

# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman

March 16, 2007

Aaron Cowher  
SBA Network Services, Inc.  
318 Main Street, Suite B  
Southbridge, MA 01550

RE: **EM-SPRINT-NEXTEL-126-070206** - Nextel of the Mid-Atlantic, Inc. d/b/a Nextel  
Communications notice of intent to modify an existing telecommunications facility located at 162  
Birdseye Road, Shelton, Connecticut.

Dear Mr. Cowher:

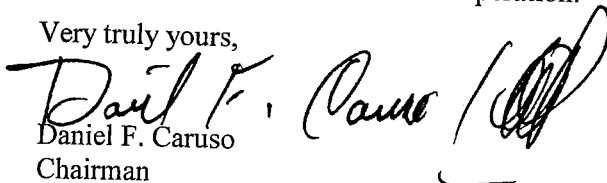
At a public meeting held on March 13, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice received February 6, 2007, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

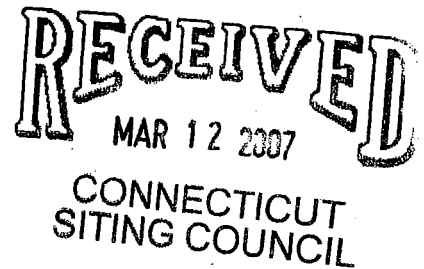
Very truly yours,

  
Daniel F. Caruso  
Chairman

DFC/MP/laf

c: The Honorable Mark A. Lauretti, Mayor, City of Shelton  
Richard Schultz, Planning Administrator, City of Shelton  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP  
Michele G. Briggs, New Cingular Wireless PCS, LLC  
Christopher B. Fisher, Esq., Cuddy & Feder LLP

162 Birdseye Rd,  
Shelton , CT 06484  
CT0921



Pursuant to Section 15-59I(a)(5) of the Connecticut General Statutes and Section 16-50j-72(b)(2), as amended, of the Regulations of Connecticut State Agencies, Nextel of the Mid-Atlantic, Inc. d/b/a Nextel Communications ("Nextel") hereby notifies the Connecticut Siting Council of its intent to modify an existing communications facility located on 162 Birdseye Rd, Shelton , CT 06484 which is owned and operated by Nextel Communications.

### **Background**

The 162 Birdseye Road facility is an existing 119' Monopole. Nextel currently has (12) antennas currently installed at the height of 121'.

### **Discussion**

Nextel plans to install replace 3 existing antennas with 3 new antennas 1 per sector at the current height of 121'. The associated radio equipment will be installed within the existing compound. The power density information and related calculations are presented on the following pages.


### **Conclusion**

The proposed addition does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50I(d). The addition of Nextel's equipment to the tower will not result in an increase in the tower's height or extend the boundaries of the site. Further, there will be no increase in noise levels by (6) decibels or more at the site's boundaries and the total radio frequency electromagnetic radiation is not at or above the standard set forth in Section 22 (a)-162 of the Connecticut General Statutes. This addition will also not have a substantially adverse environmental effect.

For the reasons discussed above, Nextel requests that the Connecticut Siting Council acknowledge that this Notice of Intent meets the Council's exemption criteria.

**NEXTEL** |™

NEXTEL COMMUNICATIONS, INC.  
9 CROSBY DRIVE  
BEDFORD, MA 07130  
PHONE: (781) 276-3996

**SBA** 

**TECTONIC**   
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SURVEYING • CONSTRUCTION  
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New Windsor, NY 12553  
Phone: (845) 907-8888  
Fax: (845) 937-8703  
www.tectonicengineering.com

