.150E+00	.310E+08	-.206E+06	-.273E-02	.439E+03	.966E+13	-.184E+04
201.6	.104E+00	.273E+08	-.234E+06	-.268E-02	.387E+03	.966E+13	-.144E+04
218.4	.595E-01	.232E+08	-.254E+06	-.264E-02	.329E+03	.966E+13	-.912E+03
235.2	.155E-01	.188E+08	-.264E+06	-.260E-02	.268E+03	.966E+13	-.261E+03
252.0	-.279E-01	.144E+08	-.262E+06	-.257E-02	.206E+03	.966E+13	.513E+03
268.8	-.710E-01	.101E+08	-.246E+06	-.255E-02	.147E+03	.966E+13	.141E+04
285.6	-.114E+00	.620E+07	-.214E+06	-.254E-02	.922E+02	.966E+13	.243E+04
302.4	-.156E+00	.300E+07	-.164E+06	-.253E-02	.475E+02	.966E+13	.358E+04
319.2	-.199E+00	.816E+06	-.930E+05	-.252E-02	.169E+02	.966E+13	.485E+04
336.0	-.241E+00	.000E+00	.000E+00	-.252E-02	.553E+01	.966E+13	.625E+04

OUTPUT VERIFICATION

THE MAXIMUM MOMENT IMBALANCE FOR ANY ELEMENT = .218E-02 IN-LBS
 THE MAX. LATERAL FORCE IMBALANCE FOR ANY ELEMENT = -.359E-03 LBS

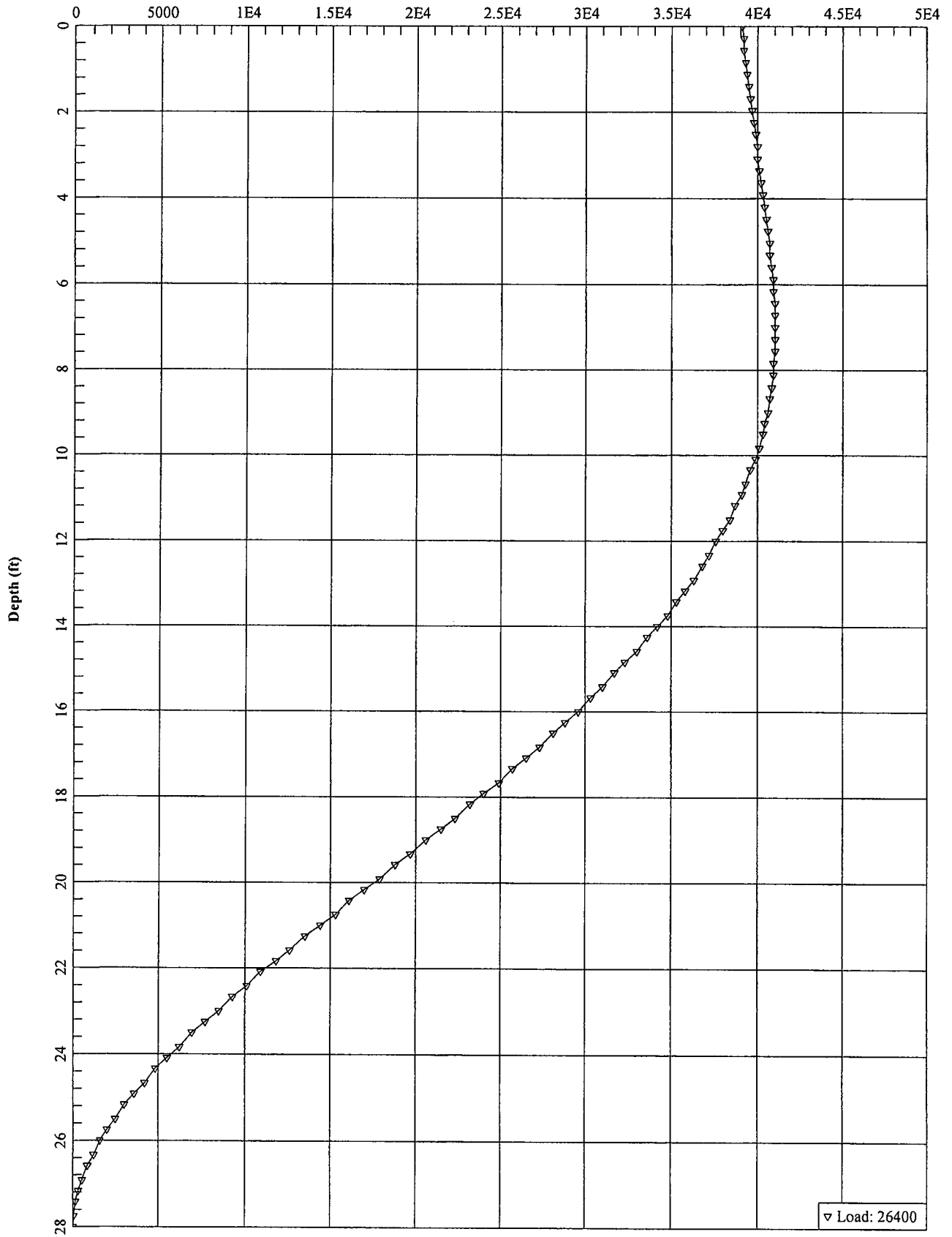
OUTPUT SUMMARY

PILE-HEAD DEFLECTION = .721E+00 IN
 COMPUTED SLOPE AT PILE HEAD = -.347E-02
 MAXIMUM BENDING MOMENT = .410E+08 LBS-IN
 MAXIMUM SHEAR FORCE = -.265E+06 LBS
 NO. OF ITERATIONS = 6
 NO. OF ZERO DEFLECTION POINTS = 1

S U M M A R Y T A B L E

BOUNDARY CONDITION	BOUNDARY CONDITION	AXIAL LOAD	PILE HEAD DEFLECTION	MAX. MOMENT	MAX. SHEAR
BC1	BC2	LBS	IN	IN-LBS	LBS
.2640E+05	.3907E+08	.3520E+05	.7212E+00	.4100E+08	-.2647E+06

Bending Moment (in-kips)





