DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

ALPINE REALTY CORP / Netcom Wireless Facilities

Located at

509 FOREST AVE

PERMIT ID: 2013-00040

CBL: 127 A002001

has permission to replace/upgrade antennas, cables & equipment cabinets on building.

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 clsoed-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

PERMIT ID: 2013-00040 Located at: 509 FOREST AVE CBL: 127 A002001

City of Portland, Maine -	Building or Use	Permit Applicat	tion	Permit No:	Issue Date:		CBL:	
389 Congress Street, 04101	Tel: (207) 874-8703	, Fax: (207) 874-8	8716	2013-00040			127 A002001	
Location of Construction:	Owner Name:		Owner	Address:			Phone:	
509 FOREST AVE	ALPINE REA	LTY CORP 380 WARI 04103			ARREN AVE PORTLAND, ME			
Business Name:	Contractor Name	:	Contra	actor Address:			Phone	
		com Wireless Facilities		evo Park Drive U 02360	Jnit 3 Plymou	ıth	(508) 732-0020	
Lessee/Buyer's Name	Phone:			Permit Type: Alterations - Commercial			Zone: B2b	
Past Use:	Proposed Use:		Permi		Cost of Work:		CEO District:	
Commercial	Commercial			\$170.00	\$15,0	00.00	7	
			FIRE	- T	Denied U	ISPECTION SERVICE GROUP:	Elecommunic	
Proposed Project Description:	/ fequipmen	+		1.0	ľ	1	1	
Install and upgrade cell tower/ar	ntenna on building.		Signat			ignature:	Jub 1/30/13	
			PEDE	STRIAN ACTIVIT	IES DISTRICT	(P.A.D.)	. 1	
				etion: Approve	ed Approv	ved w/Con		
Permit Taken By: bjs	Oate Applied For: 01/07/2013		1 34		Approval			
			Reviews	vs Zoning Appeal			Historic Preservation	
 This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 		Shoreland		☐ Variance			Not in District or Landmar	
 Building permits do not inc septic or electrical work. 	elude plumbing,	☐ Wetland		☐ Miscellar	Miscellaneous		Does Not Require Review	
3. Building permits are void it within six (6) months of the	date of issuance.	Flood Zone		Condition	nal Use		Requires Review	
False information may inva permit and stop all work	lidate a building	Subdivision		Interpreta	ation		Approved	
		Site Plan		Approved	d		Approved w/Conditions	
		Maj Minor	ММ	☐ Denied			Denied	
		Date: 1913	M	Date:		Date:	hen	
		CERTIFICA	TION					
hereby certify that I am the own that I have been authorized by the this jurisdiction. In addition, if a representative shall have the authorized code(s) applicable to such permi	ne owner to make this a permit for work desc thority to enter all area	application as his au ribed in the applicat	uthorize tion is i	ed agent and I ag issued, I certify the	ree to conform hat the code of	n to all a	applicable laws of authorized	
SIGNATURE OF APPLICANT		ADDI	RESS		DATE		PHONE	
RESPONSIBLE PERSON IN CHARG	E 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: 509	Forest	St.			
Total Square Footage of Proposed Structure/A	rea	Square Footage of Lot			
Tax Assessor's Chart, Block & Lot	Applicant *	must be owner Lessee or Buyer	* Telephone:		
Chart# Block# Lot#	Name Sp		978-828-3264		
127 A00200 1	Address 1 International Blvd Kristen LeDuc Suite 800 tgent/Sprint				
19 1 100 200 1	Address	suite 800	d Kristen LeDuc Agent/Sprint		
	City, State &	k Zip Mahwah, NJ074	95		
Lessee/DBA (If Applicable)	,	ifferent from Applicant)	Cost Of		
	Name Al	oine Realty Corp	Work: \$ 15,000		
	Address 38	30 Warren Ave.	C of O Fee: \$		
	City, State &	k Zip Portland ME 04103	Total Fee: \$ 170.00		
Current legal use (i.e. single family)	mercia				
If vacant, what was the previous use? N/A					
Proposed Specific use: Wire 155 Commu	unication	modification-u	nmanned.		
Project description: The star II Fibru	Dist. bo	t yes, please name	a Benlace		
existing antennas, Rep	Tace	existing GPS Anter	nna.		
Replace existing Coar Cat	ICE EX	ybridtlex Cables. Bei	nace carrier w/		
Is proposed specific use: Wire 1835 Commo Is property part of a subdivision? No Project description: Install Fiber existing antennas, Rep Replace existing Coar Cab equipment (abinets, Rep	raco cr	Fiber	optics.		
Contractor's name: Criavies 15. Anti,	NETCO	m Wireless Facili	tics L		
Address: 10 Acro Park Dr. Ur			T-0 70 1 1 1		
City, State & Zip Plymouth, MA C	2360		elephone: 508 · 732 · 0020		
Who should we contact when the permit is read	-		elephone: <u>478-828-3264</u>		
Mailing address: 8 Brentwood Cr	· Dany	lus MA 01923			
Please submit all of the information	outlined o	n the applicable Checkli	st. 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 De	evelopment Department		
may request additional information prior to the iss	suance of a pe	ermit. For further information	or to download copies of		
this form and other applications visit the Inspection	ons Division o	n-line at www.portlandmaine.gov	r stop by the Inspections		
Division office, room 315 City Hall or call 874-8703.			DOF BUILTY ZOS		
I hereby certify that I am the Owner of record of the nether I have been authorized by the owner to make this	amed property	or that the owner of record authorized agent. I agree to	orizes the proposed work and		
aws of this jurisdiction. In addition, if a permit for wor	rk described in	this application is issued, I certify	that the Code Official's		
authorized representative shall have the authority to en	ter all areas co	vered by this permit at any reasona	ble hour to enforce the		
provisions of the codes applicable to this permit.					
Signature: Knist of Oug Aspri	int Dat	te: 1-4-13			
- Man Care, rigeri		, , , ,	it is isone		
i nis is not a permit; you may	not commer	nce ANY work until the perm	IL 15 155UC		



January 4, 2013

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

RE: Sprint Site modification at 509 Forest Street, Portland, Maine

Jeanie,

Enclosed please find a Building Permit Application, site plans and related documents for Sprint's modification project at 509 Forest Street. 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





Commercial Interior & Change of Use Permit Application Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

One (1) complete set of construction drawings must include:

	re: Construction documents for costs in excess of \$50,000.00 must be prepared by a Design fessional and bear their seal.
	Cross sections w/framing details
	Detail of any new walls or permanent partitions
	Floor plans and elevations
	Window and door schedules
	Complete electrical and plumbing layout.
M	Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment,
	HVAC equipment or other types of work that may require special review
	Insulation R-factors of walls, ceilings, floors & U-factors of windows as per the IEEC 2003
	Proof of ownership is required if it is inconsistent with the assessors records.
	Reduced plans or electronic files in PDF format are required if originals are larger than 11" x 17".
	Per State Fire Marshall, all new bathrooms must be ADA compliant.
Separ	ate permits are required for internal and external plumbing, HVAC & electrical installations
	dditions less than 500 sq. ft. or that does not affect parking or traffic, a site plan ption should be filed including:
	The shape and dimension of the lot, footprint of the existing and proposed structure and the
	distance from the actual property lines. Location and dimensions of parking areas and driveways, street spaces and building frontage.
	Dimensional floor plan of existing space and dimensional floor plan of proposed space.
	(inor Site Plan Review is required for any change of use between 5,000 and 10,000 sq. ft. mulatively within a 3-year period)



CERTIFICATE OF LIABILITY INSURANCE

DATE (NEWDD/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 policyties) 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).

monucm O'Grady Insurance Agency	CONTACT NAME: PHOME LAC NO Exit: FAX					
117 Court Street	ADORESS:					
Plymouth, MA 02360	INSURER(S) AFFORDING COVERAGE	NAIC#				
	INSURER A : ESSEX INSURANCE CO					
NSURED	INSURER B : QUINCY MUTUAL					
NETCOM WIRELESS FACILITIES 2,	INSURER C: TORUS SPECIALTY INS. CO					
INC.	INSURERD: LIBERTY MUTUAL FIRE INS CO					
10 AERO PARK DR, UNIT 3	INSURER E:					
PLYMOUTH, MA 02360	INSURER F:					
COVERAGES CERTIFICATE NUMBER:	REVISION NUMBER:					

COVERAGES

CERTIFICATE 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, LIWITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

VSR TR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	MINIODAY YYY)	POLICY EXP	LIMIT	3	
A	GENERAL LIABILITY	Y	Y	3DG5178	11/9/11	11/9/12	DAMAGE TO RENTED	5	1,000,000
1	X COMMERCIAL GENERAL LIABILITY			Begge			PREMISES (Ea occurrence)	S	50,000
-	CLAIMS-MADE X OCCUR		*				MED EXP (Any one person)	S	1,000
-							PERSONAL & ADVINURY	5	1,000,000
-							GENERAL AGGREGATE	5	2,000,000
-	GEN'L AGGREGATE LIMIT APPUES PER	1					PRODUCTS - COMPIOP AGG	S	1,000,000
	X POLICY FOT LOC						COMPRESSED ET ME	2	
B	AUTOMOBILE LIABILITY	A	¥	AFV205857	2/22/12	2/22/13	COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
	ANY AUTO ALLOWNED X SCHEDULED AUTOS X HIRED AUTOS X AUTOS				BOOKLY (NULRY (Per person)	5			
1						BODILY INJURY (Per accident)	\$		
1					44,00		PROPERTY DAMAGE (Peraccident)	5	
								\$	
C	X UMBRELLA LIAB X OCCUR	A	Y	85215C120AL1	2/9/12	2/9/13	EACH OCCURRENCE	s	4,000,000
ĺ	EXCESS LIAB CLAIMS-MADE				1		AGGREGATE	s	4,000,000
1	DED RETENTION'S	1						\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABRITY			WC5-31S-375622-022	2/18/12	2/18/13	WC STATU- OTH-		
1	ANY PROPRIETO PARTNERS YES THE	NIA					EL EACH ACCIDENT	\$	500,000
- 1	(Mandatory in NH)				1		EL DISEASE - EA EMPLOYEE	S	500,000
- 1	f yes, describe under DESCRIPTION OF OPERATIONS below				ĺ		EL DISEASE - POLICY LIMIT	S	500,000

