

**DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK**  
**CITY OF PORTLAND**

Please Read  
Application And  
Notes, if Any,  
Attached

**BUILDING INSPECTION**

**PERMIT**

Permit Number: 061720

DEPT. OF BUILDING INSPECTION  
CITY OF PORTLAND, ME

This is to certify that PORTLAND HOTEL ASSOCIATES LLC /TRM

has permission to Replace 12 existing antennas with 12 new antennas

AT 157 HIGH ST

037 E007001

JAN - 9 2007

provided that the person or persons who accept this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission is procured before this building or part thereof is occupied or service is provided. 4 HOUR NOTIFICATION REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

**OTHER REQUIRED APPROVALS**

Fire Dept. \_\_\_\_\_

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

Department Name

*Jamie Benke* 1/2/06  
Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

**DEPT. OF BUILDING INSPECTION  
CITY OF PORTLAND, ME**

Permit No: 06-1720	Issue Date: JAN - 9 2007	CBL: 037 E007001
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Location of Construction: 157 HIGH ST	Owner Name: PORTLAND HOTEL ASSOCIATE	Owner Address: 157 HIGH ST
Business Name:	Contractor Name: TRM	Contractor Address: 30 Lyman St Suite 12 Westborough 5082891734
Lessee/Buyer's Name	Phone:	Permit Type: Commercial
		Zone: B3

Past Use: Commercial	Proposed Use: Commercial replace existing antennas (12) with 12 new antennas <i>(original permit 97-1263)</i>	Permit Fee: \$70.00	Cost of Work: \$5,000.00	CEO District: 1
Proposed Project Description: Replace 12 existing antennas with 12 new antennas		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: R1 Type: N/A	
		Signature:	Signature: <i>JMB 1/2/06</i>	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
		Signature: _____ Date: _____		

Permit Taken By: dmartin	Date Applied For: 11/22/2006	<b>Zoning Approval</b>		
<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</li> </ol>		Special Zone or Reviews	Zoning Appeal	Historic Preservation
		<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> <i>ok w/condition</i> Date: 11/30/06 <i>ABU</i>	<input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input checked="" type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: 12/19/06 <i>STH</i>

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



# General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>157 High Street, Portland, ME 04101</u>		
Total Square Footage of Proposed Structure <u>N/A</u>	Square Footage of Lot <u>46,379</u>	
Tax Assessor's Chart, Block & Lot Chart#      Block#      Lot# <u>037 E007001</u>	Owner: <u>Portland Hotel Association LLC</u>	Telephone:
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>Brad Kent 30 Lyman St. Suite 12 Westborough, MA 01581</u>	Cost Of Work: \$ <u>5,000</u> Fee: \$ <u>70</u> C of O Fee: \$ _____
Current Specific use: <u>Commercial / Telecommunications</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>Telecommunications (No change)</u>		
Project description: <u>NexTel Proposes to replace the existing (12) antennas with (12) new antennas located on the building. The existing mounting equipment with not change.</u>		
Contractor's name, address & telephone: <u>Jeff Steinberg, 26 Church St Westborough, MA 01581 1-508-944-2905</u>		
Who should we contact when the permit is ready: <u>Brad Kent</u> Mailing address: _____ Phone: <u>781-718-2761</u> <u>30 Lyman St. Suite 12 Westborough MA 01581</u>		

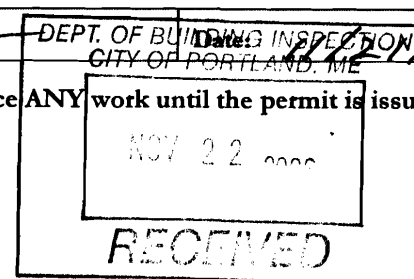
Please submit all of the information outlined in the Commercial Application Checklist.  
Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: Brad Kent DEPT. OF BUILDING INSPECTION  
CITY OF PORTLAND, ME

This is not a permit; you may not commence ANY work until the permit is issued.



*The Commonwealth of Massachusetts*  
BOARD OF BUILDING REGULATIONS  
License: CONSTRUCTION SUPERVISOR  
Number: OS 076934  
Birthdate: 03/28/1972  
Expires: 03/28/2008 Tr. no: 18876  
Restricted: 00  
JEFFREY S STEINBERG  
26 CHURCH ST  
WESTBOROUGH, MA 01581  
*Thomas A. Giff*  
Commissioner

00 - 36,000 of enclosed spade  
(MGL C.112 S.60L)  
1A - Masonry only  
1G - 1 & 2 Family Homes  
Failure to possess a current edition of the  
Massachusetts State Building Code  
is cause for revocation of this license.  
DIG SAFE CALL CENTER: (888) 344-7283

**City of Portland, Maine - Building or Use Permit**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 06-1720	Date Applied For: 11/22/2006	CBL: 037 E007001
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<b>Location of Construction:</b> 157 HIGH ST	<b>Owner Name:</b> PORTLAND HOTEL ASSOCIATE	<b>Owner Address:</b> 157 HIGH ST	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> TRM	<b>Contractor Address:</b> 30 Lyman St Suite 12 Westborough	<b>Phone:</b> (508) 389-1734
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Alterations - Commercial	

<b>Proposed Use:</b> Commercial replace existing antennas (12) with 12 new antennas	<b>Proposed Project Description:</b> Replace 12 existing antennas with 12 new antennas
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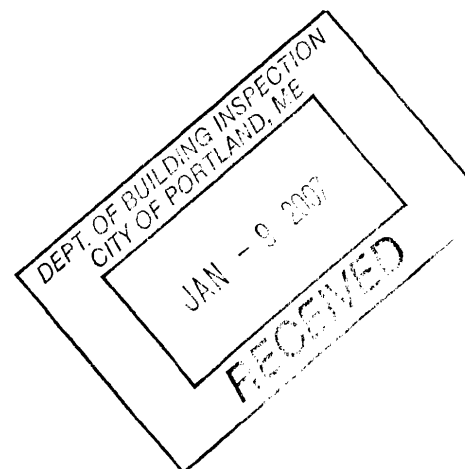
**Dept:** Historic      **Status:** Approved      **Reviewer:** Scott Hanson      **Approval Date:** 12/19/2006  
**Note:**      **Ok to Issue:**

**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Ann Machado      **Approval Date:** 11/30/2006  
**Note:**      **Ok to Issue:**

- 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

**Dept:** Building      **Status:** Approved with Conditions      **Reviewer:** Jeanine Bourke      **Approval Date:** 01/02/2006  
**Note:**      **Ok to Issue:**

- 1) Equipment must be installed in compliance with the manufacturer's specifications
- 2) Separate permits are required for any electrical installation.





www.dapacom.com  
dapainfo@dapacom.com

## Model 2980-006/2980-016, 102°, 15.6 dBi(13.5 dBd) Panel

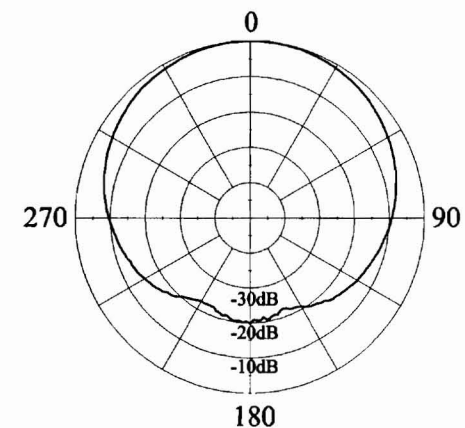
### ELECTRICAL CHARACTERISTICS

Frequency Range	806 - 960 MHz
Beamwidth: Horizontal-plane Vertical-plane	102° ± 2° (at -3 dB) 11° ± 1° (at -3 dB)
Maximum / Minimum Gain	15.6/14.9 dBi (13.5/12.8 dBd)
Electrical Downtilt	0° (available -6°, -10°, -15°)
Side Lobes	≤ -16 dB
Front-to-Back Ratio	≤ -19 dB