BURLINGTON FIRE DEPARTMENT

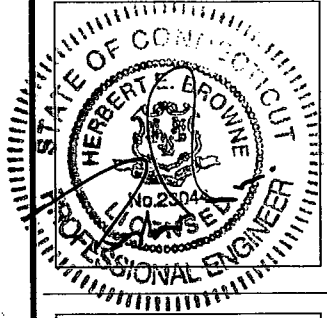
719 GEORGE WASHINGTON TURNPIKE

BURLINGTON, CONNECTICUT

SITE# 1123

cingular
WIRELESS
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
TEL: (860) 513 7600
FAX: (860) 513 7190

Dewberry
Dewberry-Goodkind, Inc.
A Dewberry Company
59 Elm Street, Suite 101
New Haven, CT 06510
p. (203) 776-2277
f. (203) 776-2286
Engineers
Planners
Surveyors



APPROVED BY CITY OF
BURLINGTON PLANNING & ZONING
COMMISSION
FINAL APPROVAL:

Chairperson

Date

No.	DATE	By	Description
2	12/27/05	CKP	FOR SUBMITTAL
1	08/24/05	RPG	FOR SUBMITTAL
0	07/07/05	CKP	FOR SUBMITTAL
A	07/01/05	CKP	PRELIM. ZONING

REVISIONS

BURLINGTON FIRE DEPARTMENT

719 GEO. WASHINGTON TPK
BURLINGTON, CT 06013
SITE NAME / ADDRESS

DRAWN BY: CKP
APPROVED BY: CKD
CHECKED BY: CKP
DATE: 07/01/05

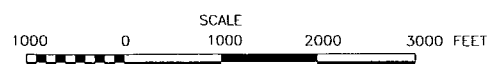
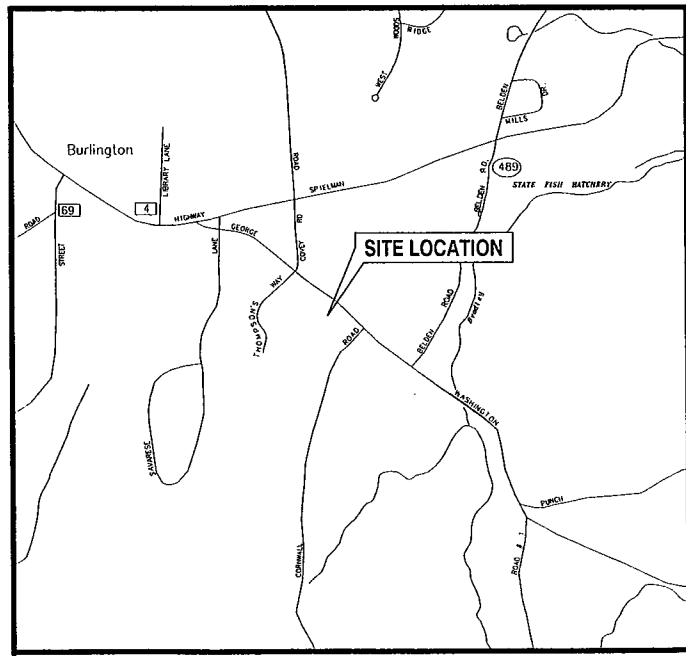
SHEET TITLE:

**TITLE
SHEET**

DEWBERRY P.N. 3752-17

T1

SHEET NO.



LOCATION MAP

PROJECT SUMMARY

APPLICANT / LESSEE
CINGULAR WIRELESS
500 ENTERPRISE DRIVE
3RD FLOOR
ROCKY HILL, CT 06067

PROPERTY OWNER
TOWN OF BURLINGTON
200 SPIELMAN HIGHWAY
BURLINGTON, CT 06013

TOWER OWNER
TOWN OF BURLINGTON
200 SPIELMAN HIGHWAY
BURLINGTON, CT 06013

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF INSTALLATION AND OPERATION OF ANTENNAS ON A PROPOSED 180'± MONOPOLE AND ASSOCIATED EQUIPMENT SHELTER AND CABLES AND THE REMOVAL OF AN EXISTING 140' SELF SUPPORTED LATTICE TOWER. ANTENNAS AND CABLES WILL BE RELOCATED FROM THE EXISTING LATTICE TOWER TO THE PROPOSED MONOPOLE AS REQUIRED. THE SYSTEM WILL BOTH TRANSMIT AND RECEIVE RADIO SIGNALS.

THE PROPOSED USE DOES NOT REQUIRE FULL-TIME OR PART-TIME EMPLOYEES AT THE SITE. IT WILL BE TYPICALLY VISITED ONCE OR TWICE PER MONTH FOR MAINTENANCE. THE FACILITY IS NOT EXPECTED TO GENERATE ADDITIONAL NOISE, FUMES OR VIBRATIONS. NO WATER OR SEWER SERVICES ARE NEEDED.

ELECTRIC UTILITY: CL&P "CALL BEFORE YOU DIG" 800-922-4455
TELEPHONE COMPANY: SBC

LATITUDE: 41°-46'-00.54"N (NAD 83)
LONGITUDE: 72°-57'-41.44"W (NAD 83)
GROUND ELEVATION: 780'± A.M.S.L

NOTE: LATITUDE, LONGITUDE AND ELEVATION CALCULATED BY STEIN SURVEY.

SHEET INDEX	
SHEET NO.	DESCRIPTION
T1	TITLE SHEET
S1	EXISTING CONDITIONS SITE PLAN
Z1	ADJACENT PROPERTY MAP
Z2	SITE LAYOUT AND BULK TABLE
Z3	DETAILED SITE PLAN & TOWER ELEVATION
Z4	SITE DETAILS

DRIVING DIRECTIONS:
TAKE I-84 WEST TO ROUTE 4 WEST. FOLLOW 4 WEST FOR 10.7 MILES AND TAKE THE LEFT ONTO COVEY ROAD AND THEN ANOTHER LEFT ONTO GEORGE WASHINGTON TURNPIKE. THE SITE WILL BE ON YOUR RIGHT.

NOTE:
THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

d:\3752\17-Burlington Fire\CAD\Cen\ZDs\T1.dwg
Fri, Jun 13 2006 11:15:35am

REFERENCE NOTE:
 THE INFORMATION SHOWN ON THIS PAGE WAS TAKEN FROM A SURVEY DONE BY DAVID L. STEIN OF STEIN SURVEY, DATED APRIL 29, 2005, ENTITLED "EXISTING CONDITIONS MAP OF A PORTION OF LAND AND LAND OF THE TOWN OF BURLINGTON." THE INFORMATION SHOWN ON THIS PAGE IS NOT AN OFFICIAL SURVEY DOCUMENT. THE ORIGINAL, CERTIFIED SURVEY CAN BE PROVIDED AS REQUIRED, UNDER SEPARATE COVER.