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

COSTROTTA CONSTRUCTION MANAGEMENT INC AND ALL OTHER PARTIES ARE REQUIRED BY CONTRACT ARE INCLUDED AS ADDITIONAL INSUREDS 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

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

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ACORD 25 (2010/05)

The ACORD name and logo are registered marks of ACORD E-Mail:



Massachusetts - Department of Public Safety
Board of Building Population Board of Building Regulations and Standards

Construction Supervisor License: CS-094261

CHARLES B ANTI 100 BARNFIELD DRIVE PLYMOUTH MA 02360

Commissioner

Expiration 10/29/2013

Sprint PCS Site ID #: BS62XC009A

Site Name: 509 Forest Ave., Portland, ME

- 14. Hazardous Substances. Owner represents and warrants to Sprint PCS that it has no knowledge of any substance, chemical or waste on the Site that is identified as hazardous, toxic or dangerous (collectively, "Substance") in any applicable federal, state or local law or regulation. Sprint PCS will not introduce or use any Substance on the Site in violation of any applicable law. Owner will have sole responsibility for the identification, investigation, monitoring and remediation and/or cleanup of any Substance discovered at the Site unless the presence or release of the Substance is caused by the activities of Sprint PCS.
- 15. Subordination and Non-Disturbance. This Agreement is subordinate to any mortgage or deed of trust of record against the Site as of the Lease Commencement Date. Promptly after this Agreement is fully executed, however, Owner will obtain a non-disturbance agreement in a form reasonably acceptable to Sprint PCS from the holder of any mortgage or deed of trust.
- 16. Property Taxes. Sprint PCS will be responsible for payment of all personal property taxes assessed directly upon and arising solely from its use of the Facilities on the Site. Sprint PCS will pay to Owner any increase in real property taxes attributable solely to any improvements to the Site made by Sprint PCS within 60 days after receipt of satisfactory documentation indicating calculation of Sprint PCS' share of the real estate taxes and payment of the real estate taxes by Owner. Owner will pay when due all other real estate taxes and assessments attributable to the property of Owner of which the Site is a part.
- 17. Insurance. Sprint PCS will procure and maintain commercial general liability 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 after Sprint PCS' receipt of a written request. 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 by subrogation against the other party in connection with any damage covered by the policy.
- 18. Maintenance. Sprint PCS will be responsible for repairing and maintaining the Facilities and any other improvements installed by Sprint PCS at the Site in a proper operating and reasonably safe condition; provided, however, if any repair or maintenance is required due to the acts or omissions of Owner, its agents, contractors or employees, Owner will promptly reimburse Sprint PCS for the reasonable costs incurred by Sprint PCS 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) Owner agrees to promptly execute and deliver to Sprint PCS a recordable Memorandum of Agreement in the form of Exhibit B, attached hereto; (d) this Agreement (including the Exhibits) constitutes the

Attach Exhibit A1-A2-A3-A4 Lease Exhibit
Attach Exhibit B - Rider to Site Agreement
Attach Exhibit C - Memorandum of Agreement Form

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 the 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.

20. Non-Binding Until Fully Executed. This Agreement is for discussion purposes only and does not constitute a formal offer by either party. This Agreement is not and will not be binding on either party until and unless it is fully executed by both parties.

The following Exhibits are attached to and made a part of this Agreement: Exhibits A, A1-A2-A3-A4, B and \subseteq

OWNER:

By:	e Realty Corp.
Name:	Arthur P. Girard
Title:	President
Taxpaye	r ID: 65-0387225
Address	120 Exchange Street
	Portland, ME 04101
Date:	
See !	Exhibit A1 for continuation of Owner signatures
	NT PCS:
Sprin	t Spectrum L.P. a Delaware
Sprin	
Sprin	t Spectrum L.P. a Delaware
Sprin	t Spectrum L.P. a Delaware
Spring Corpo By:	t Spectrum L.P. af Nelaware

Attach Exhibit A - Site Description



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-BURLT 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 CONTINUED IN THESE OTHER DOCUMENTS IS ILLUSTRATIVE ONLY, AND DOES NOT LIMIT THE RIGHTS OF SPRINT AS PROMODED FOR IN THE AGREEMENT. THE LOCATIONS OF MAY ACCESS AND UTILITY EASEMENTS ARE ALLISTRATIVE ONLY. ACTUAL LOCATIONS MAY SE DETERMINED BY TENANT AND/OR THE ARE ILLUSTRATIVE ONLY. ACTUAL LOCATIONS MAY BE DETERMINED BY TENANT AND/OR THE SERVICING UTILITY COMPANY IN COMPLANCE WITH LOCAL LAWS AND REGULATIONS.





Alcatel·Lucent



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3070 N. ANDOYER, MA 01845 FAX: [976] 333-558

APPROVED BY

SUBMITTALS REV. DATE DESCRIPTION

2 12/28/12 ISSUED FOR CONSTRUCTION MAP 1 12/10/12 ISSUED FOR REVIEW RH SITE NUMBER: BS62XC009

SITE NAME: 509 FOREST AVE

SITE ADDRESS: 509 FOREST AVENUE PORTLAND, ME 04103

TITLE SHEET

SITE NUMBER: BS62XC009

SITE NAME: **509 FOREST AVE**

SITE ADDRESS:

509 FOREST AVENUE PORTLAND, ME 04103

	SITE INF	ORMATION		VICINITY MAP TRUE NORTH SCALE: N.T.S.		SHEET INDEX		
SITE NUMBER:	BS62XC009	LOCAL POWER COMPANY:	CENTRAL MAINE POWER CO.		SHEET NO.	DESCRIPTION		
SITE NAME:	509 FOREST AVE	COMPANT:	162 CANCO ROAD	Company of the second of the s	T-1	TITLE SHEET		
SITE ADDRESS;	509 FOREST AVENUE PORTLAND, ME 04103		PORTLAND, ME 04103 (800) 750-4000	Davies Blades Blades	GN-1	GENERAL NOTES		
COUNTY:	CUMBERLAND	LOCAL TELCO COMPANY:	FAIRPOINT		A-1	ROOF PLAN & EQUIPMENT LAYOUT		
ZONING:	COMMERCIAL		45 FOREST AVENUE PORTLAND, ME 04101	Seeme Add. No.	A-2	ANTENNA SCENARIO & ELEVATION		
PARCEL ID:	127 A002001		(866) 984-2001		A-3	DETAILS		
COORDINATES:	N 43° 40′ 03.59″	APPLICANT:	SPRINT 1 INTERNATIONAL BLVD,	TAMANINE TO A STATE OF THE STAT	A-4	RF DATA SHEET		
	W 70° 16' 43.77"		SUITE 800 MAHWAH, NJ 07495	and the control of th	A-5	CABINET & ANTENNA WIRING DIAGRAM		
GROUND ELEV.:	36'± (AMSL)	APPLICANT			S-1	STRUCTURAL DETAILS		
STRUCTURE TYPE:	ROOF TOP	REPRESENTATIVE:	ALCATEL-LUCENT 1 ROBBINS ROAD		S-2	STRUCTURAL DETAILS		
STRUCTURE HEIGHT:	52.3'± (AGL)		WESTFORD, MA 01886		S-3	STRUCTURAL DETAILS		
ANTENNA RAD CENTER:	59'± (AGL)	OTT LOCUMENTION	(978)952-1600	Tonglelou State (From Arty)	E-1	TYPICAL POWER & GROUNDING ONE LINE DIAGRAM		
	. ,	SITE ACQUISITION CONSULTANT:	ALCATEL-LUCENT	DIRECTIONS FROM 1 INTERNATIONAL BLVD. MAHWAH, NJ: HEAD NORTH ON INTERNATIONAL BLVD/PARK ST TOWARD QUEENSLAND RD. CONTINUE TO FOLLOW	AAV	SEE AAV SHEETS		
PROPERTY OWNER:	ALPINE REALTY CORP 380 WARREN AVENUE PORTLAND, ME 04103		1 ROBBINS ROAD WESTFORD, MA 01886 (978)952-1600	INTERNATIONAL BLVD. TAKE THE 3RD RIGHT ONTO PARK IN CONTINUE STRAIGHT ONTO LEISURE IN. CONTINUE ONTO NJ-17 N. TAKE THE NEW JERSEY 17 NANTERSTATE 287 N EXIT TOWARD INTERSTATE 87/NORTH NY THRUWAY.KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR 1-287 NA-37/NJ-17 NRN Y. THRUWAY AND MERGE ONTO 1-287 N/NJ-17 NENTERING NEW YORK. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR 1-87	17 N/INTERSTATE 287 N EXIT TOWARD INTERSTATE FOLLOW SIGNS FOR L287 N/I-97/ALL-17 N/IN Y, THRUWAY AND APPROVALS			
STRUCTURE OWNER:	ALPINE REALTY CORP 380 WARREN AVENUE PORTLAND, ME 04103 A&E CONSULTANT: HUDSON DESIGN GROUP LLC 1600 OSGOOD STREET BLDG 20 NORTH, SUITE 3090 NORTH ANDOVER, MA 01845			POLLOW F287 E. TAKE THE EXIT ONTO 1-95 N ENTERING CONNECTICUT. TAKE EXIT 48 ON THE LEFT TO MERGE ONTO I-91 N TOWARD HARTFORD. TAKE EXIT 29 TO MERGE ONTO CT-15 N/US-5 N TOWARD I-84 E/E HARTFORD/BOSTON, CONTINUE ONTO CT-15 N, MERGE ONTO I-84 E. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR I-90 E/N.H MAINE/BOSTON AND MERGE ONTO I-90 E. TAKE EXIT 10 TOWARO		PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.		
			TEL: (978) 557-5553 FAX: (978) 336-5586	AUBURN/MORCESTER. FOLLOW SIGNS FOR 1-290 E/WORCESTER AND MERGE ONTO 1-290 E. TAKE EXIT 26B ON THE LEFT FOR INTERSTATE 495 N TOWARD LOWELL. MERGE ONTO 1-495 N, MERGE ONTO 1-96 N, SLIGHT RIGHT ONTO 1-295 N, TAKE EXIT 6B TO MERGE ONTO ME-100 N/US-302 W/FOREST AVE, DESTINATION ON RIGHT.				
GENERAL NOTES				SCOPE OF WORK	CONSTRUCTION	N: DATE:		
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			D	INSTALL FIBER DISTRIBUTION 80X WITHIN EXISTING LEASE AREA RETRO FIT EXISTING BTS CABINET WITH RETRO FIT KIT & REPLACE EXISTING BBU WITH (2) BBU CABINET. REMOVE (3) EXISTING CDMA ANTENNAS REPLACE WITH (3) NETWORK VISION ANTENNAS & (6) RRH'S. REMOVE EXISTING CDMA COAX CABLES & INSTALL (3) HYBRIFLEX CABLES FROM EQUIPMENT CABINET TO	LEASING/ SITE ACQUISITI	ION: DATE:		
CONTRACTOR BEFORE PROC	SHALL VERIFY ALL PLANS, EXIST SHALL IMMEDIATELY NOTIFY THE EEDING WITH THE WORK. FAILUR YON THE CONTRACTOR TO CORF	E ARCHITECT/ENGINEER I RE TO NOTIFY THE ARCHIT	N WRITING OF ANY DISCREPANCIES ECT/ENGINEER PLACE THE	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/JUNDERGROUND CONDUITS AND NETWORK INTERFACE DEVICE.	RF ENGINEER: LANDLORD/ PROPERTY OW	OATE:		
3. DEVELOPMENT	AND USE OF THE SITE WILL CON	NFORM TO ALL APPLICABL	E CODES AND ORDINANCES.	DIG SAFE SYSTEMS, INC.	PROPERTY OW	NGN: DATE:		

