

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

HILL FREDERICK WILBUR & JUDITH STEVENS HILL
TRUSTE/Netcom Wireless Facilities

PERMIT ID: 2013-00148

Located at

340 EASTERN PROMENADE

CBL: 015 A002001

has permission to **PERMIT FOR WHOLE DEVELOPMENT; Install and upgrade wireless antenna, cable, etc.replace with fiber optics**

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

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise cloosed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
THERE IS A PENALTY FOR REMOVING THIS CARD**

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 (ONLY)
or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

REQUIRED INSPECTIONS:

Electrical Close-in

Final - Electric

Final - Commercial

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

City of Portland, Maine - Building or Use Permit

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

Permit No:	Date Applied For:	CBL:
2013-00148	01/24/2013	015 A002001

Location of Construction:	Owner Name:	Owner Address:	Phone:
340 EASTERN PROMENADE	HILL FREDERICK WILBUR & JU	5722 SPRINGTON LN	
Business Name:	Contractor Name:	Contractor Address:	Phone
Promenade East Condominiums	Netcom Wireless Facilities	10 Aevo Park Drive Unit 3 Plymouth	(508) 732-0020
Lessee/Buyer's Name	Phone:	Permit Type:	
		Alterations - Commercial	

Proposed Use:	Proposed Project Description:
Same: 80 residential condominiums	PERMIT FOR WHOLE DEVELOPMENT; Install and upgrade wireless antenna, cable, etc.replace with fiber optics

Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 01/24/2013
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Building	Status: Approved w/Conditions	Reviewer: Jeanie Bourke	Approval Date: 02/27/2013
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.			
2) Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.			
3) The installation shall comply with the wind load requirements of the IBC 2009 and ASCE 7-05			
4) Permit approved based upon information provided by the applicant or design professional. Any deviation from approved plans requires separate review and approval prior to work.			
Dept: Fire	Status: Not Applicable	Reviewer:	Approval Date:
Note:			Ok to Issue: <input type="checkbox"/>

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2013-00148	Issue Date:	CBL: 015 A002001
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Location of Construction: 340 EASTERN PROMENADE	Owner Name: HILL FREDERICK WILBUR & JUDITH STEVENS HILL TRUST	Owner Address: 5722 SPRINGTON LN SPRING, TX 77379	Phone:
Business Name: Promenade East Condominiums	Contractor Name: Netcom Wireless Facilities	Contractor Address: 10 Aevo Park Drive Unit 3 Plymouth MA 02360	Phone: (508) 732-0020
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: R6
Past Use: 80 residential condominiums	Proposed Use: Same: 80 residential condominiums	Permit Fee: \$170.00	Cost of Work: \$15,000.00
Proposed Project Description: PERMIT FOR WHOLE DEVELOPMENT; Install and upgrade wireless antenna, cable, etc.replace with fiber optics		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	INSPECTION: Use Group: R-2 Type: Telecommunication MUBEL 2009 Signature: JMB 2/27/13
		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: bjs	Date Applied For: 01/24/2013	Zoning Approval		
<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. 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.. 		Special Zone or Reviews <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"/> Date: 1/24/13	Zoning Appeal <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:	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:

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>340 Eastern Promenade</u>			340 Eastern Promenade Eastern Prom		
Total Square Footage of Proposed Structure/Area			Square Footage of Lot		
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#		Applicant *must be owner, Lessee or Buyer*		Telephone:	
015- A004 (A002) 001		Name Sprint Address 1 International Blvd Suite 800 City, State & Zip Mahwah, NJ 07495		978-828-3264 Kristen LeDuc Agent Sprint	
Lessee/DBA (If Applicable)		Owner (if different from Applicant)		Cost Of Work: \$	
RECEIVED JAN 23 2013 Dept. of Building Inspections City of Portland, Maine		Name Promenade East Condo Assoc. Address 340 Eastern Promenade City, State & Zip Portland, ME 04101		15,000	
Current legal use (i.e. single family home)		If vacant, what was the previous use?		C of O Fee: \$	
Condo		N/A		-	
Proposed Specific use:		Total Fee: \$			
Wireless Communication Modification - Unmanned		170.00			
Is property part of a subdivision?		Project description:			
N/A		Install Fiber Dist. box w/in lease area. Replace existing antennas. Replace existing GPS Antenna. Replace existing coax cable w/ Hybrid Flex cables. Replace equipment cabinets. Replace local exchange carrier w/ Fiber Optics.			
Contractor's name: Charles B. Anti, Netcom Wireless Facilities 2					
Address: 10 Aero Park Dr. Unit 3					
City, State & Zip Plymouth, MA 02360				Telephone: 508 732-0020	
Who should we contact when the permit is ready: Kristen LeDuc				Telephone: 978-828-3264	
Mailing address: 8 Brentwood Cr. Danvers, MA 01923					

Please submit all of the information outlined on the applicable 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 or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division 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: Kristen LeDuc

Date: 1/4/13

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

Paul - pls ltr
NETWORK BUILDING
& CONSULTING, LLC
Over 25 years experience
for fin
Ama
Thy
H

Certified Mail

September 10, 2012

Promenade East Condominium Association, Inc.
340 Eastern Promenade
Portland, ME 04101
ATTN: Marco De Salle*

RE: PCS Site Agreement between Promenade East Condominium Association, Inc. ("Owner") and Sprint Spectrum L.P. ("SSLP"), dated July 26, 2000 and Amended by Rider to PCS Site Agreement with respect to the real property located at 340 Eastern Promenade, Portland, ME 04101. Cascade No. BS43XC827.

Dear Marco:*

This letter is to advise you that it will be necessary within the near future for Sprint Nextel to make certain physical modifications to equipment within Tenant's premises at the Site. These improvements are being undertaken in order to ensure the continued technical and economic feasibility of Tenant's facility, and are needed for Tenant to make optimal use of the Site for the purposes intended by the Site Agreement. As described below, these modifications should have no significant impact on Landlord's property or operations. However, in accordance with the Site Agreement, Tenant requests that Landlord acknowledge notice of, and consent to, the following modifications:

Swap out of obsolete electronics cabinets, antenna and other equipment at the site. This may include replacement of cabling and mounting apparatus and the temporary redundancy of equipment within the leased area necessary for testing of the new equipment for up to 12 months.

Landlord's acknowledgement of notice and consent will not increase the size or amount of space being used by Tenant under the Site Agreement unless specifically stated above.

Please indicate your acknowledgement and consent by signing below and returning one copy of this letter to me at the address set forth below.

Thank you in advance for your prompt attention to this matter.

Regards,

By: David Hoogasian

David Hoogasian
Site Acquisition
(508) 344-3343

dhoogasian@nbcllc.com

Network Building & Consulting, LLC; an authorized representative of Sprint Nextel
49 Butler St., Worcester, MA 01607

ACKNOWLEDGED AND AGREED TO:

Promenade East Condominium Association, Inc.

Printed Name: BRUCE HOPKINS

Title: RMT MANAGER, DIRECTOR

Date: 9/10, 2012

* Please Change Name
Marco DeSalle is no
longer here. Thx.

BRUCE HOPKINS - Dir
Promenade East Condominium Assn.
340 Eastern Promenade
Portland ME 04101

Insurance, with limits of not less than \$1,000,000 combined single limit per occurrence for bodily injury and property damage liability, with a certificate of insurance to be furnished to Owner within 30 days of written request. Such policy will provide that cancellation will not occur without at least 15 days prior written notice to Owner. Each party hereby waives its right of recovery against the other for any loss or damage covered by any insurance policies maintained by the waiving party. Each party will cause each insurance policy obtained by it to provide that the insurance company waives all rights of recovery against the other party in connection with any damage covered by such policy.

18. Maintenance. SSLP will be responsible for repairing and maintaining the PCS system and any other improvements installed by SSLP at the Site in a proper operating and reasonably safe condition; provided, however if any such repair or maintenance is required due to the acts of Owner, its agents or employees, Owner shall reimburse SSLP for the reasonable costs incurred by SSLP to restore the damaged areas to the condition which existed immediately prior thereto. Owner will maintain and repair all other portions of the property of which the Site is a part in a proper operating and reasonably safe condition.

19. Miscellaneous. (a) This Agreement applies to and binds the heirs, successors, executors, administrators and assigns of the parties to this Agreement; (b) This Agreement is governed by the laws of the State in which the Site is located; (c) SSLP and Owner agree to execute a recordable Memorandum of this Agreement simultaneously with the execution of this Agreement; (d) This Agreement (including the Exhibits) constitutes the entire agreement between the parties and supersedes all prior written and verbal agreements, representations, promises or understandings between the parties. Any amendments to this Agreement must be in writing and executed by both parties; (e) If any provision of this Agreement is invalid or unenforceable with respect to any party, the remainder of this Agreement or the application of such provision to persons other than those as to whom it is held invalid or unenforceable, will not be affected and each provision of this Agreement will be valid and enforceable to the fullest extent permitted by law; and (f) The prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement is entitled to receive its reasonable attorneys' fees and other reasonable enforcement costs and expenses from the non-prevailing party.

The following Exhibits are attached to and made a part of this Agreement: Exhibit A, and Rider.

OWNER: PROMENADE EAST CONDOMINIUM ASSOCIATION, INC.

By: Thomas F. DeBelle

Its: President

S.S./Tax No.: 01-0338743

Address: 340 Eastern Promenade
Portland, Maine 04101

Date: 6-29-30

SPRINT SPECTRUM L.P., a Delaware limited partnership

By: Michael W. Loucy

Name: Michael W. Loucy

Its: Director, Site Development - East

Address: One International Boulevard, Suite 80
Mahwah, NJ 07495

Date: 7/26/00

Attach Exhibit A - Site Description



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/12/12

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER O'Grady Insurance Agency 117 Court Street Plymouth, MA 02360		CONTACT NAME: PHONE (A/C No Ext): FAX (A/C No): E-MAIL: ADDRESS:	
INSURED NETCOM WIRELESS FACILITIES 2, INC. 10 AERO PARK DR, UNIT 3 PLYMOUTH, MA 02360		INSURER(S) AFFORDING COVERAGE INSURER A: ESSEX INSURANCE CO INSURER B: QUINCY MUTUAL INSURER C: TORUS SPECIALTY INS. CO INSURER D: LIBERTY MUTUAL FIRE INS CO INSURER E: INSURER F:	

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY 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, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSUR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	Y Y	3DG5178	11/9/11	11/9/12	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ 1,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 1,000,000
B	AUTOMOBILE LIABILITY ANY AUTO ALLOWED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y Y	AFV205857	2/22/12	2/22/13	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE	Y Y	85215C120AL1	2/9/12	2/9/13	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/OWNER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N N/A	WC5-31S-375622-022	2/18/12	2/18/13	WC STATUTORY LIMITS EL EACH ACCIDENT \$ 500,000 EL DISEASE - EA EMPLOYEE \$ 500,000 EL DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

COSTROTTO CONSTRUCTION MANAGEMENT INC AND ALL OTHER PARTIES ARE REQUIRED BY CONTRACT ARE INCLUDED AS ADDITIONAL INSURED ON PRIMARY AND NONCONTRIBUTORY BASIS FOR ALL GENERAL LIABILITY AND AUTO LIABILITY. EXCESS LIABILITY FOLLOWS FORM OVER GENERAL LIABILITY, AUTO LIABILITY, AND EMPLOYER LIABILITY. A WAIVER OF SUBROGATION APPLIES TO ALL POLICIES IN FAVOR OF THE ADDITIONAL INSURED

CERTIFICATE HOLDER**CANCELLATION**

	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE PATRICK O'GRADY

ACORD 25 (2010/05)

Phone:

Fax:

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E-Mail:

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**NETWORK BUILDING
& CONSULTING, LLC**

January 18, 2013

Jeanie Bourke, CEO
Building Department
389 Congress Street
Portland, ME 04101

RE: Sprint Site modification at 340 Eastern Promenade, Portland, Maine

Jeanie,

Enclosed please find a Building Permit Application, site plans and related documents for Sprint's modification project at 340 Eastern Promenade. Also, included is a copy of the check and the 1st page of the application could you kindly include a receipt for the check, and a "received" stamp on the 1st page of the application when the building permit is issued.

If you have any questions or comments, please feel free to contact me at the number or email listed below.

Thank you,

Kristen LeDuc

Network Building & Consulting, LLC. an authorized representative of Sprint Nextel

Kristen LeDuc
978-828-3264 Office & Mobile
kleduc@nbcllc.com
8 Brentwood Circle
Danvers, MA 01923



Massachusetts Department of Public Safety
Board of Building Regulations and Standards
Construction Supervisor
License: **CS-094261**



CHARLES B ANTI
100 BARNFIELD DRIVE
PLYMOUTH MA 02360

Thomas H. Hilly
Commissioner

Expiration
10/29/2013



"NETWORK VISION MMBTS LAUNCH"
"MARKET NAME:VT-NH-ME"

SITE NUMBER:
BS43XC827

SITE NAME:

EASTERN PROMENADE

SITE ADDRESS:
340 EASTERN PROMENADE
SCALE: N.T.S.
PORTLAND, ME 04101

NOTE:

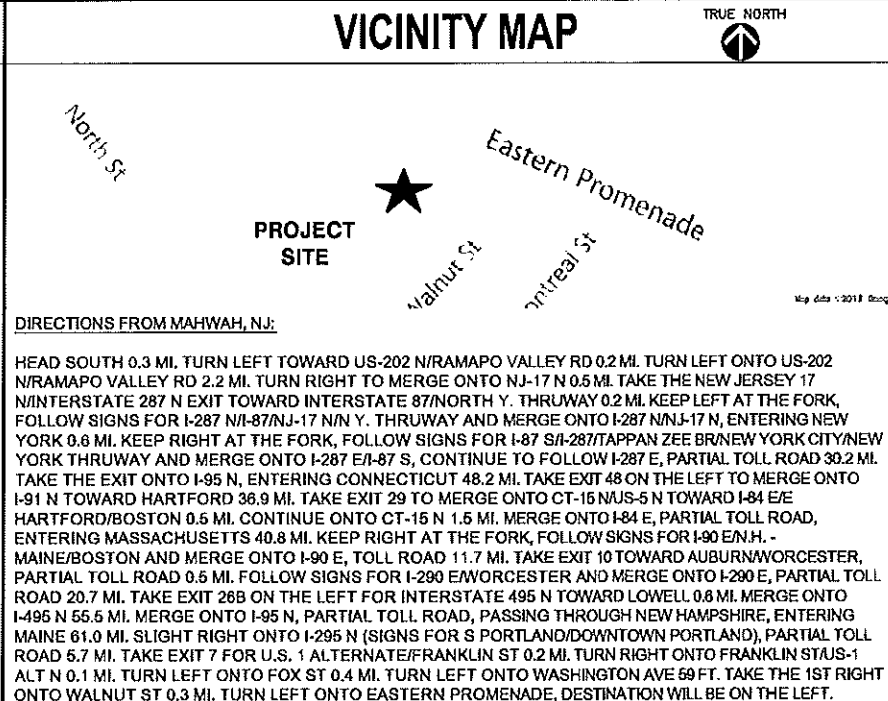
OWNER AND TENANT MAY, FROM TIME TO TIME AT TENANT'S OPTION, REPLACE THIS EXHIBIT WITH AN EXHIBIT SETTING FORTH THE LEGAL DESCRIPTION OF THE SITE, OR WITH ENGINEERED OR AS-BUILT DRAWING DEPICTING THE SITE OR ILLUSTRATING STRUCTURAL MODIFICATIONS OR CONSTRUCTION PLANS OF THE SITE. ANY VISUAL OR TEXTUAL REPRESENTATION OF THE EQUIPMENT LOCATED WITHIN THE SITE CONTAINED IN THESE OTHER DOCUMENTS IS ILLUSTRATIVE ONLY, AND DOES NOT LIMIT THE RIGHTS OF SPRINT AS PROVIDED FOR IN THE AGREEMENT. THE LOCATIONS OF ANY ACCESS AND UTILITY EASEMENTS ARE ILLUSTRATIVE ONLY. ACTUAL LOCATIONS MAY BE DETERMINED BY TENANT AND/OR THE SERVICING UTILITY COMPANY IN COMPLIANCE WITH LOCAL LAWS AND REGULATIONS.