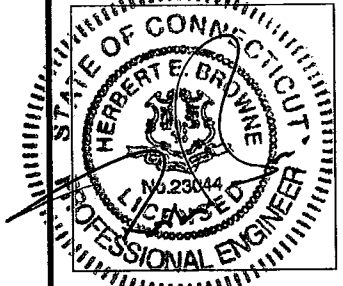
SURVEY NOTES:

- THIS SURVEY AND MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
- THE TYPES OF SURVEYS ARE PROPERTY SURVEY (INTENDED TO DEPICT THE SOUTHEASTERLY PROPERTY LINES ONLY) AND TOPOGRAPHIC SURVEY.
- THE BOUNDARY DETERMINATION CATEGORY IS RESURVEY.
- THE CLASSES OF ACCURACY ARE 1-2 AND A-2.
- REFERENCE IS MADE TO THE FOLLOWING MAPS:
 - A) 14.965± ACRES, MAP PREPARED FOR MORRIS B. HOGAN, GEORGE WASHINGTON TURNPIKE AND CORNWALL ROAD, BURLINGTON, CONNECTICUT, SCALE: 1"=100', DECEMBER 22, 1984, BY WILLIAM WHYNOTT, KENT, CONNECTICUT MAP BEING NUMBER 25-14 ON FILE IN THE TOWN OF BURLINGTON LAND RECORDS.
 - B) DIVISION OF PROPERTY FORMERLY OF THOMAS WAUGH ACQUIRED BY STONEFIELD ASSOCIATES, GEORGE WASHINGTON TURNPIKE & CORNWALL ROAD, BURLINGTON, CONNECTICUT, SCALE: 1"=100', APR. 1987, ZONE R-30 & CB, DAVIS SURVEYING-SIMSBURY, CONN., MAP BEING NUMBER 27-40 ON FILE IN THE TOWN OF BURLINGTON LAND RECORDS.
 - C) MAP OF LAND OWNED BY RICHARD A. AND MORRIS B. HOGAN, SOUTH OF GEORGE WASHINGTON TURNPIKE, BURLINGTON, CONNECTICUT, SCALE: 1"=100', FEBRUARY 1952, REVISED TO JULY 1952, MERION HODGE, SURVEYOR, MAP BEING NUMBER 2-60 ON FILE IN THE TOWN OF BURLINGTON LAND RECORDS.
 - D) PROPERTY OF STONEFIELD ASSOCIATES II, GEORGE WASHINGTON TURNPIKE & CORNWALL ROAD, BURLINGTON, CONNECTICUT, SCALE: 1"=100', JAN. 1989, REV. 5/19/89 DAVIS SURVEYING-SIMSBURY, CONN., MAP BEING NUMBER 33-13 ON FILE IN THE TOWN OF BURLINGTON LAND RECORDS.
 - E) STONEFIELD CARRIAGE HOMES & THOMPSON'S FARM ELDERLY HOUSING, PROPERTY OF STONEFIELD ASSOCIATES, GEORGE WASHINGTON TURNPIKE & CORNWALL ROAD, BURLINGTON, CONNECTICUT, SCALE: 1"=100', JULY 1988, ZONE R-15 & CB, DAVIS SURVEYING, SIMSBURY, CONN., MAP BEING NUMBER 31-6 ON FILE IN THE TOWN OF BURLINGTON LAND RECORDS.
 - F) SITE PLAN, TOWN OF BURLINGTON, BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR THE UNITED STATES POSTAL SERVICE, SCALE: 1"=20', DATE: 8-13-87, RICHARD T. TOURVILLE, L.S., AVON, CT

- REGARDING THE SUBJECT PROPERTY, REFERENCE IS MADE TO A DEED RECORDED IN VOLUME 91, BEGINNING ON PAGE 528 OF THE BURLINGTON LAND RECORDS (TOTAL AREA=2.11 ACRES± PER REFERENCED DEED), OWNER OF SUBJECT PROPERTY IS THE TOWN OF BURLINGTON.
- HORIZONTAL POSITIONS AND DIRECTIONS DEPICTED HEREON ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (SPCS NAD83) AS MEASURED BY SUB-CENTIMETER GPS METHODS AND BASED ON THE PUBLISHED VALUES OF CONNECTICUT GEODETIC SURVEY MONUMENTS 869, 3343 & 6573.
- VERTICAL POSITIONS DEPICTED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS MEASURED BY SUB-CENTIMETER GPS METHODS AND BASED ON THE PUBLISHED VALUE OF CONNECTICUT GEODETIC SURVEY MONUMENT 869.
- ALL DEED REFERENCES DEPICTED OR NOTED HEREON (VOLUME, PAGE) ARE BEGINNING PAGES AS RECORDED IN THE TOWN OF BURLINGTON LAND RECORDS.

Cingular
 WIRELESS
 500 ENTERPRISE DRIVE
 ROCKY HILL, CT 06067
 TEL: (860) 513 7600
 FAX: (860) 513 7190

Dewberry
 Dewberry-Goodkind, Inc.
 A Dewberry Company
 59 Elm Street, Suite 101
 New Haven, CT 06510
 P: (203) 776-2277
 F: (203) 776-2288
 Engineers
 Planners
 Surveyors



APPROVED BY CITY OF BURLINGTON PLANNING & ZONING COMMISSION
 FINAL APPROVAL:
 Chairperson
 Date

No.	DATE	By	Description
2	12/27/05	CKP	FOR SUBMITTAL
1	08/24/05	RPG	FOR SUBMITTAL
0	07/07/05	CKP	FOR SUBMITTAL
A	07/01/05	CKP	PRELIM. ZONING

