

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

PERMIT ISSUED		Permit No: 02-0734	CBL: 210A A005001
Location of Construction: 1050 Westbrook St	Owner Name: Pjh Associates Limited	Owner Address: 1050 Westbrook St	Phone: 775-2200
Business Name:	Contractor Name: Green Mountain Communications	Contractor Address: P.O. Box 356 Wolfeboro Falls	Phone: 6035698601
Lessee/Buyer's Name	Phone:	Permit Type: Additions - Commercial	Zone: AB

Past Use: Embassy Suites Hotel/Hospitality	Proposed Use: Embassy Suites Hotel/Hospitality	Permit Fee: \$128.00	Cost of Work: \$15,000.00	CEO District: 3
Proposed Project Description: Construct a Concrete Pad 5'x5' 6" for Radio Cabinet and a Brick Screen Wall Adjacent to Equipment Shelter.		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: B Type: NA	
		Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
Signature: _____ Date: _____				

Permit Taken By: gad	Date Applied For: 06/28/2002	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 type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/>	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	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: <i>[Signature]</i> 7/11/02	Date: _____	Date: <i>[Signature]</i>	

CERTIFICATION

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

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

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING DEPARTMENT

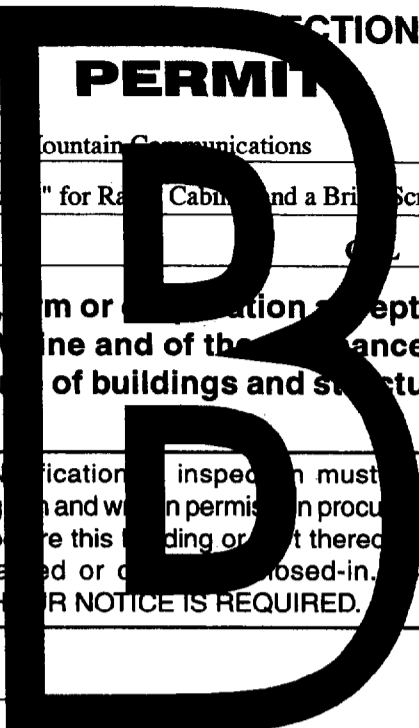
PERMIT

Permit Number: 020734

Please Read Application And Notes, If Any, Attached

This is to certify that Pjh Associates Limited/Green Mountain Communications
has permission to Construct a Concrete Pad 5'x5' for Rack Cabinet and a Brick Screen Wall Adjacent to Equipment Shelter.
AT 1050 Westbrook St Portland, OR 97210 210A A005001

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



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

Notification of inspection must be given and work on permit in progress before this building or part thereof is closed-in. 48 HOUR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

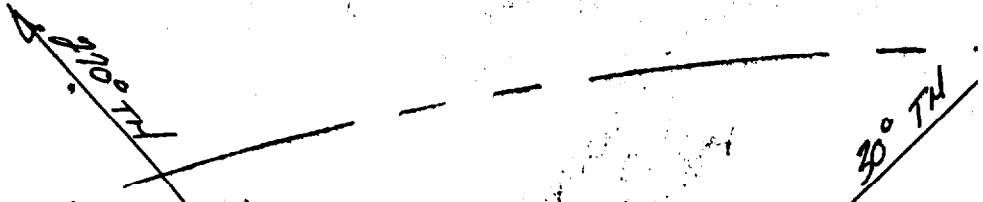
Fire Dept. [Signature]
Health Dept. _____
Appeal Board _____
Other _____
Department Name