CALL BEFORE YOU DIG

1-800-922-4455 OR DIAL 811

ELECTRICAL CODE: 2005 NATIONAL ELECTRICAL CODE

AND ANTENNAS

STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES

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

- 1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAMS, ORDINANCES, RULES, REQULATIONS AND LAWFUL CROERS OF ANY PUBLIC AUTHORY, MUNICIPAL AND UTILITY COUPANY 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 WADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT OCCUMENTS THE COMPLETE SCOPE OF WORK, THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT WAND OMISSIONS OF ERFORS IN THE DRAWNICS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND MAPROMEMENTS 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 OWISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK,
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL WATERIALS, 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 SUBJISSION OF BIOS OR PERFORMING WORK TO FAMILIARZE THERSELF WITH THE FIELD CONDITIONS AND TO VERY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS /
- 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.
- 8. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM'S OR CLARIFICATIONS AVAILABLE FOR THE USE OF ALL PERSONNEL INVOLVED WITH
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HERBIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/EMBER, 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 MMY HAVE COCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE STATE BASIG BUILDING CODE, LATEST EDMON, AND ALL CSHA 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 ADMITTED TAXABLE PROJECT EXECUTION.
- 14. 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.
- 15. 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 SWEEPING.
- 17. 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 OR MSERS INHOUGH THE BUILDING DO NOT PENETIALE STRUCTURAL MEDISER'S WITHOUT STRUCTURAL ENGNEER'S APPROVAL SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATING OF THE MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE FIRE AND FUFES, ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

CONCRETE

CAST-IN-PLACE CONCRETE

PART 1 -- CENERAL

1.01 DESCRIPTION

WORK INCLUDES CONSTRUCTION OF CAST—N-PLACED CONCRETE FOUNDATIONS, INCLUDING FURNISHING AND INSTALLING READY—INX CONCRETE, REINFORCING, FORWOOK, AND ACCESSORY MATERIALS AS SHOWN ON THE DRAWINGS. CAST—RI-PLACE CONCRETE INCLUDING FOUNDATIONS, SLABS ON GRUDE, EQUIPMENT PADS, AND GRAPE POST FOUNDATIONS.

- 1.02 RELATED WORK
- A. COORDINATE UNDER SLAB CONDUITS
- B. COORDINATE WITH GROUNDING
- 1.03 APPLICABLE STANDARDS
- ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE
- 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 0309 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.

CONCRETE TESTS SHALL BE AS DETAILED BELOW OR AS DIRECTED BY SPRAYT. CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER AS THE WORK PROGRESSES. FALURE 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 O'T WENTY-BOHT DAYS. THE THRO CYLINDER SHALL BE KEPT SEPARATELY. (IF REQUIRED TO BE USED IN THE
- 8. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN. SLUMP SHALL NOT EXCEED 4" UNILESS OTHERWISE NOTED.

PART 2 - PRODUCT

2.01 CONCRETE MATERIALS

CONCRETE SHALL BE COMPOSED OF PORTLAND CEMENT, WATER, FINE AND COARSE AGGREGATES, AND ADMOSTURES AS SPECIFIED BELOW, ALL WILL 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 033.
- C. WATER: WATER FOR MIXING AND CURING CONCRETE SHALL BE FREE FROM SEWACE, OIL, ACID, ALKAUI, AND SALTS AND SHALL BE FREE FROM OBJECTIONABLE QUANTIESS OF SUIT, ORGANIC MATTER, AND OTHER DELETEROUS SUBSTANCES.

2.02 ADMIXTURES

- CHEMICAL ADMIXTURE: ASTM C494, TYPE A- WATER UCING OR TYPE D -- WATER REDUCING AND RETARDING.
- 2.03 CURING COMPOUND: ASTM C309, TYPE1. CLASS B; TRANSLUCENT.
- 2.04 ACCESSORIES

Nonshrank grout; premixed compound consisting of dimetallic acgregate, cement, water reducing and asticizing acents; capable of developing minimum dipressive 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.
- A. CONCRETE SHALL BE PROPORTIONED PER REQUIREMENTS OF ACI 301 & SPRINT CONSTRUCTION SPECIFICATIONS FOR DESIGN STREMOTH & WORKABILITY, CONCRETE SHALL BE DELIVERED WITHIN 45 MINUTES OF ADDITION OF WATER TO MIX.
- B. THE FOLLOWING STRENOTHS 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 ADMOSTURES IN COLD WEATHER AND RETARDING ADMOSTURES IN HOT WEATHER ONLY WHEN APPROVED THE ENGINEER.
- TOTAL AIR CONTENT SHALL BE 5 PERCENT PLUS OR MINUS

PART 3 - EXECUTION

3 D1 INSPECTION

THE CONTRACTOR SHALL VERIFY ANCHORS, SEATS, PENETRATIONS, PLATES, RENFORCEMENT, AND OTHER TIEMS TO CAST INTO CONCRETE ARE ACCURATELY PLACED, HELD SEQUERLY, AND SHALL NOT CAUSE HARDSHIP BY 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.

A. THE ENGINEER SHALL BE NOTIFIED NOT LESS THAN 24 HOURS IN ADVANCE OF CONCRETE PLACEMENT. WHICH INSPECTION IS WANTED 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 ACCOUNTENIEMENT OF THE WORK AS SPECIFIED. CONCRETE MAY NOT BE ORDERED FOR PLACEMENT UNTIL ALL TIEMS HAVE BEEN APPROVED AND SPRINT HAS PERFORMED A FINAL INSPECTION AND GMEN 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.

PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH

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

BEAMS AND COLUMNS...... 1 1/2 IN

3.04 SURFACE FINISHES

SURFACES AGAINST WHICH BACK FILL OR CONCRETE SHALL PLACED REQUIRE NO TREATMENT EXCEPT REPAIR OF

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

- C. SURFACES THAT WOULD NORMALLY BE LEVEL AND WHICH WILL BE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE WILL BE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE. SLOPED FOR DRAINAGE. UNLESS ENGINEER'S DESIGN DRAWNO SPECIFIES A HORIZONTAL SURFACE OR SHOWS THE SLOPE REQUIRED. THE TOPS OF NARROW SURFACES, SUCH AS STAR TREADS, WALLS, CURBS, AND PARAPETS SHALL BE SLOPED APPROXIMATELY 3/8" /FT OF WORTH. BROADER SURFACES SUCH AS WALKS, ROADS, PARKING AREAS AND PLATFORMS SHALL BE SLOPED AS WALKS, ROADS, PARKING AREAS AND PLATFORMS SHALL BE SLOPED APPROXIMATELY 1/4" /14" /14" SLOPED APPROXIMATELY 1/4" /FT.
- D. SURFACES THAT WILL BE COVERED BY BACKFILL OR CONCRETE SHALL BE SMOOTH SCREEDED.
- EXPOSED SLAB SURFACES SHALL BE CONSOLIDATED, E. EAYOSED SAM SURFACES SMALL BE CONSULIABLED, SCREEDED, FLOATED, AND "STEEL IROWELED." HAND OR POWER-DRIVEN WAY BE USED FOR FLOATINGS WHICH SHALL BE STARTED AS SOON AS THE SCREENED SURFACE HAS ATTAINED A STIFFNESS TO PERMIT FINISHING OPERATIONS. ALL EDIGES MUST HAVE A 3/4" CHAWFER. CONCRETE EXPANSION ANCHORS AND EPOXY ANCHORS SHALL BE INSTALLED IN ANCHORS AND PORT 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. SHALL BE PATCHED ACCORDING TO THE ENGINEERS 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.

J.07 PROTECTION

- A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL
- B. CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF
- 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 FURRISHED, AND WITHOUT UMINING THE GENERALITY THEREOF, NCLUDES ALL EQUIPMENT, LABOR AND SERVICES REQUIRED FOR ALL STRUCTURAL STEEL WORK, INCLUDING ALL ITEUS INCIDENTAL THERETO AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWNOS. INCLUDING:
- STEEL FRAMING INCLUDING BEAMS, ANGLES, CHANNELS AND
- 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:
- ASTN: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS IN BUILDING
- AWS: AMERICAN WELDING SOCIETY INC., AS PUBLISHED IN AWS: AMERICAN WELDING SOCIETY INC., AS PUB "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
- 4. EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES,
- PART 2 -- STRUCTURAL NOTES
 ALL STEEL WORK SHALL BE PAINTED OR CALVANIZED IN
 ACCORDANCE WITH THE DRAWINGS AND SPRINT SPECIFICATIONS
 UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE
 ASTM-992-50 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC
 DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE
 IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL
 CONSTRUCTION (ASC) "MANUAL OF STEEL CONSTRUCTION". MISC.
 STEEL TO BE A36.
- 1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, ANSI/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
- 2. CONTRACTOR SHALL YEARY 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
- TO STEEL PIPE STARL CURPONN TO ASTIM ASOO "COLD-FORVER 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 HARDENEO 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", UNIESS OTHERWISE NOTED.
- 7. ALL BOLTS, ANCHORS AND WISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-CIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE
- 8. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAWAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A760. GALVANIZING REPAIR PAINT SHALL HAVE 85 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUIAL THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THECKNESS 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 EYOXX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVINCE THE MIRMUM SIZE PER TABLE 12.4 IN THE AISC "MANUAL OF SITEL CONSTRUCTION", 13TH EDITION.
- 10. INCORRECTLY FABRICATED, DAWAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION WAVAGER PRIOR TO REVEIDIAL 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'x12QA.
 UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED
 AFTER FABRICATION FOR EXTERNAL USE APPLICATIONS.
- 12. LINEESS OTHERWISE NOTED, EPOXY ANCHOR ASSEMBLY 12. UNLESS OTHERWISE NOTED, EPOXY ANCHOR ASSUBLY SHALL CONSIST OF 1/2" DAWLETER STARLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORNA'S STSTEM SHALL BE THE HILT—HIT HY-720 AND OR HY-150 SYSTEMS (AS SPECIFIED ON DWG.) OR ENGINEERS APPROVED COMMENTAL ANCHOR PROPERTY OF THE PROPERTY EQUAL WITH 4-1/4" MIN, EMBEDMENT DEPTH.

