

City of Portland, Maine - Building or Use Permit Application

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

PERMIT ISSUED

Location of Construction: 188 Warren Ave		Owner Name: Morin Leonard J	Owner Address: 188 Warren Ave	Phone: 207-773-0242
Business Name: n/a		Contractor Name: ATC Realty	Contractor Address: 44 Exchange Street Suite 301 Portland	Phone: 2077730242
Lessee/Buyer's Name n/a		Phone: n/a	Permit Type: Amendment to Commercial	Zone: B-4

Past Use: Commercial / Wireless Tower	Proposed Use: Commercial / Amendment to permit # 020072; Relocate propane tank & pour additional 6' x 6' concrete pad.	Permit Fee: 	Cost of Work: \$0.00	CEO District: 1
Proposed Project Description: Amendment tp permit # 020072; Relocate propane tank and pour additional 6' x 6' concrete pad.		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: U Type: <i>3/5/02</i>	
		Signature:		
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature:		

Permit Taken By: gg	Date Applied For: 02/27/2002	Zoning Approval		
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 3. 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 checked="" type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> HT Date:	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

All Purpose 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>188 Warren Ave</u>		
Total Square Footage of Proposed Structure <u>6' x 6' concrete pad</u>	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <u>295</u> Block# <u>G-295</u> Lot# <u>006</u>	Owner: <u>Leonard J. Morin</u>	Telephone:
Lessee/Buyer's Name (If Applicable) <u>NORTHCOAST / BOSTON PCS</u>	Applicant name, address & telephone: <u>ATC Realty / Northcoast</u> <u>44 Exchange St</u> <u>773-0842</u>	Cost Of Work: \$ <u>N/A</u> Fee: \$ <u>30.00</u>
Current use: <u>Wireless Communications Tower</u>		
If the location is currently vacant, what was prior use: _____		
Approximately how long has it been vacant: _____		
Proposed use: <u>Amendment to Permit # 020072</u>		
Project description: <u>relocate propane TANK & pour Add'l 6 x 6 concrete pad</u>		
Contractor's name, address & telephone:		
Who should we contact when the permit is ready: <u>Chris Palmer</u>		
Mailing address: <u>44 Exchange St</u>		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: <u>773-0842</u>		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

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

Signature of applicant: <u>Christopher Palmer</u>	Date: <u>2/27/02</u>
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This is NOT a permit, you may not commence ANY work until the permit is issued.
If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

NorthCoast / ATC Realty
 Applicant:
44 Exchange St
 Applicant's Mailing Address
773-0272
 Consultant/Agent/Phone Number

2/27/02
 Application Date
Amendment
 Project Name/Description
188 WARREN AVE
 Address of Proposed Site

Description of Proposed Development:
Amendment to existing Permit 020072.
Four add'l 6' x 6' pad for Telco to relocate propane tank (NO add'l costs)

CBL: 295 G006

Please Attach Sketch/Plan of Proposal/Development

Criteria for Exemptions:

See Section 14-523 (4)

- 15 G 006
- a) ~~Within~~ Existing Structures; No New Buildings, Demolitions or Additions
 - b) Footprint Increase Less Than 500 Sq. Ft.
 - c) No New Curb Cuts, Driveways, Parking Areas
 - d) Curbs and Sidewalks in Sound Condition/ Comply with ADA
 - e) No Additional Parking / No Traffic Increase
 - f) No Stormwater Problems
 - g) ~~Sufficient~~ Property Screening
 - h) Adequate Utilities

Applicant's Assessment
 (Yes, No, N/A)

Planning Office
 Use Only

NO
yes
yes NO
yes
NO
NO
yes
yes

OK
OK
OK
OK
OK
OK
OK
OK

Planning Office Use Only:

Exemption Granted ☒ Partial Exemption ☐ Exemption Denied ☐

Planner's Signature Kandice Talbot

Date 3/1/02

White - Planning Office

Pink - Inspections

Yellow - Applicant

Boston PCS, LLC

SITE NAME:

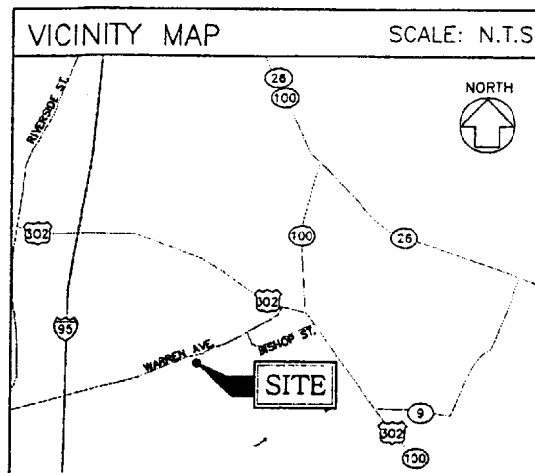
SPRINT WARREN AVE.