PROJECT NUMBER: 4624.CT73004 DRAWN BY: GO

NO.	DATE	ISSUE
-	12/08/06	FOR REVIEW
1	01/03/07	FOR ZONING

RELEASED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**APPROVALS**

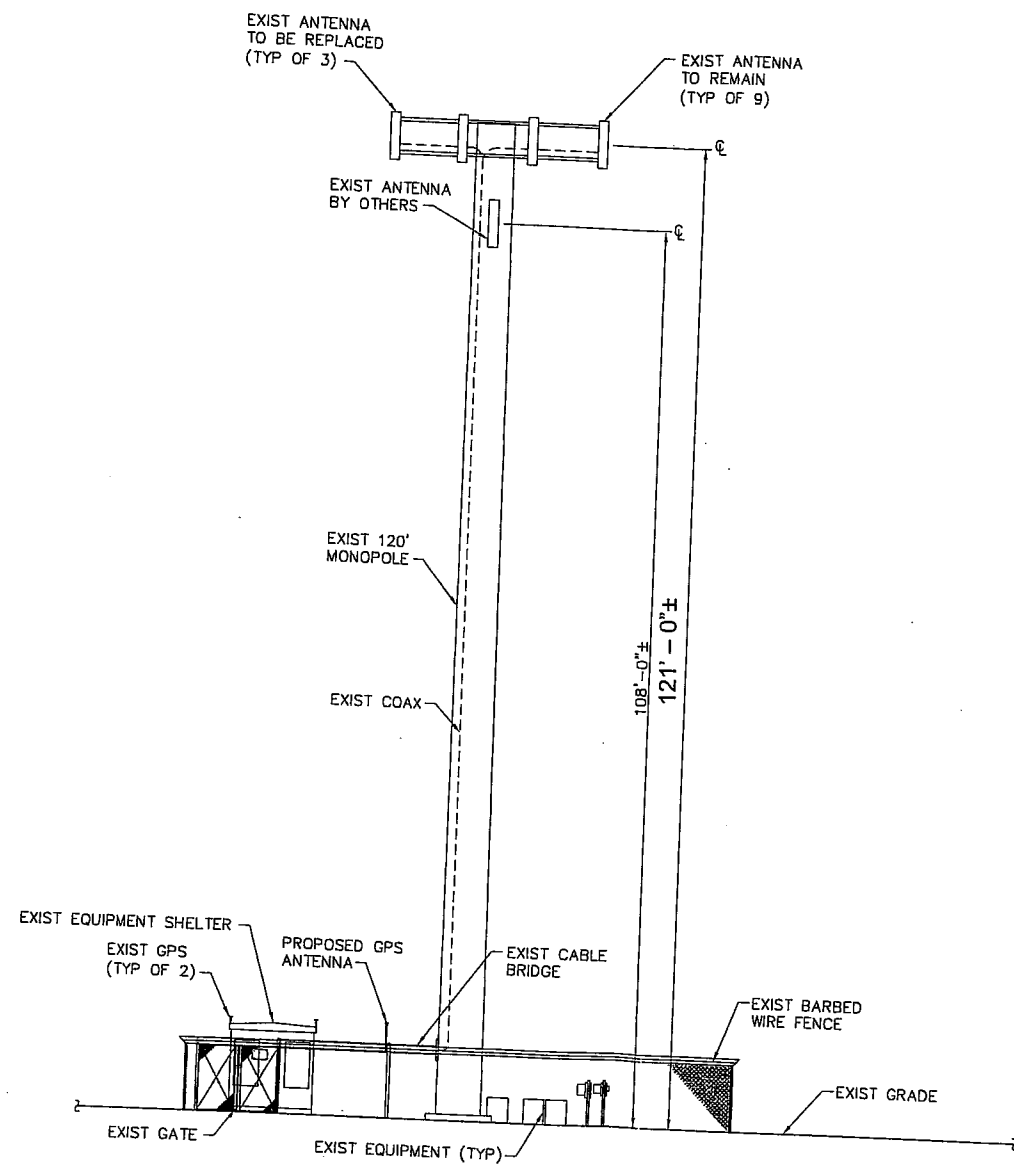
SITE DEVELOPMENT \_\_\_\_\_ DATE: \_\_\_\_\_  
RF \_\_\_\_\_ DATE: \_\_\_\_\_  
OWNER \_\_\_\_\_ DATE: \_\_\_\_\_  
FIELD OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO CURRENT COMPANY SPECIFICATIONS AS OUTLINED IN CONTRACT AND BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

CT73XC004/CT-0921  
162 BIRDSEYE ROAD  
SHELTON, CT 06484

SHEET TITLE  
ELEVATION

SHEET NUMBER  
A-2

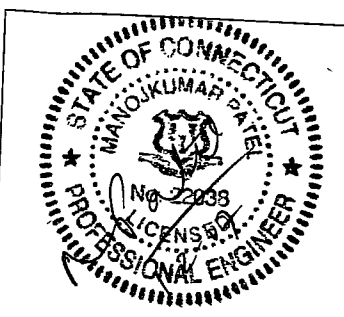
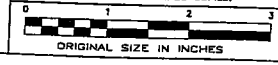


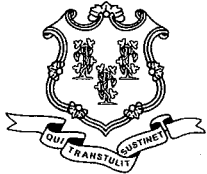
1 ELEVATION  
S-1 SCALE: 1" = 10'

NOTE:  
ANALYSIS OF EXISTING MONOPOLE AND THE ANTENNA SUPPORT FRAME TO VERIFY STRUCTURAL CAPACITY TO BE PERFORMED BY OTHERS SEE NOTE 1 ON THIS SHEET.

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Daniel F. Caruso  
Chairman

February 16, 2007

The Honorable Mark A. Lauretti  
Mayor  
City of Shelton  
54 Hill Street  
P.O. Box 364  
Shelton, CT 06484

RE: **EM-SPRINT-NEXTEL-126-070206** – Nextel Communications of the Mid-Atlantic, Inc. notice of intent to modify an existing telecommunications facility located at 162 Birdseye Road, Shelton, Connecticut.

Dear Mayor Lauretti:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for Tuesday, February 27, 2007 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by February 26, 2007.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps  
Executive Director

SDP/MP

Enclosure: Notice of Intent

c: Richard Shultz, Planning Administrator, City of Shelton

**RECEIVED**  
FEB - 6 2007

CONNECTICUT  
SITING COUNCIL



EM-SPRINT-NEXTEL-126-070206

**ORIGINAL**

Mr. Daniel F. Caruso, Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Dear Chairman Caruso:

Enclosed please find one original and 25 copies of a Notice of Intent to Modify an Exempt Tower and Associated Equipment for an existing telecommunications facility owned by Nextel Communications of the Mid Atlantic. The enclosed Notice of Intent is for the tower located at 162 Birdseye Rd, Shelton , CT 06484

The enclosed notice and attached materials detail how the addition of Nextel's antennas and other equipment at the tower site meet all of the criteria set forth in Section 16-50j-72(b)(2) of the Regulations of Connecticut State Agencies and therefore is an exempt modification pursuant to Section 16-50j-53 of the regulations.