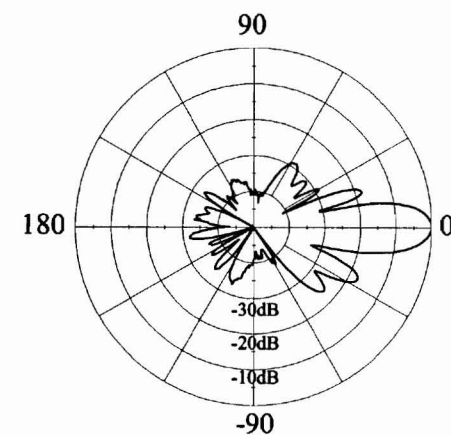
*Existing Antennas*

### GENERAL CHARACTERISTICS

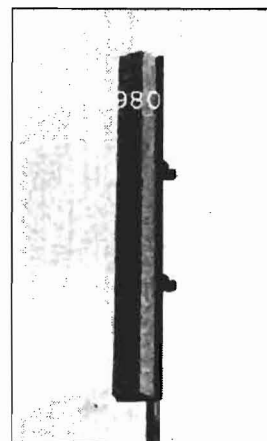
Impedance	50 Ω
VSWR	≤ 1.5:1
Polarization	Vertical
Rated Power	500 W



HORIZONTAL - PLANE



VERTICAL - PLANE



DAPA • FRANCE, Les Ulis • USA, Allegany NY



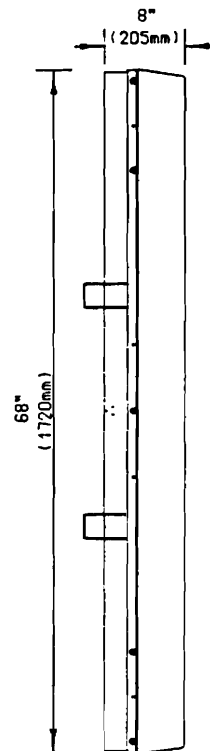
www.dapacom.com  
dapainfo@dapacom.com

## Model 2980-006/2980-016, 102°, 15.6 dBi(13.5 dBd)Panel

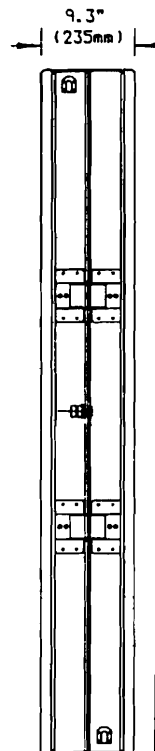
### MECHANICAL CHARACTERISTICS

<b>Height x Width x Depth</b>	68" x 9.3" x 8" (1720 x 235 x 205 mm)
<b>Weight</b>	30.2 lbs (13.7 kg)
<b>Wind Survival Rating</b>	125 mph (200 km/h)
<b>Wind Load (at 100 mph)</b>	585 N (frontal F1) 610 N (lateral F2)
<b>Flat Plate Equivalent Area</b>	4.35 ft <sup>2</sup> (0.40 m <sup>2</sup> )
<b>Connector Types (Female)</b>	Type N, or 7/16 DIN
<b>Materials: Antenna / Radome</b>	Aluminum / ABS

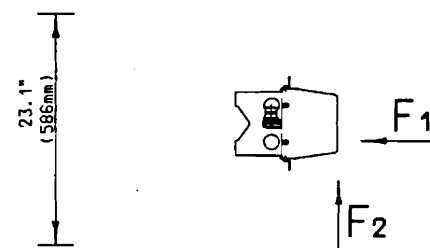
SIDE VIEW



REAR VIEW



TOP VIEW



### MOUNTING HARDWARE

<b>Mounting Brackets (standard)</b>	<b>Fix 903</b> (1.25" - 3.5" OD pipe) (30 - 90 mm OD pipe)
<b>Mounting Brackets (optional)</b>	<b>Fix 905</b> (2" - 4.7" OD pipe) (50 - 120 mm OD pipe)
	<b>Fix 902</b> (4.5" - 6.6" OD pipe) (115 - 170 mm OD pipe)
<b>Mechanical Tilt Brackets (optional)</b>	Model 307780

**ACORD****CERTIFICATE OF INSURANCE**

ISSUE DATE

08/23/2006

**PRODUCER**

MCGRUFF, SEIBELS & WILLIAMS, INC.  
P.O. Box 10265  
Birmingham, AL 35202  
205-252-9871

This certificate is issued as a matter of information only and confers no rights upon the Certificate Holder. This Certificate does not amend, extend or alter the coverage afforded by the policies below.

**COMPANIES AFFORDING COVERAGE**

Company A American Home Assurance Co

Company B New Hampshire Insurance Company

Company C Illinois National Insurance Company

Company D

Company E

**INSURED**

National Grid Wireless Holdings, Inc., including its subsidiaries  
NEES Communications, Inc. (NEESCom), National Grid  
Communications, Inc. (Gridcom) and National Grid Wireless  
Services, Inc. c/o National Grid USA Service Company, Inc.  
300 Erie Boulevard West  
Syracuse, NY 13202-4250

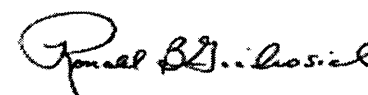
This is to certify that the policies of insurance described herein have been issued to the Insured named herein for the policy period indicated. Notwithstanding any requirement, term or condition of contract or other document with respect to which this certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, conditions and exclusions of such policies. Limits shown may have been reduced by paid claims.

CO LT	TYPE OF INSURANCE	POLICY NUMBER	EFFECTIVE EXPIRATION	LIMITS OF LIABILITY	
A	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> Commercial General Liability <input type="checkbox"/> Claims Made <input checked="" type="checkbox"/> Occurrence <input type="checkbox"/> Owners' and Contractors' Protection <input type="checkbox"/> General Aggregate Limit applies per: <input checked="" type="checkbox"/> Policy <input type="checkbox"/> Project <input type="checkbox"/> Location	4555787	08/01/2006 04/01/2007	EACH OCCURRENCE	\$ 1,000,000
				FIRE DAMAGE	\$ 500,000
				MEDICAL EXPENSE	\$ 10,000
				PERS. AND ADVERTISING INJURY	\$ 1,000,000
				GENERAL AGGREGATE	\$ 2,000,000
				PRODUCTS AND COMP. OPER. AGG.	\$ 2,000,000
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> Any Automobile <input type="checkbox"/> All Owned Automobiles <input type="checkbox"/> Scheduled Automobiles <input checked="" type="checkbox"/> Hired Automobiles <input checked="" type="checkbox"/> Non-owned Automobiles <input type="checkbox"/>	7557279	08/01/2006 04/01/2007	COMBINED SINGLE LIMIT	\$ 1,000,000
				BODILY INJURY (Per person)	\$
				BODILY INJURY (Per accident)	\$
				PROPERTY DAMAGE (Per accident)	\$
				COMPREHENSIVE COLLISION	
B	<b>WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY</b>	4505268	08/01/2006 04/01/2007	WC Statutory Limit <input checked="" type="checkbox"/> Other <input type="checkbox"/>	
				EL EACH ACCIDENT	\$ 1,000,000
				EL DISEASE (Each employee)	\$ 1,000,000
				EL DISEASE (Policy Limit)	\$ 1,000,000
C	<b>EXCESS LIABILITY</b> <input checked="" type="checkbox"/> Occurrence <input type="checkbox"/> Claims Made	BE4485581	08/01/2006 04/01/2007	EACH OCCURRENCE	\$ 10,000,000
				AGGREGATE	\$ 10,000,000
					\$
					\$
					\$
					\$
					\$