188 WARREN AVE
PORTLAND, MAINE
04101

SITE NUMBER:

357.007.01

FINAL PLANS



DRIVING DIRECTIONS

TAKE 95 NORTH TO EXIT 8 TURN RIGHT ONTO RIVERSIDE ST. 3 MILES TO WARREN AVE. RIGHT ONTO WARREN AVE, 1.2 MILES TO SITE. TOWER ON THE RIGHT.

GENERAL NOTES

- SCOPE OF WORK FOR THE CELL SITE CONSISTS OF SITE GRADING, EXCAVATION FOR AND CONSTRUCTION OF A CONCRETE FOUNDATION FOR EQUIPMENT PLACEMENT, PLACEMENT OF THE EQUIPMENT ON THE NEW FOUNDATION, EXTERNAL BURIED GROUND RING AND GROUNDING SYSTEM, AND NEW ELECTRICAL AND TELEPHONE SERVICE TO THE EQUIPMENT.
- CONTRACTOR SHALL VISIT SITES TO FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS AS THEY RELATE TO SITEWORK, FOUNDATION CONSTRUCTION, ACCESS, ELECTRICAL SERVICE, AND OVERALL COORDINATION.
- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS, AND LOCAL UTILITY COMPANY SPECIFICATIONS. THE WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS UNLESS DIRECTED OTHERWISE OR WHERE APPLICABLE CODES OR REGULATIONS TAKE PRECEDENCE.
- DIMENSIONS SHOWN ARE TO FINISHED SURFACES UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS. IF THERE ARE ANY QUESTIONS OR DISCREPANCIES CONCERNING CONTRACT DOCUMENTS AND EXISTING CONDITIONS, THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH WORK IN QUESTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DIRECTING AND SUPERVISING THE WORK. HE SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND PROCEDURES, AND FOR COORDINATING ALL ASPECTS OF THE WORK.
- THE RADIO SWITCHING EQUIPMENT IS SUPPLIED UNDER SEPARATE CONTRACT. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHERS PERTAINING TO RADIO SWITCHING EQUIPMENT, OR ANY OTHER RELATED WORK.
- THE CONTRACTOR SHALL MAINTAIN AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS WITH THE LATEST REDLINED REVISIONS FOR THE USE OF ALL.
- EVERY EFFORT HAS BEEN MADE TO DEFINE THE SCOPE OF WORK IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS CAUTIONED THAT MINOR OMISSIONS AND DISCREPANCIES IN THESE CONTRACT DOCUMENTS DOES NOT EXCUSE HIM FROM PROVIDING SITE IMPROVEMENTS AND A COMPLETED EQUIPMENT PAD ACCORDING TO THE INTENTIONS OF THESE DOCUMENTS.
- UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OR COMPLETENESS THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTORS WILL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
C-1	SITE PLAN / ELEVATIONS	0
A-1	DETAILS	0
A-2	COAX SCHEDULE	0
S-1	STRUCTURAL DETAILS	0
E-1	POWER / TELCO RISER DIAGRAM LEGEND AND NOTES	0
E-2	GROUNDING RISER DIAGRAM	0
E-3	GROUNDING DETAILS	0

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

LEGEND

-----	GROUND WIRE
-----	ELECTRIC
-----	TELEPHONE
(E)	EXISTING
(P)	PROPOSED
(DET / SHT #)	DETAIL REFERENCE

PROJECT SUMMARY

SITE NUMBER: 357.007.01
SITE NAME: SPRINT WARREN AVE.
SITE ADDRESS: 188 WARREN AVE.
PORTLAND, ME 04101
CUMBERLAND COUNTY

PARCEL MAP / LOT: 295 / 6
DEED BOOK / PAGE: 1921 / 124
CURRENT ZONING:

GOVERNING CODE: BOCA 1996
JURISDICTION: PORTLAND
CONSTRUCTION TYPE:

PROPERTY OWNER: LEONARD & FRANCIS J. MORIN
188 WARREN AVE.
PORTLAND, ME 04103

USE GROUP: ANTENNA ARRAY - U
APPLICANT: BOSTON PCS, L.L.C.
80 BAYLIS ROAD
SUITE 201
MELVILLE, NY 11747

CONSTRUCTION MANAGER: ATC REALTY
PAT HEELAN
44 EXCHANGE STREET, SUITE 301
PORTLAND, MAINE 04103
PHONE: (207) 773-0242
FAX: (207) 871-5797

DIG SAFE

3 WORKING DAYS

BEFORE YOU DIG

CALL TOLL FREE 888-DIG-SAFE

UNDERGROUND SERVICE ALERT

Boston PCS, LLC

80 Baylis Road
Suite 201
Melville, NY 11747

OEST Associates, Inc.