Thank you in advance for your consideration of the enclosed Notice of Intent.

A handwritten signature in black ink, appearing to read "Aaron Cowher". The signature is stylized and cursive.

Aaron Cowher

**162 Birdseye Rd,  
Shelton , CT 06484  
CT0921**

Pursuant to Section 15-59I(a)(5) of the Connecticut General Statutes and Section 16-50j-72(b)(2), as amended, of the Regulations of Connecticut State Agencies, Nextel of the Mid-Atlantic, Inc. d/b/a Nextel Communications (“Nextel”) hereby notifies the Connecticut Siting Council of its intent to modify an existing communications facility located on 162 Birdseye Rd, Shelton , CT 06484 which is owned and operated by Nextel Communications.

**Background**

The 162 Birdseye Road facility is an existing 120’ Monopole. Nextel currently has (12) antennas currently installed at the height of 118’.

**Discussion**

Nextel plans to install replace 3 existing antennas with 3 new antennas 1 per sector at the current height of 118’. The associated radio equipment will be installed within the existing compound. The power density information and related calculations are presented on the following pages.

**Conclusion**

The proposed addition does not constitute a “modification” of an existing facility as defined in Connecticut General Statutes Section 16-50I(d). The addition of Nextel’s equipment to the tower will not result in an increase in the tower’s height or extend the boundaries of the site. Further, there will be no increase in noise levels by (6) decibels or more at the site’s boundaries and the total radio frequency electromagnetic radiation is not at or above the standard set forth in Section 22 (a)-162 of the Connecticut General Statutes. This addition will also not have a substantially adverse environmental effect.

For the reasons discussed above, Nextel requests that the Connecticut Siting Council acknowledge that this Notice of Intent meets the Council’s exemption criteria.

MPE STUDY

Nextel: 162 Birdseye Road, Shelton CT06484

Control Number	Address	Carrier	# of Channels	Watts ERP/Ch	Height (ft)	PD	Frequency	Max PD	%MPE
EM-AT&T-126-020322	Shelton - 165 Birdseye Road	AT&T	12	250	108	0.0925	1945	1.0000	9.25%
EM-AT&T-126-020322	Shelton - 165 Birdseye Road	Nextel	9	100	120	0.0225	860	0.5733	3.92%

**STRUCTURAL ANALYSIS  
SUMMARY REPORT**

**Project Information**

W.O.	4624.CT73004	Report Date:	12/28/2006
Client:	Sprint/Nextel	Revision:	0
Site Name:	Shelton North	Site No.:	CT0921
Owner:	Northeast Tower	FCC Reg. No.:	--
Site Address:	162 Birdseye Road	County:	Fairfield
City, State:	Shelton, CT		

**Structure Information**

Structure Type:	Monopole	Manufacturer:	Unknown
Structure Height:	118 feet	Year Built:	Unknown
		Diagram:	See Figure 1

Pole Shape: 12 Sided Polygon  
Orientation: Flat-Flat

## Shaft Information:

<u>Section</u>	<u>Approx Length</u>	<u>Base OD (in)</u>	<u>Top OD (in)</u>	<u>Thickness (in)</u>
3	44' 8"	29.8	22.4	0.1875
2	40' 8"	35.6	28.8	0.3125
1	40' 7"	41.0	34.3	0.375

Foundation Type: 22' x 22' concrete mat at grade, thickness unknown

Base Plate: 46" square x 3.25" thick

Anchor Bolt Diameter: 2.25 inch

Quantity: 12 on a 49 inch dia bolt circle

**Documentation**

Original Drawings: Structure: No Foundation: No

Original Design Criteria: Unknown

Previous Analysis: None

## Other Documents Provided:

<u>Item</u>	<u>By</u>	<u>Ref. No.</u>	<u>Date</u>
EBTS Worksheet	Sprint	-	8/3/06



**STRUCTURAL ANALYSIS SUMMARY REPORT (CONT.)**

W.O.	4624.CT73004	Report Date:	12/28/2006
Client:	Sprint/Nextel	Revision:	0
Site Name:	Shelton North		

<b>Inspection</b>	
Type: Climb	Date: 12/12/2006
General Condition:	
Tower:	Good
Foundation:	Good
Observations:	
No defects observed	
Finish: Galvanized, no paint	Condition: Intact

<b>Existing Appurtenances</b>					
Antennas:					
<u>Height (ft)</u>	<u>Carrier</u>	<u>Qty</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Mount</u>
120	Nextel	12	Decibel	DB844H90E-XY	14' wide platform with handrails
107	Cingular	3	Allgon	7250 or similar	(3) pipe mounts
Cables:					
<u>Height (ft)</u>	<u>Qty</u>	<u>Nom. Size</u>	<u>Location / Support</u>		
120	12	1-1/4" dia	On interior of pole		
107	6	1-1/4" dia	On interior of pole		
Lights:	None	Step Bolts:	Yes		
Lightning rod:	None	Safety Cable:	3/8" dia		
Ladder:	None	Other:	None		