13. UNLESS OTHERWISE NOTED, EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S--325, GROUP II, TYPE 4, CLASS I, HOLT KWIK BOLT II OR APPROVED EQUAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EVBEDMENT 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.

- 1. PLYWOOD SHALL MEET THE RECOMMENDATIONS OF THE APA 2. ALL LUMBER SHALL BE SPRUCE-PINE-FIR (SPF) \$1 GRADE.
- 3. ALL LUAGER SIMLL BE PRESSURE TREATED WITH PRESERVATIVES.
 ALLOWABLE BENEDING STRESS: 16 min = 1,000 PSI MODULUS OF ELASTICITY: 1.6x10± PSF
- ALL JOIST HANGERS, CLIP ANGLES AND PLATES TO BE HEAVY GALVANZED AS MANUFACTURED BY SIMPSON CO., OR APPROVED EQUAL.
- 5. ALL LVL'S TO BE MANUFACTURED BY BOSIE CASCADE OR

SPECIAL CONSTRUCTION ANTENNA INSTALLATION

PART 1 -- GENERAL 1.01 WORK INCLUDED

A. ANTENNAS AND COAXIAL CABLES SHALL BE AS SPECIFIED ON THESE DRAWNIGS. THE CONTRACTOR SHALL BE RESPONSBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY. STRICT ACHERENCE TO OSHA STANDARDS IS MANDATED,

INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND SPRINT

INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED

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

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

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

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

- FLASHING OF OPENING INTO OUTSIDE WALLS SEALING AND CAULKING ALL OPENINGS
- 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 BIJLEDING 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 TOMERS AND ANTENNA SUPPORTING STRUCTURES,
- 2. FAA -- FEDERAL AVATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7460-IH, OBSTRUCTION MARKING AND LIGHTING.
- 3. FCC -- FEDERAL COMMUNICATIONS COMMISSION RULES AND REGULATIONS FORM 715, OBSTRUCTION MARKING AND LIGHTING SPECIFICATION FOR AVTENNA STRUCTURES AND FORM 715A, HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR
 - 4. NEC NATIONAL ELECTRICAL CODE
- UE UNDERWRITER'S LABORATORIES APPROVED FLECTRICAL PRODUCTS.
- 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.



Alcatel · Lucent

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MHHHH Danie *

> TENECKEN FRY LLY APPROVED BY: OPH

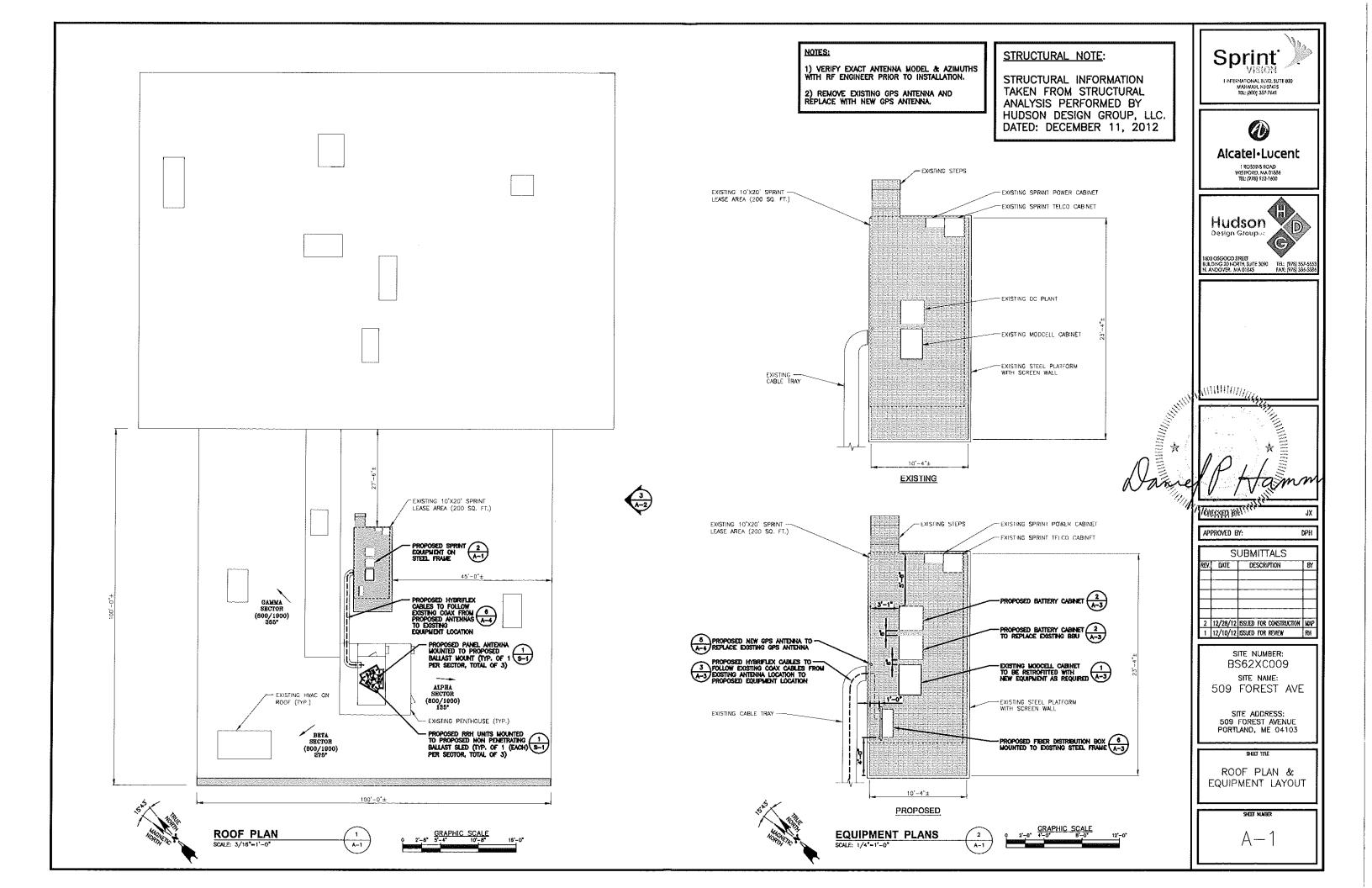
SUBMITTALS REV. DATE DESCRIPTION 2 12/28/12 ISSUED FOR CONSTRUCTION MAP 1 12/10/12 ISSUED FOR REVIEW