143 Goshen Road - South Portland, ME 04106
engineers - architects - surveyors - construction managers
TEL: (207) 761-1770
FAX: (207) 774-1248

PROJECT NO: 357.007.01

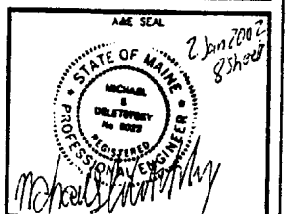
DRAWN BY: BJB

CHECKED BY: MSD

OEST PROJ. NO: 345.12.01

SUBMITTALS

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO BOSTON PCS, L.L.C. IS STRICTLY PROHIBITED. IF THIS DRAWING IS NOT 24"x36", IT IS NOT TO SCALE.



SITE
357.007.01

SPRINT
WARREN AVE.

188 WARREN AVE.
PORTLAND, ME 04101
CUMBERLAND COUNTY

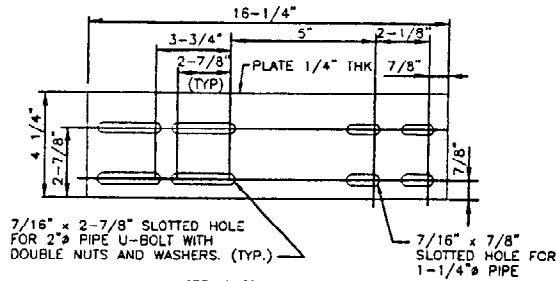
SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

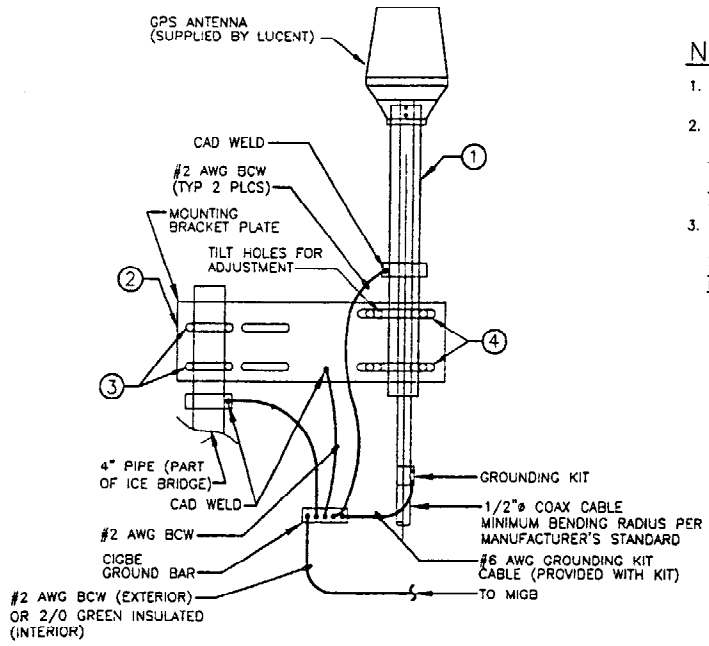
BILL OF MATERIALS		
ITEM#	DESCRIPTION	QUANTITY (each)
①	1-1/4" sch. 40 x 18" LG. MIN SS OR GALV. PIPE	1
②	PLATE 1/4 x 4-1/4 x 16-1/4" LG. GALV.(A-36)	1
③	STD. U-BOLT FOR 2" PIPE W/ DOUBLE HEX NUTS AND WASHER, GALV.	2
④	STD. U-BOLT FOR 2" PIPE W/ DOUBLE HEX NUTS AND WASHER, GALV. (SEE NOTE 3)	2



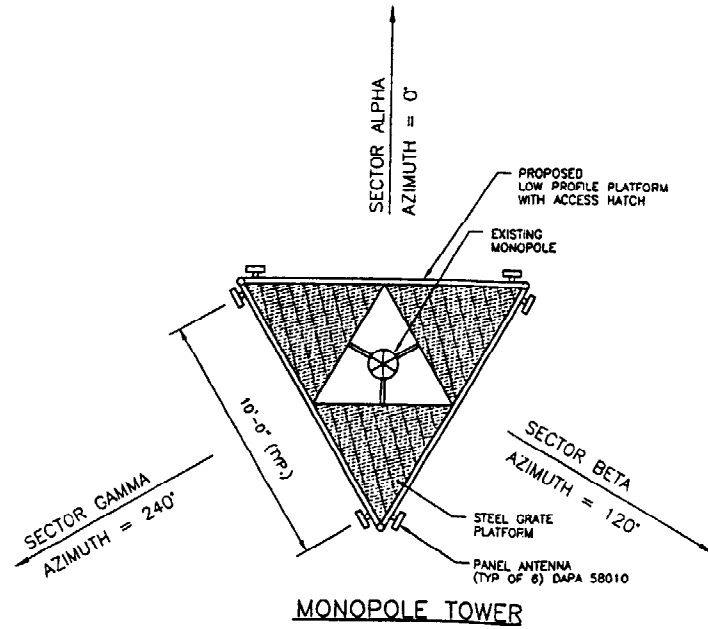
MOUNTING BRACKET PLATE

NOTE:

1. THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL RF REPORT.
2. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4" DIAMETER, SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.
3. THE MOUNTING PLATE SHALL BE FABRICATED AS SHOWN AND ATTACHED TO THE APPROPRIATE SUPPORT STRUCTURE USING U-BOLTS. THE SUPPORT PIPE SHALL THEN BE ATTACHED TO THE MOUNTING PLATE USING THE OVERSIZE U-BOLTS PROVIDED TO ALLOW ADJUSTMENT. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.



① GPS ANTENNA DETAILS
SCALE: N.T.S.



② ANTENNA LOCATION PLAN © ELEV. 170.0'
SCALE: N.T.S.

Boston PCS, LLC
80 Baylis Road
Suite 201
Melville, NY 11747

OEST Associates, Inc.
343 Cornum Road - South Portland, ME 04106
engineers - architects - surveyors - construction managers
TEL: (207) 781-1770
FAX: (207) 774-1246

PROJECT NO: 357.007.01

DRAWN BY: BJB

CHECKED BY: MSD

OEST PROJ. NO: 345.12.01

SUBMITTALS	
0	12/17/01 ISSUED FOR REVIEW

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AKK SEAL

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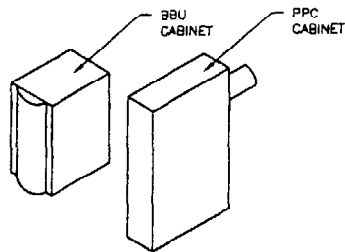
SHEET TITLE
DETAILS

SHEET NUMBER
A-1

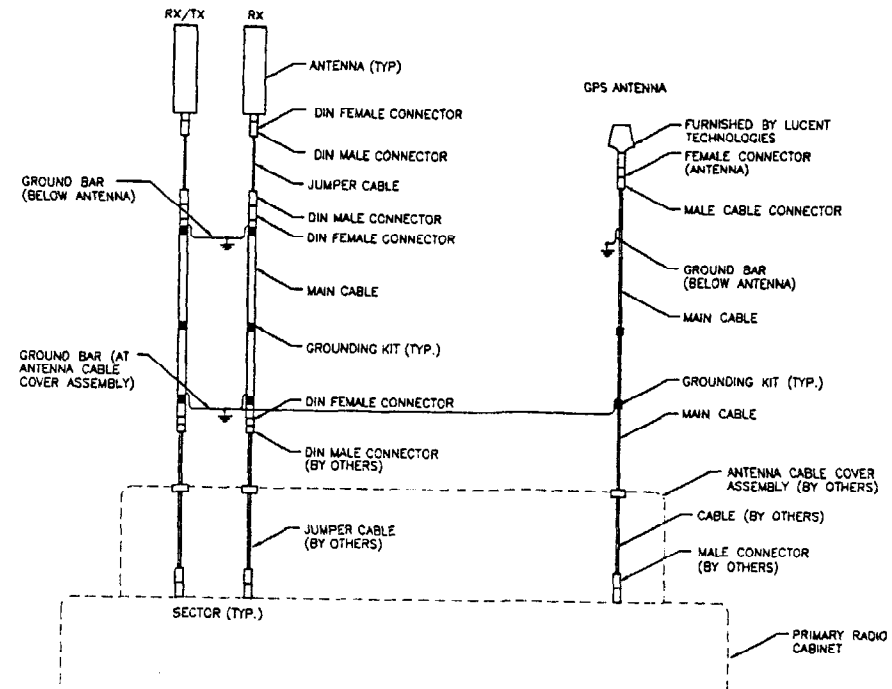
THIRD PARTY BILL OF MATERIALS (B.O.M.)					
SITE NAME: SPRINT WARREN AVE.		SITE NO. 357.007.01			
ITEM#	DESCRIPTION	PART NO.	QUANTITY (EACH)	LENGTH (FEET EACH)	TOTAL LENGTH (FEET ORDER)
1	ANTENNAS:				
	GPS: (LUCENT)		1	N/A	N/A
	SECTOR: ALPHA - (DAPA)	58010S	2	N/A	N/A
	SECTOR: BETA - (DAPA)	58010S	2	N/A	N/A
2	JUMPER CABLES:				
	JUMPER(TOP)	LDF-4	6	6'	N/A
	JUMPER(BOTTOM)(SUPPLIED BY BOSTON PCS)	PDM-6	6	6'	N/A
	MAIN CABLES:				
3	1/2" DIA. COAXIAL (ANDREW)	LDF-4-50A	1	CUT TO LENGTH	90'± LF
	1 5/8" DIA. COAXIAL (ANDREW)	VXL-7-50A	6	IN THE FIELD	1800'± LF
4	STANDARD CABLE GROUNDING KIT WITH FIELD ATTACHED 2-HOLE LUG	241088-8	1	N/A	N/A
	1 1/2", 60" LONG (ANDREW)	241088-9	18		
5	CONNECTORS, UNATTACHED FOR GPS & MAIN CABLES:				
	MALE "N" (ANDREW)	L4-PNM	1	N/A	N/A
	FEMALE "DIN" 1 5/8" (ANDREW)	L7-PDF-RPC	12	N/A	N/A
	"DIN" MALE 1/2" (ANDREW)	L4PDM	1	N/A	N/A
6	1 5/8" HOIST GRIP	24312 A	6	N/A	N/A
7	UNIVERSAL WEATHERPROOFING KIT	221213	7	N/A	N/A
8	(1) ANIXTER NO. CMP-00822T1-3 OR EQUAL		1	FIELD CUT TO LENGTH	FIELD CUT TO LENGTH
	(1) TELCO DEMARK TO PPC				
	(2) PPC TO FLEXENT CABINET (LUCENT)				
* 9	GPS MOUNT	SUMMIT	1	N/A	
* 10	ANTENNA MOUNTS (PLATFORM OF SECTOR MOUNTS)		** 1/3		
11	PPC (SUPPLIED BY BOSTON PCS)				
12	HARGER SURGE PROTECTOR (SUPPLIED BY BOSTON PCS)		N/A		
* 13	HARGER 20" G.B.	GBI-14420-G	1		
* 14	HARGER 12" G.B.	GBI-14412-G	5		