**CERTIFICATE HOLDER**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

Authorized Representative



For Informational Purposes Only





# DB876G105AXY

Panel Antenna

**Decibel®**  
Base Station Antennas

- Air dielectric feed system featuring no screws, welds, solder or rivets in dipole feedpoint
- Low loss feed system provides improved gain per unit length
- Low noise due to superior intermodulation performance
- Low profile appearance and low wind loading profile for easier zoning approvals

## ELECTRICAL

Frequency (MHz) :	806 - 896	870 - 960
Polarization :	Vertical	Vertical
Gain (dBd/dBi) :	13/15.1	13.4/15.5
Azimuth BW (Deg.):	105	105
Elevation BW (Deg.):	10	10
Beam Tilt (Deg.):	0	0
USLS* (dB) :	15	15
Front-To-Back Ratio* (dB) :	23	23
VSWR :	<1.35:1	<1.35:1
PIM3 @ 2 x 20w (dBc) :	-150	-150
Max. Input Power (Watts) :	500	500
Impedance (Ohms) :	50	50
Lightning Protection :	DC Ground	DC Ground

## MECHANICAL

Weight :	10.4 kg (23 lb)
Dimensions (LxWxD) :	1,829 x 267 x 114 mm (72 x 10.5 x 4.5 in)
Max. Wind Area :	0.24 m <sup>2</sup> (2.6 ft <sup>2</sup> )
Max. Wind Load (@ 100 mph) :	631.6 N (142 lbf)
Max. Wind Speed :	241 km/h (150 mph)
Hardware Material :	Galvanized Steel
Connector Type :	7-16 DIN - Female (1, Back)
Color :	Light Gray
Standard Mounting Hardware :	DB380
Standard Downtilt Mounting Hardware :	DB5083
WeatherProofing Enclosure: (must order separately)	AWE-A12

*Proposed Antennas*



Andrew Corporation  
2601 Telecom Parkway  
Richardson, Texas U.S.A 75082-3521  
Tel: 214.631.0310

Fax: 214.631.4706  
Toll Free Tel: 1.800.676.5342  
Fax: 1.800.229.4706  
www.andrew.com

\* - Indicates Typical  
10/10/2005  
dbtech@andrew.com

Information correct at date of issue but may be subject to change without notice.

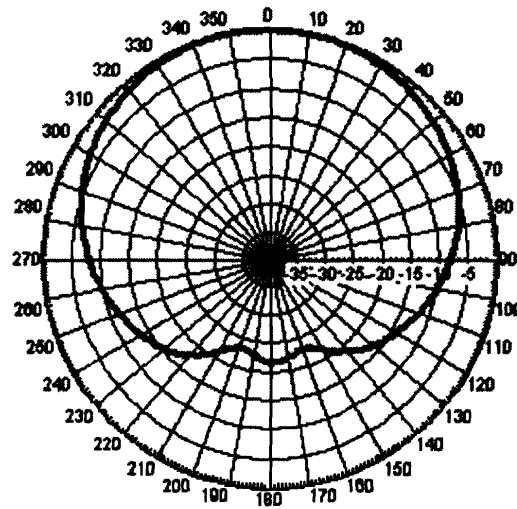


# DB876G105AXY

Panel Antenna

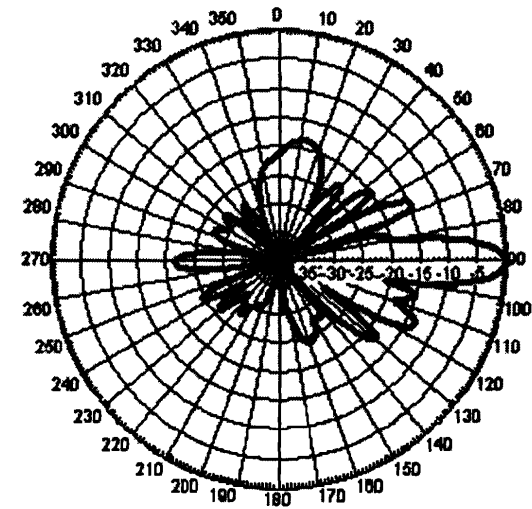
**Decibel®**  
Base Station Antennas

## AZIMUTH PATTERN



Freq: 940 MHz, Tilt: 0

## ELEVATION PATTERN



Freq: 940 MHz, Tilt: 0

Andrew Corporation  
2601 Telecom Parkway  
Richardson, Texas U.S.A 75082-3521  
Tel: 214.631.0310

Fax: 214.631.4706  
Toll Free Tel: 1.800.676.5342  
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10/10/2005  
dbtech@andrew.com

Information correct at date of issue but may be subject to change without notice.



November 21, 2006

Code Enforcement Officer  
City of Portland  
389 Congress Street,  
Portland, ME 04101

- ***RE: Sprint Nextel Wireless facility @ 157 High Street***

Dear Sir or Madam:

On behalf of Sprint Nextel, I am pleased to submit the enclosed building permit application for the removal and installation of radio transmitting and receiving antennas located on the building at 157 High Street.

As described in the enclosed package, Sprint Nextel proposes to replace the existing 12 panel antennas with 12 new panel antennas on the existing tower. The new antennas are slightly larger than existing antennas. Also the new antennas will be mounted on the existing antenna mounts, and there will be no change in height or azimuth.

The following materials are included in this package:

- Building permit application
- Plans showing the existing / proposed equipment (4 sets)
- Copy of Liability Insurance
- Copy of Contractor information
- The existing / proposed antenna specs
- Check for the application fee

Please review the enclosed materials and contact me if you should have any questions or if you should need any additional information.

Thank you for your attention to this matter.

Brad Kent  
Tower Resource Management  
30 Lyman Street, Suite 12  
Westborough, MA 01581  
(781) 718-2761  
Agent to Sprint Nextel