REVISIONS
BURLINGTON FIRE DEPARTMENT
 719 GEO. WASHINGTON TPK
 BURLINGTON, CT 06013
 SITE NAME / ADDRESS

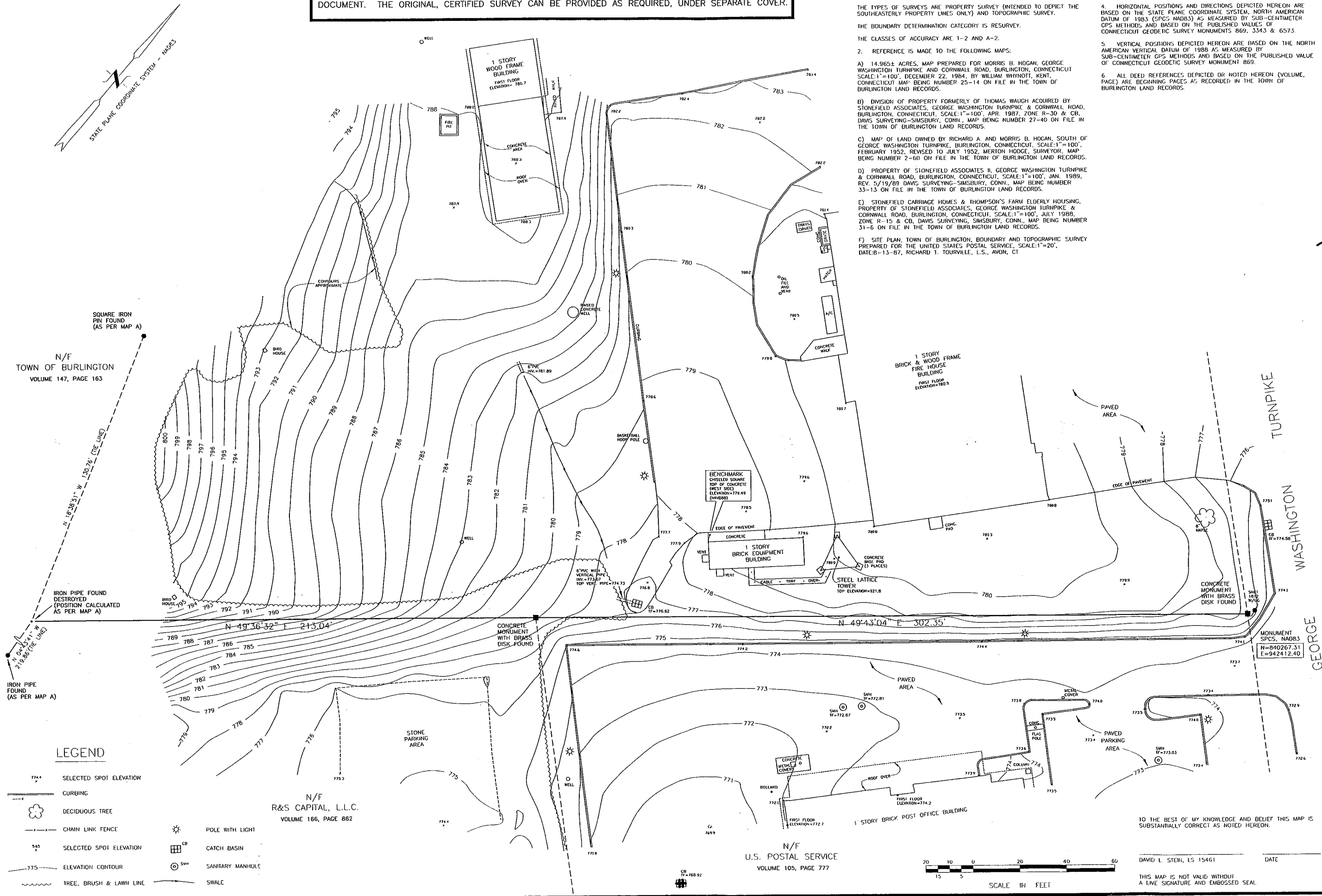
DRAWN BY CKP
 APPROVED BY CKD
 CHECKED BY CKP
 DATE 07/01/05

SHEET TITLE:
SITE SURVEY

DEWBERRY P.N. 3752-17

S1

SHEET NO.



N/F TOWN OF BURLINGTON
 VOLUME 147, PAGE 163

IRON PIPE FOUND DESTROYED (POSITION CALCULATED AS PER MAP A)

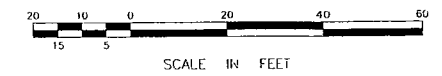
IRON PIPE FOUND (AS PER MAP A)

LEGEND

774	SELECTED SPOT ELEVATION	☼	POLE WITH LIGHT
—	CURBING	☐ ^{CB}	CATCH BASIN
☁	DECIDUOUS TREE	⊙ ^{SMH}	SANITARY MANHOLE
—	CHAIN LINK FENCE	—	SWALE
545	SELECTED SPOT ELEVATION		
775	ELEVATION CONTOUR		
~	TREE, BRUSH & LAWN LINE		

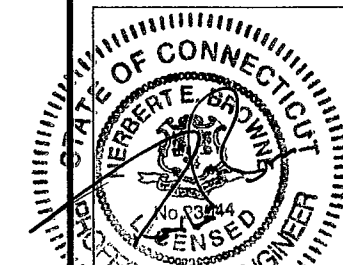
N/F R&S CAPITAL, L.L.C.
 VOLUME 186, PAGE 862

N/F U.S. POSTAL SERVICE
 VOLUME 105, PAGE 777



TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.
 DAVID L. STEIN, LS 15461
 DATE
 THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND EMBOSSED SEAL.