* = TO BE SUPPLIED BY CONTRACTOR
 MANUFACTURERS NAMES AND MODEL NUMBERS ARE LISTED TO SET QUALITY OF MATERIAL.
 CONTRACTOR MAY PROPOSE SUBSTITUTIONS, BUT MUST BE ACCEPTED BY CLIENT.

** 1 MONOPOLE/3 LATTICE



1 EQUIPMENT ISOMETRIC
 SCALE: N.T.S.



TYPICAL ANTENNA /CABLE CONFIGURATION

	AZ/MUTH 0°	DOWNTILT=0°		AZ/MUTH 120°	DOWNTILT=2°		AZ/MUTH 240°	DOWNTILT=0°		GPS ANTENNA	
		COAX CABLE TYPE/SIZE	LENGTH (FT)*		COAX CABLE TYPE/SIZE	LENGTH (FT)*		COAX CABLE TYPE/SIZE	LENGTH (FT)*	COAX CABLE TYPE/SIZE	LENGTH (FT)
ANTENNA TO JUMPER CABLE ASSEMBLY		ANDREW LDF-4	6	ANDREW LDF-4	6	ANDREW LDF-4	6	ANDREW LDF-4	6		N/A
JUMPER CABLE TO ANTENNA CABLE COVER ASSEMBLY		ANDREW VXL-7-50A	220	ANDREW VXL-7-50A	220	ANDREW VXL-7-50A	220	ANDREW VXL-7-50A	220	1/2"	40'
ANTENNA TYPE		DAPA 58010S		DAPA 58010S		DAPA 58010S		DAPA 58010S			
ANTENNA CABLE COVER ASSEMBLY TO PRIMARY RADIO CABINET (BY LUCENT)		ANDREW LDF-4	6	ANDREW LDF-4	6	ANDREW LDF-4	6	ANDREW LDF-4	6	N/A	N/A
COLOR CODING	FIRST RING	YELLOW	YELLOW	BLUE	BLUE		RED	RED			
	SECOND RING	BROWN	WHITE	BROWN	WHITE		BROWN	WHITE			
	THIRD RING	GREEN	GREEN	GREEN	GREEN		GREEN	GREEN			

* ESTIMATED LENGTHS FROM AVAILABLE INFORMATION

- NOTES: 1. TYPES AND SIZES OF THE ANTENNA CABLES ARE BASED ON THE ESTIMATED LENGTH OF THE CABLES. CONTRACTOR TO VERIFY ACTUAL LENGTHS IN THE FIELD BEFORE INSTALLATION AND NOTIFY THE FIELD ENGINEER FOR VERIFICATION OF SIZES OF THE CABLES.
2. FIELD ENGINEER TO UPDATE THE LENGTH OF CABLES.
3. ALL ANTENNA COAXIAL CABLES AND JUMPERS SHALL BE INSTALLED WITHOUT LOOPS AND/OR PIGTAILS.
4. COAXIAL CABLE GROUND KITS SHALL NOT BE INSTALLED ON THE JUMPER BETWEEN THE ANTENNA AND MAIN LINE CABLE.
5. ANTENNA COAXIAL CABLE GROUND KITS SHALL BE INSTALLED AS CLOSE TO THE CONNECTION AS POSSIBLE AT EACH ANTENNA. IF THIS IS NOT FEASIBLE THE GROUND KIT SHALL BE INSTALLED IMMEDIATELY AFTER THE BEND ON THE FIRST STRAIGHT RUN OF CABLE.
6. ANTENNA COAXIAL SHALL BE INSTALLED TO COMPLY WITH THE MANUFACTURER'S MINIMUM BEND RADIUS SPECIFIED BELOW. THE CONTRACTOR SHALL INSTALL RACEWAY FOR COAXIAL CABLE USING THE PROPER FITTINGS NECESSARY TO ENSURE THAT THE MINIMUM BEND RADIUS REQUIREMENTS ARE MET.