# NEXTEL

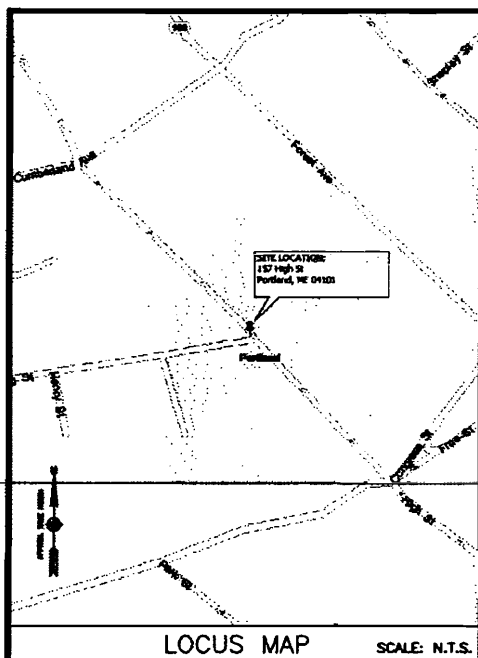
<sup>TM</sup>

## NEXTEL COMMUNICATIONS, INC.

# PORTLAND ME-0429

## 157 HIGH STREET

## PORTLAND, ME 04101



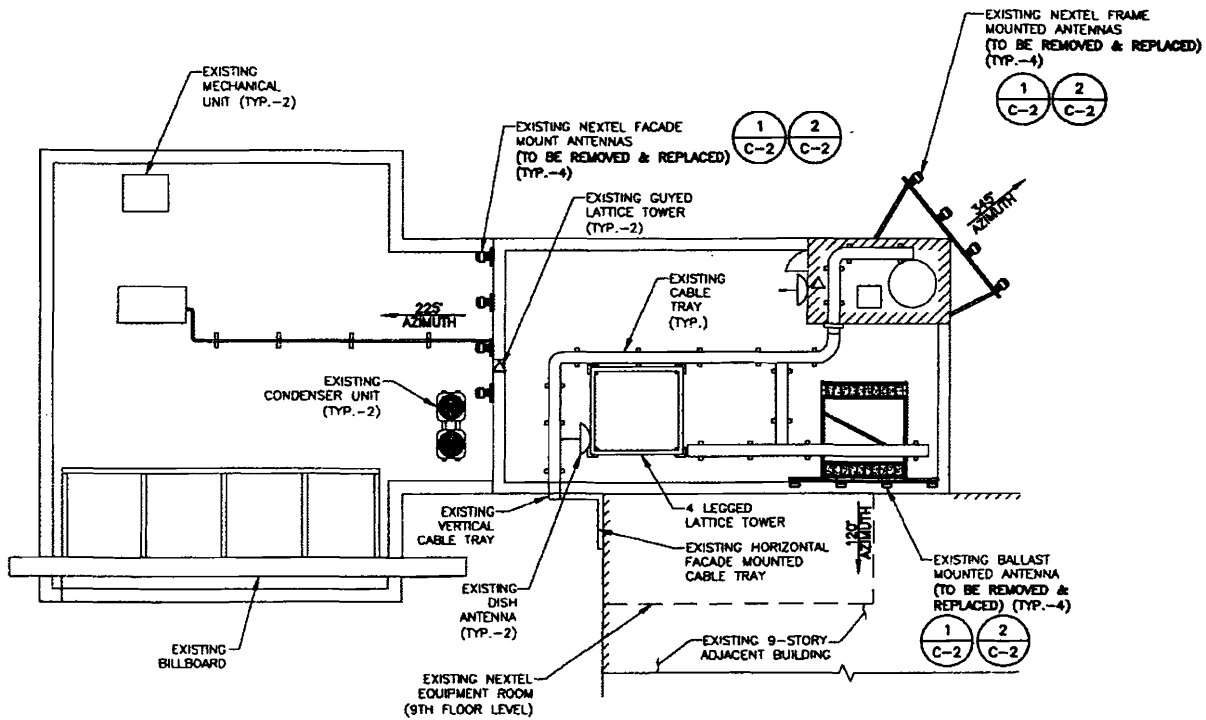
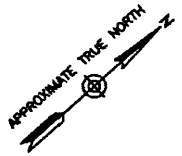
<p><b>ENGINEER</b></p> <p>DEWBERRY 31 ST. JAMES AVE. 3RD FLOOR BOSTON, MA 02116</p> <p>PHONE # (617) 895-3400 FAX # (617) 895-3310</p> <p>CONTACT: ROBERT BOSSELMAN</p>
<p><b>PROJECT DEVELOPER/APPLICANT</b></p> <p>NATIONAL GRID WIRELESS 80 CENTRAL STREET BOXBOROUGH, MA 01719</p> <p>PHONE # (774) 573-9357</p> <p>CONTACT: RON MORESE</p>
<p><b>CONSULTANT TEAM</b></p>

<p><b>SITE NAME:</b> PORTLAND</p> <p><b>SITE NUMBER:</b> ME-0429</p> <p><b>SITE ADDRESS:</b> 157 HIGH STREET PORTLAND, ME 04101</p> <p><b>APPLICANT:</b> NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC. 9 CROSBY DRIVE BEDFORD, MA 01730</p> <p><b>COORDINATES:</b> * LATITUDE: 43° 39' 17" N LONGITUDE: 70° 15' 51" W * PER GOOGLE EARTH</p>
<p><b>PROJECT SUMMARY</b></p> <p>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.</p> <p>A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.</p>

<p>OWNER _____ DATE _____</p> <p>NEXTEL R.F. ENGINEER _____ DATE _____</p> <p>NEXTEL CONSTRUCTION _____ DATE _____</p> <p>NEXTEL SITE ACQUISITION _____ DATE _____</p> <p>NEXTEL FIELD OPERATIONS _____ DATE _____</p> <p>NATIONAL GRID WIRELESS _____ DATE _____</p>
<p>THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.</p> <p><b>APPROVALS</b></p>
<p>1. THE PROJECT CONSISTS OF THE REMOVAL AND REPLACE OF TWELVE (12) EXISTING ANTENNAS (4 PER SECTOR) + TWELVE (12) NEW ANTENNAS. THE MOUNTING EQUIPMENT NOT CHANGE. AN EXISTING EQUIPMENT ROOM IS LOCATED WITHIN THE BUILDING. THE SYSTEM WILL BOTH TRANSMIT AND RECEIVE RADIO SIGNALS.</p> <p><b>PROJECT DESCRIPTION</b></p>

**DIRECTIONS FROM BEDFORD:**

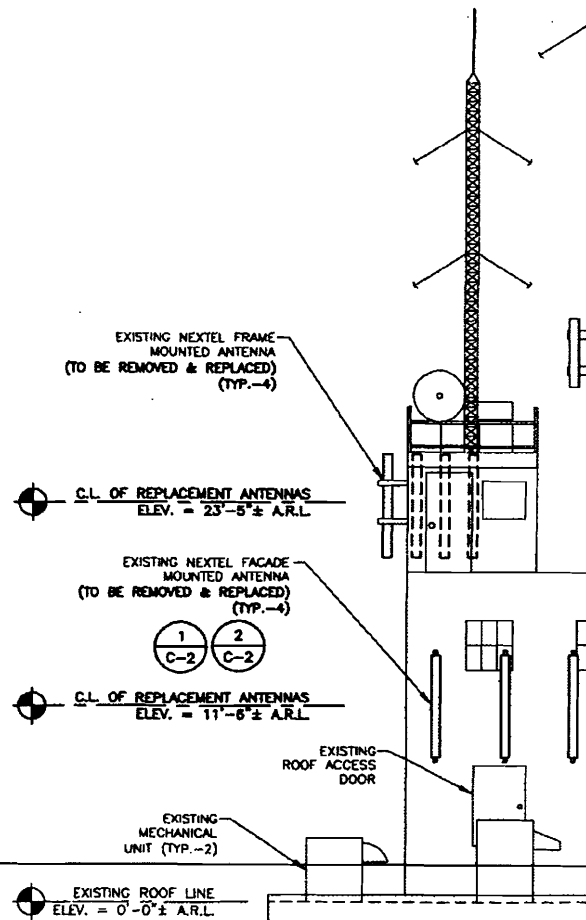
HEAD SOUTH ON CROSBY DRIVE TOWARD BURLINGTON RD./RT. 62.  
MERGE ONTO RT. 3 S. KEEP RIGHT TO TAKE THE LOWELL CONNECTOR  
NORTH (EXIT 30 A-B) TOWARD I-495 N. MERGE ONTO I-495 N VIA  
(EXIT 30 A-B) TOWARD LAWRENCE, RT. 495 BECOMES RT. 95 N. FOLLOW FOR  
APPROXIMATELY 60 MILES TO I-295 N VIA EXIT 44 TOWARD S. PORTLAND.  
FOLLOW FOR APPROXIMATELY 5 MILES TO FOREST AVE./US-RT-15 (EXIT 6A)  
TURN RIGHT ONTO CONGRESS ST. TURN RIGHT ONTO HIGH ST.



**SITE PLAN**  
SCALE: 1/8"=1'-0"



1



**ANTENNA NOTES:**

1. REPLACEMENT ANTENNA AND PIPE MOUNT MUST NOT INTERFERE WITH EXISTING DOORWAY.
2. CONTRACTOR TO INSTALL ANTENNA SO THAT THE BOTTOM OF ANTENNA REMAINS ABOVE THE EXISTING DOORWAY HEADER.