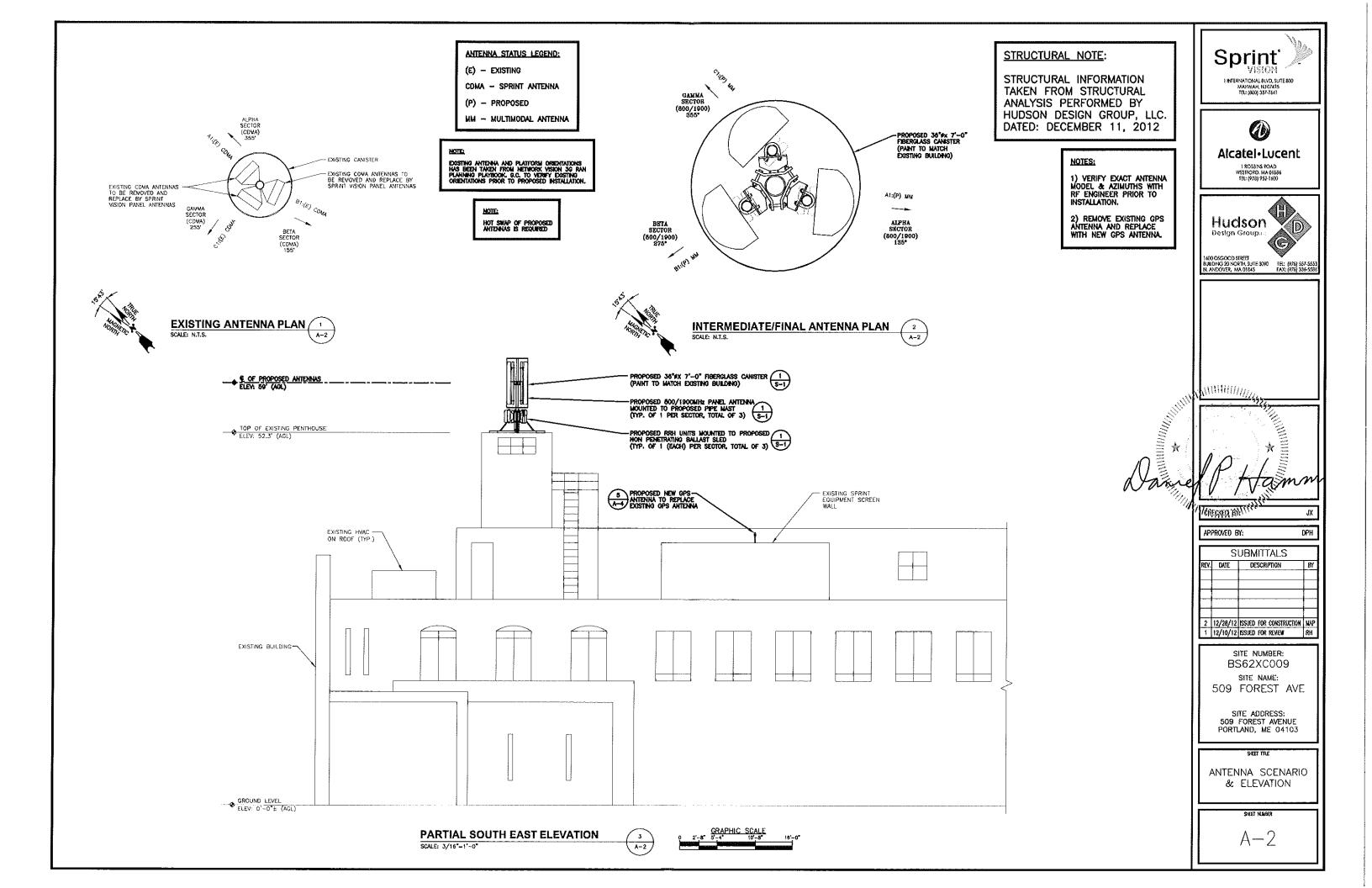
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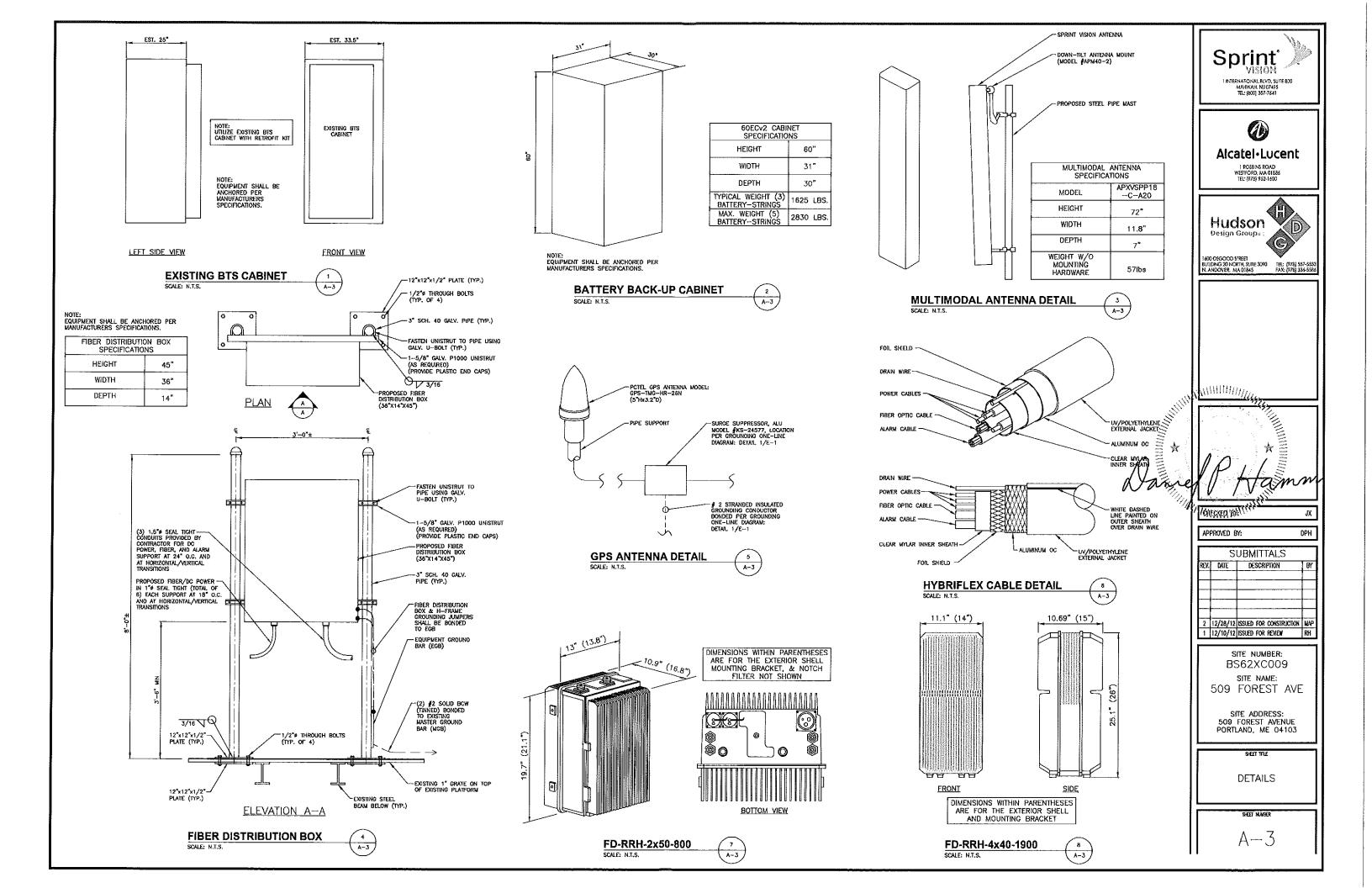
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GENERAL NOTES

CUETT MINORD







Cascade D SECTOR 2 SECTOR 3			Les]	
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SOONHE, RRH Manufacturer					
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1900WHz_Top_Jumper #1_Cable_Model (RRH to Combiner-to-Antenna for TT or Main Coax LCF12-50.1 LCF12-50.1 LCF12-50.1 1900WHz_Top_Jumper #2_Length (RRH to Combiner for TT if applicable) N/A			No Combiner Required	No Combiner Required	No Combiner Required
1900MHz_Top_Jumper #2_Length (RRH to Combiner for TT if appRoable)			10 (*)10		10 (*)10
1900MHz_Nain_Coax_Cable_Length (tt)			LCF12-50J	LCF12-50J	LCF12-50J
1900WHz_Main_Coax_Cable_Length (ft)			N/A	N/A	N/A
1900WHz_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 (*)90	N/A (*)90
1900MHz_Bottom_Jumper #1_Cable_Model (Ground based RRH to Combiner-OR-Main Coax)					
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11/9/2012	,	* If plumbing scenario does not match the material received, please contact your Construction	on Manager		
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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:

(*) NOTE: ALU CM SHALL CONFIRM ALL JUMPER/HYBRIFLEX LENGTHS BEFORE PREPARING B.O.M.





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



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SITE NUMBER: BS62XC009 SITE NAME:

509 FOREST AVE

SITE ADDRESS: 509 FOREST AVENUE PORTLAND, ME 04103

RF DATA SHEET

SCENARIO 124_v2.0

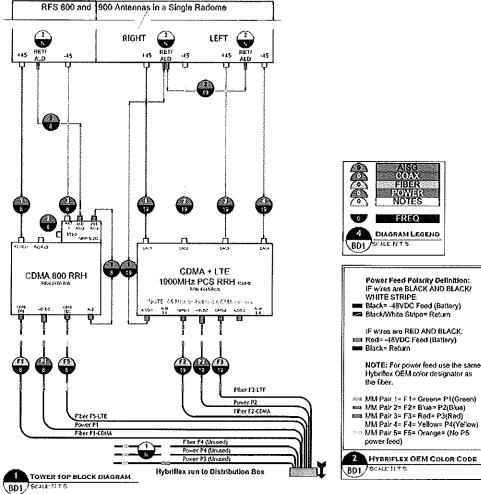


DIAGRAM LEGEND

Power Feed Polarity Definition: IF wires are BLACK AND BLACK/ WHITE STRIPE: ■ Black=-48VDC Feed (Battery) ■ Black/White Stripe= Return NOTE: For power feed use the same Hybriflex OEM color designator as MM Pair 1= F1= Green= P1(Green)

MM Pair 2= F2= B'ue= P2(B'ue)

MM Pair 3= F3= Red= P3(Red)

MM Pair 4= F4= VB(Dw= P4(Vellow)

MM Pair 5= F5= Orange= (No P5

ber Pair 3, 1900 RRH2 CPRI PRI port TO:FRCM Ostrovition Box, Top I.C. Buiktead. Position 3-4 (S1), 9-10 (S2), Lower I.C. 8H, Position 3-4 (S3) ver Par 3 CTAP TO/FROM 1900 LTE RRH2 -43VDC port (42" Jumper) ber Jumper, 1900 RRH1 CPRI SEC port TO FROM 1900 RRH2 CPRI SEC port 1900 CDMA RRB1 AISG port TO FROM 1900 Arterna RET/ADL port 900 Antenna RET/ADL port TO/FROM 1900 Antenna RET/ALO port (RET Motors avjurger 1900 ETE RRH1 TX1 RX1 port TO FROM Combiner Port G1 oss jumper, 1900 LTE RRH2 TX1 RX1(logical TX RX3) port TO/FRCM Combiner Port G3 900Uhz RH2 TX2:RX2(logical TX;RX4) port TC:FRCM Combiner Port G4 ber Junger, 1900 RRH1 CPRI SEC port TO/FROW 1900 RRH2 CPRI SEC port urjumper, 1900 Combiner COM 3 part TO/FROM Anterma +45 port ra Fiber Pairs & DC Power terminated, weather proofed, specified and tie wrapped to side of 800Mnz RRH. (cable management) This alarm jumper must be in place to make the RRH # 2 of the pair. (# 2 is always the one farthest from the pipe) 3 Power Cable 'Y' jumper. G-Tap jumper from Pair 3 to 1900 RRH2. Weatherproof C-Tap and leave 18-24' loop

> 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.