Q:\J252\17-Burlington_FDV\CAO\Ceil\Z05\S1.dwg
 P1, Jun 13 2006 1:36:03pm



APPROVED BY CITY OF
BURLINGTON PLANNING & ZONING
COMMISSION

FINAL APPROVAL:

Chairperson

Date

No.	DATE	By	Description
2	12/27/05	CKP	FOR SUBMITTAL
1	08/24/05	RPG	FOR SUBMITTAL
0	07/07/05	CKP	FOR SUBMITTAL
A	07/01/05	CKP	PRELIM. ZONING

REVISIONS

**BURLINGTON
FIRE
DEPARTMENT**

719 GEO. WASHINGTON TPK
BURLINGTON, CT 06013
SITE NAME / ADDRESS

DRAWN BY: CKP
APPROVED BY: CKD
CHECKED BY: CKP
DATE: 07/01/05

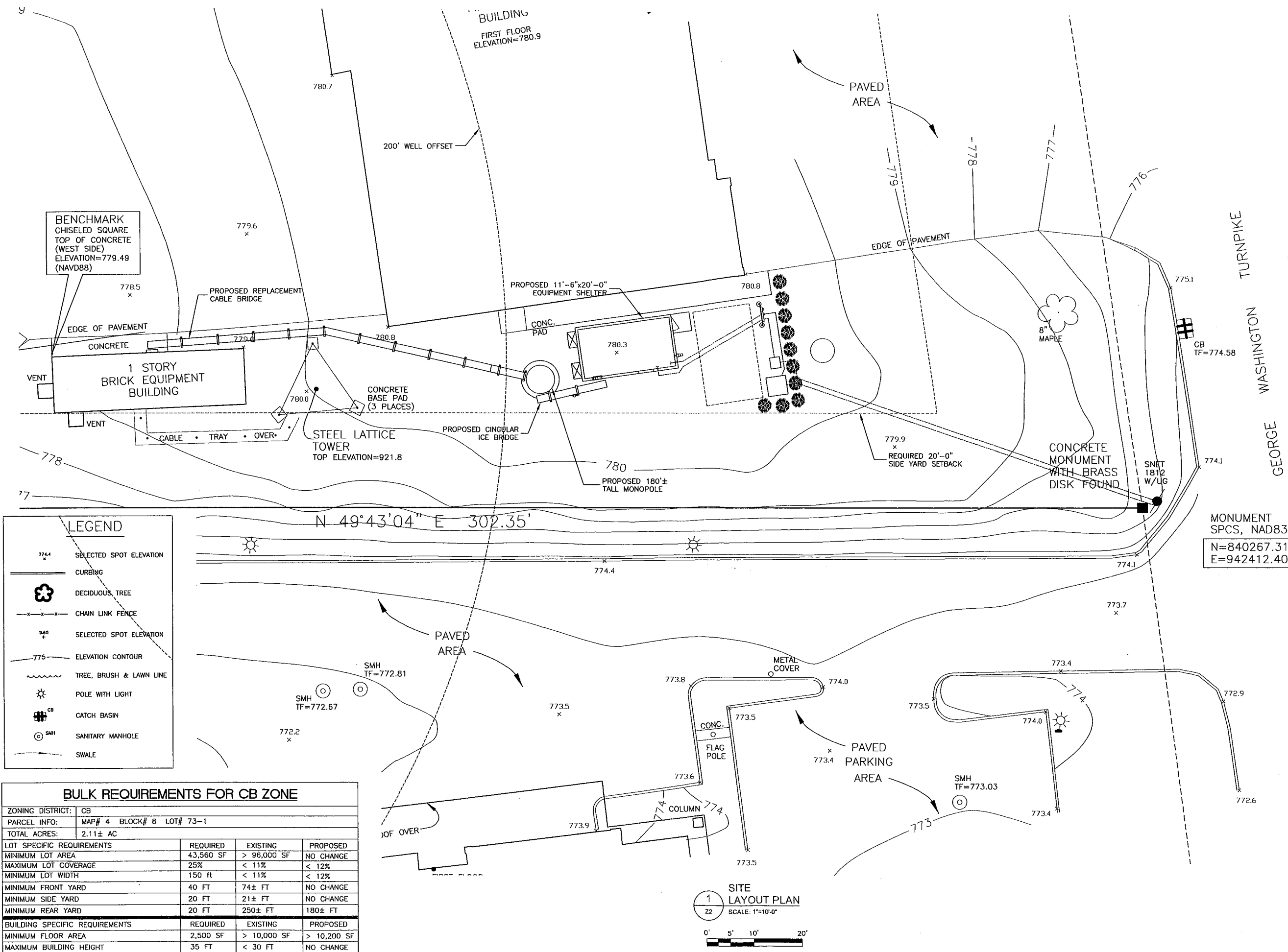
SHEET TITLE:

**SITE LAYOUT
& BULK TABLE**

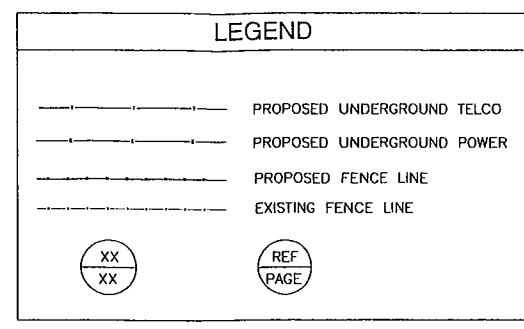
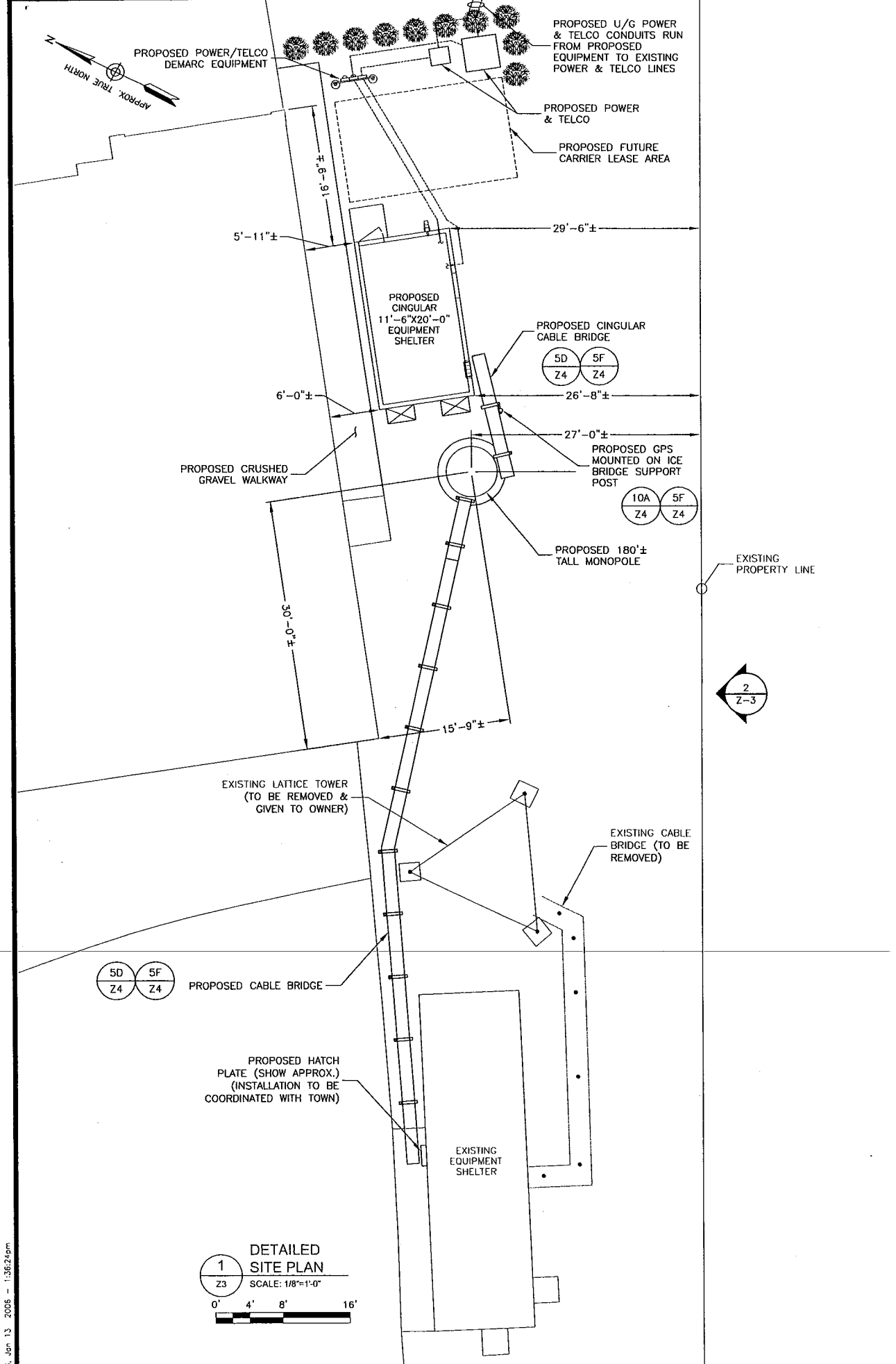
DEWBERRY P.N. 3752-17