**NOTES:**

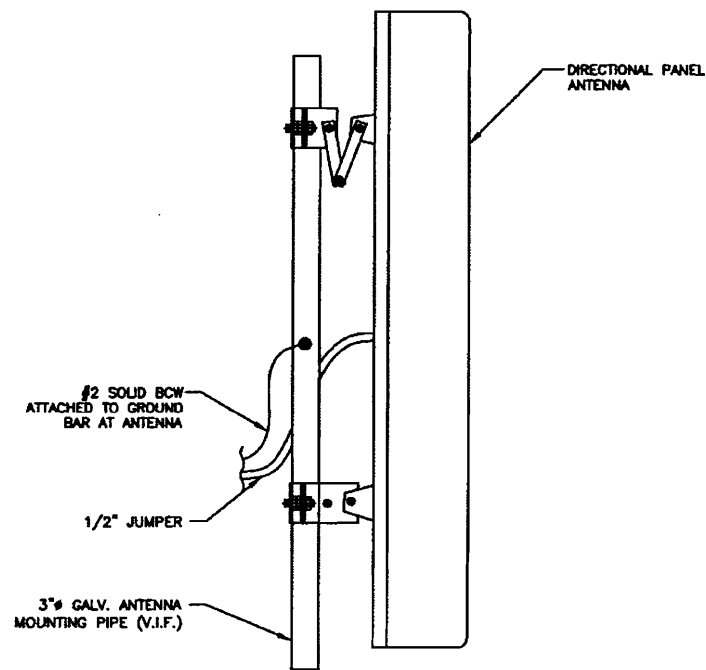
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2. SOME PROPOSED AND EXISTING EQUIPMENT NOT SHOWN FOR CLARITY.
3. NORTH ARROW SHOWN AS APPROXIMATE AND SHOULD BE FIELD VERIFIED.

EXISTING CONFIGURATION							
	ANTENNA MODEL	ORIENT.	# ANTS	RC (APPROX.)	DT	LENGTH	WIDTH
SECTOR 1	2980.006/2980.016	345	4	167	OE (DM)	68	9.3
SECTOR 2	2980.006/2980.016	120	4	167	OE (DM)	68	9.3
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PROPOSED CONFIGURATION							
	ANTENNA MODEL	ORIENT.	# ANTS	RC (APPROX.)	DT	LENGTH	WIDTH
SECTOR 1	DBB76G105A-XY	345	4	167	OE (DM)	72	10.5
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**ELEVATION**  
SCALE: 3/16"=1'-0"



A.R.L. = ABOVE ROOF LEVEL  
C.L. = CENTERLINE



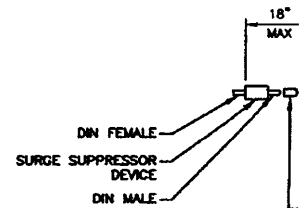
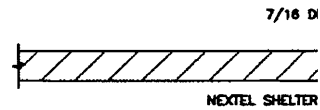
**NOTE:**

1. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING MOUNTS AND REPLACE OR REPAIR AS NEEDED.

**TYPICAL ANTENNA CONNECTION**

SCALE: N.T.S.

1



**NOTES:**

1. COAX C REFER 1 AND CO
2. COLOR-  
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3. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
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# NEXTEL

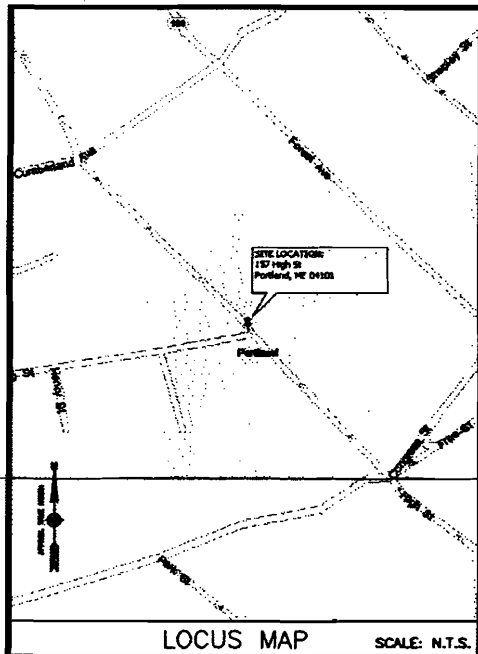


## NEXTEL COMMUNICATIONS, INC.

# PORTLAND ME-0429

## 157 HIGH STREET

## PORTLAND, ME 04101



### ENGINEER

DEWBERRY  
31 ST. JAMES AVE.  
3RD FLOOR  
BOSTON, MA 02116  
PHONE # (817) 695-3400  
FAX # (817) 695-3310  
CONTACT: ROBERT BOSSELMAN

### PROJECT DEVELOPER/APPLICANT

NATIONAL GRID WIRELESS  
80 CENTRAL STREET  
BOXBOROUGH, MA 01719  
PHONE # (774) 573-9357  
CONTACT: RON MORESE

### CONSULTANT TEAM

### SITE NAME:

PORTLAND

### SITE NUMBER:

ME-0429

### SITE ADDRESS:

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PORTLAND, ME 04101

### APPLICANT:

NEXTEL COMMUNICATIONS  
OF THE MID-ATLANTIC, INC.  
9 CROSBY DRIVE  
BEDFORD, MA 01730

### COORDINATES \*

LATITUDE: 43° 39' 17" N  
LONGITUDE: 70° 15' 51" W

\* PER GOOGLE EARTH

### PROJECT SUMMARY

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OWNER	DATE
NEXTEL R.F. ENGINEER	DATE
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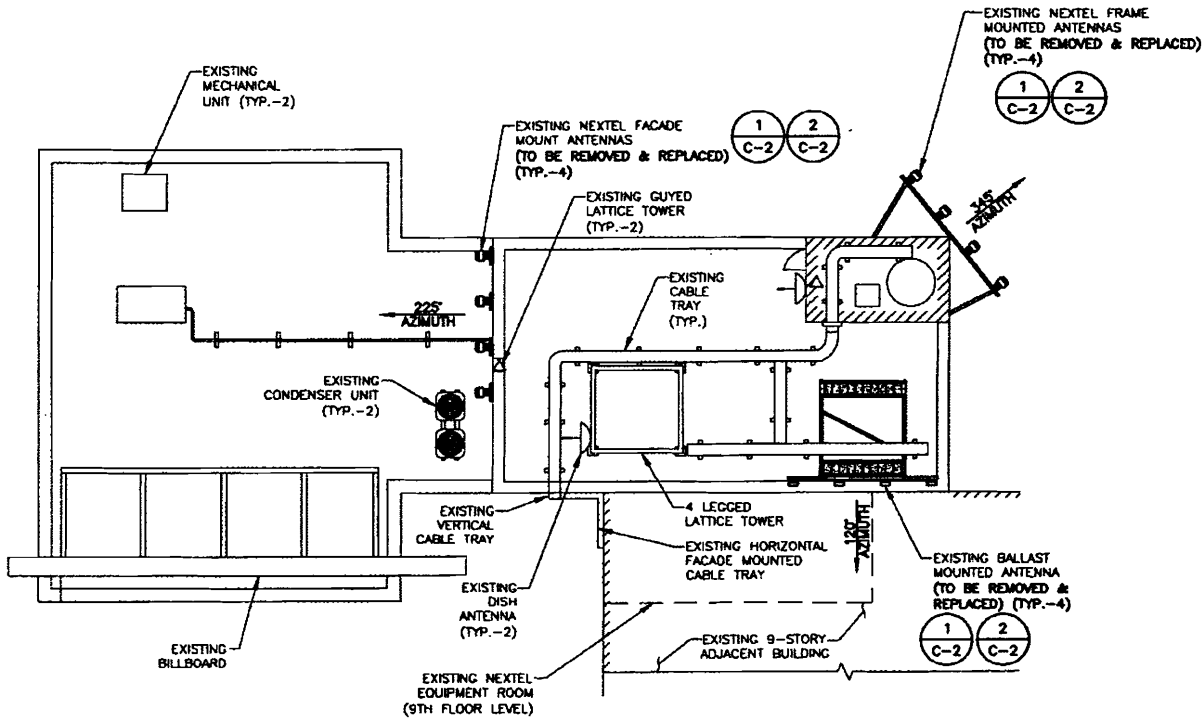
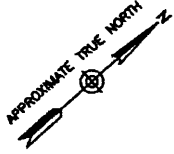
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### PROJECT DESCRIPTION

### DIRECTIONS FROM BEDFORD:

HEAD SOUTH ON CROSBY DRIVE TOWARD BURLINGTON RD./RT. 62.  
MERGE ONTO RT. 3 S. KEEP RIGHT TO TAKE THE LOWELL CONNECTOR  
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APPROXIMATELY 80 MILES TO I-295 N VIA EXIT 44 TOWARD S. PORTLAND.  
FOLLOW FOR APPROXIMATELY 5 MILES TO FOREST AVE./US-RT-15 (EXIT 6A)  
TURN RIGHT ONTO CONGRESS ST. TURN RIGHT ONTO HIGH ST.