1 RO353/5 ROAD WESTFORD, MA 01686 TEL: (978) 952-1600



1600 OSGOOD STREET BUILDING 20 NCRTH, SUITE 3090 IEI: (978) 557-5553 N. ANDOVER, MA 01845 FAX: (978) 333-5586

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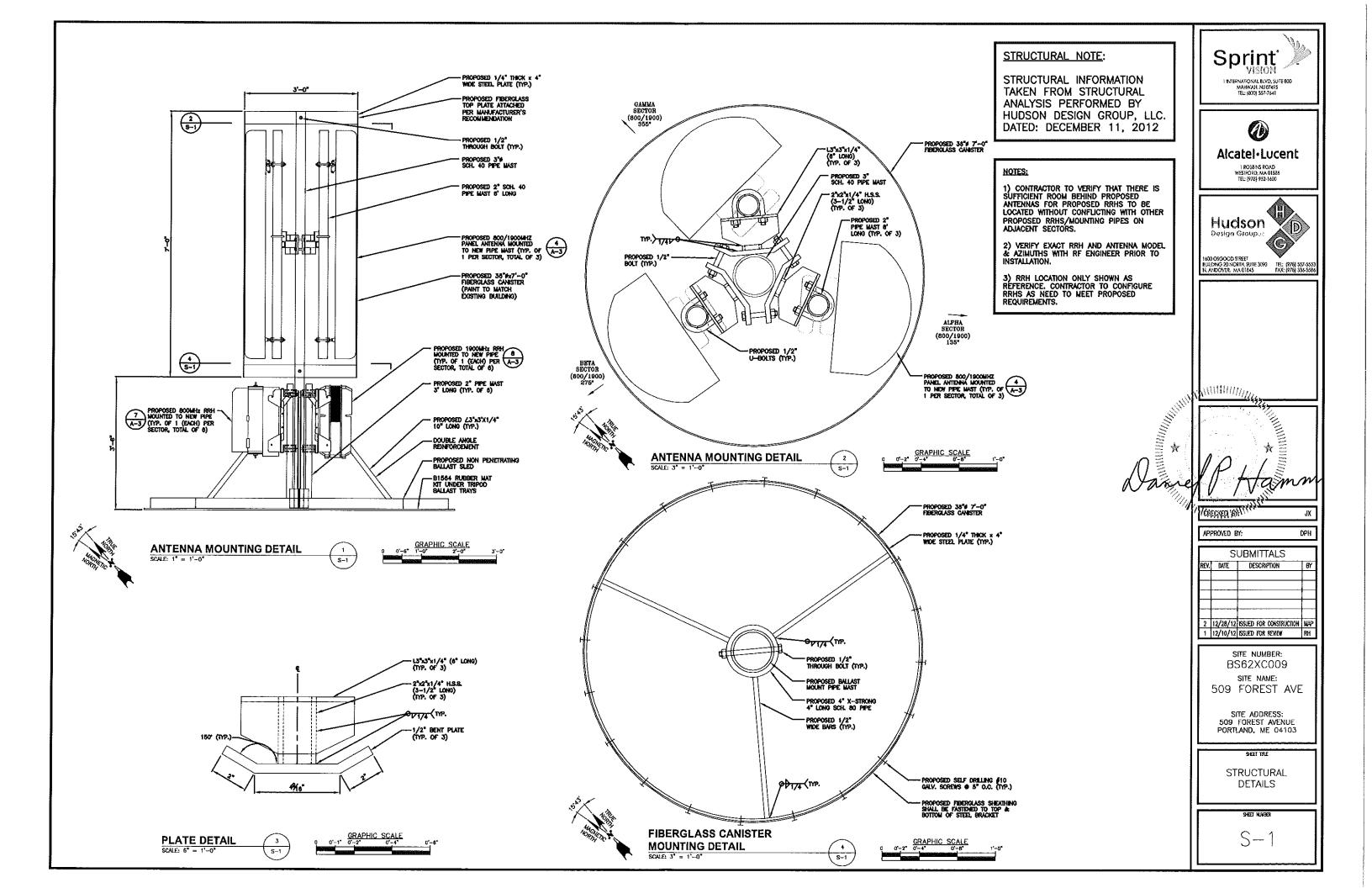
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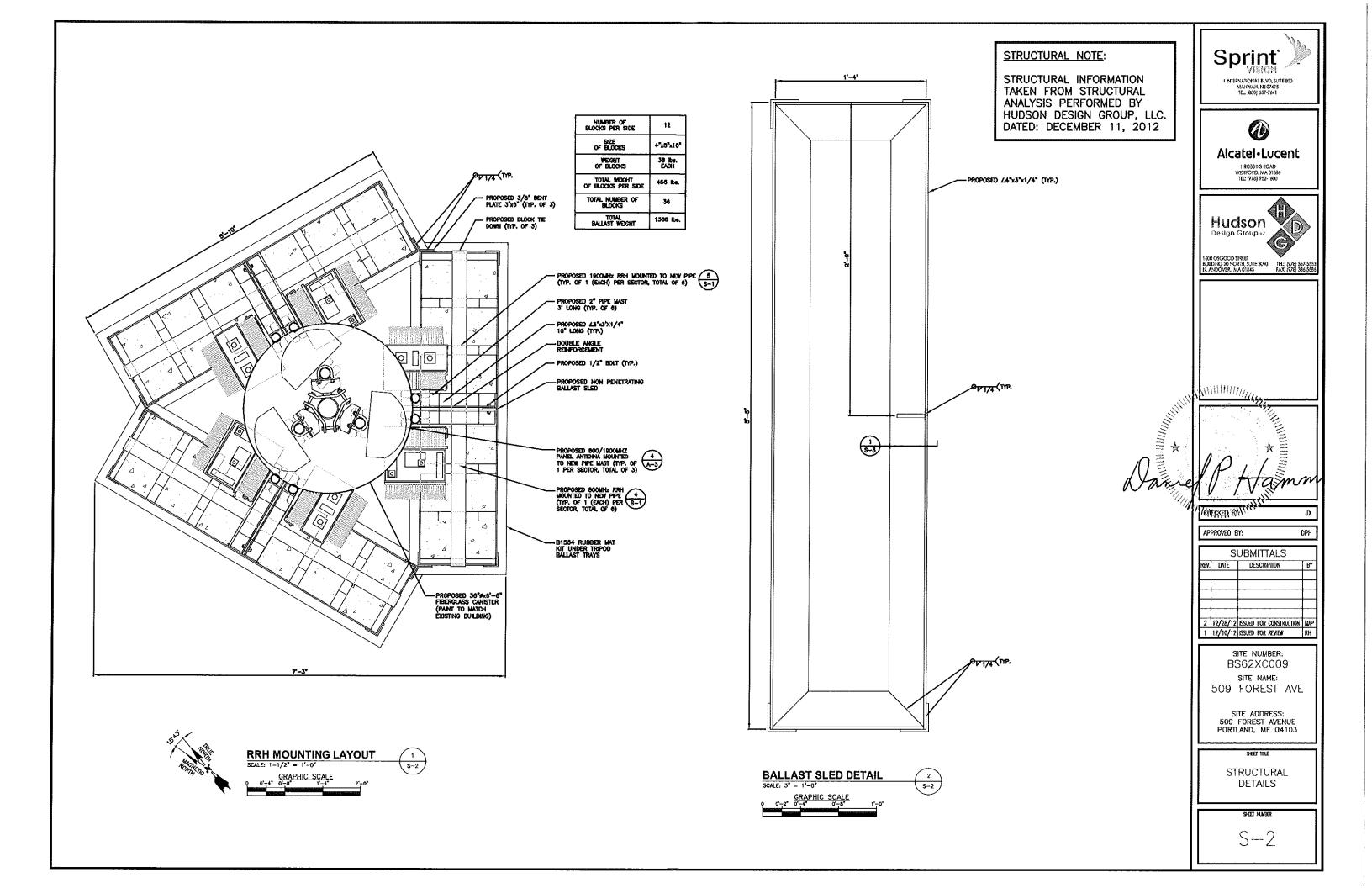
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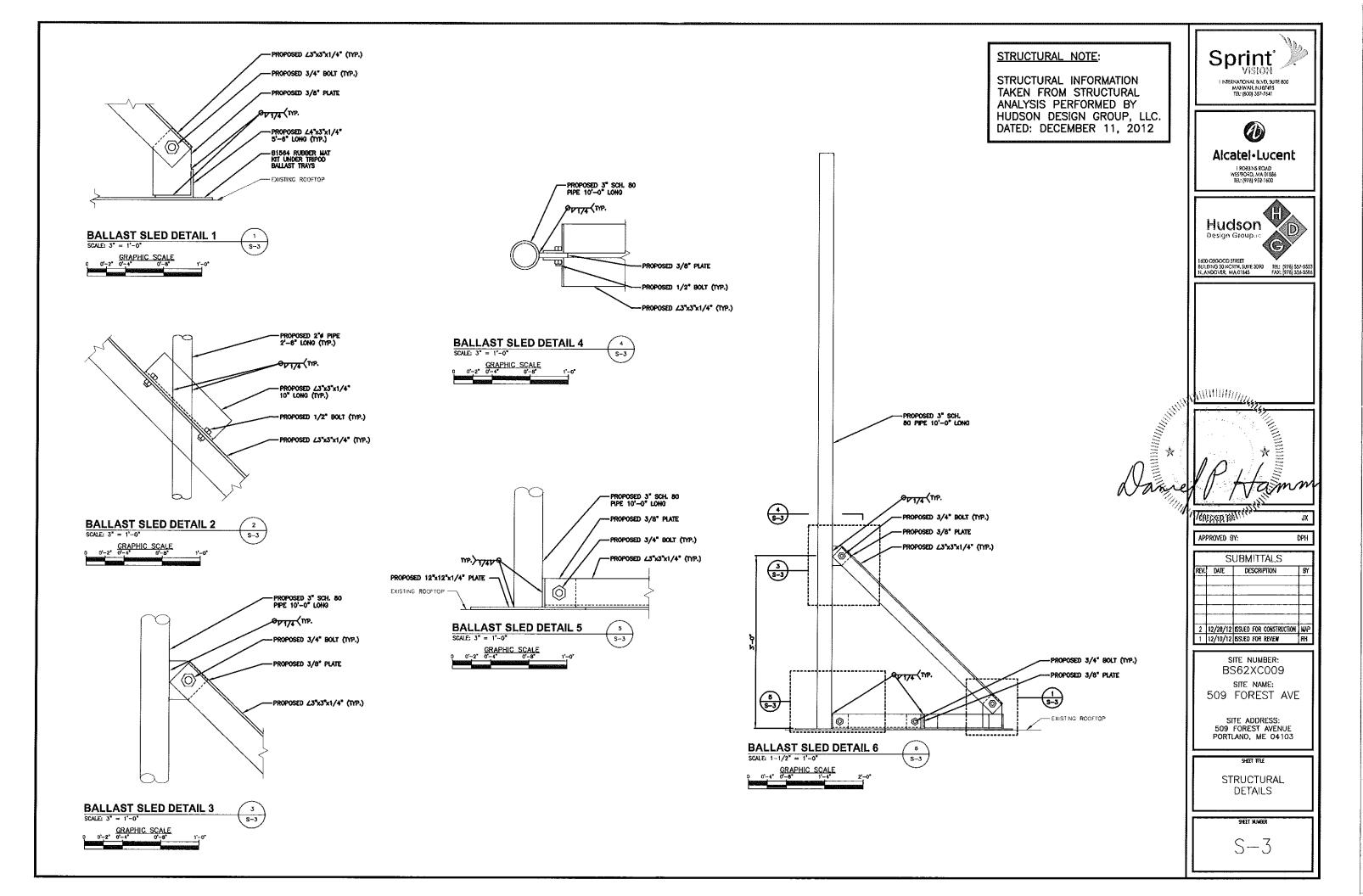
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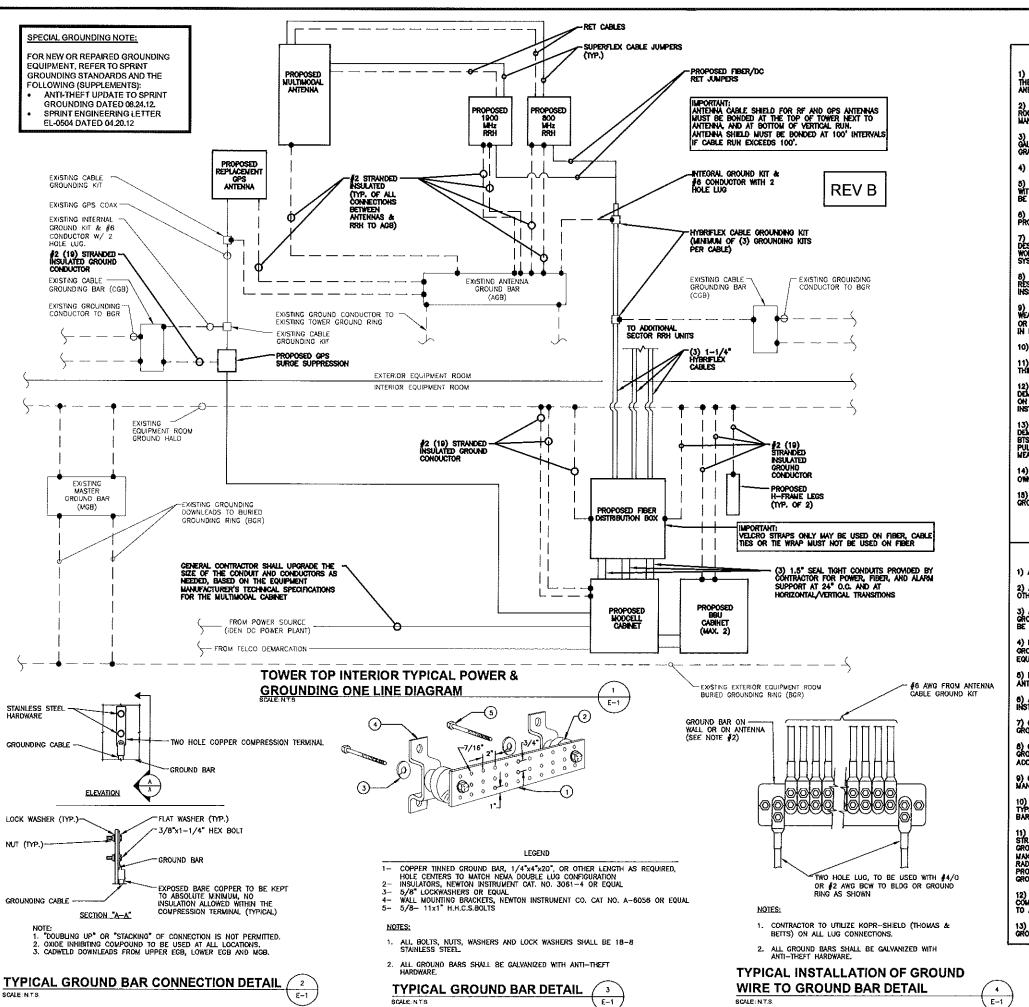
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CABINET & ANTENNA WIRING DIAGRAM