Z2

SHEET NO.

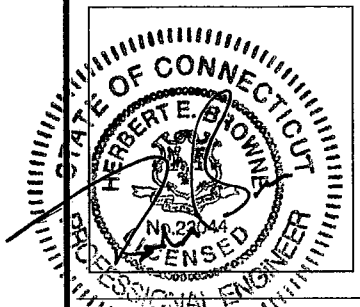
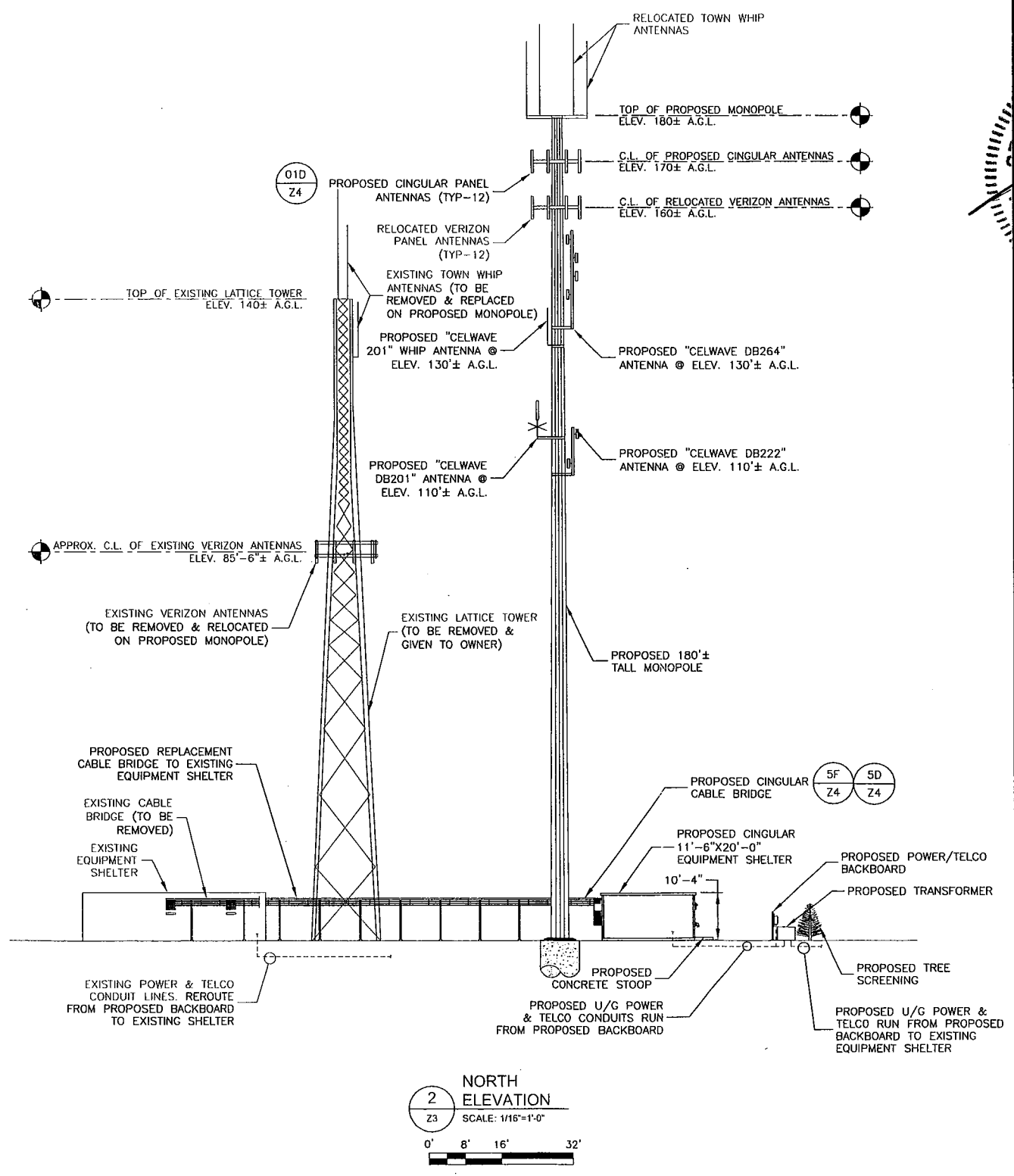