<b>Proposed Installation</b>					
Antennas:					
Remove three (3) of the existing twelve (12) Nextel antennas, and replace them with the following:					
<u>Height (ft)</u>	<u>Carrier</u>	<u>Qty</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Mount</u>
120	Sprint/Nextel	3	Decibel	DB932LG65R2E-B	Exist 14' wide platform
Cables:					
Remove three (3) of the existing twelve (12) Nextel 1-1/4" dia coax cables, and install the following:					
<u>Height (ft)</u>	<u>Qty</u>	<u>Nom. Size</u>	<u>Location / Support</u>		
120	6	1-5/8" dia	On interior of pole		

# STRUCTURAL ANALYSIS SUMMARY REPORT (CONT.)

**TECTONIC**

W.O.	4624.CT73004	Report Date:	12/28/2006
Client:	Sprint/Nextel	Revision:	0
Site Name:	Shelton North		

## Analysis Criteria

Design Standard: ANSI/TIA-222-G-2005

Building Code: International Building Code 2003, with 2005 Connecticut Supplement

	<u>Capacity (no ice)</u>	<u>Capacity w/ ice</u>	<u>Service</u>
Wind Speed:	105 mph	50 mph	60 mph
Basic Ice Thickness:	0 inch	0.75 inch	0 inch

Structure Class: 2      Seismic: No  
Exposure Category: C  
Topo Category: 3

- Assumptions:
1. The monopole was designed, manufactured, and constructed in accordance with the applicable codes and standards.
  2. The foundation was designed and constructed based on site-specific geotechnical info.
  3. The slip jointed splices were assembled in accordance with the manufacturer's specs.
  4. The yield stresses of the materials used for the pole sections and base plate are 65 ksi.
  5. The yield stress of the anchor bolt material is 75 ksi.

## Analysis Results

Pole Shaft:

	Section	Maximum Usage (%)
Top	3	87
Middle	2	80
Bottom	1	96

Service Load Deflections:

	<u>Top</u>
Horizontal:	1.37 feet
Twist & Sway:	1.19 degrees

Foundation Reactions (Envelope):

Vertical	37.6 kips
Shear	34.3 kips
Moment	2344.8 k-ft

Note: Original design reactions are not available for comparison

Base plate: 76 % of capacity

Anchor bolts: 88 % of capacity

**STRUCTURAL ANALYSIS SUMMARY REPORT (CONT.)**

W.O.	4624.CT73004	Report Date:	12/28/2006
Client:	Sprint/Nextel	Revision:	0
Site Name:	Shelton North		

**Conclusions**

The existing monopole is stressed to 96% of its capacity, and is therefore adequate to support the proposed configuration.

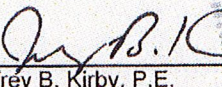
The overall change in the wind area and loads due to the proposed configuration is small. Based on the magnitude of the stresses in the shaft and anchor bolts, we therefore expect that the existing foundation is adequate to support the proposed installation.

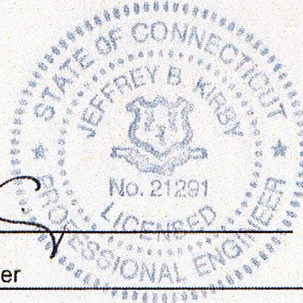
No structural problems for the monopole or its foundation are anticipated, and no modifications are necessary.

Any further changes to the antenna configuration or other appurtenances should be reviewed with respect to their effect on structural loads prior to implementation.

Prepared by: Kavish M. Zavar  
Senior Engineer

Approved by:

  
Jeffrey B. Kirby, P.E.  
Chief Structural Engineer



Date: 12/28/06

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Tectonic Engineering & Surveying Consultants, P.C.  
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Web: [www.tectonicengineering.com](http://www.tectonicengineering.com)