SITE INFORMATION

SITE NUMBER:	BS43XC827	LOCAL POWER COMPANY:	CENTRAL MAINE POWER COMP. 83 EDISON DRIVE AUGUSTA, ME 04336 1-(800)-565-3181
SITE NAME:	EASTERN PROMENADE	LOCAL TELCO COMPANY:	FAIRPOINT 521 EAST MOREHEAD STREET SUITE 500 CHARLOTTE, NC 28202 1-(866)-984-3001
SITE ADDRESS:	340 EASTERN PROMENADE PORTLAND, ME 04101	APPLICANT:	SPRINT 1 INTERNATIONAL BLVD, SUITE 800 MAHWAH, NJ 07495
COUNTY:	CUMBERLAND	APPLICANT REPRESENTATIVE:	ALCATEL-LUCENT 1 ROBBINS ROAD WESTFORD, MA 01886 (978)952-1600
ZONING:	R6 - RESIDENTIAL	SITE ACQUISITION CONSULTANT:	ALCATEL-LUCENT 1 ROBBINS ROAD WESTFORD, MA 01886 (978)952-1600
PARCEL ID:	015-A004	A&E CONSULTANT:	HUDSON DESIGN GROUP LLC 1600 OSGOOD STREET BLDG 20 NORTH, SUITE 3090 NORTH ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586
COORDINATES:	N 43° 40' 12.9" W 70° 15' 02.36"		
GROUND ELEV.:	119.4± (AMSL)		
STRUCTURE TYPE:	ROOFTOP		
STRUCTURE HEIGHT:	111.5± (AGL)		
ANTENNA RAD CENTER:	110.3± (AGL)		
PROPERTY OWNER:	PROMENADE EAST CONDOMINIUM ASSOCIATION 340 EASTERN PROMENADE PORTLAND, ME 04101		

VICINITY MAP



SCOPE OF WORK
1. INSTALL FIBER DISTRIBUTION BOX WITHIN EXISTING LEASE AREA. REPLACE EXISTING MODCELL CABINET WITH NEW BTS CABINET & REPLACE EXISTING BBU WITH (2) BBU CABINETS.
2. REMOVE (6) EXISTING CDMA ANTENNAS REPLACE WITH (3) NETWORK VISION ANTENNAS & (6) RRH'S.
3. REMOVE EXISTING CDMA COAX CABLES & INSTALL (3) HYBRIFLEX CABLES FROM EQUIPMENT CABINET TO ANTENNA.
4. REMOVE EXISTING GPS ANTENNA AND REPLACE WITH NEW GPS ANTENNA.
5. EXISTING LOCAL EXCHANGE CARRIER LANDLINE BACKHAUL FACILITIES TO BE REPLACED WITH PROPOSED ALTERNATIVE ACCESS VENDOR (AAV) FIBER OPTIC FACILITIES INCLUDING PROPOSED OVERHEAD/UNDERGROUND CONDUITS AND NETWORK INTERFACE DEVICE.

SHEET INDEX

SHEET NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	ROOF PLAN & EQUIPMENT PLAN
A-2	ELEVATION
A-3	ANTENNA SCENARIO
A-4	DETAILS
A-5	RF DATA SHEET
A-6	CABINET & ANTENNA WIRING DIAGRAM
S-1	STRUCTURAL DETAILS
S-2	STRUCTURAL DETAILS
E-1	TYPICAL POWER & GROUNDING ONE LINE DIAGRAM
AAV	SEE AAV SHEETS

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

SPRINT:	DATE:
ALU CONSTRUCTION MANAGER:	DATE:
ALU LEASING/ SITE ACQUISITION:	DATE:
ALU RF ENGINEER:	DATE:
LANDLORD/ PROPERTY OWNER:	DATE:

GENERAL NOTES

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION:
-HANDICAPPED ACCESS NOT REQUIRED
- POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED
- NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
BUILDING CODE: IBC 2009
ELECTRICAL CODE: 2005 NATIONAL ELECTRICAL CODE
STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
DIG SAFE: NEW HAMPSHIRE ONE CALL SYSTEM 1-(888)-344-7233 OR DIAL 811

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	01/07/13	FOR CONSTRUCTION	BR
1	11/29/12	ISSUED FOR REVIEW	SF

SITE NUMBER:
BS43XC827
SITE NAME:
EASTERN PROMENADE
SITE ADDRESS:
**340 EASTERN PROMENADE
PORTLAND, ME 04101**

SHEET TITLE
TITLE SHEET
SHEET NUMBER
T-1

DIVISION 01000 -- GENERAL REQUIREMENTS

PART 1 - GENERAL

REFER TO SPRINT STANDARD CONSTRUCTION SPECIFICATIONS. IN CASE OF A CONFLICT, SPRINT STANDARD CONSTRUCTION SPECIFICATIONS (LATEST EDITION) SHALL BE FOLLOWED.

PART 2 - GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) SPRINT'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE OF ALL PERSONNEL INVOLVED WITH THE PROJECT.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SITE CONDITIONS DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE ALL UNNECESSARY MATERIAL.
- THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE STATE BASIC BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL NOTIFY SPRINT'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED BY SPRINT'S REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- THE CONTRACTOR SHALL NOTIFY THE RF ENGINEER FOR ANTENNA AZIMUTH VERIFICATION (DURING ANTENNA INSTALLATION) PRIOR TO CONDUCTING SITE SWEEEPING.
- THE GENERAL CONTRACTOR SHALL IN ALL INSTANCES CONFORM TO THE SPECIFICATIONS ISSUED BY SPRINT.
- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT STRUCTURAL ENGINEER'S APPROVAL. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE FIRE AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

CONCRETE

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.01 DESCRIPTION

WORK INCLUDES CONSTRUCTION OF CAST-IN-PLACE CONCRETE FOUNDATIONS, INCLUDING FURNISHING AND INSTALLING READY-MIX CONCRETE, REINFORCING, FORMWORK, AND ACCESSORY MATERIALS AS SHOWN ON THE DRAWINGS. CAST-IN-PLACE CONCRETE INCLUDES ALL SITE CONCRETE, INCLUDING FOUNDATIONS, SLABS ON GRADE, EQUIPMENT PADS, AND GUARD POST FOUNDATIONS.

1.02 RELATED WORK

A. COORDINATE UNDER SLAB CONDUITS

B. COORDINATE WITH GROUNDING

1.03 APPLICABLE STANDARDS

A. ACI-301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS.

B. ACI 347 - GUIDE TO FORMWORK FOR CONCRETE.

C. ASTM C33 - CONCRETE AGGREGATES

D. ASTM C94 - READY-MIXED CONCRETE

E. ASTM C150 - PORTLAND CEMENT

F. ASTM C260 - AIR-ENTRAINING ADMIXTURES FOR CONCRETE.

G. ASTM C309 - LIQUID MEMBRANE FORMING COMPOUNDS FOR CURING CONCRETE.

H. ASTM C494 - CHEMICAL ADMIXTURES FOR CONCRETE.

I. ASTM A615 - DEFORMED STEEL BARS FOR CONCRETE REINFORCEMENT.

J. ASTM A185 - STEEL WELDED WIRE FABRIC FOR CONCRETE REINFORCEMENT

1.04 QUALITY ASSURANCE

CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER AS DIRECTED BY SPRINT.

1.05 TESTS

CONCRETE TESTS SHALL BE AS DETAILED BELOW OR AS DIRECTED BY SPRINT. CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER AS THE WORK PROGRESSES. FAILURE TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS DISCOVERED NOR SHALL IT OBLIGATE THE ENGINEER FOR FINAL ACCEPTANCE.

A. THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN OF THE TOWER PIER FOUNDATION. ONE SHALL BE TESTED @ THREE DAYS, ONE @ TWENTY-EIGHT DAYS. THE THIRD CYLINDER SHALL BE KEPT SEPARATELY. (IF REQUIRED TO BE USED IN THE FUTURE.)

B. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN. SLUMP SHALL NOT EXCEED 4" UNLESS OTHERWISE NOTED.

PART 2 - PRODUCT

2.01 CONCRETE MATERIALS

CONCRETE SHALL BE COMPOSED OF PORTLAND CEMENT, WATER, FINE AND COARSE AGGREGATES AND ADMIXTURES AS SPECIFIED BELOW. ALL WELL MIXED AND BROUGHT TO PROPER CONSISTENCY, CLASS I, II, III, OR V.

A. CEMENT: CEMENT SHALL BE TYPE II, GRAY COLOR, LOW-ALKALI PORTLAND CEMENT CONFORMING TO ASTM C150.

B. FINE AND COARSE AGGREGATES: AGGREGATES FOR USE IN CONCRETE SHALL COMPLY WITH ASTM C33.

C. WATER: WATER FOR MIXING AND CURING CONCRETE SHALL BE FREE FROM SEWAGE, OIL, ACID, ALKALI, AND SALTS AND SHALL BE FREE FROM OBJECTIONABLE QUANTITIES OF SILT, ORGANIC MATTER, AND OTHER DELETERIOUS SUBSTANCES.

2.02 ADMIXTURES

A. CHEMICAL ADMIXTURE: ASTM C494, TYPE A - WATER REDUCING OR TYPE D - WATER REDUCING AND RETARDING.

2.03 CURING COMPOUND: ASTM C309, TYPE I, CLASS B; TRANSLUCENT.

2.04 ACCESSORIES

A. NONSHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI IN 28 DAYS.

B. JOINT FILLER: BITUMINOUS TYPE, ASTM D1751 OR NON-BITUMINOUS TYPE ASTM D1752.

C. ANCHOR BOLTS: ASTM A307, UNPRIMED.

2.05 CONCRETE MIX

A. CONCRETE SHALL BE PROPORTIONED PER REQUIREMENTS OF ACI 301 & SPRINT CONSTRUCTION SPECIFICATIONS FOR DESIGN STRENGTH & WORKABILITY. CONCRETE SHALL BE DELIVERED WITHIN 45 MINUTES OF ADDITION OF WATER TO MIX.

B. THE FOLLOWING STRENGTHS SHALL BE USED:

1. FENCE POST FOUNDATIONS - DESIGN COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI.

2. EQUIPMENT FOUNDATION - DESIGN COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED. (CONTRACTOR FURNISH 4,000 PSI CONCRETE).

3. CONCRETE STRENGTH FOR MONOPOLE OR TOWER FOUNDATION SHALL BE 1,000 PSI MORE THAN THE MANUFACTURER'S RECOMMENDATIONS, 4,000 PSI MINIMUM.

C. USE ACCELERATING ADMIXTURES IN COLD WEATHER AND RETARDING ADMIXTURES IN HOT WEATHER ONLY WHEN APPROVED BY THE ENGINEER.

D. TOTAL AIR CONTENT SHALL BE 5 PERCENT PLUS OR MINUS 1 PERCENT.

PART 3 - EXECUTION

3.01 INSPECTION

THE CONTRACTOR SHALL VERIFY ANCHORS, SEATS, PENETRATIONS, PLATES, REINFORCEMENT, AND OTHER ITEMS TO CAST INTO CONCRETE ARE ACCURATELY PLACED, HELD SECURELY, AND SHALL NOT CAUSE HARDSHIP IN PLACING CONCRETE.

3.02 PREPARATION

A. THE CONTRACTOR SHALL PREPARE PREVIOUSLY PLACED CONCRETE BY CLEANING WITH STEEL BRUSH AND APPLYING BONDING AGENT, APPLY BONDING AGENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3.03 PLACING CONCRETE

A. THE ENGINEER SHALL BE NOTIFIED NOT LESS THAN 24 HOURS IN ADVANCE OF CONCRETE PLACEMENT. UNLESS INSPECTION IS WAIVED IN EACH CASE, PLACING OF CONCRETE SHALL BE PERFORMED ONLY IN THE PRESENCE OF THE ENGINEER.

CONCRETE SHALL NOT BE PLACED UNTIL ALL FORM WORK, EMBEDDED PARTS, STEEL REINFORCEMENT, FOUNDATION SURFACES, AND JOINTS INVOLVED IN THE PLACING HAVE BEEN APPROVED, AND UNTIL FACILITIES ACCEPTABLE TO THE SPRINT REPRESENTATIVE HAVE BEEN PROVIDED AND MADE READY FOR ACCOMPLISHMENT OF THE WORK AS SPECIFIED. CONCRETE MAY NOT BE ORDERED FOR PLACEMENT UNTIL ALL ITEMS HAVE BEEN APPROVED AND SPRINT HAS PERFORMED A FINAL INSPECTION AND GIVEN APPROVAL TO START PLACEMENT IN WRITING.

B. UNLESS SPECIFIED TO BE BEVELED, EXPOSED EDGES OF FLOATED OR TROWELED SURFACES SHALL BE EDGED WITH A TOOL HAVING A 1/4" CORNER RADIUS.

C. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301.

D. THE CONTRACTOR SHALL ENSURE THAT REINFORCEMENT, INSERTS, EMBEDDED PARTS, FORMED JOINTS AND VAPOR BARRIERS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.

E. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER.....2 IN.
#5 AND SMALLER & WPT.....1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND.
SLAB AND WALL.....3/4 IN.
BEAMS AND COLUMNS.....1 1/2 IN.

3.04 SURFACE FINISHES

A. SURFACES AGAINST WHICH BACK FILL OR CONCRETE SHALL BE PLACED REQUIRE NO TREATMENT EXCEPT REPAIR OF DEFECTIVE AREAS.

B. SURFACES THAT WILL BE PERMANENTLY EXPOSED SHALL PRESENT A UNIFORM FINISH PROVIDED BY THE REMOVAL OF FINIS AND THE FILLING OF HOLES AND OTHER IRREGULARITIES WITH DRY PACK GROUT, OR BY SACKING WITH UTILITY OR ORDINARY GROUT.

C. SURFACES THAT WOULD NORMALLY BE LEVEL AND WHICH WILL BE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE SLOPED FOR DRAINAGE. UNLESS ENGINEER'S DESIGN DRAWING SPECIFIES A HORIZONTAL SURFACE OR SHOWS THE SLOPE REQUIRED, THE TOPS OF NARROW SURFACES, SUCH AS STAIR TREADS, WALLS, CURBS, AND PARAPETS SHALL BE SLOPED APPROXIMATELY 3/8" / FT OF WIDTH. BROADER SURFACES SUCH AS WALKS, ROADS, PARKING AREAS AND PLATFORMS SHALL BE SLOPED APPROXIMATELY 1/4" / FT.

D. SURFACES THAT WILL BE COVERED BY BACKFILL OR CONCRETE SHALL BE SMOOTH SCREEDED.

E. EXPOSED SLAB SURFACES SHALL BE CONSOLIDATED, SCREEDED, FLOATED, AND "STEEL TROWELED." HAND OR POWER-DRIVEN EQUIPMENT MAY BE USED FOR FLOATINGS WHICH SHALL BE STARTED AS SOON AS THE SCREEDED SURFACE HAS ATTAINED A STIFFNESS TO PERMIT FINISHING OPERATIONS. ALL EDGES MUST HAVE A 3/4" CHAMFER. CONCRETE EXPANSION ANCHORS AND EPOXY ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS, SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. MANUFACTURER'S MINIMUM CONCRETE EDGE DISTANCE SHALL BE MAINTAINED DURING INSTALLATION.

3.05 PATCHING

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON REMOVAL OF THE FORMS TO OBSERVE CONCRETE SURFACE CONDITIONS. IMPERFECTIONS SHALL BE PATCHED ACCORDING TO THE ENGINEER'S DIRECTION.

3.06 DEFECTIVE CONCRETE

THE CONTRACTOR SHALL MODIFY OR REPLACE CONCRETE NOT CONFORMING TO REQUIRED LEVELS AND LINES, DETAILS, AND ELEVATIONS AS SPECIFIED IN ACI 301.

3.07 PROTECTION

A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY. FINISHED WORK SHALL BE PROTECTED.

B. CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

C. ALL CONCRETE SHALL BE WATER CURED PER ACCEPTABLE PRACTICES SPECIFIED BY ACI CODE.

METALS

PART 1 - GENERAL

1.01 WORK INCLUDED

A. THE WORK CONSISTS OF THE FABRICATION AND INSTALLATION OF ALL MATERIALS TO BE FURNISHED, AND WITHOUT LIMITING THE GENERALITY THEREOF, INCLUDES ALL EQUIPMENT, LABOR AND SERVICES REQUIRED FOR ALL STRUCTURAL STEEL WORK, INCLUDING ALL ITEMS INCIDENTAL THERETO AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS. INCLUDING:

1. STEEL FRAMING INCLUDING BEAMS, ANGLES, CHANNELS AND PLATES.

2. WELDING AND BOLTING OF ATTACHMENTS.

1.02 REFERENCE STANDARDS

A. THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN:

1. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS IN BUILDING CODES"

2. AWS: AMERICAN WELDING SOCIETY INC., AS PUBLISHED IN "STANDARD D1.1-2006, STRUCTURAL WELDING CODE".

3. AISC: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"; "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

4. EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.

PART 2 - STRUCTURAL NOTES
ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND SPRINT SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A992-50. UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS, STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION". MISC. STEEL TO BE A36.

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, AISC/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.

2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.

3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

4. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL ACTUAL OUTSIDE DIAMETER IS LARGER.

5. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". UNLESS OTHERWISE NOTED, ALL BOLTS SHALL BE 5/8" DIA TYPE X.

6. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.

7. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.

8. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.

9. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES, AND WELDING SHALL CONFORM TO AWS AND D11 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 13TH EDITION.

10. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.

11. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA. UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION FOR EXTERNAL USE APPLICATIONS.

12. UNLESS OTHERWISE NOTED, EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-20 AND OR HY-150 SYSTEMS (AS SPECIFIED ON DWG.) OR ENGINEERS APPROVED EQUAL WITH A 1/4" MIN. EMBEDMENT DEPTH.

13. UNLESS OTHERWISE NOTED, EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT II OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.

14. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY.

WOOD

1. PLYWOOD SHALL MEET THE RECOMMENDATIONS OF THE A.P.A.
2. ALL LUMBER SHALL BE SPRUCE-PINE-FR (SPF) #1 GRADE.
3. ALL LUMBER SHALL BE PRESSURE TREATED WITH PRESERVATIVES. ALLOWABLE BENDING STRESS: F_b min = 1,000 PSI
MODULUS OF ELASTICITY: 1.6x10⁶ PSI

4. ALL JOIST HANGERS, CLIP ANGLES AND PLATES TO BE HEAVY GALVANIZED AS MANUFACTURED BY SIMPSON CO., OR APPROVED EQUAL.
5. ALL LVL'S TO BE MANUFACTURED BY BOSE CASCADE OR APPROVED EQUAL.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION

PART 1 - GENERAL

1.01 WORK INCLUDED

A. ANTENNAS AND COAXIAL CABLES SHALL BE AS SPECIFIED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY. STRICT ADHERENCE TO OSHA STANDARDS IS MANDATED.

B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND SPRINT SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D. INSTALL COAXIAL CABLES AND TERMINATION'S BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

E. ANTENNA MOUNTS AND HARDWARE SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.

F. ANTENNA AND COAXIAL CABLE GROUNDING:
1. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED.
2. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

ROOF WORK

1. IF ROOF WORK IS REQUIRED, CAUTION SHALL BE EXERCISED WHILE WORKING ON THE ROOF. EVERY EFFORT MUST BE MADE TO PRESERVE THE ROOF WARRANTY.

2. WHEN ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE THE WORK WITH THE BUILDING OWNER AND THE EXISTING ROOFING INSTALLER.

RELATED WORK (ROOF TOP SITES)

FURNISHED THE FOLLOWING WORK AS SPECIFIED UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:

- FLASHING OF OPENING INTO OUTSIDE WALLS
- SEALING AND CAULKING ALL OPENINGS
- PAINTING
- CUTTING AND PATCHING

1.03 REQUIREMENTS OR REGULATOR AGENCIES

A. FURNISH U.L. LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE. INSTALL IN CONFORMANCE WITH U.L. STANDARDS WHERE APPLICABLE.

B. INSTALL ANTENNA, ANTENNA CABLES, GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES, AND SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

1. EIA/TIA - ELECTRONIC INDUSTRIES ASSOCIATION RS - 222. STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.

2. FAA - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7460-1H, OBSTRUCTION MARKING AND LIGHTING.

3. FCC - FEDERAL COMMUNICATIONS COMMISSION RULES AND REGULATIONS FORM 715, OBSTRUCTION MARKING AND LIGHTING SPECIFICATION FOR ANTENNA STRUCTURES AND FORM 715A, HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES.

4. NEC - NATIONAL ELECTRICAL CODE

5. UL - UNDERWRITER'S LABORATORIES APPROVED ELECTRICAL PRODUCTS.

6. IN ALL CASES, PART 77 OF THE FAA RULES AND PARTS 17 AND 22 OF THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.

IF ASSUMED EXISTING CONDITION DIFFERS, ENGINEER MUST BE INFORMED OF ACTUAL FIELD CONDITION. SUBCONTRACTOR TO VERIFY EXISTING DIMENSIONS PRIOR TO STEEL FABRICATION.

Sprint

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Daniel P. Hamm

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	01/07/13	FOR CONSTRUCTION	BR

1
S-2
PROPOSED 800/1900MHz ANTENNAS MOUNTED TO PROPOSED PIPE MAST (TYP. OF 1 PER SECTOR, TOTAL OF 3)

1
S-2
PROPOSED 800MHz & 1900MHz RRH'S MOUNTED TO PROPOSED BALLAST MOUNT (TYP. OF 1 (EACH) PER SECTOR, TOTAL OF 3)

ALPHA SECTOR
(800/1900)
325°

PROPOSED NON-PENETRATING BALLAST SLED 1
S-2

PROPOSED EQUIPMENT ON EXISTING STEEL PLATFORM 3
A-1

EXISTING SPRINT LEASE AREA (300 SF)

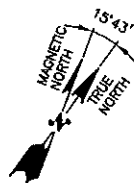
PROPOSED HYBRIFLEX CABLES TO FOLLOW EXISTING COAX CABLES FROM EXISTING ANTENNA LOCATION TO PROPOSED EQUIPMENT LOCATION 6
A-4

GAMMA SECTOR
(800/1900)
245°

PROPOSED GPS ANTENNA TO REPLACE EXISTING GPS ANTENNA 5
A-4

PROPOSED 800/1900MHz ANTENNAS MOUNTED TO PROPOSED PIPE MAST (TYP. OF 1 PER SECTOR, TOTAL OF 3) 1
S-1

PROPOSED 800MHz & 1900MHz RRH'S MOUNTED TO PROPOSED BALLAST MOUNT (TYP. OF 1 (EACH) PER BETA & GAMMA SECTORS, TOTAL OF 3) 7
A-4



ROOF PLAN
SCALE: 3/16"=1'-0"

1
A-1

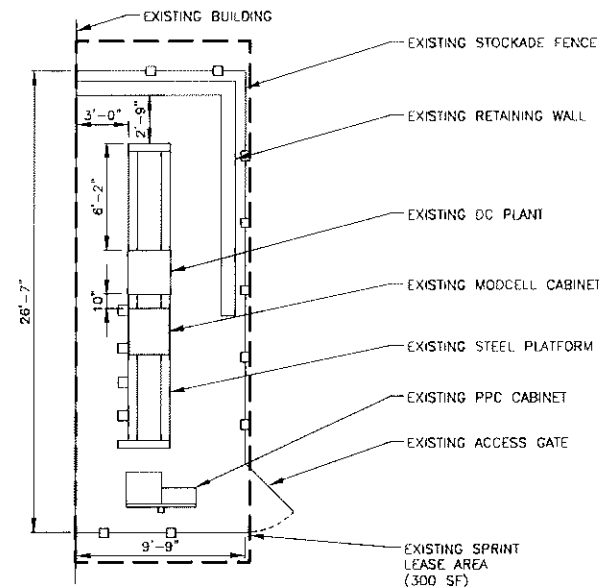
GRAPHIC SCALE
0 2'-8" 5'-4" 10'-8" 16'-0"

NOTES:

- 1) VERIFY EXACT ANTENNA MODEL & AZIMUTHS WITH RF ENGINEER PRIOR TO INSTALLATION.
- 2) REMOVE EXISTING GPS ANTENNA AND REPLACE WITH NEW GPS ANTENNA.

STRUCTURAL NOTE:

STRUCTURAL INFORMATION TAKEN FROM STRUCTURAL ANALYSIS PERFORMED BY HUDSON DESIGN GROUP, LLC. DATED: DECEMBER 6, 2012



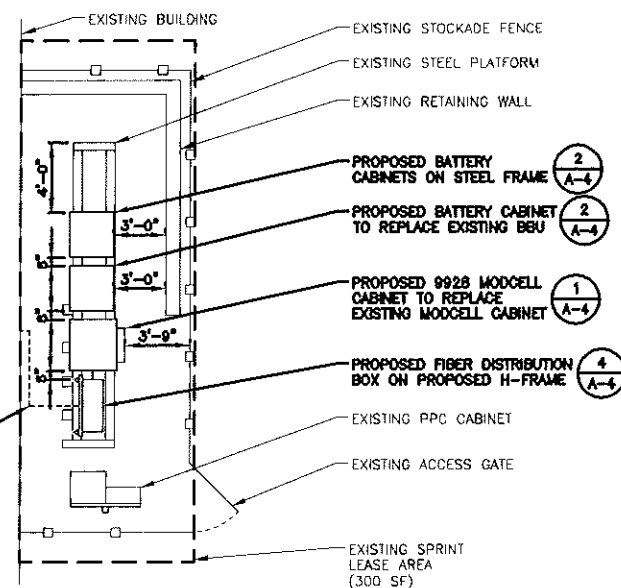
EXISTING EQUIPMENT PLAN

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

GRAPHIC SCALE

0 2'-8" 5'-4" 10'-8" 16'-0"

2
A-1



PROPOSED EQUIPMENT PLAN

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

GRAPHIC SCALE

0 2'-8" 5'-4" 10'-8" 16'-0"

3
A-1

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NETWORK VISION MMBS LAUNCH
1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07445
TEL: (800) 357-7641



Alcatel-Lucent

1 ROSSINS ROAD
WESTFORD, MA 01885
TEL: (978) 952-1600



Hudson
Design Group

1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3070
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 335-5552

Daniel P. Hamm

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
2	01/07/13	FOR CONSTRUCTION	BR
1	11/29/12	ISSUED FOR REVIEW	SF

SITE NUMBER:
BS43XC827

SITE NAME:
EASTERN
PROMENADE

SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

ROOF PLAN &
EQUIPMENT PLAN

SHEET NUMBER

A-1

STRUCTURAL NOTE:

STRUCTURAL INFORMATION
TAKEN FROM STRUCTURAL
ANALYSIS PERFORMED BY
HUDSON DESIGN GROUP, LLC.
DATED: DECEMBER 6, 2012

NOTES:

- 1) VERIFY EXACT ANTENNA
MODEL & AZIMUTHS WITH
RF ENGINEER PRIOR TO
INSTALLATION.
- 2) REMOVE EXISTING GPS
ANTENNA AND REPLACE
WITH NEW GPS ANTENNA.

Sprint
VISION
NETWORK VISION MMWAVE LAUNCH
1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07455
TEL: (800) 357-7641

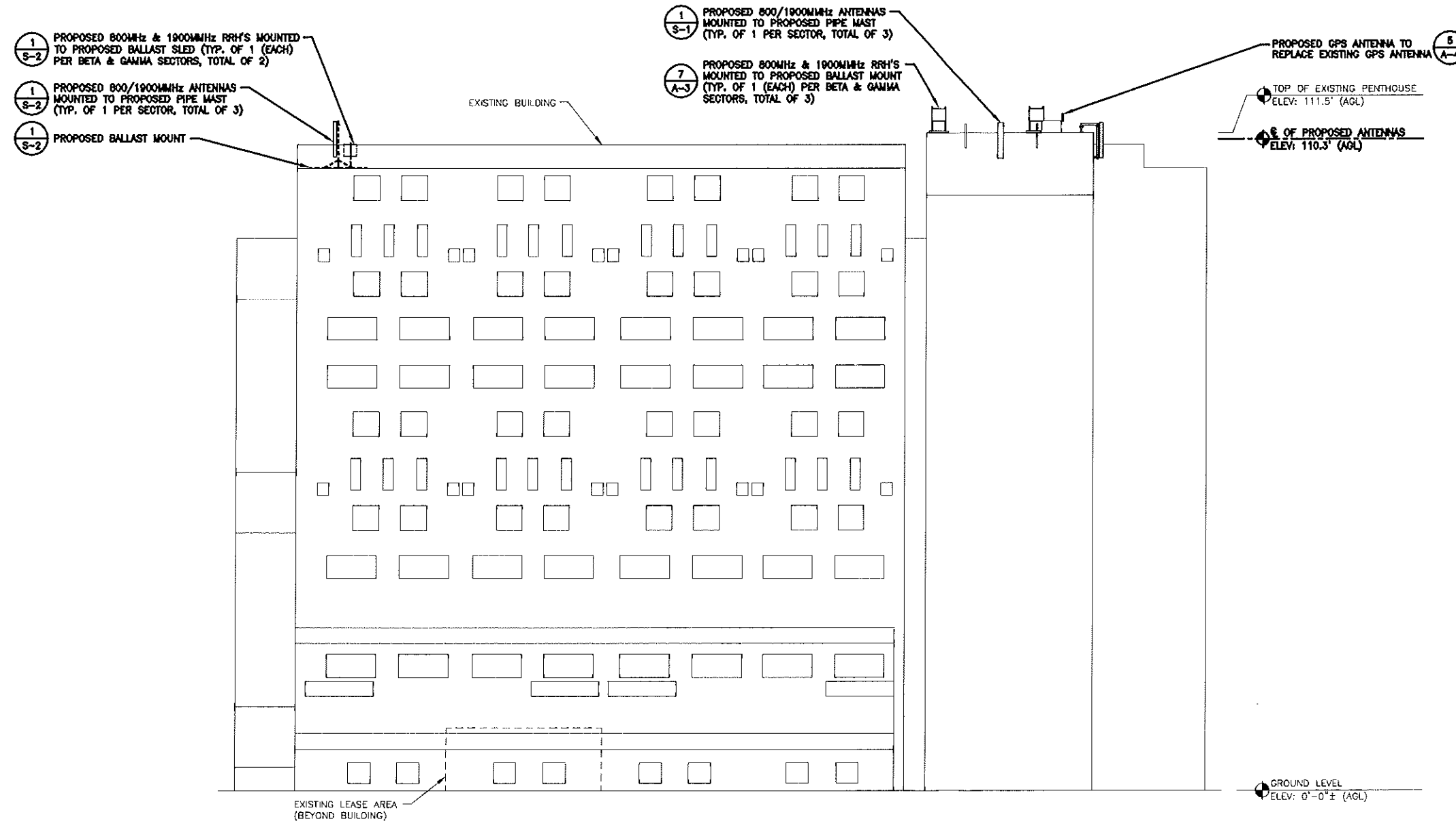


Alcatel-Lucent
1 ROBENS ROAD
WESTFORD, MA 01886
TEL: (978) 932-1600



Hudson
Design Group
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 300
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5583

Daniel P. Hamm



ELEVATION
SCALE: 3/32"=1'-0"

1
A-2

GRAPHIC SCALE
0 5'-4" 10'-8" 21'-4" 32'-0"

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
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1	11/29/12	ISSUED FOR REVIEW	SF

SITE NUMBER:
BS43XC827
SITE NAME:
EASTERN
PROMENADE
SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

ELEVATION

SHEET NUMBER

A-2

NOTE:

EXISTING ANTENNA AND PLATFORM ORIENTATIONS HAS BEEN TAKEN FROM NETWORK VISION 3G RAN PLANNING PLAYBOOK, G.C. TO VERIFY EXISTING ORIENTATIONS PRIOR TO PROPOSED INSTALLATION.

ANTENNA STATUS LEGEND:

(E) - EXISTING
(P) - PROPOSED
SP - SINGLE POLE ANTENNA
DP - DUAL POLE ANTENNA
EMPTY - EMPTY PIPE MAST
CDMA - SPRINT ANTENNA
MM - MULTIMODAL ANTENNA

NOTES:

1) VERIFY EXACT ANTENNA MODEL & AZIMUTHS WITH RF ENGINEER PRIOR TO INSTALLATION.
2) REMOVE EXISTING GPS ANTENNA AND REPLACE WITH NEW GPS ANTENNA.