G:\3752\17-Burlington_FD_Cad\Cad\Cad\Z2.dwg
 Fri, Jan 13, 2006 1:56:20pm



NOTE:

- SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- A.G.L. - ABOVE GROUND LEVEL
C.L. - CENTER LINE



APPROVED BY CITY OF BURLINGTON PLANNING & ZONING COMMISSION

FINAL APPROVAL:

Chairperson

Date

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1	08/24/05	RPG	FOR SUBMITTAL
0	07/07/05	CKP	FOR SUBMITTAL
A	07/01/05	CKP	PRELIM. ZONING

BURLINGTON FIRE DEPARTMENT

719 GEO. WASHINGTON TPK
BURLINGTON, CT 06013
SITE NAME / ADDRESS

DRAWN BY: CKP
APPROVED BY: CKD
CHECKED BY: CKP
DATE: 07/01/05

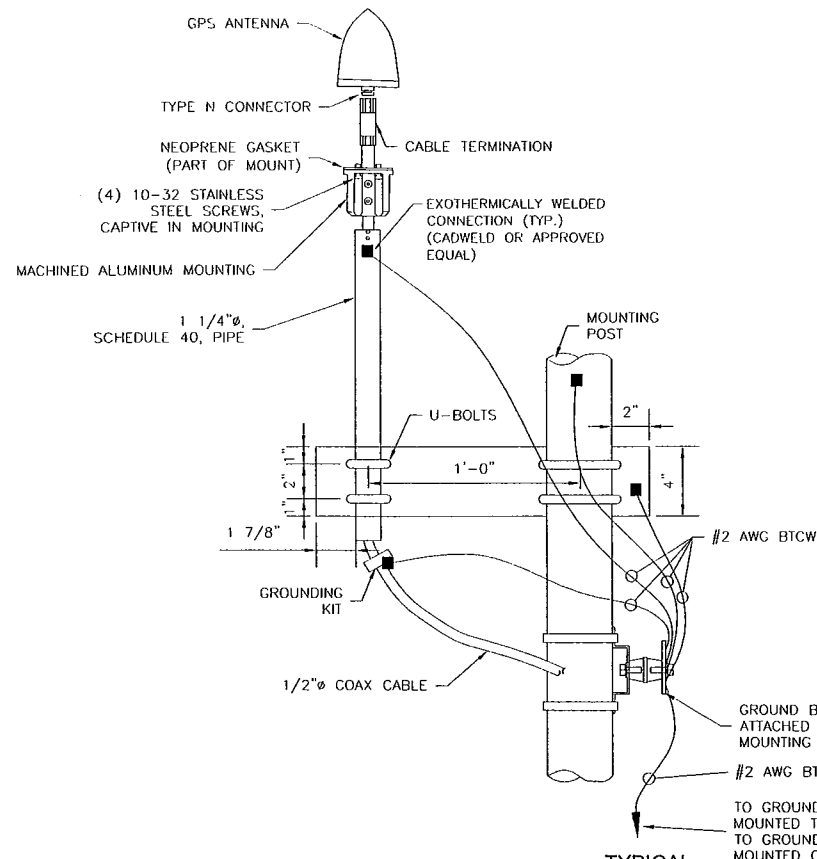
SHEET TITLE:
DETAILED SITE PLAN & TOWER ELEVATION

DEWBERRY P.N. 3752-17

Z3

SHEET NO.

D:\3752\17-Burlington_FD\CAD\Cell\Z03\Z3.dwg
Pc, Jan 13 2006 - 1:36:24pm



10A TYPICAL GPS ANTENNA
Z4 NOT TO SCALE

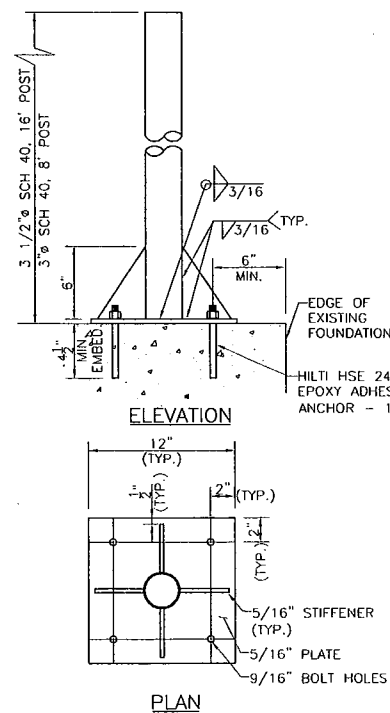
NOTE:

1. THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL RF REPORT.

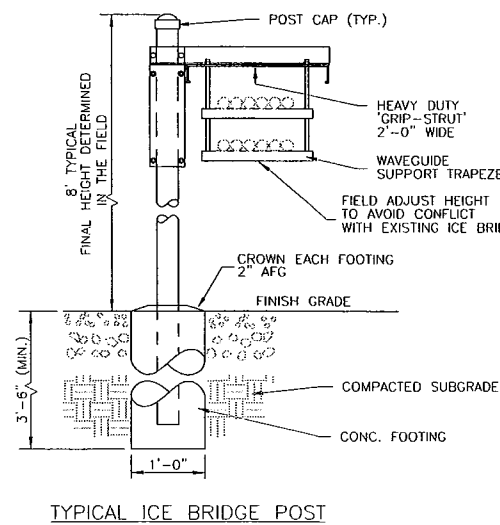
2. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4" DIAMETER, SCHEDULE 40 GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18") USING HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.

3. THE MOUNTING PLATE SHALL BE FABRICATED AS SHOWN USING 3/8" THICK GALVANIZED STEEL, AND ATTACHED TO THE APPROPRIATE SUPPORT STRUCTURE USING U-BOLTS. THE SUPPORT PIPE SHALL THEN BE ATTACHED TO THE MOUNTING PLATE USING THE OVERSIZED U-BOLTS PROVIDED TO ALLOW FOR ADJUSTMENT. IT IS CRITICAL THAT THE BASE OF THE GPS IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF THE VERTICAL AND THE BASE OF THE GPS IS WITHIN 2 DEGREES OF THE LEVEL.