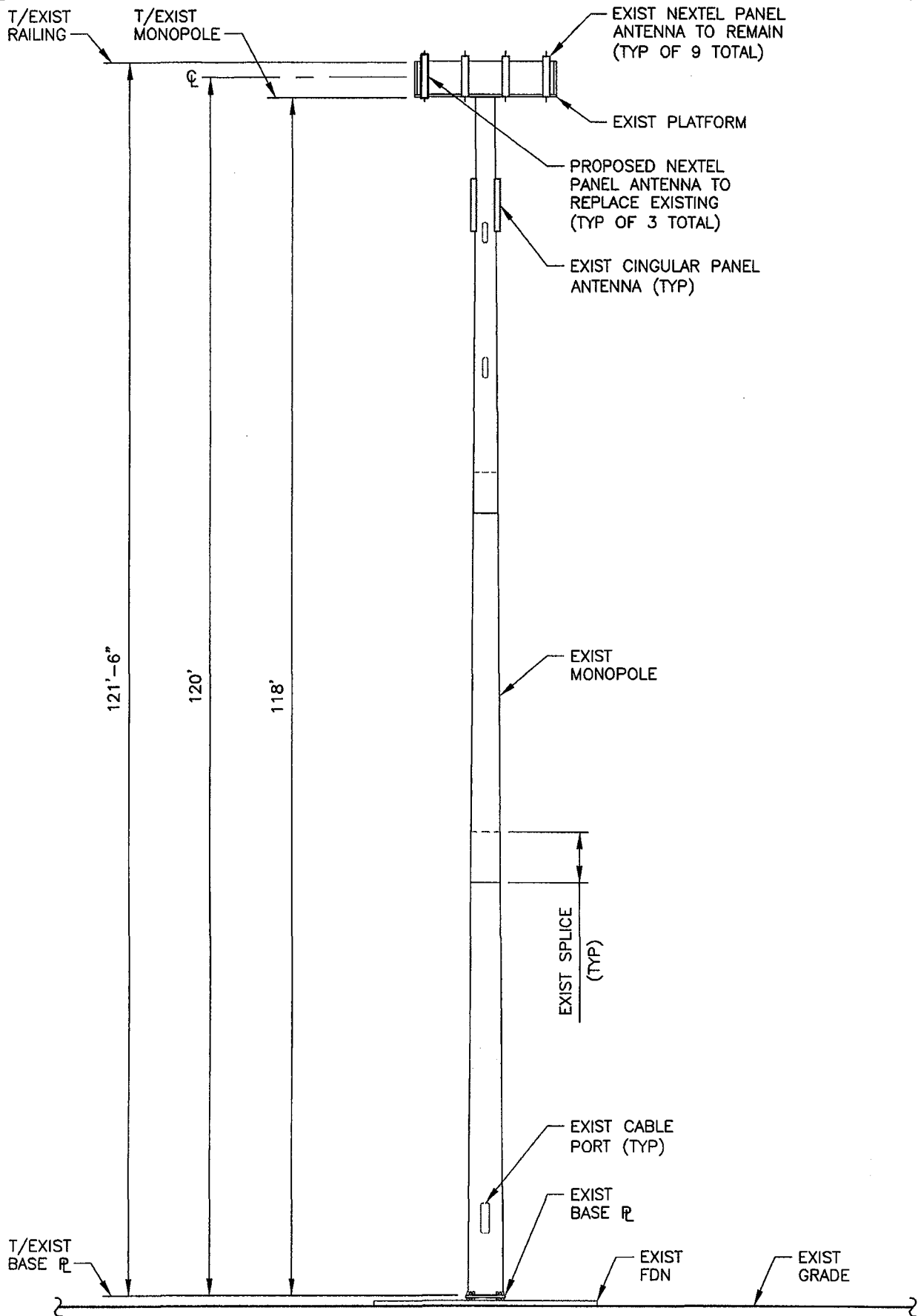


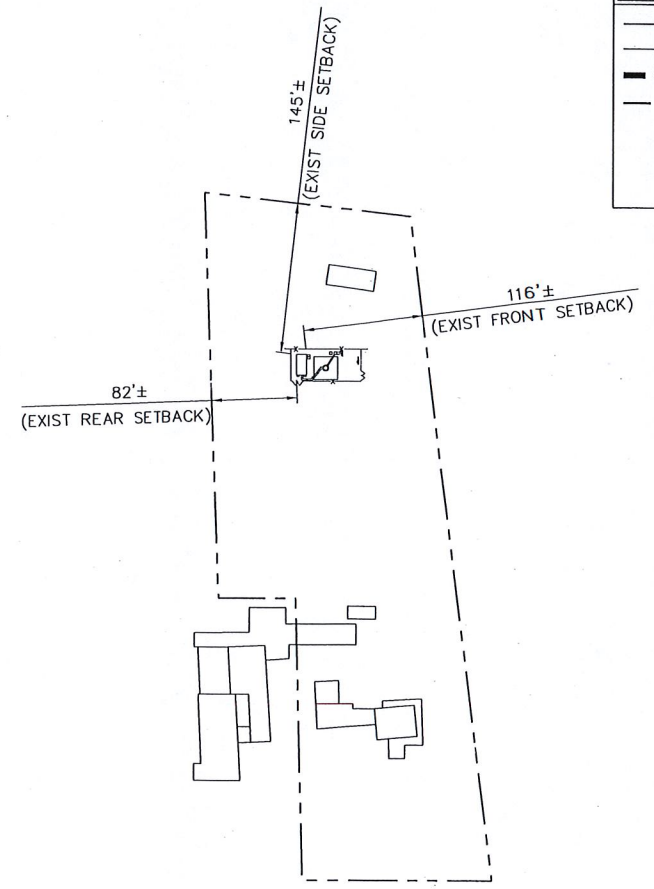
FIGURE 1

W.O. 4624.CT73004  
SHELTON, CT





1 RADIUS MAP  
C-1 SCALE: 1" = 300'



2 SETBACK MAP  
C-1 SCALE: 1" = 80'

PROPERTY OWNERS WITHIN 500' OF MAP 134, LOT 3

CITY OF SHELTON			
MAP	LOT	OWNER	ADDRESS
134	8	STERN, SAMUEL & WINER, SANSRA	149 BIRDSEYE RD SHELTON, CT 06484
134	7 & 12	BIRDSEYE ASSOCIATION	149 BIRDSEYE RD SHELTON, CT 06484
134	6	KNEEN JR, RODMAN T	161 BIRDSEYE RD SHELTON, CT 06484
134	5	F, JAMES & BURNS N, NANCY	64 ROCK RIDGE RD SHELTON, CT 06484
134	4	SICONOLFI, LOUIS & CONCETTA	60 ROCK RIDGE RD SHELTON, CT 06484
134	2	HUDAK, RUDOLPH & MCGUIRE E, KAREN	162 BIRDSEYE RD SHELTON, CT 06484