MANUFACTURER	CABLE TYPE	CABLE SIZE (?)	MINIMUM BEND RADIUS
ANDREW	LDF4	1/2"	5"
ANDREW	VXL-7-50A	1 5/8"	20"

7. THE GPS ANTENNA COAXIAL CABLE SHALL BE A CONTINUOUS CABLE RUN, FROM THE CONNECTOR AT THE ANTENNA HEAD TO THE CONNECTOR AT THE BTS CABINET, WITHOUT JUMPERS.
8. ALL ANTENNA COAXIAL CABLES SHALL BE MARKED AND TAGGED IN ACCORDANCE WITH THE ABOVE COLOR CODING.

Boston PCS, LLC
 80 Baylis Road
 Suite 201
 Melville, NY 11747

CEST Associates, Inc.
 343 Gorton Road - South Portland, ME 04106
 engineers - drafters - surveyors - construction managers
 TEL: (207) 781-1770
 FAX: (207) 774-1246

PROJECT NO: 357.007.01

DRAWN BY: BJB

CHECKED BY: MSD

CEST PROJ. NO: 345.12.01

SUBMITTALS

0	12/17/01	ISSUED FOR REVIEW									

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AME SEAL

SITE
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 SPRINT
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 188 WARREN AVE.
 PORTLAND, ME 04101
 CUMBERLAND COUNTY

SHEET TITLE

COAX SCHEDULE

SHEET NUMBER

A-2

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE THE DESIGN AND CONSTRUCTION SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4. IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. 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.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES.

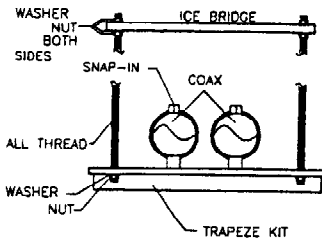
CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 338, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. TYPE I CEMENT IS REQUIRED. CONCRETE SLUMP SHALL BE 3"-5" AND AIR CONTENT SHALL BE 5.0% ± 1.5%.
3. CONCRETE SHALL BE INTERNALLY VIBRATED IN ACCORDANCE WITH ACI STANDARD 309-81 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
4. COLD WEATHER AND HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 305 AND 306.
5. AFTER PLACEMENT THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7 DAY INITIAL CURING PERIOD.
6. THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN. ONE SHALL BE TESTED AT 7 DAYS, ONE AT 28 DAYS, AND ONE HOLD CYLINDER.
7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
8. 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	1 1/2 IN.
#5 AND SMALLER & WWF	2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	
SLAB AND WALL	1 1/2 IN.
BEAMS AND COLUMNS	3/4 IN.
9. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

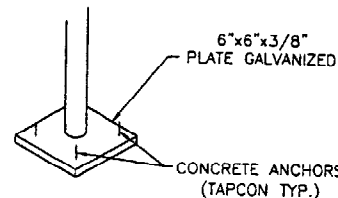
GENERAL NOTES:

1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE REMOVED FROM THE FOUNDATION PAD SITE.
2. STRUCTURAL FILL AND BACKFILL SHOULD CONSIST OF A NON GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER AND PLACED IN UNIFORM 6" LIFTS.
3. STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 100% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
4. STRUCTURAL FILL UNDERNEATH FOUNDATIONS AND SLABS SHALL BE COMPACTED WITH A SMOOTH VIBRATOR COMPACTION DEVICE PRIOR TO CONCRETE PLACEMENT.
5. CONSTRUCT THE SIDES OF THE STRIP FOOTING FOUNDATION STRAIGHT AND VERTICAL, TO REDUCE THE RISK OF FROZEN SOIL ADHERING TO THE CONCRETE AND LIFTING THE FOUNDATION. THE USE OF FORMS AT THE TOP OF THE STRIP FOOTING MAY BE NECESSARY TO PREVENT THE CREATION ON AN ENLARGED AREA OF CONCRETE (MUSHROOM). IF A MUSHROOM OF CONCRETE OCCURS, HEAVE OF THE FOUNDATION CAN TAKE PLACE FROM FROZEN SOIL BENEATH THE MUSHROOM HEAVING UP AND CARRYING THE FOUNDATION WITH IT.