STRUCTURAL NOTE:

STRUCTURAL INFORMATION TAKEN FROM STRUCTURAL ANALYSIS PERFORMED BY HUDSON DESIGN GROUP, LLC. DATED: DECEMBER 6, 2012

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NETWORK VISION MMS LAUNCH
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**Alcatel-Lucent**

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1400 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
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SUBMITTALS

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1	11/29/12	ISSUED FOR REVIEW	SF

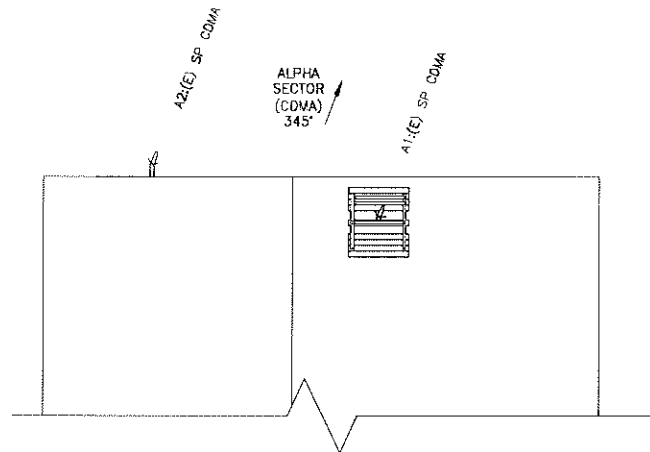
SITE NUMBER:
BS43XC827SITE NAME:
EASTERN
PROMENADESITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

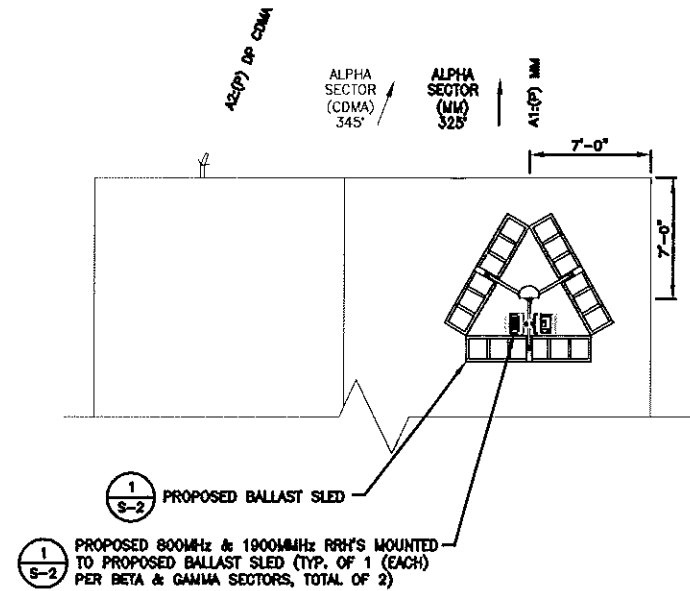
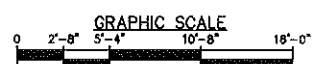
ANTENNA SCENARIO

SHEET NUMBER

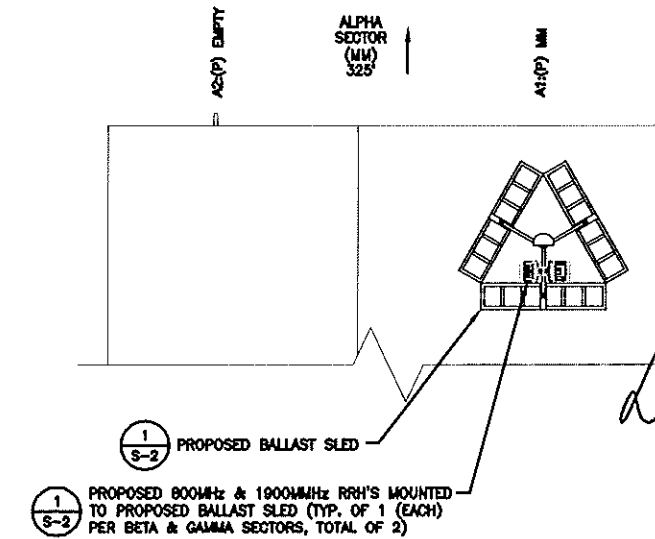
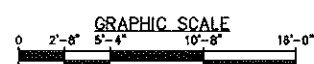
A-3

**EXISTING ANTENNA PLAN**

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

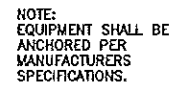
**DURING ANTENNA PLAN**

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

**PROPOSED ANTENNA PLAN**

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

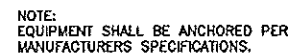
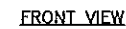




LEFT SIDE VIEW

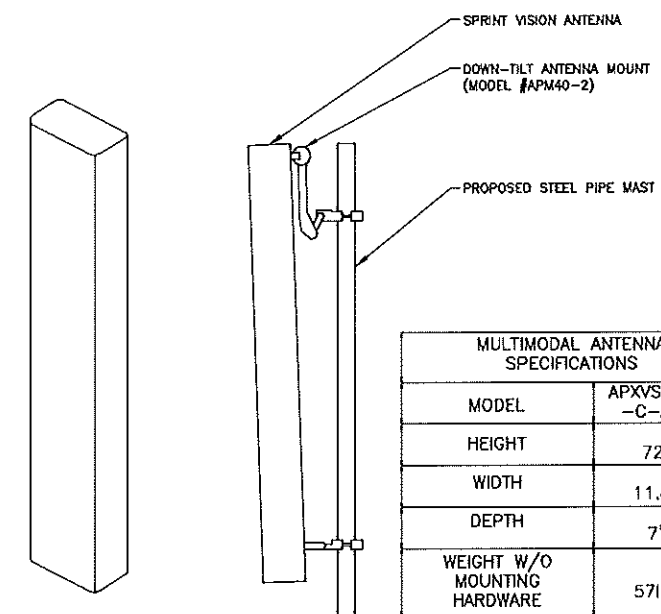
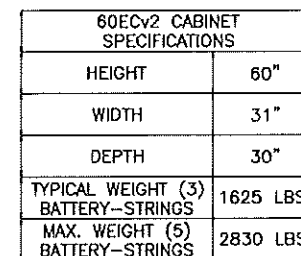
9928 OUTDOOR BTS CABINET

SCALE: N.T.S.



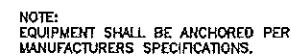
BATTERY BACK-UP CABINET

SCALE: N.T.S.

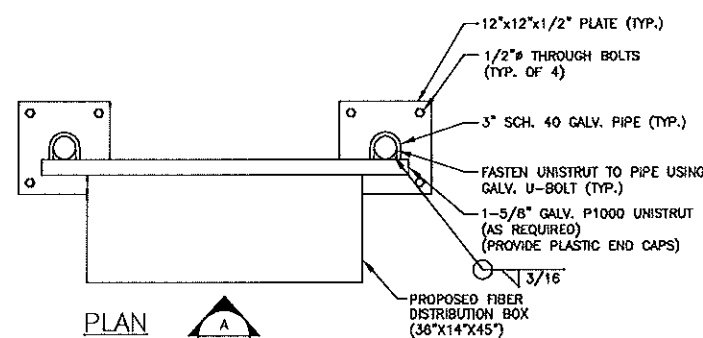


MULTIMODAL ANTENNA SPECIFICATIONS

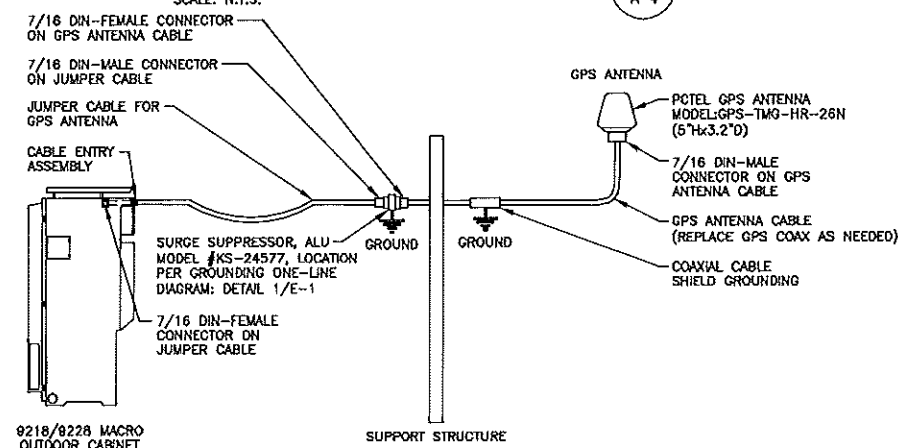
MODEL	APXVSP18 -C-A20
HEIGHT	72"
WIDTH	11.8"
DEPTH	7"
WEIGHT W/O MOUNTING HARDWARE	57lbs



FIBER DISTRIBUTION BOX SPECIFICATIONS	
HEIGHT	45"
WIDTH	36"
DEPTH	14"



PLAN



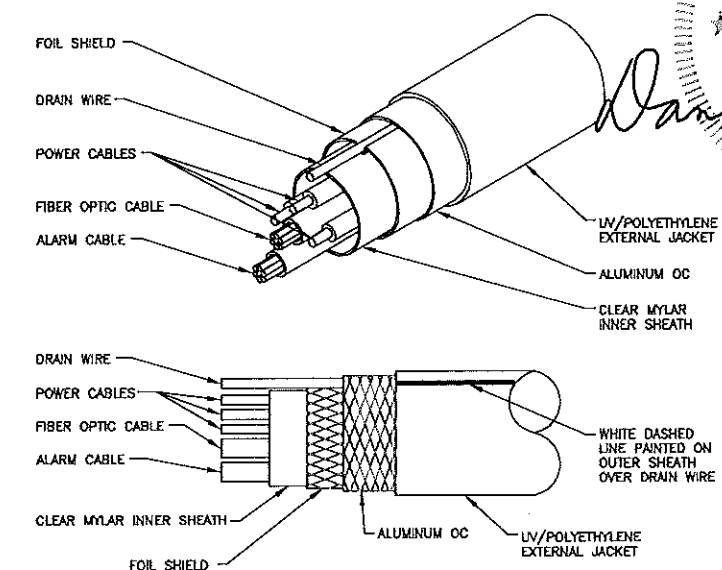
THE GPS SURGE NEEDS TO BE INSTALLED AWAY FROM, AND SEPARATE FROM THE MMBTS CABINET.
THE JUMPERS ARE DESIGNED TO BE INSTALLED BEFORE/AFTER THE GPS SURGE.
THE GPS SURGE NEEDS TO BE CONNECTED TO THE GROUND SYSTEM, VIA AGROUND LEAD.

GPS ANTENNA DETAIL

SCALE: N.T.S.

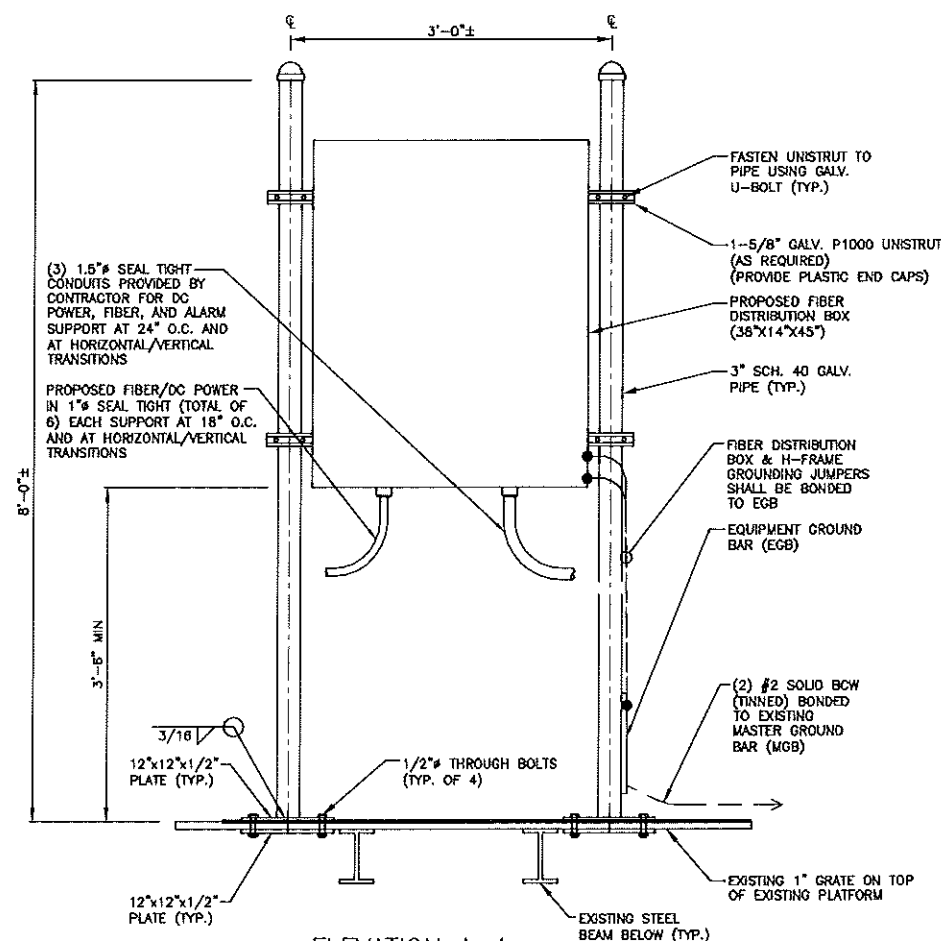


SCALE: N.T.S.



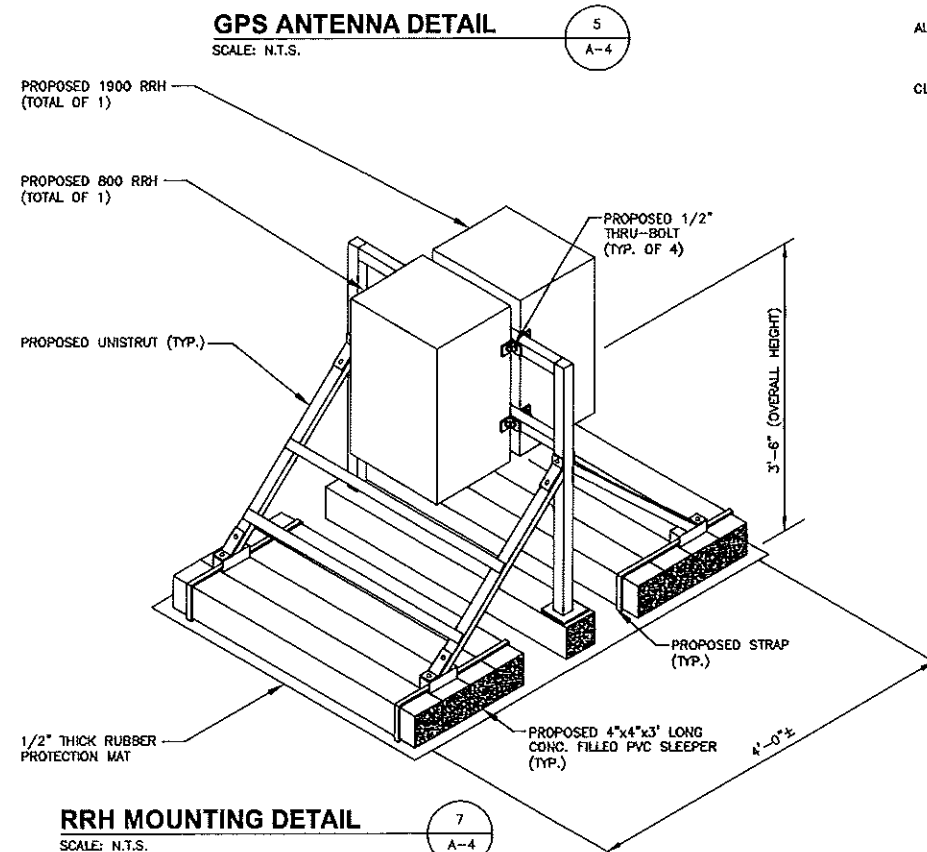
HYBRIFLEX CABLE DETAIL

SCALE: N.T.S.



FIBER DISTRIBUTION BOX

SCALE: N.T.S.



RRH MOUNTING DETAIL

SCALE: N.T.S.

Hudson
Design Group, Inc.