BULK REQUIREMENTS

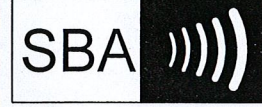
CITY OF SHELTON ZONING DISTRICT: R-1, RESIDENCE			
	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	40,000 SF	128,000 SF±	NO CHANGE
MINIMUM LOT FRONTAGE	135 FT	648 FT±	NO CHANGE
MAXIMUM SITE COVERAGE	15%	2%	NO CHANGE
MAXIMUM DIMENSION OF SQUARE ON THE LOT	150 FT	206'	NO CHANGE
MINIMUM SETBACKS			
FRONT YARD	40 FT	116 FT±	NO CHANGE
SIDE YARD	30 FT	82 FT±	NO CHANGE
REAR YARD	30 FT	145 FT±	NO CHANGE
MAXIMUM BUILDING HEIGHT	40 FT	120 FT±	NO CHANGE
MAXIMUM FLOOR AREA RATIO	20%	16%	NO CHANGE

LEGEND

	PROPERTY LINE
	ADJOINING PROPERTY LINE
	ZONING BOUNDARY
	500' RADIUS
	ZONE
	EXIST BUILDING

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PROJECT NUMBER: 4624.CT73004  
DRAWN BY: GG

NO.	DATE	ISSUE
1	12/06/06	FOR REVIEW
1	01/02/07	FOR ZONING

RELEASED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVALS

SITE DEVELOPMENT \_\_\_\_\_ DATE: \_\_\_\_\_

RF \_\_\_\_\_ DATE: \_\_\_\_\_

OWNER \_\_\_\_\_ DATE: \_\_\_\_\_

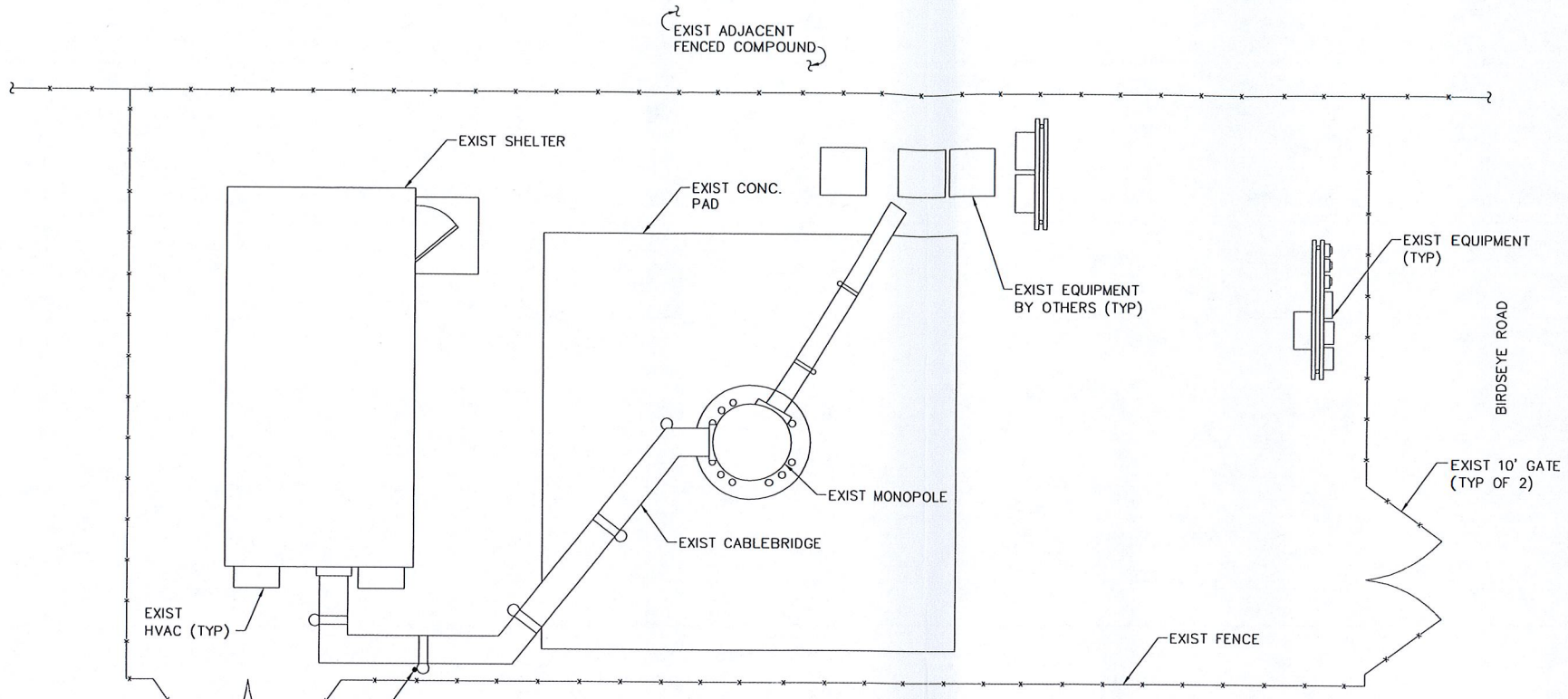
FIELD OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_