4. MOUNTING PLATE MAY BE SUBSTITUTED WITH VALMONT UNIVERSAL MOUNTING KIT (P/N B1841) OR APPROVED EQUAL. GPS BASE MUST BE MOUNTED AS DESCRIBED IN NOTE 3.



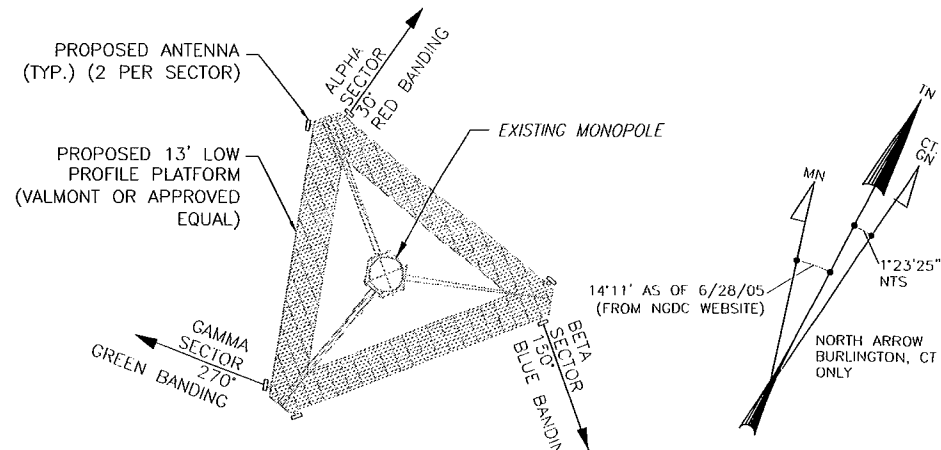
05F ALTERNATE ICE BRIDGE MOUNTING ON EXISTING SLAB
Z4 SCALE: 1.5"=1'-0"



05D TYPICAL ICE BRIDGE DETAIL
Z4 NOT TO SCALE

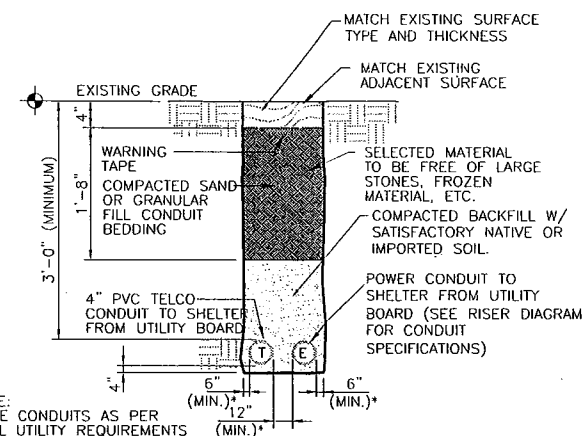
* NOTE:

- ICE BRIDGE SHALL BE VALMONT GRIP STRUT TRANSMISSION LINE BRIDGE KIT (P/N: B2959) OR APPROVED EQUAL.
- CABLE SUPPORT SHALL BE VALMONT DOUBLE LEVEL CHANNEL (P/N: 802264) OR APPROVED EQUAL.
- ALL COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL DETERMINE REQUIRED QUANTITY OF ALL ICE BRIDGE COMPONENTS.
- SNAP-IN HANGERS, SPLICE KITS, HINGE KITS, EXTENSION KITS, STIFFENERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- ICE BRIDGE SHALL BE ROUTED TO ACCOMMODATE THE MINIMUM BENDING RADIUS OF THE COAXIAL CABLE.
- ICE BRIDGE COMPONENTS SHOWN ARE SCHEMATIC, CONSULT MANUFACTURER FOR EXACT AND CURRENT SPECIFICATIONS.



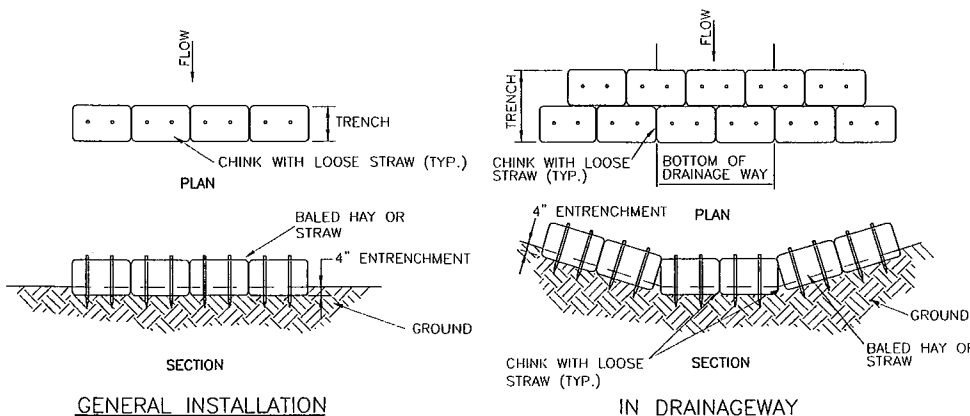
NOTE: ANTENNA AZIMUTHS AND MOUNTING DETAILS SHALL BE FINALIZED UPON COMPLETION OF SITE DESIGN

01D ANTENNA AZIMUTH DETAIL
Z4 NOT TO SCALE



FROM UTILITY BOARD TO SHELTER

18D TYPICAL UNDERGROUND UTILITY DETAIL
Z4 NOT TO SCALE



GENERAL INSTALLATION

IN DRAINAGEWAY

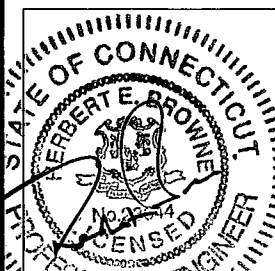
HB1 TYPICAL HAY BALE INSTALLATION
Z4 NOT TO SCALE



500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
TEL: (860) 513 7600
FAX: (860) 513 7190



Dewberry-Goodkind, Inc.
A Dewberry Company
50 Elm Street, Suite 101
New Haven, CT 06510
p. (203) 776-2277
f. (203) 776-2288
Engineers
Planners
Surveyors



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APPROVED BY CKD

CHECKED BY CKP

DATE 07/01/05

SHEET TITLE:

SITE DETAILS

DEWBERRY P.N. 3752-17

Z4

SHEET NO.