1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845

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FAX: (978) 336-5586

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
2	01/07/13	FOR CONSTRUCTION	BR
1	11/29/12	ISSUED FOR REVIEW	SF

SITE NUMBER:
BS43XC827

SITE NAME:
EASTERN
PROMENADE

SITE ADDRESS:
10 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

DETAILS

SHEET NUMBER

A-4

Market		VT-NH-ME		
Cascade ID		BS43XC827		
		SECTOR 1	SECTOR 2	SECTOR 3
1900	Split sector present	No	No	No
	1900MHz_Azimuth	325	115	245
	1900MHz_No_of_Antennas	1	1	1
	1900MHz_RADCenter(ft)	110.3	110.3	110.3
	1900MHz_AntennaMake	RFS	RFS	RFS
	1900MHz_AntennaModel	APXVSP18-C-A20	APXVSP18-C-A20	APXVSP18-C-A20
	1900MHz_Horizontal_Beamwidth	65	65	65
	1900MHz_Vertical_Beamwidth	5.5	5.5	5.5
	1900MHz_AntennaHeight (ft)	6	6	6
	1900MHz_AntennaGain(dBd)	15.9	15.9	15.9
	1900MHz_E_Tilt	-1	-1	-6
	1900MHz_M_Tilt	0	0	0
	1900MHz_Carrier_Forecast_Year_2013	4	4	4
	1900MHz_RRHManufacturer	ALU	ALU	ALU
	1900MHz_RRHModel	RRH 1900 4X45 65MHz	RRH 1900 4X45 65MHz	RRH 1900 4X45 65MHz
	1900MHz_RRHCount	1	1	1
	1900MHz_RRHLocation	Top of the Pole/Tower	Top of the Pole/Tower	Top of the Pole/Tower
	1900MHz_CombinerModel	No Combiner Required	No Combiner Required	No Combiner Required
	1900MHz_Top_Jumper #1_Length (RRH or Combiner-to-Antenna for TT or Main Coax to	10 (*)10	10 (*)10	10 (*)10
	1900MHz_Top_Jumper #1_Cable_Model (RRH or Combiner-to-Antenna for TT or Main Coax	LCF12-50J	LCF12-50J	LCF12-50J
	1900MHz_Top_Jumper #2_Length (RRH to Combiner for TT if applicable, ft)	N/A	N/A	N/A
	1900MHz_Top_Jumper #2_Cable_Model (RRH to Combiner for TT if applicable)	N/A	N/A	N/A
	1900MHz_Main_Coax_Cable_Length (ft)	N/A (*)250	N/A (*)250	N/A (*)250
	1900MHz_Main_Coax_Cable_Model	N/A	N/A	N/A
	1900MHz_Bottom_Jumper #1_Length (Ground based RRH to Combiner-OR-Main Coax, ft)	N/A	N/A	N/A
	1900MHz_Bottom_Jumper #1_Cable_Model (Ground based RRH to Combiner-OR-Main Coax)	N/A	N/A	N/A
	1900MHz_Bottom_Jumper #2_Length (Ground based-Combiner to Main Coax, ft)	N/A	N/A	N/A
	1900MHz_Bottom_Jumper #2_Cable_Model (Ground based-Combiner to Main Coax)	N/A	N/A	N/A
800	800MHz_Azimuth	325	115	245
	800MHz_No_of_Antennas	0	0	0
	800MHz_RADCenter(ft)	110.3	110.3	110.3
	800MHz_AntennaMake	RFS	RFS	RFS
	800MHz_AntennaModel	APXVSP18-C-A20 (Shared w/1900)	APXVSP18-C-A20 (Shared w/1900)	APXVSP18-C-A20 (Shared w/1900)
	800MHz_Horizontal_Beamwidth	65	65	65
	800MHz_Vertical_Beamwidth	11.5	11.5	11.5
	800MHz_AntennaHeight (ft)	6	6	6
	800MHz_AntennaGain (dBd)	13.4	13.4	13.4
	800MHz_E_Tilt	-2	0	-8
	800MHz_M_Tilt	0	0	0
	800MHz_RRHManufacturer	ALU	ALU	ALU
	800MHz_RRHModel	800 MHz RRH 2x50W	800 MHz RRH 2x50W	800 MHz RRH 2x50W
	800MHz_RRHCount	1	1	1
	800MHz_RRHLocation	Top of the Pole/Tower	Top of the Pole/Tower	Top of the Pole/Tower
	800_Top_Jumper #1_Length (RRH to Antenna for TT or Main Coax to Antenna for GM)	10 (*)10	10 (*)10	10 (*)10
	800_Top_Jumper #1_Cable_Model (RRH to Antenna for TT or Main Coax to Antenna for GM)	LCF12-50J	LCF12-50J	LCF12-50J
	800MHz_Main_Coax_Cable_Length (ft)	N/A (*)250	N/A (*)250	N/A (*)250
	800MHz_Main_Coax_Cable_Model	N/A	N/A	N/A
	800_Bottom_Jumper #1_Length (Ground based RRH to Main Coax)	N/A	N/A	N/A
	800_Bottom_Jumper #1_Cable_Model (Ground based RRH to Main Coax)	N/A	N/A	N/A
Comments	Plumbing Scenario *	124	124	124
	* If plumbing scenario does not match the material received, please contact your Construction Manager			
11/9/2012				

RF DATA SHEET

SCALE: N.T.S.



IMPORTANT:

GENERAL CONTRACTOR/TOWER CREW SHALL VERIFY THAT THE LATEST RF DATA SHEET ARE USED FOR EQUIPMENT INSTALLATION.

SPRINT CONSTRUCTION STANDARDS:

GENERAL CONTRACTOR SHALL ADHERE TO THE FOLLOWING SPRINT CONSTRUCTION STANDARDS (AS AMENDED FROM TIME TO TIME AND AVAILABLE ON THE ALU FST DATABASE):

- CONSTRUCTION STANDARDS: INTEGRATED CONSTRUCTION STANDARDS FOR WIRELESS SITES - VERSION 4.0, INCLUDING EXHIBITS A-M.
- CONSTRUCTION SPECIFICATIONS: CONSTRUCTION STANDARDS EXHIBIT A - STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES (VERSION 4.0).
- GROUNDING STANDARDS: EXTERIOR GROUNDING SYSTEM DESIGN.
- GROUNDING STANDARDS (SUPPLEMENT): ANTI-THEFT UPDATE TO SPRINT GROUNDING 082412 AND SPRINT ENGINEERING LETTER EL-0504 DATED 04.20.12.
- WEATHER PROOFING STANDARDS: EXCERPT FROM CONSTRUCTION STANDARDS EXHIBIT A, SECTION 3.6 WEATHERPROOFING CONNECTORS AND GROUND KITS.
- COLOR CODING: SPRINT NEXTEL ANT AND LINE COLOR CODING (DRAFT) V3 09-08-11.

(*) NOTE: ALU CM SHALL CONFIRM ALL JUMPER/HYBRIFLEX LENGTHS BEFORE PREPARING B.O.M. RECOMMENDED HYBRIFLEX LENGTHS SHOWN INCLUDE 20 FEET FOR 10-FOOT COILS AT EACH END OF THE FIBER TRUNK.

Sprint
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Hudson
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1600 OSGOOD STREET
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N. ANDOVER, MA 01845
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Daniel P. Hamm

CHECKED BY: JX

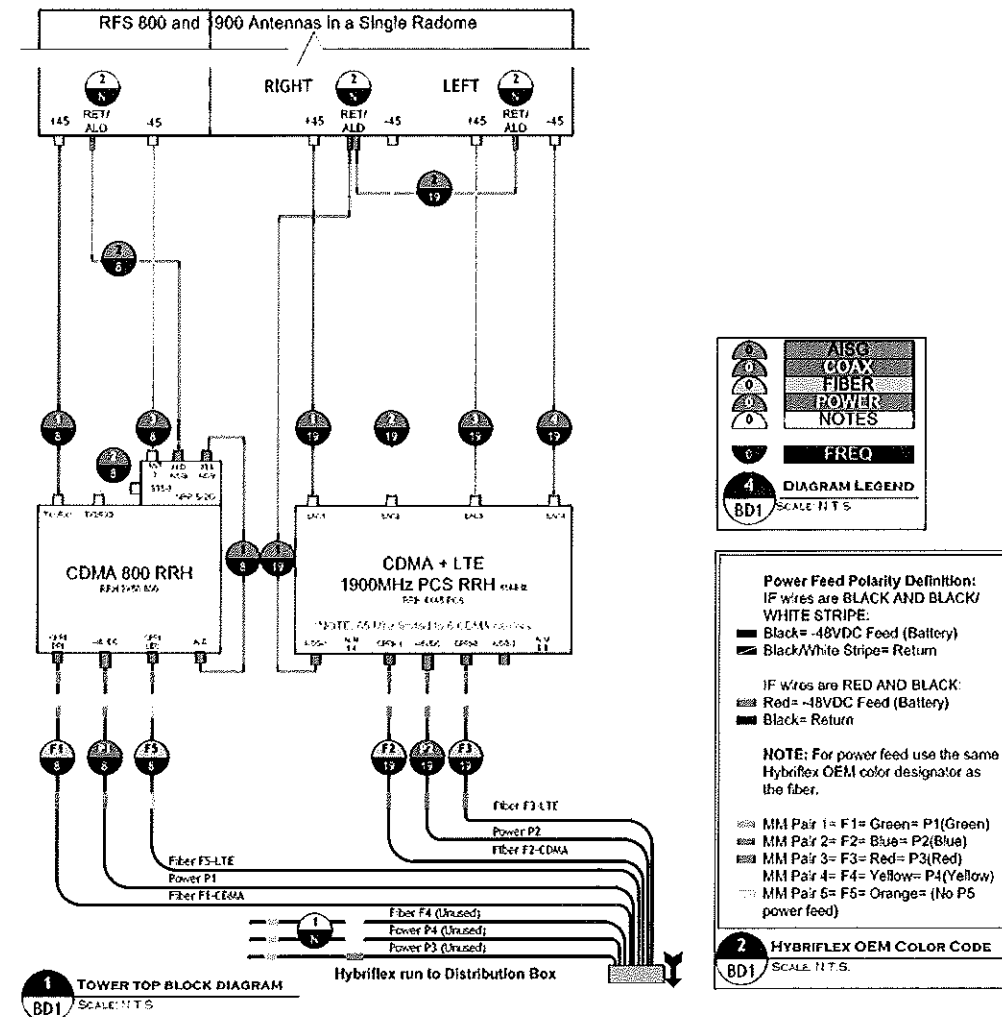
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SITE NUMBER:
BS43XC827
SITE NAME:
EASTERN
PROMENADE
SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE
RF DATA SHEET

SHEET NUMBER
A-5



23	DC Power Pair 1 Hybriflex, 1900 LTE RRH1 -48VDC port TO/FROM Distribution Box Breaker 5 (S1), 7 (S2), 11 (S3)
19	1900MHz
23	Fiber Pair 3, 1900 RRH2 CPRI PRI port TO/FROM Distribution Box, Top LC Bulkhead, Position 3-4 (S1), 9-10 (S2), Lower LC BH, Position 3-4 (S3)
19	1900MHz
21	DC Power Jumper, Power Pair 3 CTAP TO/FROM 1900 LTE RRH2 -48VDC port (42" Jumper)
19	1900MHz
21	Fiber Jumper, 1900 RRH1 CPRI SEC port TO/FROM 1900 RRH2 CPRI SEC port
19	1900MHz
19	AISC Cable jumper, 1900 CDMA RRH1 AISC port TO/FROM 1900 Antenna RET/ADL port
19	1900MHz
19	AISC Cable jumper, 1900 Antenna RET/ADL port TO/FROM 1900 Antenna RET/ALD port (RET Motors)
19	1900MHz
19	Coax jumper, 1900 LTE RRH1 TX1/RX1 port TO/FROM Combiner Port G1
19	1900MHz
19	Coax jumper, 1900 LTE RRH1 TX2/RX2 port TO/FROM Combiner Port G2
19	1900MHz
19	Coax jumper, 1900 LTE RRH2 TX1/RX1(logical TX/RX3) port TO/FROM Combiner Port G3
19	1900MHz
19	Coax jumper, 1900 LTE RRH2 TX2/RX2(logical TX/RX4) port TO/FROM Combiner Port G4
19	1900MHz
23	DC Power Pair 2 Hybriflex, 1900 CDMA RRH1 -48VDC port TO/FROM Distribution Box Breaker 2(S1), 6 (S2), 10 (S3)
19	1900MHz
23	Fiber Pair 2, 1900 CDMA RRH1 CPRI PRI port TO/FROM Distribution Box, Top LC Bulkhead, Position 13-14 (S1), 19-20 (S2), Lower LC BH, Position 13-44 (S3)
19	1900MHz
23	DC Power Jumper, Power Pair 2 CTAP TO/FROM 1900 CDMA RRH2 -48VDC port (42" Jumper)
19	1900MHz
23	Fiber Jumper, 1900 RRH1 CPRI SEC port TO/FROM 1900 RRH2 CPRI SEC port
19	1900MHz
19	Coax jumper, 1900 CDMA RRH1 TX1/RX1 port TO/FROM Combiner Port A1B1
19	1900MHz
19	Coax jumper, 1900 CDMA RRH1 TX2/RX2 port TO/FROM Combiner Port A2B2
19	1900MHz
19	Coax jumper, 1900 CDMA RRH2 TX1/RX1(logical TX/RX3) port TO/FROM Combiner Port A3B3
19	1900MHz
19	Coax jumper, 1900 CDMA RRH2 TX2/RX2(logical TX/RX4) port TO/FROM Combiner Port A4B4
19	1900MHz
19	Coax jumper, 1900 Combiner COM 1 port TO/FROM Antenna +45 port
19	1900MHz
19	Coax jumper, 1900 Combiner COM 2 port TO/FROM Antenna -45 port
19	1900MHz
19	Coax jumper, 1900 Combiner COM 3 port TO/FROM Antenna +45 port
19	1900MHz
19	Coax jumper, 1900 Combiner COM 4 port TO/FROM Antenna -45 port
19	1900MHz
19	Spare Fiber Pairs & DC Power terminated, weatherproofed, spooled and be wrapped to side of 800MHz RRH (cable management)
19	Notes
2	Alarm jumper cap connection. This alarm jumper must be in place to make the RRH # 2 of the pair. (# 2 is always the one farthest from the pipe)
19	Notes
2	Power Cable "Y" jumper. C-Tap jumper from Pair 3 to 1900 RRH2. Weatherproof C-Tap and leave 18-24" loop
19	Notes

CONNECTION LEGEND
SCALE: N.T.S.

IMPORTANT:

GENERAL CONTRACTOR/TOWER CREW SHALL VERIFY THAT THE LATEST NETWORK VISION RAN CONNECTION DIAGRAMS ARE USED FOR EQUIPMENT INSTALLATION

IMPORTANT:

VELCRO STRAPS ONLY MAY BE USED ON FIBER. CABLE TIES OR TIE WRAP MUST NOT BE USED ON FIBER.

Sprint
VISION
"NETWORK VISION MMBIS LAUNCH"
1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07455
TEL: (800) 357-7641



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Hudson
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Daniel P. Hamm

CHECKED BY: JX

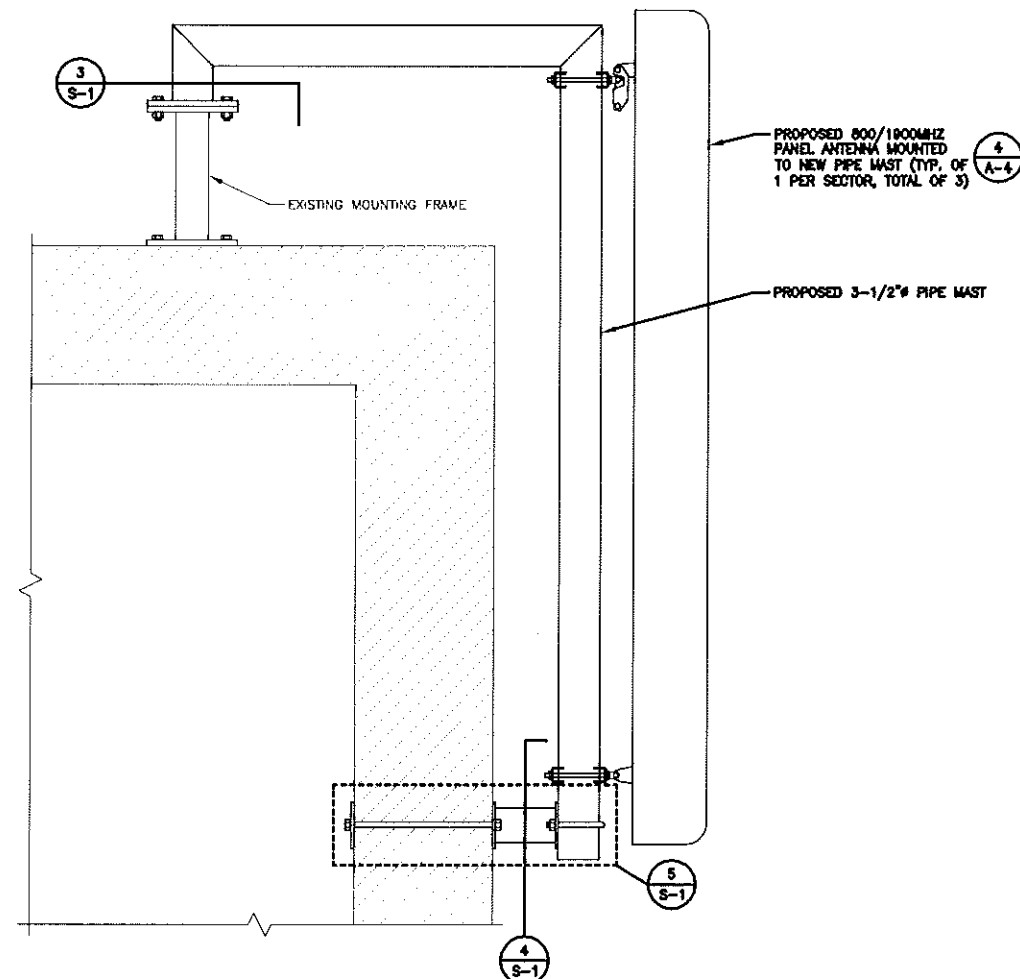
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PORTLAND, ME 04101