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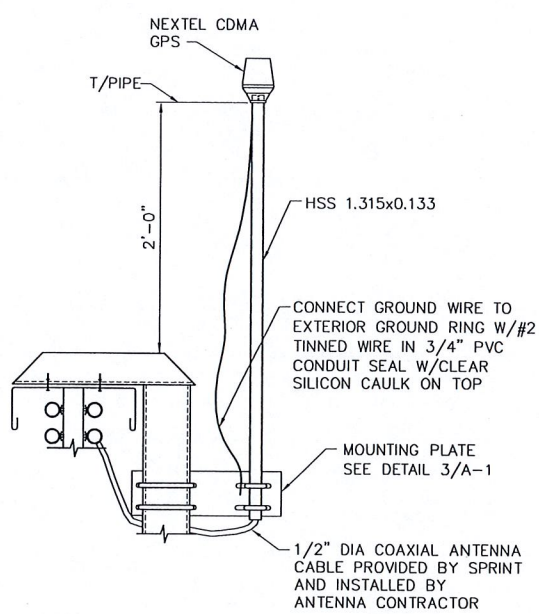
SHEET TITLE  
RADIUS MAP  
& SETBACK MAP

SHEET NUMBER  
C-1

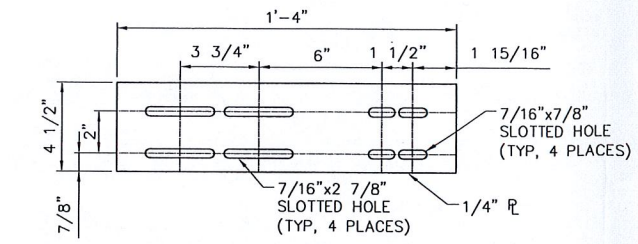


NOTE: PLAN BASED ON INFORMATION PROVIDED BY SBA.

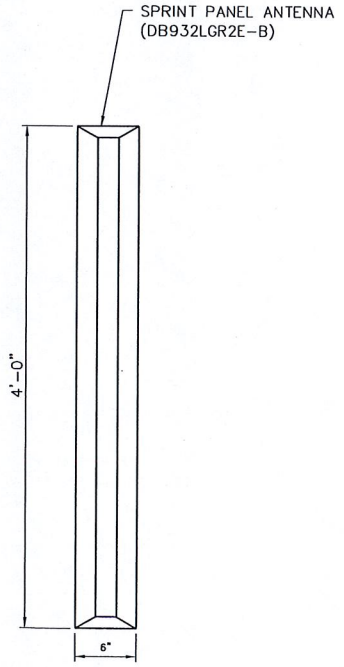
1 SITE PLAN  
A-1 SCALE: 3" = 1'-0"



2 GPS ANTENNA MOUNT  
A-1 SCALE: 1 1/2" = 1'-0"



3 MOUNTING PLATE DETAIL  
A-1 SCALE: 3" = 1'-0"

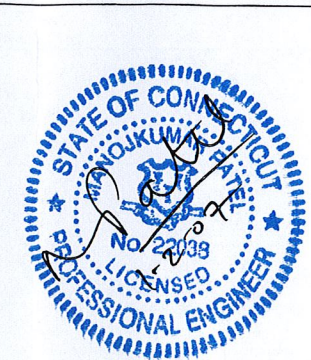


4 DETAIL  
A-1 SCALE: 1 1/2" = 1'-0"

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ORIGINAL SIZE IN INCHES



**NEXTEL**<sup>TM</sup>

NEXTEL COMMUNICATIONS, INC.  
9 CROSSBY DRIVE  
BEDFORD, MA 07130  
PHONE: (781) 276-3996

**SBA**

**TECTONIC** ENGINEERING & SURVEYING CONSULTANTS P.C.

TECTONIC Engineering & Surveying Consultants P.C.  
955 Little Britain Road  
New Windsor, NY 12553  
Phone: (845) 587-8856  
Fax: (845) 587-8703  
www.tectonicengineering.com

PROJECT NUMBER		DRAWN BY	
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NO.	DATE	ISSUE	
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RELEASED BY		DATE	

APPROVALS

SITE DEVELOPMENT \_\_\_\_\_ DATE: \_\_\_\_\_

RF \_\_\_\_\_ DATE: \_\_\_\_\_

OWNER \_\_\_\_\_ DATE: \_\_\_\_\_

FIELD OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_

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CT73XC004/CT-0921  
162 BIRDSEYE ROAD  
SHELTON, CT 06484