**SITE PLAN**  
SCALE: 1/8"=1'-0"



C.L. OF REPLACEMENT ANTENNAS  
ELEV. = 23'-5" ± A.R.L.

EXISTING NEXTEL FACADE  
MOUNTED ANTENNA  
(TO BE REMOVED & REPLACED)  
(TYP.-4)

1 2  
C-2 C-2

C.L. OF REPLACEMENT ANTENNAS  
ELEV. = 11'-8" ± A.R.L.

EXISTING ROOF ACCESS  
DOOR

EXISTING MECHANICAL  
UNIT (TYP.-2)

EXISTING ROOF LINE  
ELEV. = 0'-0" ± A.R.L.

**ANTENNA NOTES:**

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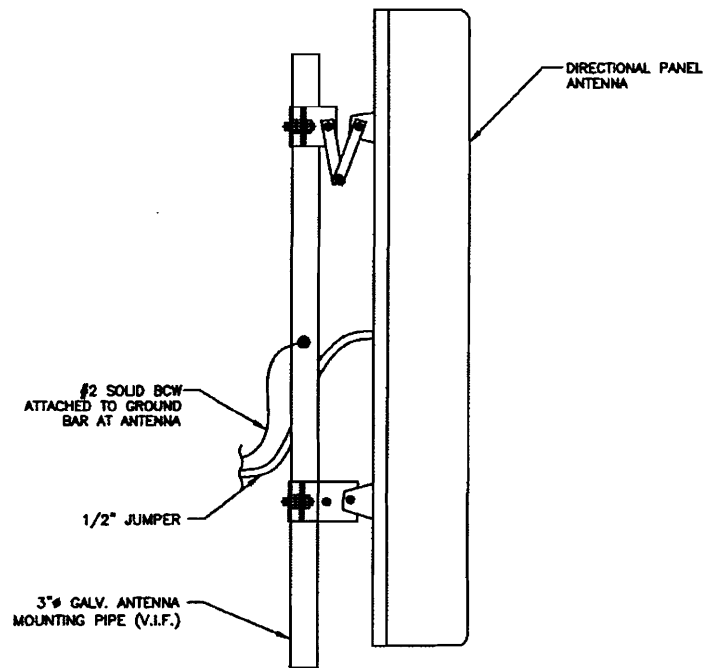
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**ELEVATIO**  
SCALE: 3/16"=1'-0"



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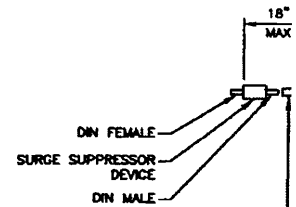
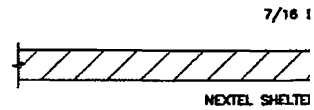
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**TYPICAL ANTENNA CONNECTION**

SCALE: N.T.S.

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- AT 1  
- TO 1  
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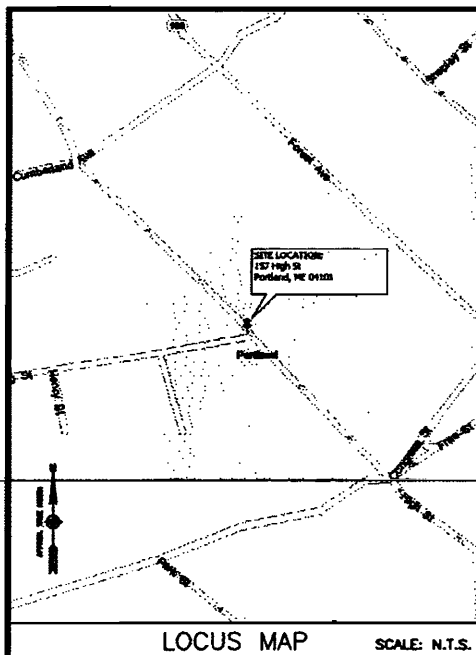


## NEXTEL COMMUNICATIONS, INC.

# PORTLAND ME-0429

## 157 HIGH STREET

## PORTLAND, ME 04101



LOCUS MAP

SCALE: N.T.S.