ELECTRICAL NOTE:

- 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 COMDUTTS ROUTED BELOW GRADE SHALL TRANSITION TO RIGID GALVANIZED STEEL CONDUIT ABOVE GRADE.
- 4) ALL METAL CONDUITS SHALL BE PROMOED WITH GROUNDING BUSHINGS.
- 5) GENERAL CONTRACTOR SHALL PROVIDE ALL DIRECT BURIED CONDUITS WITH PLASTIC WARNING TAPE IDENTIFYING CONTENTS, TAPE COLORS SHALL BE GRANGE 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 INCIDENTIAL 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 WRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGIO STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- 10) BURGED CONDUIT SHALL BE SCHEDULE 40 PVC.
- 11) ELECTRICAL WRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.
- 12) RIN 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 ETS CABINET AS NOICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT, PROVIDE GREENLE CONDUIT MEASURING TAPE AT EACH END,
- 14) ABOVE GROUND PORTION OF CONDUIT BETWEEN BTS AND PROJECT OWNER'S CELL SITE PPC SHALL BE RIGID CONOUT.
- 18) FOR NEW OR REPARED 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 NEWA 3R ENCLOSURES
- 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 q2 AWG insulated stranded copper wire. Equipment cabinets shall each have (2) connections.
- 6) PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED AGB (TYP.)
- 8) 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) CROWNING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH PROJECT DIMER'S 8TS SITE GROUNDING STANDARDS.
- GROUND HYBRIFLEX CABLE SHELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS HYBRIFLEX CABLE GROUNDING KITS.
- 10) ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERNIC WELD. DO NOT ALLOW BARE COPPER MIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 11) ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE NONCATED, GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. 16 WRE CAN BE BENT AT 6" RADIUS WHEN HECESSARY, BOND ANY METAL. OBJECTS WITHIN 8 FEET OF PROJECT OWNER EQUIPMENT OR CABRIET TO MASTER GROUND BAR OR GROUNDING RING.
- 12) CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHERTING COMPOUND TO ALL LOCATIONS.
- 13) APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.



MAHWAH, NJ 07495 TEL: [800] 357-7641



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I ROSSIN ROAD
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SITE NUMBER: BS62XC009

SITE NAME: 509 FOREST AVE

SITE ADDRESS: 509 FOREST AVENUE PORTLAND, ME 04103

SHEET TEALS

TYPICAL POWER & GROUNDING ONE LINE DIAGRAM

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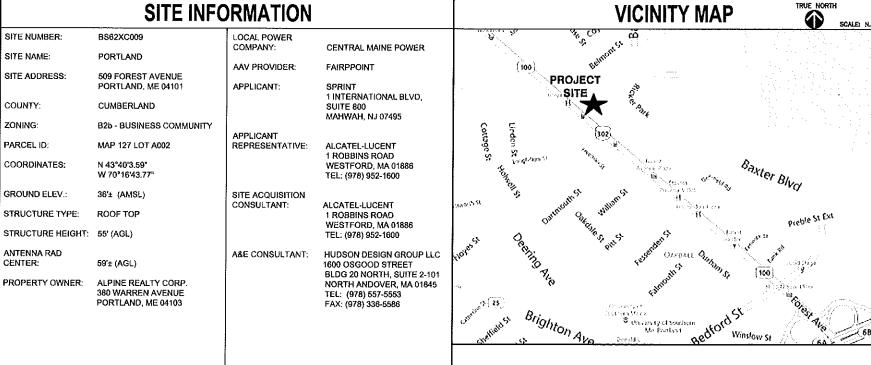
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REV SHEET **DESCRIPTION** TITLE SHEET T-1 T-2 SITE PHOTOS A-1 **COMPOUND PLAN** A-2 **DETAILS APPROVALS**

SHEET INDEX

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 OCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

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- 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
- 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

CALL TOLL FREE 888-DIG-SAFE



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Alcatel · Lucent 1 ROBBINS ROAD WESTFORD, MA 01686 TEL: [978] 952-1600

Hudson

1600 OSGOOD STREET BURDENG 20 NORTH, SUITE 2-101 TEL: [978] 557-5553 N. ANDOVER, MA 01845 FAX: [978] 336-5584

CHECKED BY:

APPROVED BY:

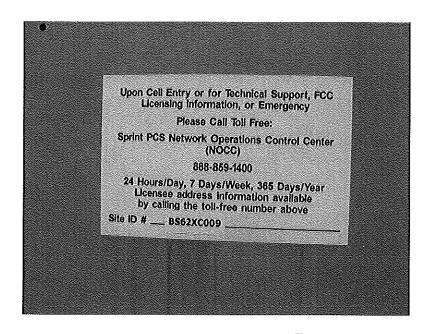
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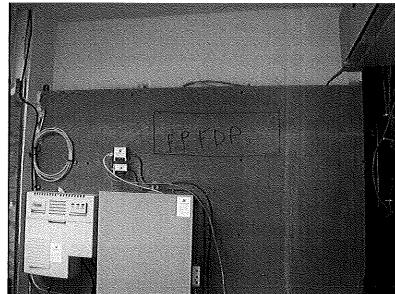
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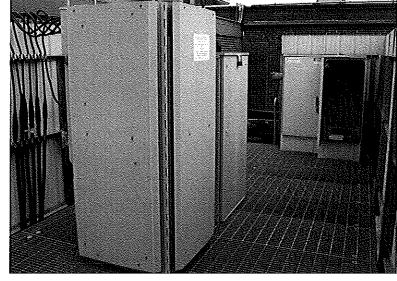


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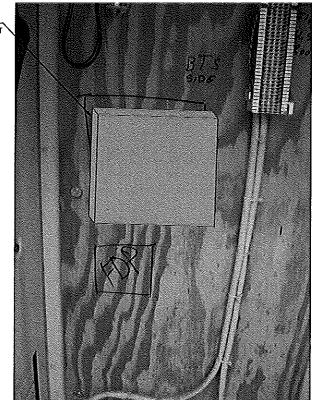