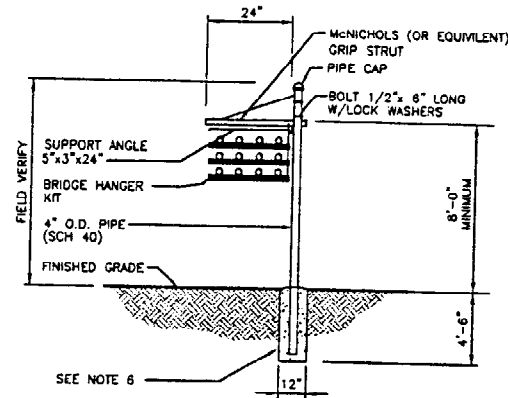
TYPICAL TRAPEZE DETAIL

NOTE: ALL STEEL IS TO BE GALVANIZED



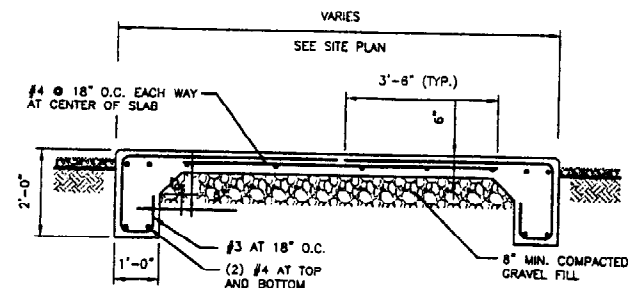
OPTIONAL SUPPORT POST MOUNTING DETAIL

SCALE: N.T.S.



ICE BRIDGE DETAIL

SCALE: N.T.S.



CONCRETE SLAB

SCALE: N.T.S.

COAXIAL-CABLE BRIDGE NOTES:

1. ALL BRIDGE KITS SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS.
2. STRUCTURAL STEEL SHALL BE ASTM A36. PIPE SHALL BE ASTM A53, GRADE B (SEAMLESS).
3. EXTERIOR STEEL SHALL BE HOT-DIP GALVANIZED, AFTER FABRICATION AND WELDING, TO ASTM A123. HARDWARE SHALL BE EITHER A325 STEEL, GALVANIZED TO ASTM A153, OR 18-8 STAINLESS.
4. SIZE, NUMBER AND POSITION OF COAXIAL CABLES MAY VARY.
5. POSITION BRIDGE ASSEMBLY SO THAT COAXIAL CABLES INTERSECT AT LADDER CENTERLINE. HEIGHT ABOVE GROUND MAY VARY ACCORDING TO SITE LAYOUT.
6. FOR SOIL, USE 12" DIAM. SONOTUBE 48" DEEP PIER FILLED WITH 3000 psi CONCRETE. INSTALL TOP OF PIER FLUSH WITH PROPOSED GRADE, AND PROVIDE GRADE FOR DRAINAGE.
7. FOR CONCRETE, FASTEN BASEPLATE W/ (4) ANCHORS, 4" LONG.
8. FOR BURIED LEDGE AT LESS THAN 3'-5" BELOW FINISHED GRADE, CORE 8" DIAM. HOLE INTO LEDGE 18" DEEP. FILL AROUND PIPE WITH NON-SHRINK GRCUT. USE COAL TAR ON BURIED LENGTH OF PIPE, AND BACKFILL TO FINISHED GRADE.
9. FOR POSTS ON CONCRETE OR EXPOSED LEDGE, PROVIDE 6"x6"x3/8" BASEPLATE WITH (4) HILTI KWIKBOLT 1/2"x6" EMBEDMENT.

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PROJECT NO: 357.007.01

DRAWN BY: BJB

CHECKED BY: MSD

OEST PROJ. NO: 345.12.01

SUBMITTALS

0	12/17/01 ISSUED FOR REVIEW

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A&E SEAL

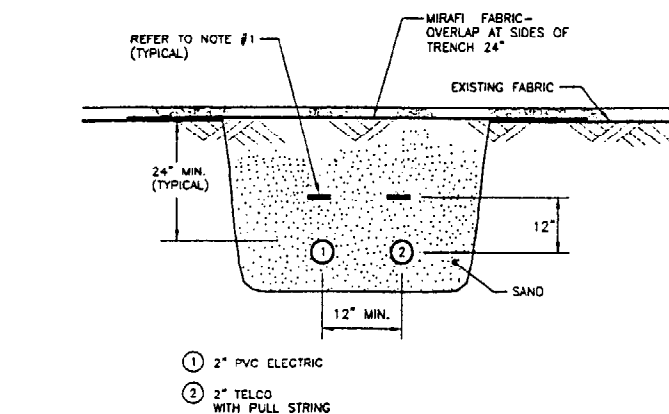
SITE
357.007.01
SPRINT
WARREN AVE.
188 WARREN AVE.
PORTLAND, ME 04101
CUMBERLAND COUNTY

SHEET TITLE

STRUCTURAL
DETAILS

SHEET NUMBER

S-1



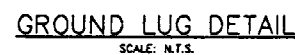
1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DIRECT BURIED CONDUITS WITH PLASTIC WARNING TAPE IDENTIFYING CONTENTS. TAPE COLOR SHALL BE ORANGE FOR TELEPHONE AND RED FOR ELECTRIC.