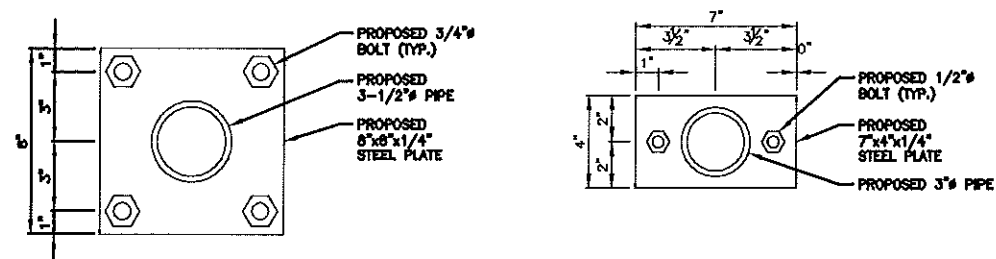
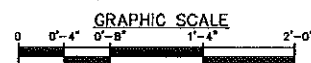
SHEET TITLE
CABINET &
ANTENNA WIRING
DIAGRAM

SHEET NUMBER
A-6



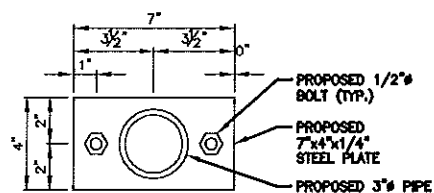
ANTENNA MOUNTING DETAIL

SCALE: 1-1/2" = 1'-0"



MOUNT DETAIL

SCALE: 3" = 1'-0"



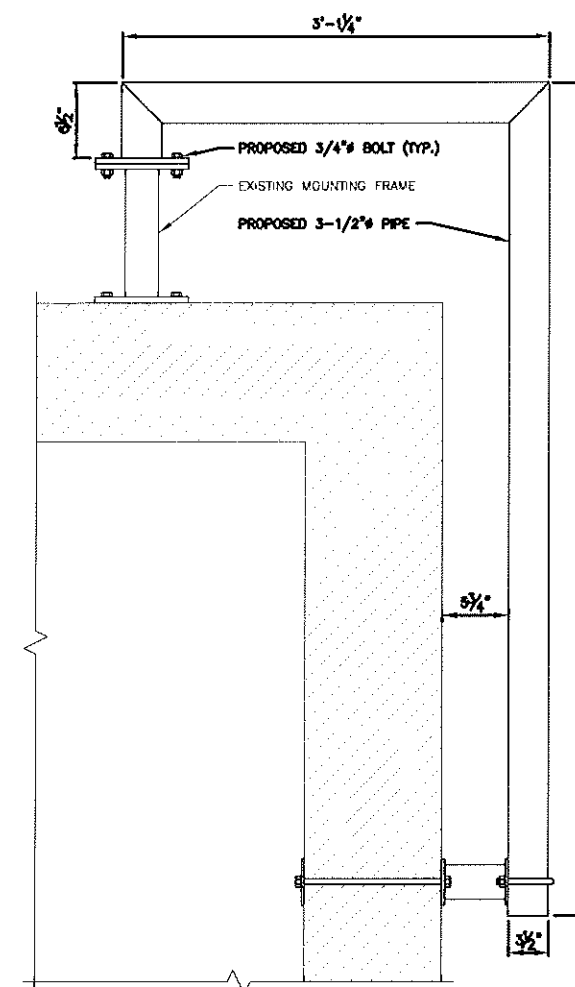
MOUNT DETAIL

SCALE: 3" = 1'-0"



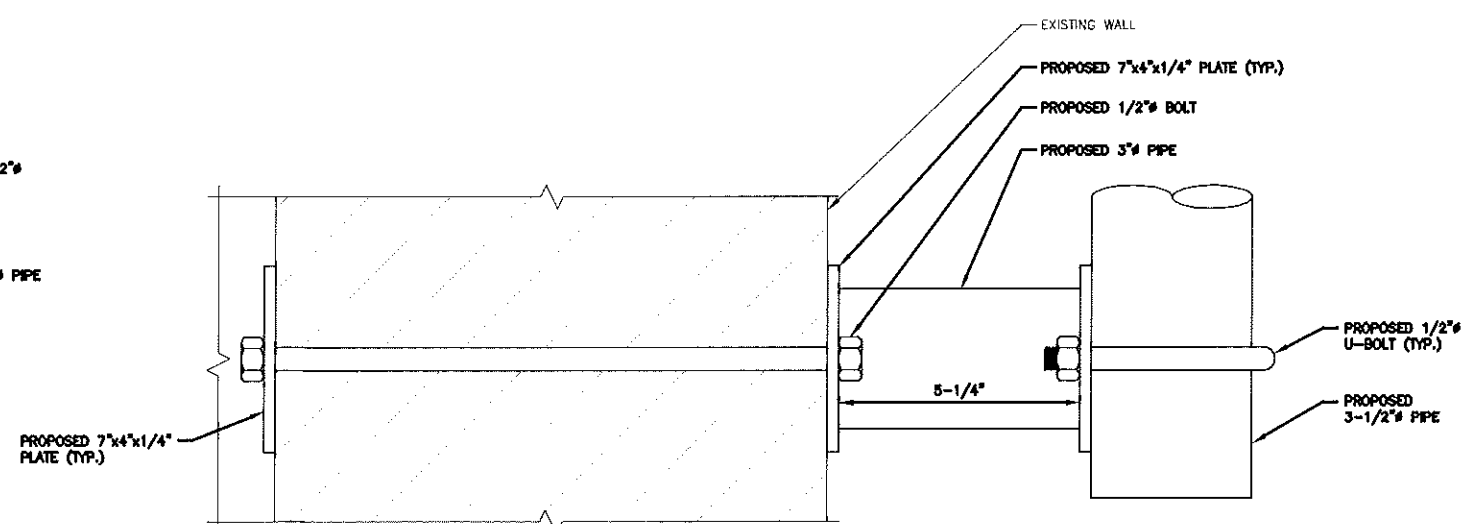
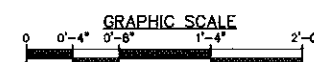
NOTE:

G.C. TO VERIFY IN FIELD THAT PROPOSED PLATES MATCHES EXISTING PLATE SIZE AND BOLT LOCATION. IF DIFFERENT, G.C. TO CONTACT ENGINEER



MOUNT DETAIL

SCALE: 1-1/2" = 1'-0"



MOUNT DETAIL

SCALE: 3" = 1'-0"



NOTE:

G.C. TO VERIFY IN FIELD EXISTING WALL HAS NO OBSTRUCTIONS IN AREA OF PLACEMENT FOR THROUGH BOLTS. IF OBSTRUCTIONS ARE PRESENT, G.C. TO CONTACT ENGINEER FOR REDESIGN.

NOTES:

- 1) VERIFY EXACT RRH AND ANTENNA MODEL & AZIMUTHS WITH RF ENGINEER PRIOR TO INSTALLATION.
- 2) RRH LOCATION ONLY SHOWN AS REFERENCE. CONTRACTOR TO CONFIGURE RRHS AS NEED TO MEET PROPOSED REQUIREMENTS.

STRUCTURAL NOTE:

STRUCTURAL INFORMATION TAKEN FROM STRUCTURAL ANALYSIS PERFORMED BY HUDSON DESIGN GROUP, LLC. DATED: DECEMBER 6, 2012

Sprint

NETWORK VISION MMBIS LAUNCH
1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07435
TEL: (800) 357-7641



Alcatel-Lucent

1 ROSBINS ROAD
WESTFORD, MA 01886
TEL: (978) 952-1600

Hudson
Design Group, LLC



1400 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5533
FAX: (978) 335-5585

Daniel P. Hamm

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
2	01/07/13	FOR CONSTRUCTION	BR
1	11/29/12	ISSUED FOR REVIEW	SF

SITE NUMBER:
BS43XC827

SITE NAME:
EASTERN
PROMENADE

SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

STRUCTURAL
DETAILS

SHEET NUMBER

S-1

Sprint

NETWORK VISION HANDBOOK
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MAHWAH, NJ 07475
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Hudson
Design Group, Inc.



1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 300
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 333-5555

Daniel P. Hamm

NOTES:

- 1) VERIFY EXACT RRH AND ANTENNA MODEL & AZIMUTHS WITH RF ENGINEER PRIOR TO INSTALLATION.
- 2) RRH LOCATION ONLY SHOWN AS REFERENCE. CONTRACTOR TO CONFIGURE RRHS AS NEED TO MEET PROPOSED REQUIREMENTS.

STRUCTURAL NOTE:

STRUCTURAL INFORMATION
TAKEN FROM STRUCTURAL
ANALYSIS PERFORMED BY
HUDSON DESIGN GROUP, LLC.
DATED: DECEMBER 6, 2012

NUMBER OF BLOCKS PER SIDE	5
SIZE OF BLOCKS	4'x8'x16"
WEIGHT OF BLOCKS	36 lbs. EACH
TOTAL WEIGHT OF BLOCKS PER SIDE	180 lbs.
TOTAL NUMBER OF BLOCKS	15
TOTAL BALLAST WEIGHT	670 lbs.

PROPOSED ANDREW UNIVERSAL
TRIPOD MOUNT, PART# TP-6238-98
OR APPROVED EQUAL

PROPOSED 800/1900MHZ PANEL
ANTENNA MOUNTED TO NEW PIPE MAST
(TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED 800MHZ & 1900MHZ RRH
UNIT MOUNTED TO BALLAST MOUNT

PROPOSED PIPE MAST MOUNTED
TO BALLAST MOUNT (TYP.)

PROPOSED 1/2" U-BOLT (TYP.)

PROPOSED 6"x8-1/2"x1/2" PLATE

PROPOSED 1/2" BOLT (TYP.)

PROPOSED ANDREW
NON-PENETRATING ROOF
SLED, PART# MT-416
OR APPROVED EQUAL

PROPOSED BLOCK TIE DOWNS

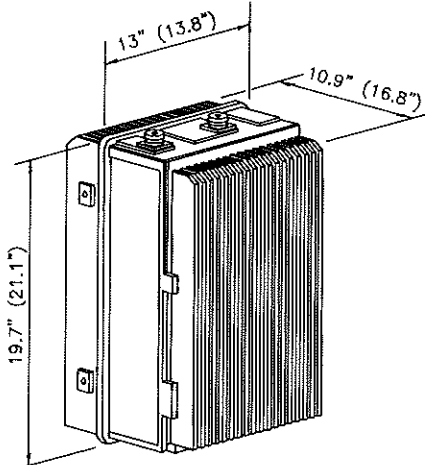
PROPOSED BALLAST BLOCKS
(SEE BLOCK CHART FOR TOTAL)

EXISTING BUILDING

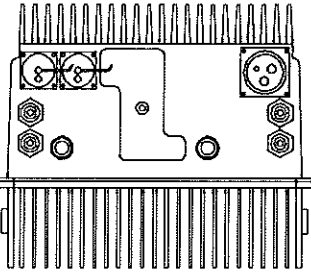
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SCALE: 1-1/2" = 1'-0"

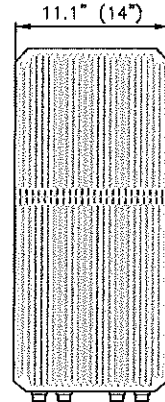
1
S-2



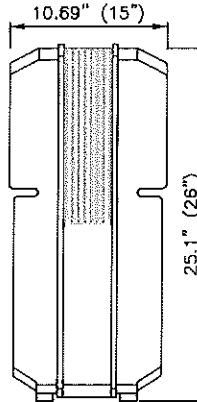
DIMENSIONS WITHIN PARENTHESES
ARE FOR THE EXTERIOR SHELL
MOUNTING BRACKET, & NOTCH
FILTER NOT SHOWN



BOTTOM VIEW



FRONT



SIDE

DIMENSIONS WITHIN PARENTHESES
ARE FOR THE EXTERIOR SHELL
AND MOUNTING BRACKET

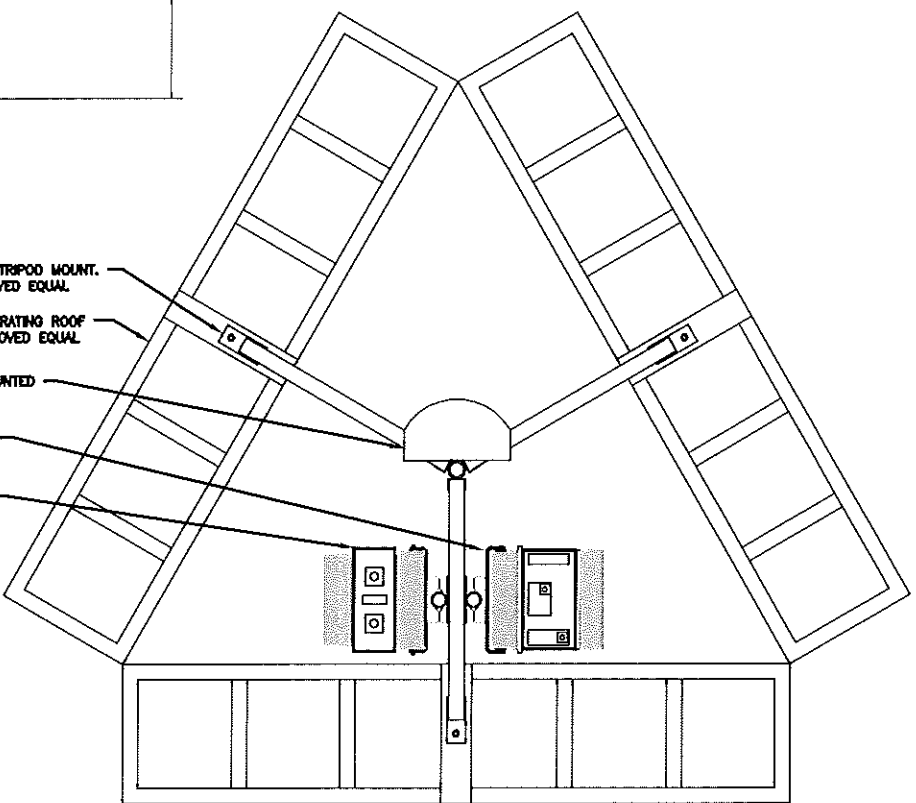
PROPOSED ANDREW UNIVERSAL TRIPOD MOUNT,
PART# TP-6238-98 OR APPROVED EQUAL

PROPOSED ANDREW NON-PENETRATING ROOF
SLED, PART# MT-416 OR APPROVED EQUAL

PROPOSED PANEL ANTENNA MOUNTED
TO PROPOSED BALLAST MOUNT

PROPOSED 1900MHZ RRH UNIT
MOUNTED TO BALLAST MOUNT

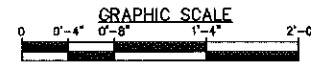
PROPOSED 800MHZ RRH UNIT
MOUNTED TO BALLAST MOUNT



ANTENNA MOUNTING DETAIL

SCALE: 1-1/2" = 1'-0"

4
S-2



CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
2	01/07/13	FOR CONSTRUCTION	BR
1	11/29/12	ISSUED FOR REVIEW	SF

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BS43XC827

SITE NAME:
EASTERN
PROMENADE

SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

STRUCTURAL
DETAILS

SHEET NUMBER

S-2

FD-RRH-2x50-800

SCALE: N.T.S.

2
S-2

FD-RRH-4x40-1900

SCALE: N.T.S.

3
S-2

SPECIAL GROUNDING NOTE:

FOR NEW OR REPAIRED GROUNDING EQUIPMENT, REFER TO SPRINT GROUNDING STANDARDS AND THE FOLLOWING (SUPPLEMENTS):

- ANTI-THEFT UPDATE TO SPRINT GROUNDING DATED 08.24.12.
- SPRINT ENGINEERING LETTER EL-0504 DATED 04.20.12

CONTRACTOR (ELECTRICIAN) TO VERIFY IN THE FIELD THAT THE CABLING SERVING THE EXISTING BTS CABINET FROM THE EXISTING POWER PANEL IS RATED EQUAL TO OR GREATER THAN THE #2 AWG SPECIFIED FOR THE PROPOSED BTS 9928 CABINET. UPGRADE THE CABLING AND CONDUIT IF NEEDED.

EXISTING CABLE GROUNDING KIT
PROPOSED INTERNAL GROUND KIT & #6 CONDUCTOR W/ 2 HOLE LUG.