[Signature] 2/16/02
Director - Building & Inspection Services

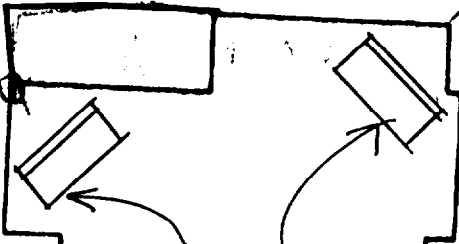
PENALTY FOR REMOVING THIS CARD

JUN 27 2002

LOT 4



BRICK
FENCE
CONC
PMT
ORIGINAL
ATTN'S
BUILD

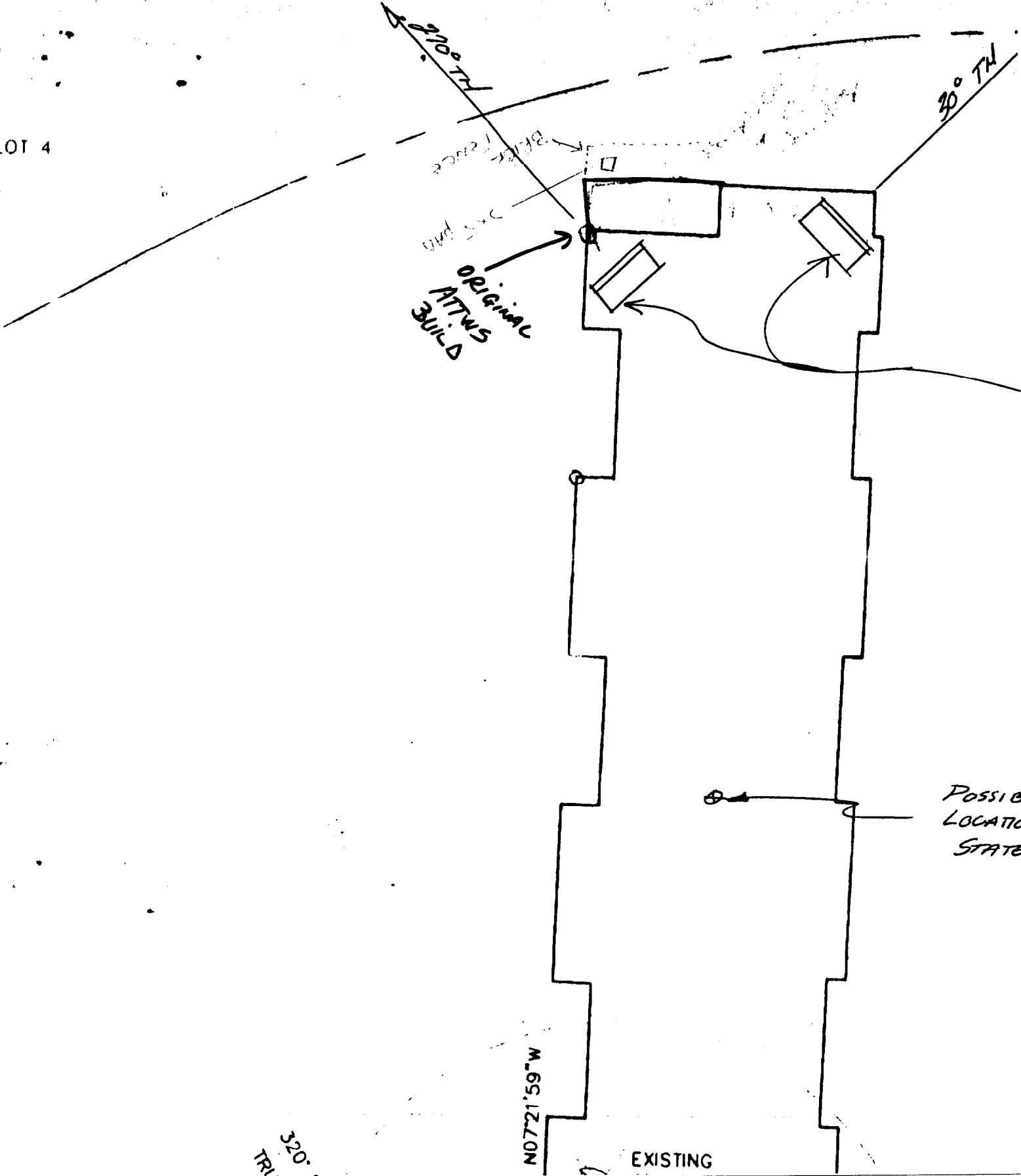


POSSIB
LOCATIO
STATE

320°
TRI

N07°21'59"W

EXISTING



02-0734

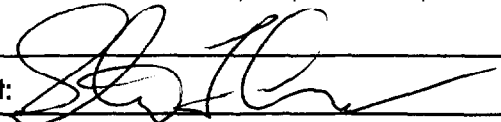
All Purpose Building Permit Application

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.

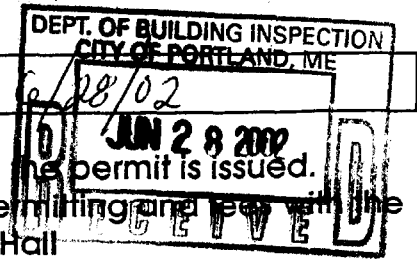
Location/Address of Construction: <u>Embassy Suites / 1050 Westbrook St. Portland Me 04102</u>		
Total Square Footage of Proposed Structure	Square Footage of Lot <u>MIN. 200,000</u>	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>MAP 210A A 5</u>	Owner: <u>P.J.H ASSOCIATES LLC</u> <u>1050 Westbrook St.</u> <u>PORTLAND ME</u>	Telephone: <u>207-775-2200</u>
Lessee/Buyer's Name (If Applicable) <u>AT & T Wireless Services</u>	Applicant name, address & telephone: <u>Green Mountain Comm.</u> <u>P.O. Box 356</u> <u>Wolfeboro Falls NH 03896</u>	Cost Of Work: \$ <u>15,000</u> <u>4128.00</u> Fee: \$ <u>120.</u>
Current use: <u>Hospitality</u>		
If the location is currently vacant, what was prior use: <u>N/A</u>		
Approximately how long has it been vacant: <u>N/A</u>		
Proposed use: <u>SAME</u>		
Project description: <u>Install precast concrete pad 5'-0" x 5'-6" for radio cabinet & brick screen wall adjacent to existing equipment shelter</u>		
Contractor's name, address & telephone: <u>Green Mountain Communications Inc.</u> <u>P.O. Box 356 Wolfeboro Falls NH 03896</u>		
Who should we contact when the permit is ready: <u>Steve Connor</u> <u>603-569-8601</u>		
Mailing address: <u>P.O. Box 356</u> <u>Wolfeboro Falls NH 03896</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>603-569-8601</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: 	Date: <u>6/28/02</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