### ENGINEER

DEWBERRY  
31 ST. JAMES AVE.  
3RD FLOOR  
BOSTON, MA 02116

PHONE # (617) 695-3400  
FAX # (617) 695-3310

CONTACT: ROBERT BOSSELMAN

### PROJECT DEVELOPER/APPLICANT

NATIONAL GRID WIRELESS  
80 CENTRAL STREET  
BOXBOROUGH, MA 01719

PHONE # (774) 573-9357

CONTACT: RON MORESE

CONSULTANT TEAM

### SITE NAME:

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### COORDINATES \*

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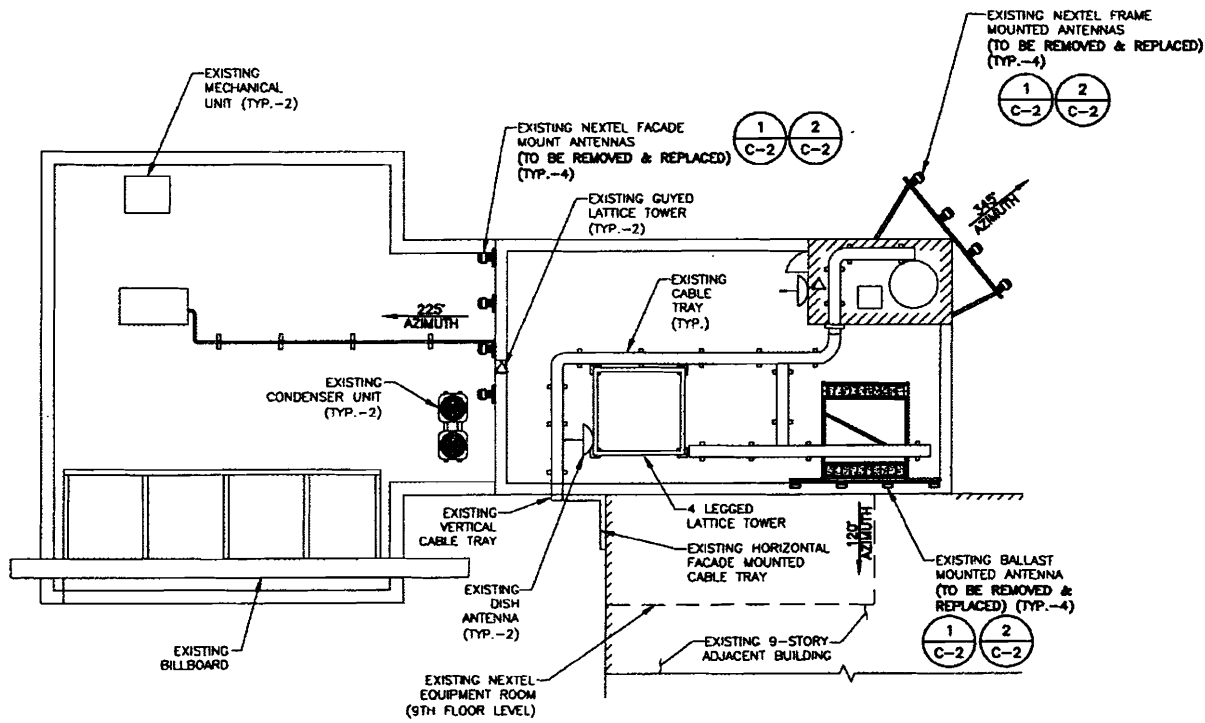
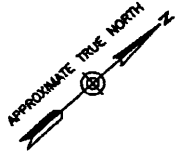
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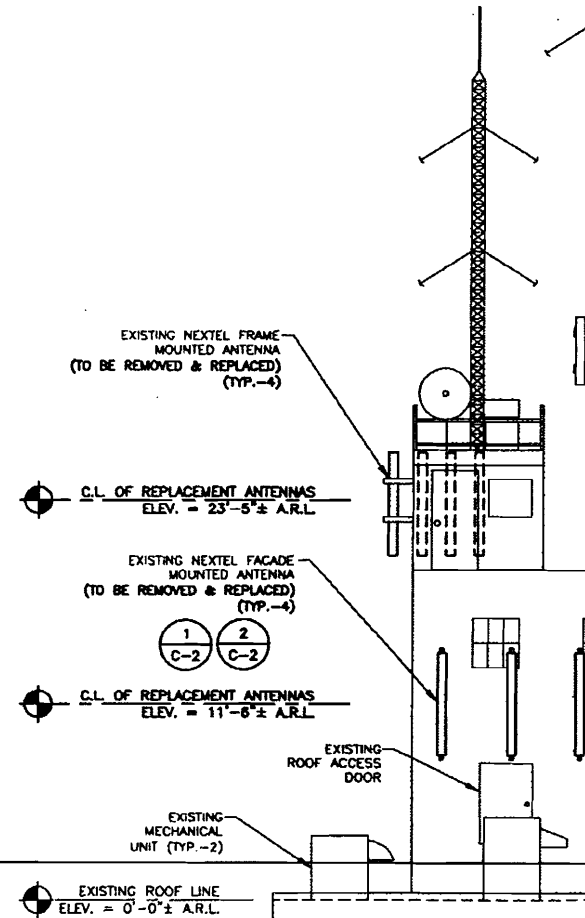
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**SITE PLAN**  
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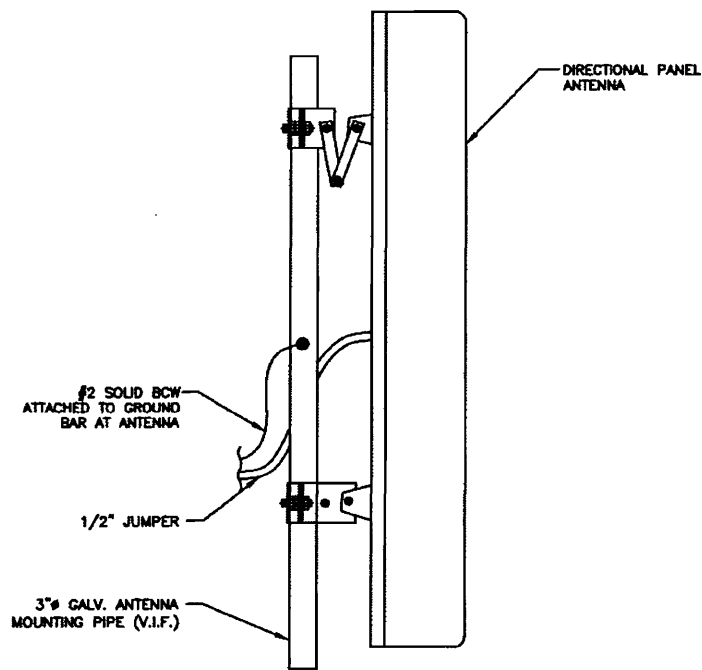
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**ELEVATIC**  
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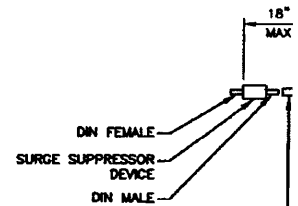
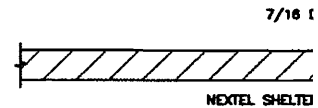
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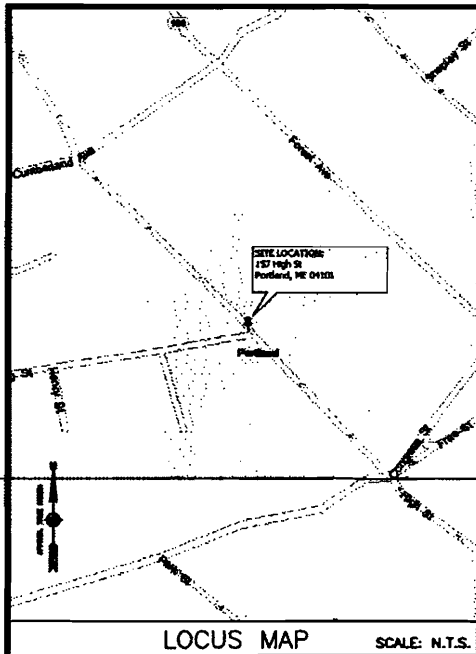


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# PORTLAND ME-0429

## 157 HIGH STREET

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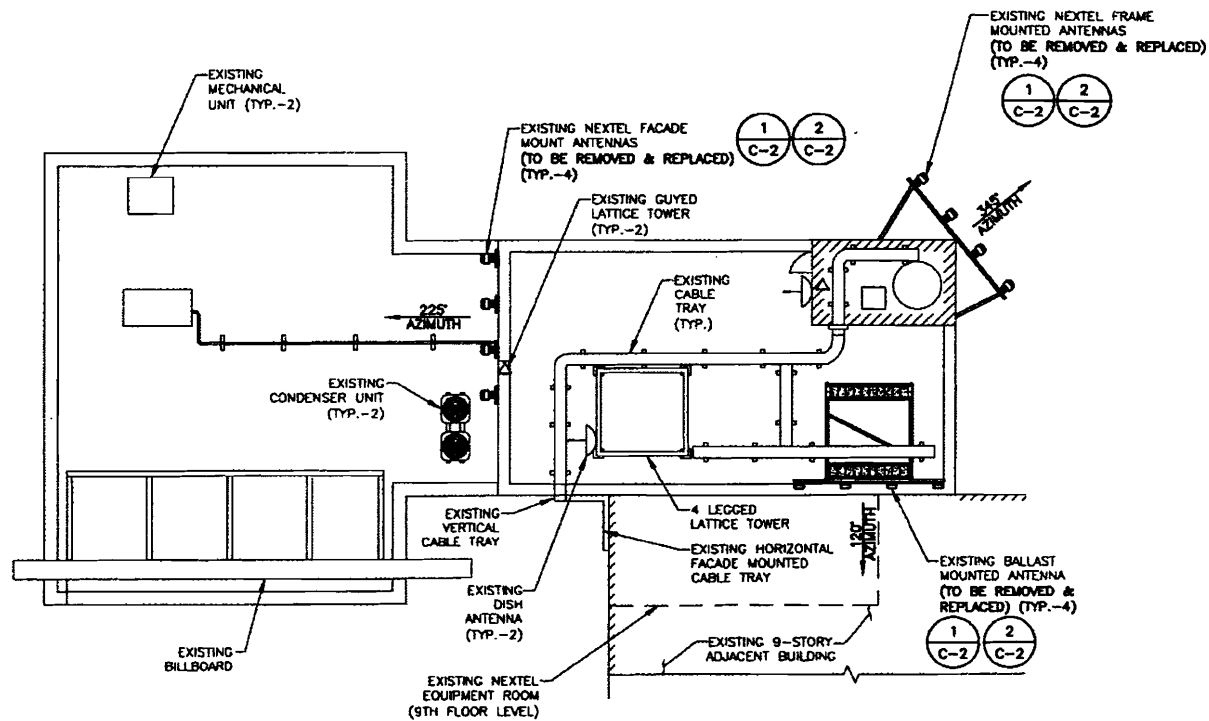
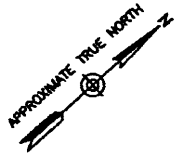
#### APPROVALS

THE PROJECT CONSISTS OF THE REMOVAL AND REPLACE OF TWELVE (12) EXISTING ANTENNAS (4 PER SECTOR) WITH TWELVE (12) NEW ANTENNAS. THE MOUNTING EQUIPMENT NOT CHANGE. AN EXISTING EQUIPMENT ROOM IS LOCATED WITHIN THE BUILDING. THE SYSTEM WILL BOTH TRANSMIT AND RECEIVE RADIO SIGNALS.