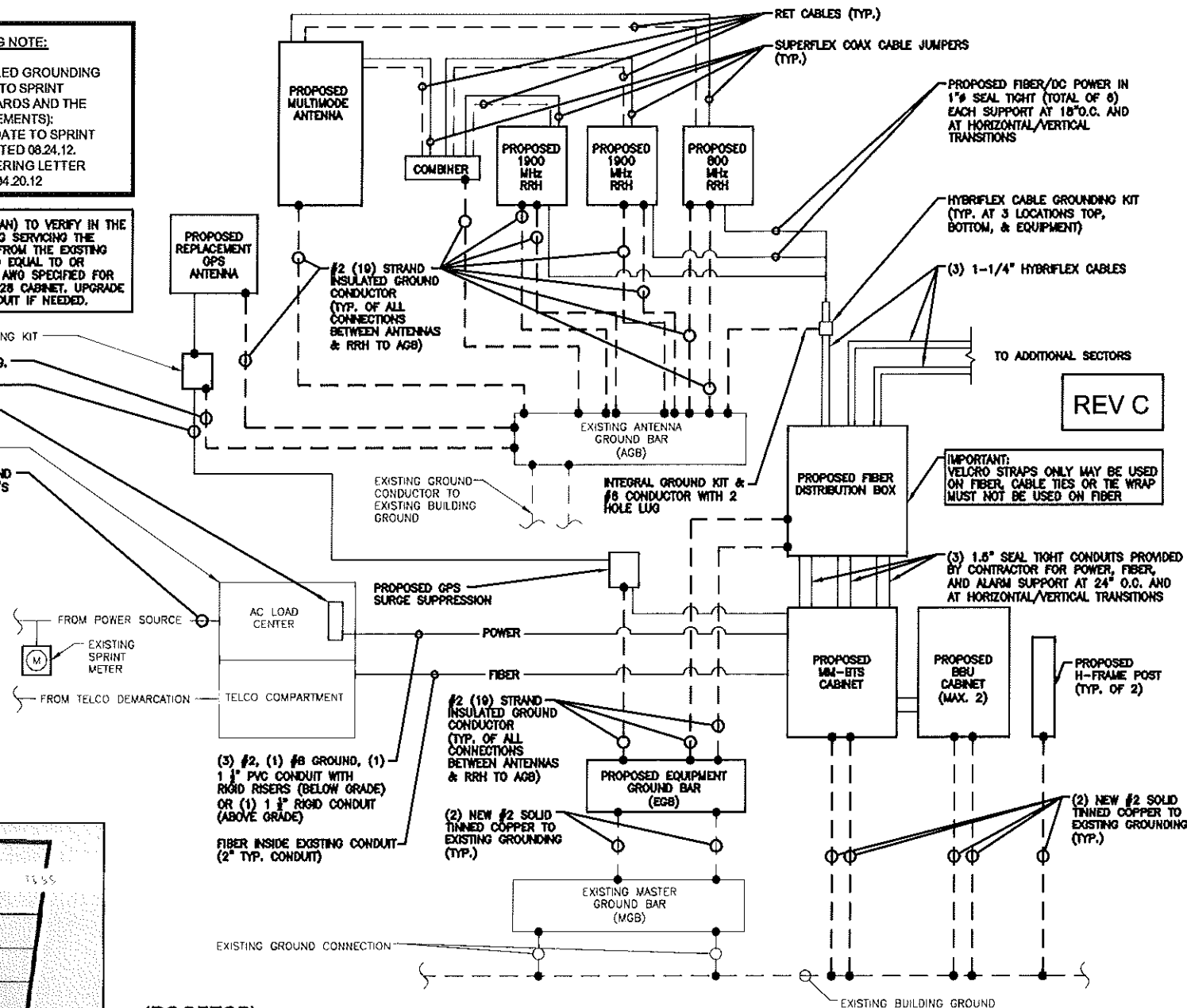
PROPOSED GPS COAX

PROPOSED 100A/2P BREAKER IN EXISTING PANEL (VERIFY BREAKER REQUIREMENTS W/ EQUIPMENT MANUFACTURER AND SPRINT)

EXISTING PPC CABINET OR MAIN ELECTRICAL PANEL

GENERAL CONTRACTOR SHALL UPGRADE THE SIZE OF THE CONDUIT AND CONDUCTORS AS NEEDED, BASED ON THE EQUIPMENT MANUFACTURER'S TECHNICAL SPECIFICATIONS FOR THE MULTIMODE CABINET

IMPORTANT: ANTENNA CABLE SHIELD FOR RF AND GPS ANTENNAS MUST BE BONDED AT THE TOP OF TOWER NEXT TO ANTENNA AND AT BOTTOM OF VERTICAL RUN. ANTENNA SHIELD MUST BE BONDED AT 100' INTERVALS IF CABLE RUN EXCEEDS 100'.

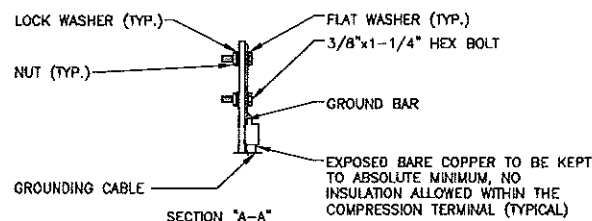
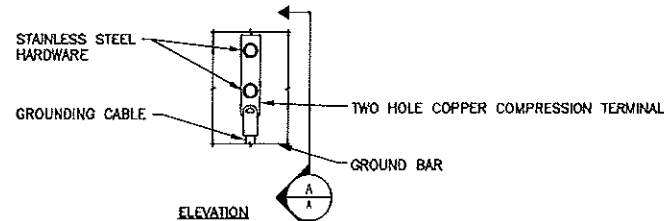
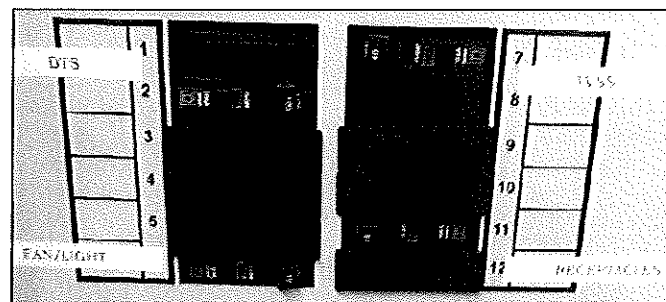


(ROOFTOP)
TYPICAL POWER & GROUNDING ONE LINE DIAGRAM

SCALE: N.T.S.

1
E-1

EXISTING PANEL SCHEDULE

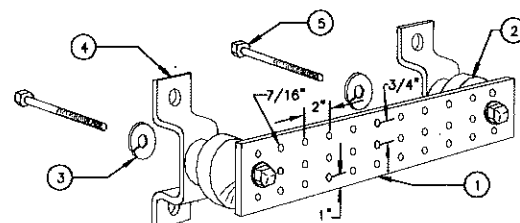


- NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB AND MGB.

TYPICAL GROUND BAR CONNECTION DETAIL

SCALE: N.T.S.

2
E-1



LEGEND

- 1- COPPER TINNED GROUND BAR, 1/4"x4"x20", OR OTHER LENGTH AS REQUIRED, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
- 2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
- 3- 5/8" LOCKWASHERS OR EQUAL
- 4- WALL MOUNTING BRACKETS, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL
- 5- 5/8- 11x1" H.H.C.S.BOLTS

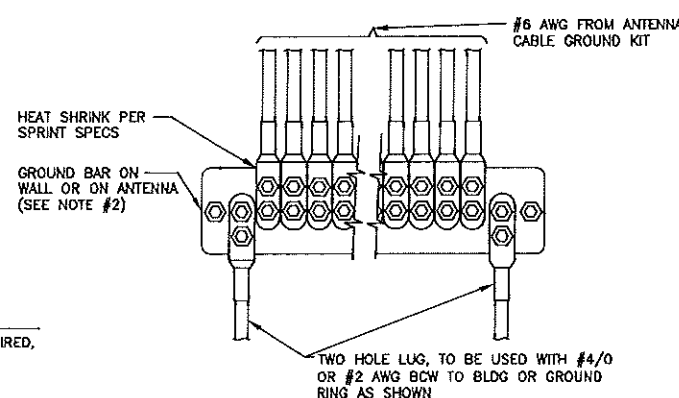
NOTES:

1. ALL BOLTS, NUTS, WASHERS AND LOCK WASHERS SHALL BE 18-8 STAINLESS STEEL.
2. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

TYPICAL GROUND BAR DETAIL

SCALE: N.T.S.

3
E-1



NOTES:

1. CONTRACTOR TO UTILIZE KOPR-SHIELD (THOMAS & BETTS) ON ALL LUG CONNECTIONS.
2. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

TYPICAL INSTALLATION OF GROUND WIRE TO GROUND BAR DETAIL

SCALE: N.T.S.

4
E-1

ELECTRICAL NOTES

- 1) ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
 - 2) THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH LOCAL UTILITY COMPANIES AND SPRINT CONSTRUCTION MANAGER.
 - 3) ALL CONDUITS ROUTED BELOW GRADE SHALL TRANSITION TO RIGID GALVANIZED ELBOWS WITH RIGID GALVANIZED STEEL CONDUIT ABOVE GRADE.
 - 4) ALL METAL CONDUITS SHALL BE PROVIDED WITH GROUNDING BUSHINGS.
 - 5) GENERAL CONTRACTOR SHALL PROVIDE ALL DIRECT BURIED CONDUITS WITH PLASTIC WARNING TAPE IDENTIFYING CONTENTS. TAPE COLORS SHALL BE ORANGE FOR TELEPHONE AND RED FOR ELECTRIC.
 - 6) ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
 - 7) THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIALS DESCRIBED BY DRAWINGS AND SPECIFICATIONS INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
 - 8) GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
 - 9) ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
 - 10) BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
 - 11) ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.
 - 12) RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
 - 13) RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
 - 14) ABOVE GROUND PORTION OF CONDUIT BETWEEN BTS AND PROJECT OWNER'S CELL SITE PPC SHALL BE RIGID CONDUIT.
 - 15) FOR NEW OR REPAIRED GROUNDING EQUIPMENT, REFER TO SPRINT GROUNDING STANDARDS AND THE FOLLOWING SUPPLEMENTS
- ANTI-THEFT UPDATE TO SPRINT GROUNDING DATED 08.24.12
SPRINT ENGINEERING LETTER EL-0504 DATED 04.20.12

GROUNDING NOTES

- 1) ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 2) ALL GROUND WIRE SHALL BE BARE COPPER #2 AWG UNLESS OTHERWISE NOTED.
- 3) ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- 4) EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER GROUND BAR (MGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2) CONNECTIONS.
- 5) PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED AGB (TYP.)
- 6) ANTENNA GROUND KITS SHALL BE FURNISHED BY SPRINT AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 7) COORDINATE NEW SPRINT GROUND SYSTEM WITH EXISTING SITE GROUND SYSTEM.
- 8) GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH PROJECT OWNER'S BTS SITE GROUNDING STANDARDS.
- 9) GROUND HYBRIFLEX CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURER'S HYBRIFLEX CABLE GROUNDING KITS.
- 10) ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 11) ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 8 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- 12) CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- 13) APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.

Sprint

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TEL: (978) 952-1600

Hudson
Design Group

1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5566

Handwritten signature: Daniel P. Hamm

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

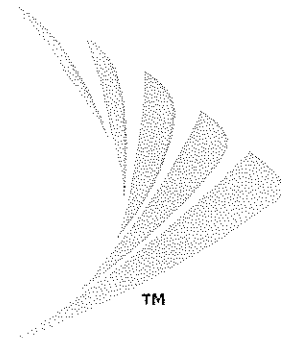
REV.	DATE	DESCRIPTION	BY
2	01/07/13	FOR CONSTRUCTION	BR
1	11/29/12	ISSUED FOR REVIEW	SF

SITE NUMBER:
BS43XC827
SITE NAME:
EASTERN
PROMENADE
SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE
TYPICAL POWER &
GROUNDING ONE
LINE DIAGRAM

SHEET NUMBER

E-1



SITE NUMBER:

BS43XC827

SITE NAME:

EASTERN PROMENADE

SITE ADDRESS:

**340 EASTERN PROMENADE
PORTLAND, ME 04101**



Alcatel-Lucent

1 ROBBINS ROAD
WESTFORD, MA 01886
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Hudson
Design Group, LLC

1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845 TEL: (978) 557-5553
FAX: (978) 336-5586

SITE INFORMATION

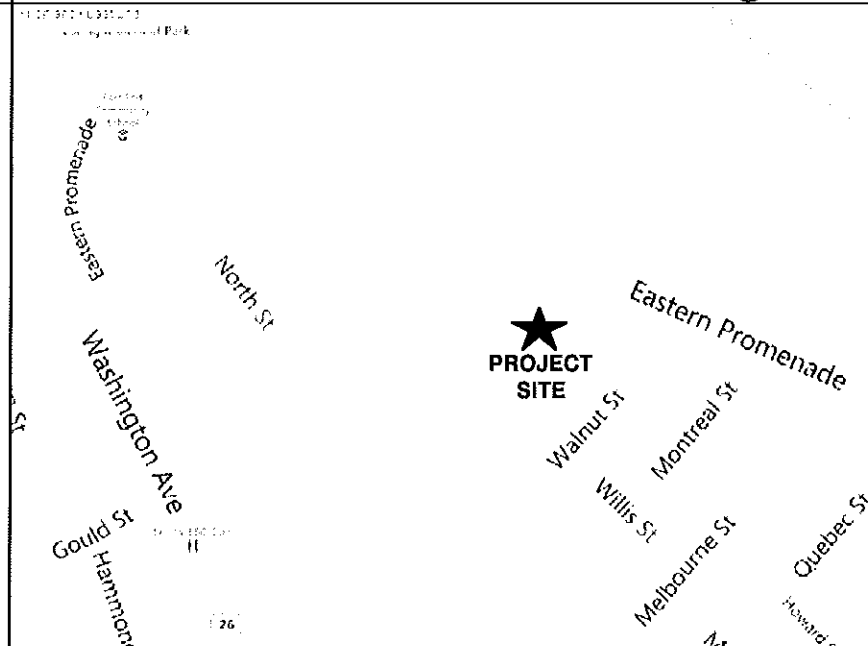
SITE NUMBER:	BS43XC827	LOCAL POWER COMPANY:	CENTRAL MAINE POWER
SITE NAME:	EASTERN PROMENADE	AAV PROVIDER:	FAIRPPPOINT
SITE ADDRESS:	340 EASTERN PROMENADE PORTLAND, ME 04101	APPLICANT:	SPRINT 1 INTERNATIONAL BLVD, SUITE 800 MAHWAH, NJ 07495
COUNTY:	CUMBERLAND	APPLICANT REPRESENTATIVE:	ALCATEL-LUCENT 1 ROBBINS ROAD WESTFORD, MA 01886 TEL: (978) 952-1600
ZONING:	R8 - RESIDENTIAL	SITE ACQUISITION CONSULTANT:	ALCATEL-LUCENT 1 ROBBINS ROAD WESTFORD, MA 01886 TEL: (978) 952-1600
PARCEL ID:	015-A004	A&E CONSULTANT:	HUDSON DESIGN GROUP LLC 1600 OSGOOD STREET BLOG 20 NORTH, SUITE 2-101 NORTH ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586
COORDINATES(*):	N 43°40'12.9" W 70°15'02.36"		
GROUND ELEV.:	109± (AMSL)		
STRUCTURE TYPE:	ROOFTOP		
STRUCTURE HEIGHT:	190' (AGL)		
ANTENNA RAD CENTER:	190'6± (AGL)		
PROPERTY OWNER:	PROMENADE EAST CONDOMINIUM ASSOCIATION 340 EASTERN PROMENADE PORTLAND, ME 04101		

VICINITY MAP

TRUE NORTH



SCALE: N.T.S.