Applicant <i>Green Mountain Comm. Inc.</i>	Application Date NEW-0023
Applicant's Mailing Address P.O. Box 356 West Ferrisburgh NY 03896 603-569-8601 Steve Connors	Project Name/Description EMBASSY SUITES 1050 Westbrook St.
Consultant/Agent/Phone Number	Address of Proposed Site CBL: 00-0734

Description of Proposed Development:

Placement of precast 5'-0" x 5'-6" concrete pad for radio equipment - to be surrounded by brick screen wall

Please Attach Sketch/Plan of Proposal/Development

Criteria for Exemptions:

See Section 14-523 (4)

- 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
<i>yes</i>	<input checked="" type="checkbox"/>
<i>yes</i>	<input checked="" type="checkbox"/>
<i>yes</i>	<input checked="" type="checkbox"/>
<i>N/A</i>	<input checked="" type="checkbox"/>
<i>yes (no more)</i>	<input checked="" type="checkbox"/>
<i>N/A</i>	<input checked="" type="checkbox"/>
<i>yes (will be)</i>	<input checked="" type="checkbox"/>
<i>N/A / yes</i>	<input checked="" type="checkbox"/>

Planning Office Use Only:

Exemption Granted _____ Partial Exemption Exemption Denied _____

FAA sign-off for brick wall screens?

Planner's Signature *John White*

Date *7/5/02*

GENERAL NOTES

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR - BECHTEL
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T WIRELESS SERVICES.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 24823-033-3APS-A002-00002. "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AWS 3G SITES."
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

DETAIL 300

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: 1050 WESTBROOK STREET
 PORTLAND, ME 04102
 LATITUDE: 43.65138°
 LONGITUDE: -70.31047°
 JURISDICTION: TOWN OF PORTLAND
 COUNTY NAME: SOUTH PORTLAND, ME
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY

DRAWING INDEX

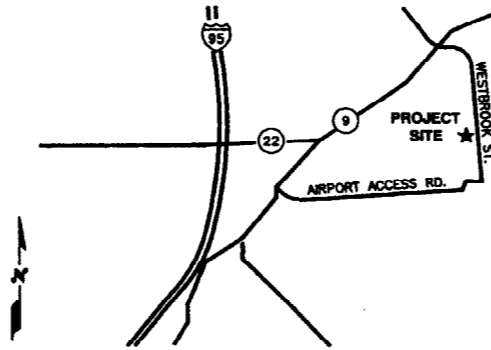
DRAWING INDEX	REV
NEW-0023-01 TITLE SHEET	2
NEW-0023-02 EQUIPMENT LAYOUT	1
NEW-0023-03 DETAILS	0
NEW-0023-04 NOTES	0
NEW-0023-05 POWER AND GROUNDING SCHEMATIC	0
NEW-0023-06 ANTENNA SCHEMATIC & BILL OF MATERIALS	0
NEW-0023-07 ANTENNA ELEVATION & DETAILS	0
NEW-0023-08 COAX CABLE COLOR CODING & TAGGING DETAILS	0

SITE TYPE

ANTENNAS ON ROOF WITH OUTDOOR EQUIPMENT ON GROUND

VICINITY MAP

DIRECTION: I-95 MAINE TURNPIKE TO EXIT 7A. FOLLOW AIRPORT ACCESS ROAD TO 4 WAY INTERSECTION. STRAIGHT THROUGH AND ON RIGHT SIDE IS EMBASSY SUITES HOTEL. OUR EQUIPMENT ROOM IS OUTSIDE AND TO THE LEFT OF THE MAIN ENTRANCE NEAREST THE POOL.
 SPECIAL NOTE: N/A



STRUCTURAL NOTES

THE ADDITIONAL LOADS ARE INSIGNIFICANT IN COMPARISON WITH THE EXISTING LOADS ALREADY IMPOSED. THEREFORE, NO FURTHER ANALYSIS IS REQUIRED OR HAS BEEN PERFORMED. NO STRUCTURAL MODIFICATIONS ARE REQUIRED.