SHEET TITLE  
PLOT PLAN & DETAILS

SHEET NUMBER

A-1

**NEXTEL** |™

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PHONE: (781) 276-3956

**SBA** 

**TECTONIC** 

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PROJECT NUMBER: 4624.CT73004 DRAWN BY: GG

NO.	DATE	ISSUE
-	12/06/06	FOR REVIEW
1	01/02/07	FOR ZONING

RELEASED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**APPROVALS**

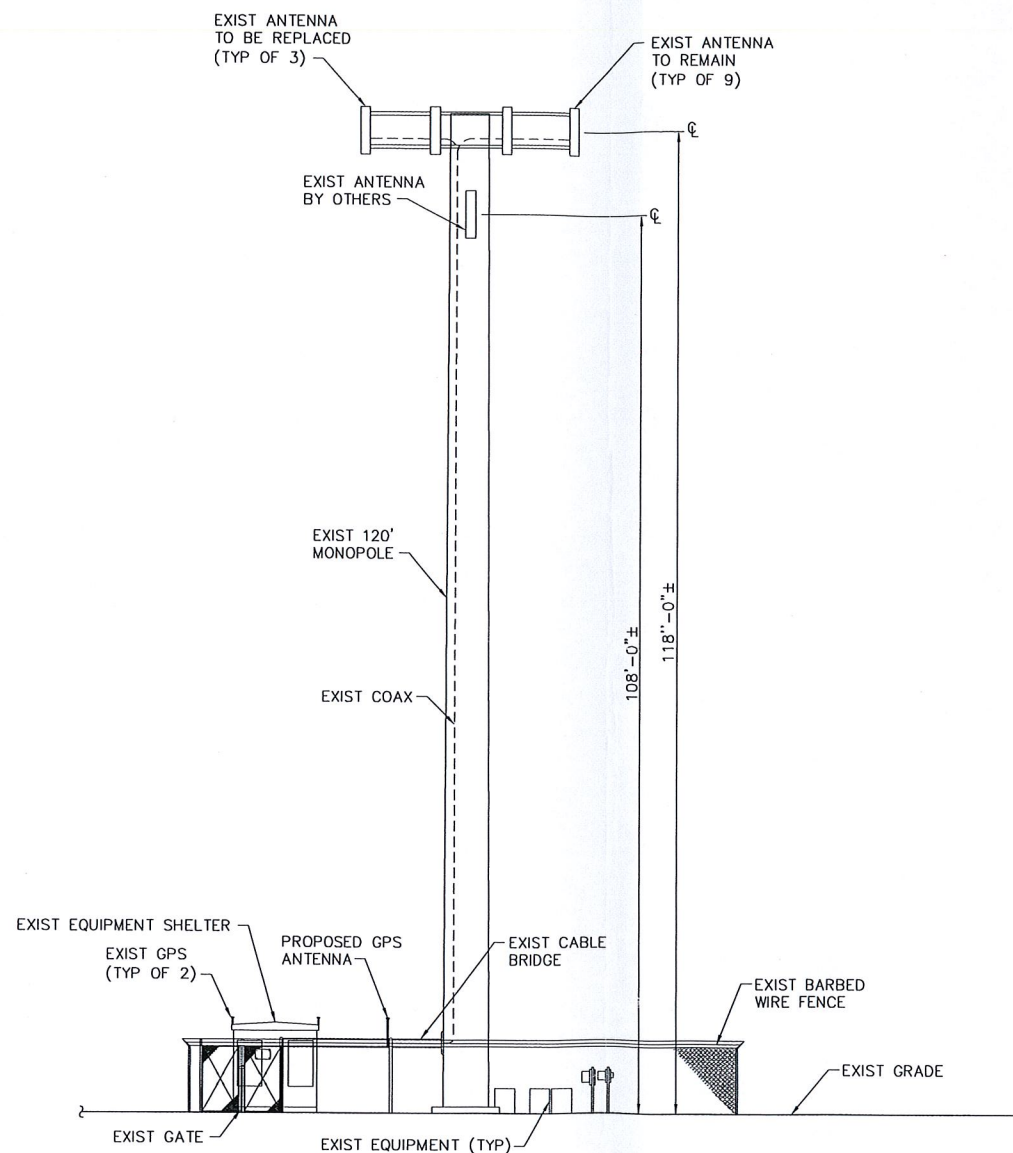
SITE DEVELOPMENT \_\_\_\_\_ DATE: \_\_\_\_\_  
RF \_\_\_\_\_ DATE: \_\_\_\_\_  
OWNER \_\_\_\_\_ DATE: \_\_\_\_\_  
FIELD OPERATIONS \_\_\_\_\_ DATE: \_\_\_\_\_

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CT73XC004/CT-0921  
162 BIRDSEYE ROAD  
SHELTON, CT 06484

SHEET TITLE  
ELEVATION

SHEET NUMBER  
A-2



**1** ELEVATION  
S-1 SCALE: 1" = 10'

NOTE:  
ANALYSIS OF EXISTING MONOPOLE AND THE ANTENNA SUPPORT FRAME TO VERIFY STRUCTURAL CAPACITY TO BE PERFORMED BY OTHERS SEE NOTE 1 ON THIS SHEET.

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0 1 2 3  
ORIGINAL SIZE IN INCHES