SHEET INDEX

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	0
T-2	SITE PHOTOS	0
A-1	COMPOUND PLAN	0
A-2	DETAILS	0

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

ALCATEL-LUCENT REP:	_____	DATE:	_____
AAV REP:	_____	DATE:	_____
SITE ACQUISITION:	_____	DATE:	_____
LANDLORD/ PROPERTY OWNER:	_____	DATE:	_____

GENERAL NOTES

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION:
- HANDICAPPED ACCESS NOT REQUIRED
- PORTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED
- NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
BUILDING CODE: MASSACHUSETTS STATE BUILDING CODE 780 CMR - 8TH EDITION
ELECTRICAL CODE: 2008 NATIONAL ELECTRICAL CODE
STRUCTURAL CODE: TIA/EIA-222-G OR LATEST EDITION



CALL

BEFORE YOU DIG



CALL TOLL FREE 888-DIG-SAFE

CHECKED BY: KB

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/21/12	FOR REVIEW	MA

SITE NUMBER:
BS43XC827

SITE NAME:
EASTERN
PROMENADE

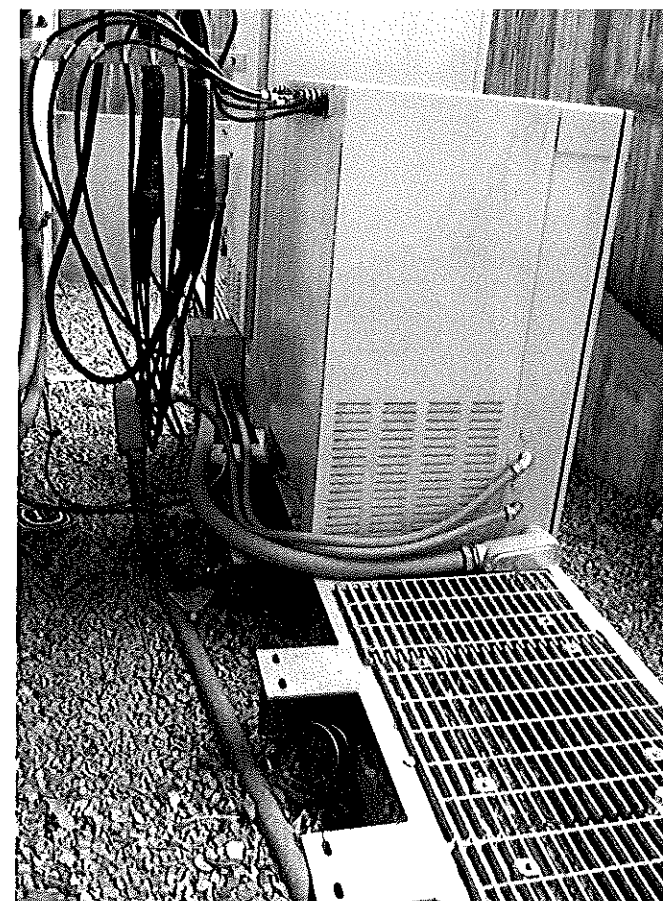
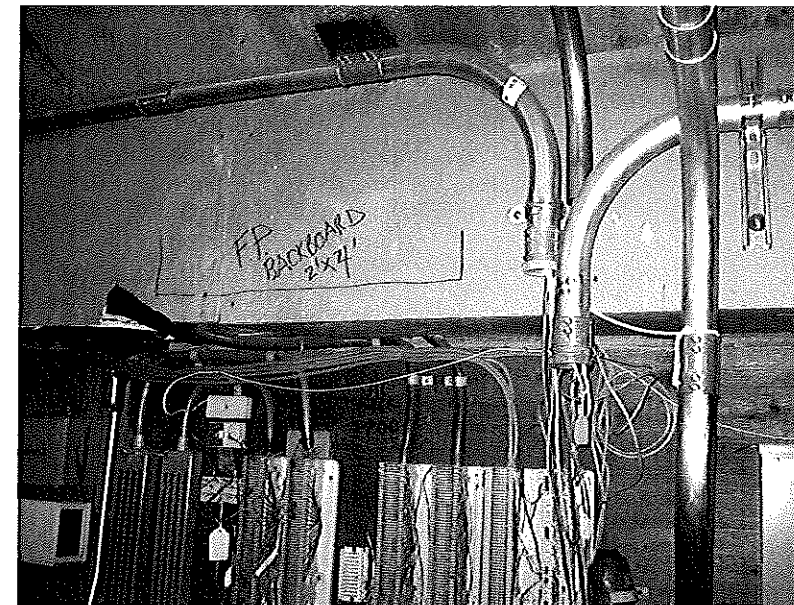
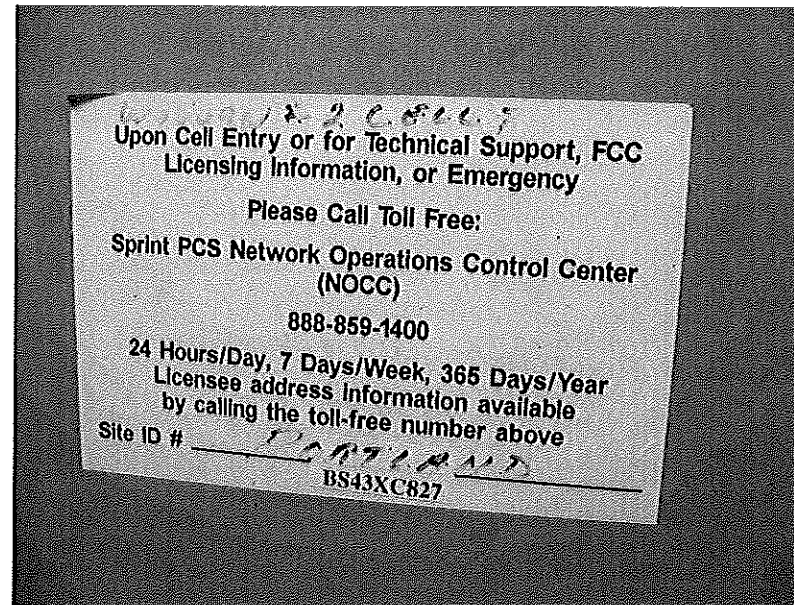
SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



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 | ROBINS ROAD
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Hudson
Design Group, Inc.

00 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 335-5586

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APPROVED BY: DPH

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340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE
SITE PHOTOS

SHEET NUMBER
T-2

MAXIMUM PIPE DIAMETER (")	MAXIMUM EMT	ANNULAR SPACE (in.)	FORMING MATERIAL THICKNESS (in.)	MINIMUM SEALANT THICKNESS (in.)	F RATING (HOURS)	T RATING (HOURS)
1-1/2	-	3/8 TO 2-1/8	2-1/2	2	3	1
6	4	3/8 TO 3/4	3-1/2	1	3	0
6	4	3/8 TO 1	2-1/2	2	3	0

CONCRETE FLOOR OR WALL ASSEMBLY, MINIMUM 4-1/2 in. THICKNESS FLOOR/ MINIMUM 6-1/2 in. WALL

TYPE AS OR TYPE SS:
MINIMUM THICKNESS OF SEALANT AS SPECIFIED IN THE TABLE BELOW, APPLIED WITHIN THE OPENING, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF THE WALL.

FORMING MATERIAL:
MINERAL WOOL INSULATION (MINIMUM 4.0 pcf) FIRMLY PACKED INTO THE OPENING AS A PERMANENT FORM; SEE TABLE FOR MINIMUM REQUIRED THICKNESS

METALLIC PIPE:
STEEL PIPE: 6" (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
CONDUIT: 4" (OR SMALLER) ELECTRICAL METALLIC TUBING (EMT) OR 6" RIGID STEEL CONDUIT.

UL SYSTEM NUMBER: C-AJ-1020
F RATING - 3 HR.

PIPE AND CONDUIT PENETRATION
DETAIL IN CONCRETE OR MASONRY

PACKING MATERIAL: MIN 1-1/2 in. THICKNESS OF MIN 6 pcf MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

ONE 2" SCHEDULE 40 PVC PIPE TO BE CENTERED WITHIN FIRESTOP SYSTEM. A NOM. ANNULAR SPACE OF 5/16" IS REQUIRED WITHIN THE FIRESTOP SYSTEM PIPE SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL/FLOOR ASSEMBLY

FILL VOID OR CAVITY MATERIAL - SEALANT:
MIN 2 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH THE TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

SPECIFIED TECHNOLOGIES INC.
SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT.

UL SYSTEM NUMBER: C-AJ-2057
F RATING - 2 HR.

PVC CONDUIT PENETRATION
DETAIL IN CONCRETE OR MASONRY

WALL HR	MAX DIAM OF THROUGH PENETRANT in.	T RATING HR
1	2	1
1	1-1/4	1
2	2	1
2	1-1/4	1 1/2

THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

THROUGH PENETRANTS: ONE 2" NONMETALLIC PIPE, CONDUIT OR RACEWAY TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOM ANNULAR SPACE OF 5/16 in. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR RACEWAY TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.

FILL VOID OR CAVITY MATERIAL - SEALANT:
MIN 5/8 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1/4 in. THICK CROWN IS FORMED AROUND THE PENETRATING ITEM AND LAPPING 1 in. BEYOND THE PERIPHERY OF THE OPENING.

SPECIFIED TECHNOLOGIES INC.
SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT.

UL SYSTEM NUMBER: W-L-2093
F RATING - 1 & 2 HR.

PVC CONDUIT PENETRATION
DETAIL IN GYPSUM WALLBOARD

PACKING MATERIAL: MIN. 1 in. THICKNESS OF MIN. 3.5 pcf FIBERGLASS INSULATION SHALL BE WRAPPED AROUND THE THROUGH-PENETRANT AND SECURED TOGETHER BY MEANS OF NO. 24 AWG STEEL TIE WIRE. PACKING MATERIAL SHALL BE CENTERED AT MID-DEPTH OF OPENING AND RECESSED FROM BOTH SURFACES OF WALL ASSEMBLY REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

FILL VOID OR CAVITY MATERIAL - CAULK OR PUTTY:
IN 2 HR FIRE RATED ASSEMBLIES MIN 3/4 in. THICKNESS FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1/4 in. CROWN IS FORMED AROUND THE PENETRATING ITEM. IN 1 HR FIRE RATED ASSEMBLIES, MIN 5/8 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS ON BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 3/8 in. CROWN IS FORMED AROUND THE PENETRATING ITEM AND LAPPING 1 in. BEYOND THE PERIPHERY OF THE OPENING.

SPECIFIED TECHNOLOGIES INC.
SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT OR SPECSEAL PUTTY.

UL SYSTEM NUMBER: W-L-1029
F RATING - 1 & 2 HR.

PIPE AND CONDUIT PENETRATION
DETAIL IN GYPSUM WALLBOARD

GROUT ALL VOIDS
AROUND SLEEVES

CONDUIT

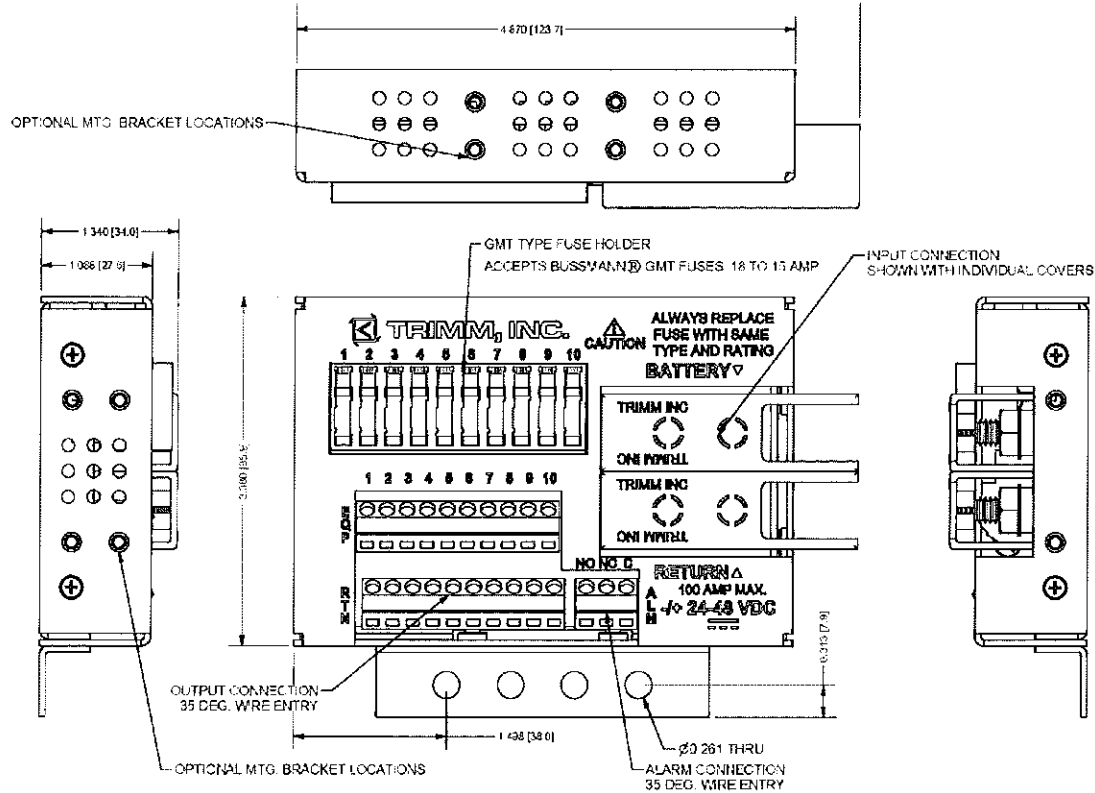
NOTE:
CORE HOLE 1 1/2" LARGER THAN THE DIAMETER OF THE CONDUIT. CORE DRILLS TO BE SEALED WITH ELASTOMERIC SEALANT.

PIPE AND CONDUIT PENETRATION
DETAIL IN NON-RATED PARTITION

ALL CORES THROUGH ELECTRIC
ROOMS TO BE FIRE-STOPPED.
USE FULL CONDUIT RUNS
THROUGH PENETRATIONS

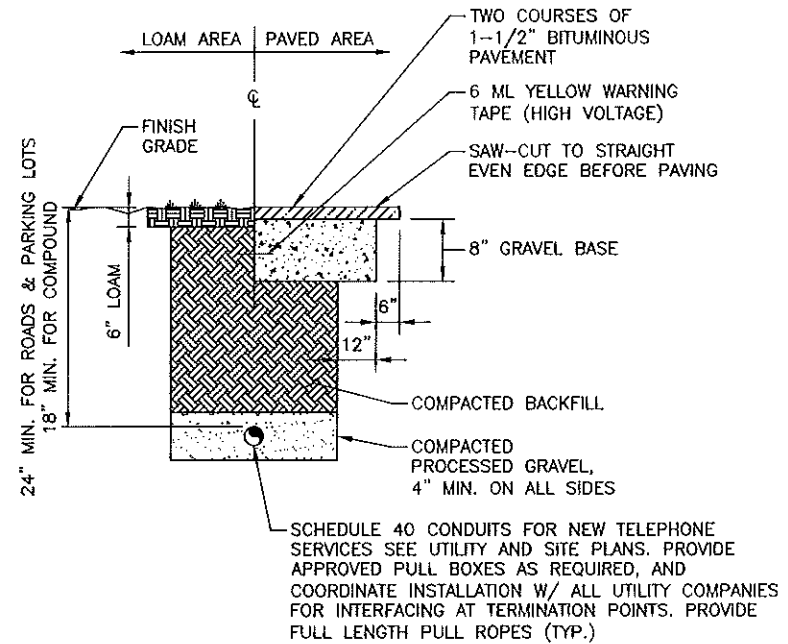
PENETRATION DETAILS

SCALE: N.T.S.



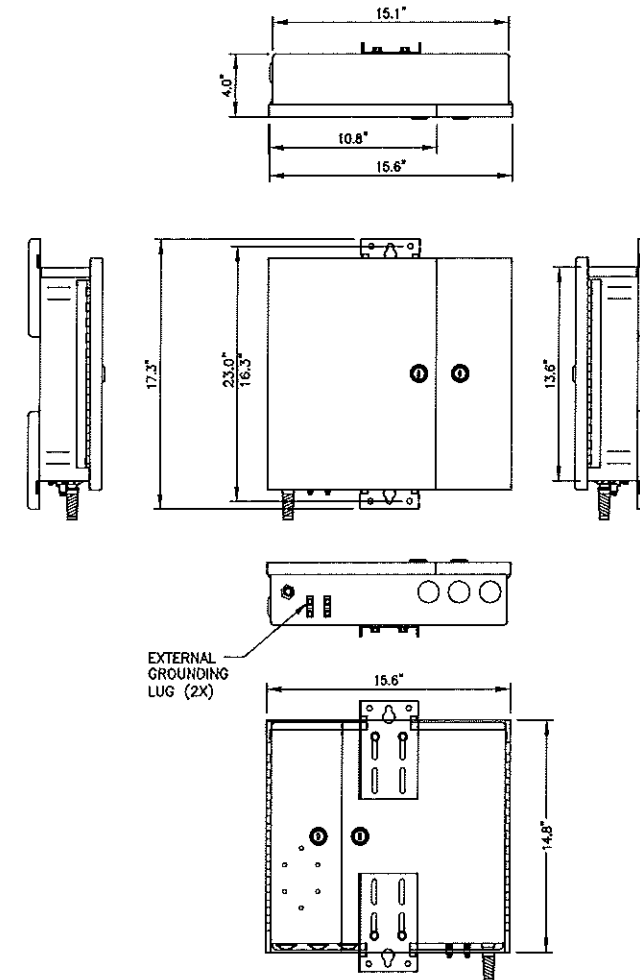
FUSE PANEL DETAIL

SCALE: N.T.S.



BURIED CONDUIT DETAIL

SCALE: N.T.S.



METRO NID CABINET DETAIL

SCALE: N.T.S.

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CHECKED BY: KB

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/21/12	FOR REVIEW	MA

SITE NUMBER:
BS43XC827

SITE NAME:
EASTERN
PROMENADE

SITE ADDRESS:
340 EASTERN PROMENADE
PORTLAND, ME 04101

SHEET TITLE

DETAILS

SHEET NUMBER

A-2