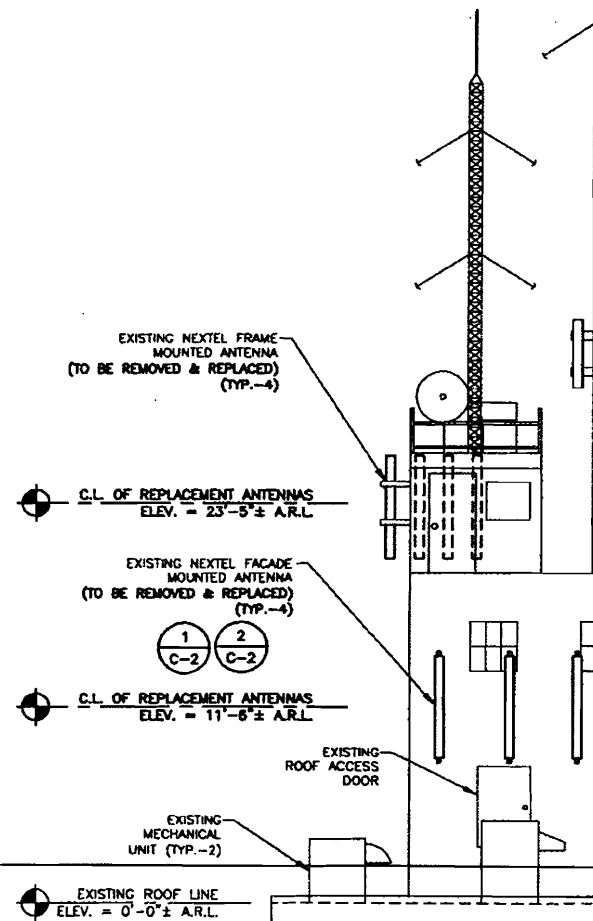
#### PROJECT DESCRIPTION

#### DIRECTIONS FROM BEDFORD:

HEAD SOUTH ON CROSBY DRIVE TOWARD BURLINGTON RD./RT. 62.  
MERGE ONTO RT. 3 S. KEEP RIGHT TO TAKE THE LOWELL CONNECTOR  
NORTH (EXIT 30 A-B) TOWARD I-495 N. MERGE ONTO I-495 N VIA  
(EXIT 30 A-B) TOWARD LAWRENCE RT. 495 BECOMES RT. 95 N. FOLLOW FOR  
APPROXIMATELY 60 MILES TO I-295 N VIA EXIT 44 TOWARD S. PORTLAND.  
FOLLOW FOR APPROXIMATELY 5 MILES TO FOREST AVE./US-RT-15 (EXIT 6A)  
TURN RIGHT ONTO CONGRESS ST. TURN RIGHT ONTO HIGH ST.



**SITE PLAN**  
SCALE: 1/8"=1'-0"



**ANTENNA NOTES:**

1. REPLACEMENT ANTENNA AND PIPE MOUNT MUST NOT INTERFERE WITH EXISTING DOORWAY.
2. CONTRACTOR TO INSTALL ANTENNA SO THAT THE BOTTOM OF ANTENNA REMAINS ABOVE THE EXISTING DOORWAY HEADER.

**NOTES:**

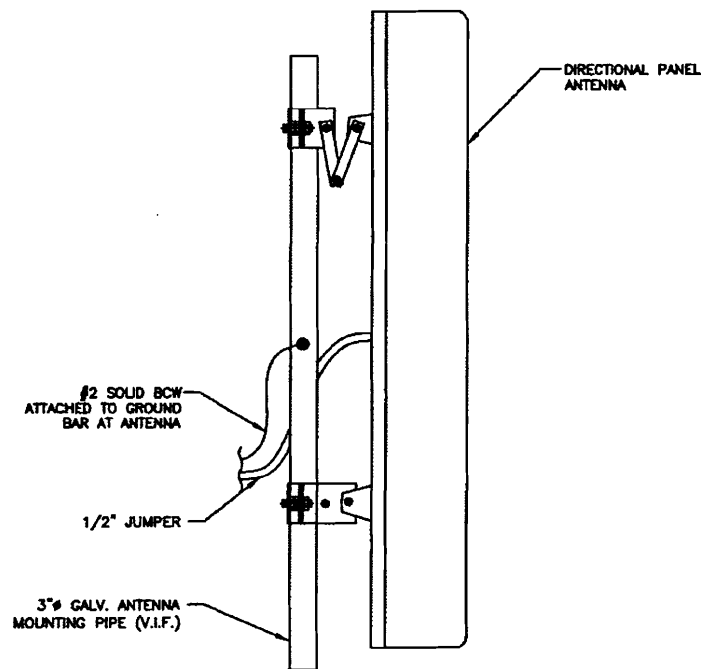
1. ALL EXISTING ANTENNAS SHOWN ILLUSTRATIVELY ONLY.
2. SOME PROPOSED AND EXISTING EQUIPMENT NOT SHOWN FOR CLARITY.
3. NORTH ARROW SHOWN AS APPROXIMATE AND SHOULD BE FIELD VERIFIED.

EXISTING CONFIGURATION							
	ANTENNA MODEL	ORIENT.	# ANTS	RC (APPROX.)	DT	LENGTH	WIDTH
SECTOR 1	2980.006/2980.016	345	4	167	OE (OM)	68	9.3
SECTOR 2	2980.006/2980.016	120	4	167	OE (OM)	68	9.3
SECTOR 3	2980.006/2980.016	225	4	167	OE (OM)	68	9.3
PROPOSED CONFIGURATION							
	ANTENNA MODEL	ORIENT.	# ANTS	RC (APPROX.)	DT	LENGTH	WIDTH
SECTOR 1	DBB76G105A-XY	345	4	167	OE (OM)	72	10.5
SECTOR 2	DBB76G105A-XY	120	4	167	OE (OM)	72	10.5
SECTOR 3	DBB76G105A-XY	225	4	167	OE (OM)	72	10.5

**ELEVATION**  
SCALE: 3/16"=1'-0"



A.R.L. = ABOVE ROOF LEVEL  
C.L. = CENTERLINE



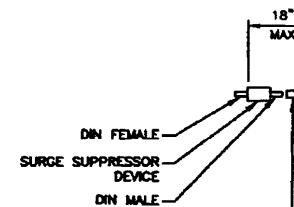
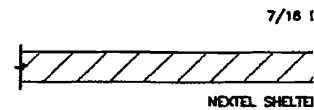
**NOTE:**

1. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING MOUNTS AND REPLACE OR REPAIR AS NEEDED.

**TYPICAL ANTENNA CONNECTION**

SCALE: N.T.S.

1



**NOTES:**

1. COAX (REFER AND C)
2. COLOR-  
- AT 1  
- TO 2  
- AT 3  
- INSH  
- AT 4
3. RADIUS MANUFA

**TYPICAL**  
SCALE: N.T.S.

**GENERAL NOTES:**

1. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES AND O.S.H.A.
2. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
3. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
4. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
5. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
7. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
8. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
9. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
10. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
11. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
12. PAINT ALL NEWLY INSTALLED EQUIPMENT TO MATCH EXISTING PER LANDLORD SPECIFICATIONS.
13. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.