EXISTING EQUIPMENT AREA 3

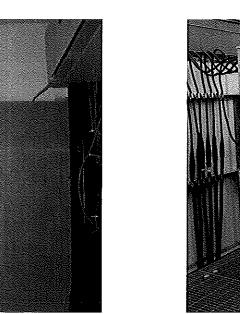


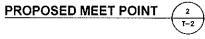


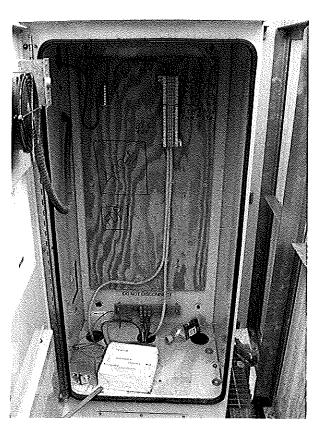




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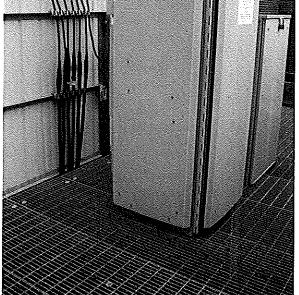






EXISTING TELCO CABINET





EXISTING POWER SOURCE 5



Sprint 1 INTERNATIONAL BLVD, SUITE 800 MARWAH, NI 07495 TBL: (800) 357-7641





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

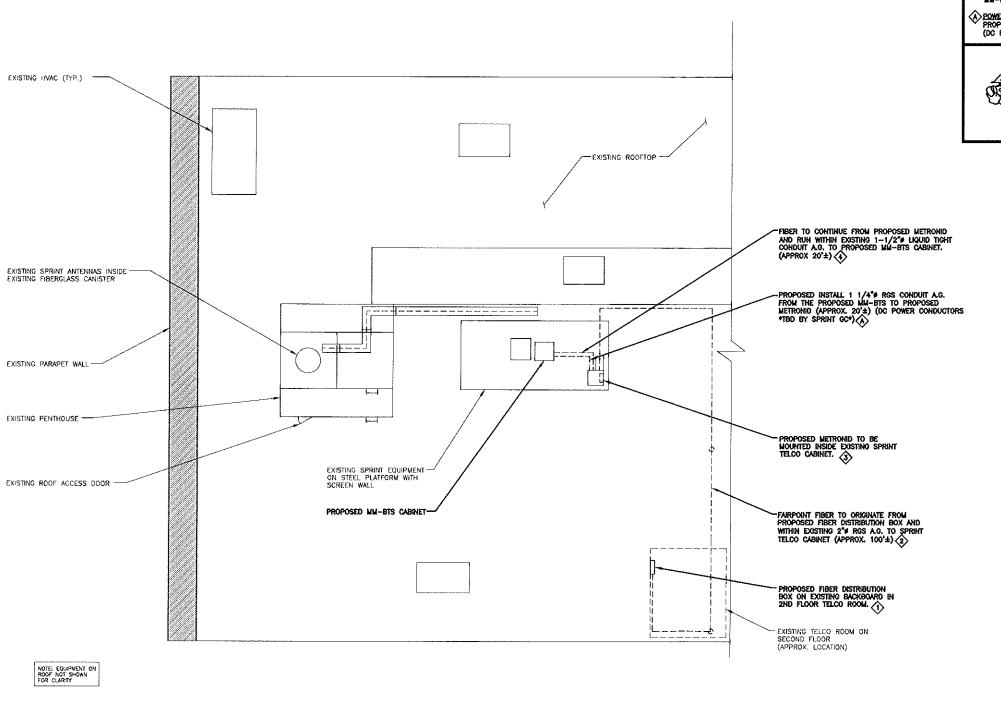
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SITE NUMBER: BS62XC009 SITE NAME: PORTLAND

SITE ADDRESS: 509 FOREST AVENUE PORTLAND, ME 04101

SITE PHOTOS



COMPOUND PLAN

(1) (A-1)

AAV SCOPE OF WORK NOTES:

- THE RUN: PROPOSED FIBER DISTRIBUTION BOX ON EXISTING BACKBOARD IN 2ND FLOOR TELCO ROOM.
- (2) FARPOINT FIBER TO ORIGINATE FROM PROPOSED FIBER DISTRIBUTION BOX AND WITHIN EXISTING 2*# RCS A.G. TO SPRINT TELCO CABINET (APPROX. 100'±)
- (3) PROPOSED METRONIO TO BE MOUNTED INSIDE EXISTING SPRINT TELCO CABINET.
- ♦ FIBER TO CONTINUE FROM PROPOSED METROHID AND RUN WITHIN EXISTING
 1-1/2'\$ LIQUID TIGHT CONDUIT A.G. TO PROPOSED MM-BTS CABINET.
 (APPROX 20'±)
- $\stackrel{\Large \textcircled{\scriptsize \$}}{\bigoplus}$ proposed fiber from proposed fiber distribution box to proposed MM-bits cabinet (approx. 120'± total.)
- POWER RUN: PROPOSED INSTALL 1 1/4" RGS CONDUIT A.O. FROM THE PROPOSED IMM-BITS TO PROPOSED METRONIO (APPROX. 20'±)
 (DC POWER CONDUCTORS "TBD BY SPRINT GC")

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SPRINT TO PROVIDE MULE TAPE AND INNERDUCT IN EXISTING/PROPOSED CONDUIT PATHS UNLESS OTHERWISE



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APPROVED BY:

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0	08/27/12	FOR REVIEW	W

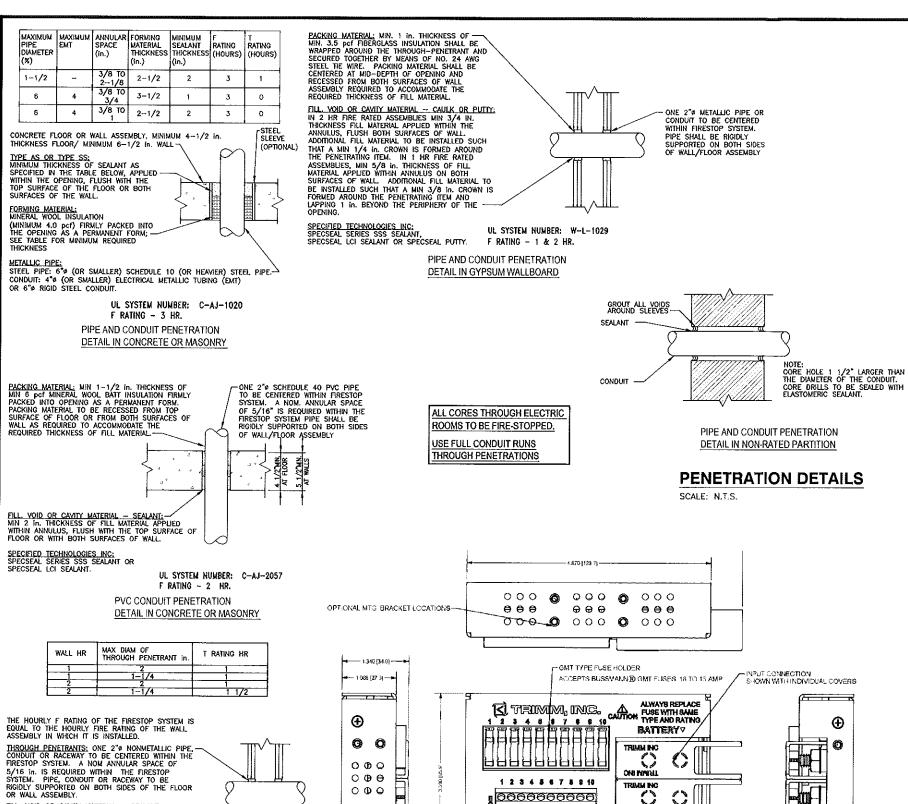
SITE NUMBER: BS62XC009

SITE NAME: PORTLAND

SITE ADDRESS: 509 FOREST AVENUE PORTLAND, ME 04101

SEET TOLE

COMPOUND PLAN



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 PERIFATING ITEM AND LAPPING 1 In.

BEYOND THE PERIPHERY OF THE OPENING.

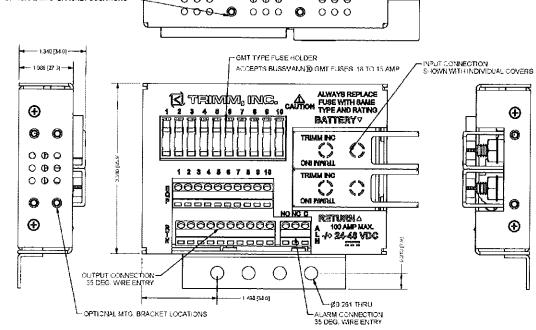
UL SYSTEM NUMBER: W-L-2093

F RATING - 1 & 2 HR.

PVC CONDUIT PENETRATION

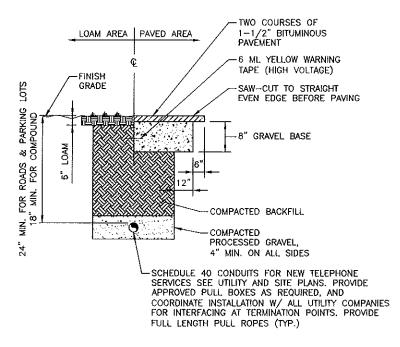
DETAIL IN GYPSUM WALLBOARD

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



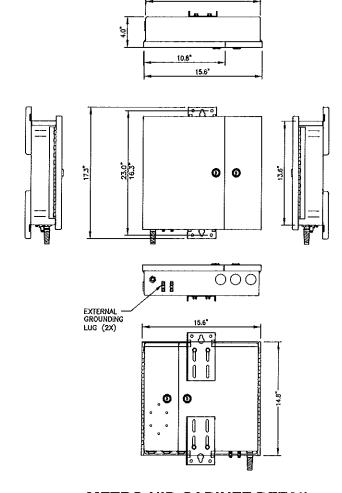
FUSE PANEL DETAIL

SCALE: N.T.S.



BURIED CONDUIT DETAIL

SCALE: N.T.S.



METRO NID CABINET DETAIL

SCALE: N.T.S.





I ROBBINS ROAD WESTFORD, MA 01826 TRL: (978) 952-1600



BUILDING 20 NORTH, SUITE 2-101 TEL: [978] 557-555 N. ANDOVER, MA 01845 FAX: [978] 336-558

CHECKED BY: KB

DPH

APPROVED BY:

SUBMITTALS DATE DESCRIPTION 0 08/27/12 FOR REVIEW

> SITE NUMBER: BS62XC009 SITE NAME: **PORTLAND** SITE ADDRESS:

509 FOREST AVENUE PORTLAND, ME 04101

DETAILS

SHEET MUMBER