E-1



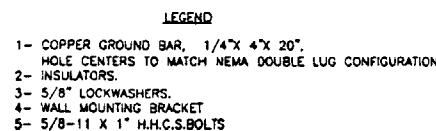
1. SEE DRAWING #E-1 FOR LEGEND AND ABBREVIATIONS.
2. ALL DETAILS ARE SHOWN IN DIAGRAMMATICALLY. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
3. ALL GROUND WIRE SHALL BE BARE TINNED COPPER #2 AWG UNLESS OTHERWISE NOTED.
4. ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING GROUND RINGS WITH SITE CONSTRUCTION MANAGER.
6. EACH LUCENT EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2) CONNECTIONS UNLESS NOTED OTHERWISE. GROUNDING INSTALLATION SHALL BE ACCORDANCE WITH THE LUCENT EQUIPMENT SITE SPECIFICATIONS GUIDELINES.
7. PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED CIGBE (TYPICAL FOR TWO MOUNTING PIPES PER SECTOR).
8. ANTENNA GROUND KITS SHALL BE FURNISHED BY BOSTON PSC, L.L.C. AND INSTALLED BY ELECTRICAL CONTRACTOR.
9. REFER TO DRAWING E-3 FOR FURTHER GROUNDING REQUIREMENTS.
10. GROUND SYSTEM SHALL BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.

E-2

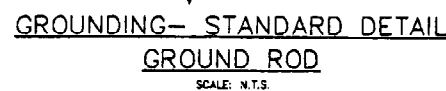


NOTES:

1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
3. PROVIDE "DO NOT DISCONNECT" TAG AS REQUIRED BY ITEM 2.7 OF NORTHCOAST ENGINEERING LETTER 01.



GROUNDING- STANDARD DETAIL
GROUND BAR
SCALE: N.T.S.



1. CONTRACTOR TO UTILIZE KOPR-SHIELD (THOMAS & BETTS) ON ALL LUG CONNECTIONS.

GROUNDING- STANDARD DETAIL INSTALLATION
OF GROUND WIRE TO GROUND BAR
SCALE: N.T.S.



1. NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION AND CONNECTION ANTENNA LOCATION AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
2. A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

ANTENNA CABLE
GROUNDING LUG DETAIL
SCALE: N.T.S.



1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

STANDARD DETAIL CONNECTION OF
GROUND WIRES TO COAXIAL CABLES
SCALE: N.T.S.

- 1 SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE
CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- 2 CONTRACTOR SHALL OBSERVE ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION
WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL
CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO
BOSTON PCS, L.L.C. LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- 3 HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- 4 THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- 5 EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAPPED IN EACH
PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH
OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
- 6 CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION
CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE
SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN
AND/OR AS OTHERWISE REQUIRED.
- 7 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN
INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER
THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED
AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL
"I" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF
THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING
JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE
STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU.
- 8 CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE,
COUNTY AND LOCAL CODES AND O.S.H.A.
- 9 CONTRACTOR SHALL SECURE ALL ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES
- 10 COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE
DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO
BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN
NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- 11 ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
- 12 PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAW
AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- 13 ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE
TURNED OVER TO OWNER AT JOB COMPLETION.
- 14 USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR
FOR LIGHTING FIXTURE.
- 15 ALL CONDUCTORS SHALL BE COPPER.
- 16 ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN
INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH
THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- 17 THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE
- 18 PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE
ELECTRICAL WORK.
- 19 IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR
PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE
CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED IN
OUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- 20 LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THERE
MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER
THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.

- 21 PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION NO. 4303 AND NO. 4304 OF THE U.B.C.
- 22 GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELDED OR APPROVED EQUAL.
- 23 METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE COMPANY OR APPROVED EQUAL.
- 24 ALL MATERIALS SHALL BE U.L. LISTED.
- 25 CONDUIT:
 - a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WIRE PROCESS NO. 3.
 - b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT, ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
- 28 ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- 27 UPON COMPLETION OF WORK, CONDUIT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL ALL SUENIT TEST REPORTS TO PROJECT MANAGER, CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- 28 CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.

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SUBMITTALS

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AGE SEAL

188 WARREN AVE.
PORTLAND, ME 04101
CUMBERLAND COUNTY

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

E-3