AT&T

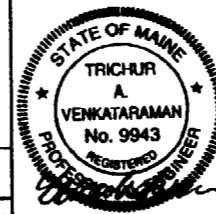
AT&T WIRELESS

SITE NUMBER: NEW-0023
AWS SITE NO: M023
SITE NAME: BRADLEYS CORNER

RECEIVED
 JUL 28 2002

APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (LAJ) FOR THE LOCATION. THE EDITION OF THE LAJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
 BUILDING CODE:
 BOCA NATIONAL BUILDING CODE 1999
 ELECTRICAL CODE:
 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 99SB, NATIONAL ELECTRICAL CODE LIGHTNING PROTECTION CODE:
 NFPA 780 - 1997, LIGHTNING PROTECTION CODE
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT
 IEEE C82.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
 TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
 TELECOMMA GR-1503 COAXIAL CABLE CONNECTIONS
 FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.
 DETAIL 303 BOS



Status	DOCUMENT REVIEW STATUS
1	Issue for Use
2	Receive Comments
3	Resubmit Rev.:

Review does not constitute acceptance or approval of design detail, calculations, analysis, test methods or materials developed or selected by the supplier. It also does not relieve the supplier from fully complying with contractual obligations.

Reviewed By: Eng
 Date:



Bay State Design
 Associates, Inc.
 Architects - Engineers
 70 Tower Office Park
 Woburn, MA 01801
 Phone: 781-832-2447
 Fax: 781-832-9771

BRADLEYS CORNER
SITE NO. NEW-0023
 1050 WESTBROOK STREET
 PORTLAND, ME 04102



AT&T WIRELESS SERVICES, INC.
 400 BLUE HILL ROAD, SUITE 100
 PORTLAND, ME 04102

NO.	DATE	BY	REVISION
2	04/27/02	KS	REVISED DESIG. LOADS & ASSESS WALL
1	04/16/02	KS	ISSUED BY SHEETS
0	04/26/02	KS	ISSUED FOR CONSTRUCTION

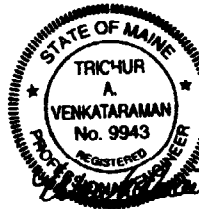
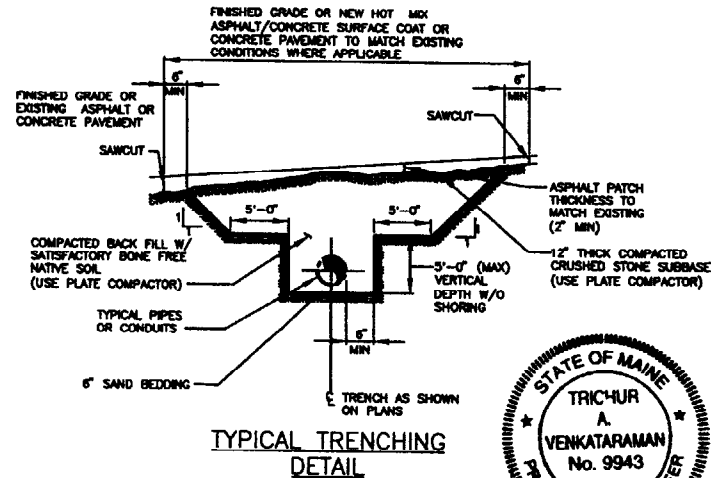
AT&T WIRELESS

TITLE SHEET
 BRADLEYS CORNER
 SHEET NUMBER
 NEW-0023-01

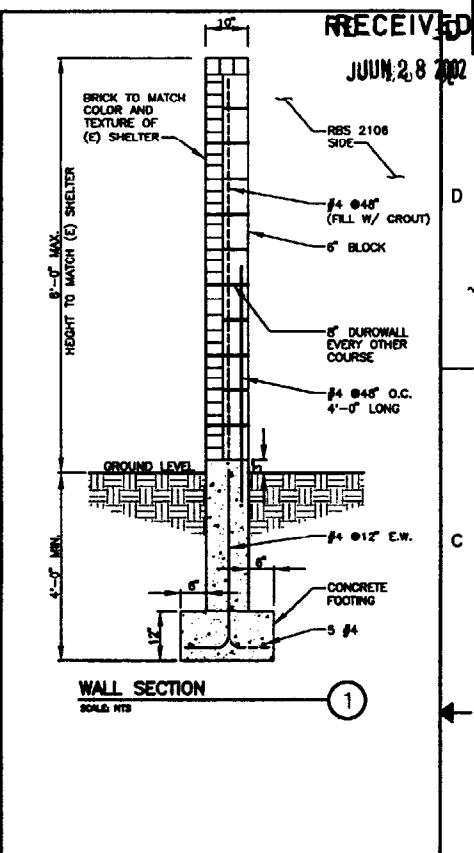
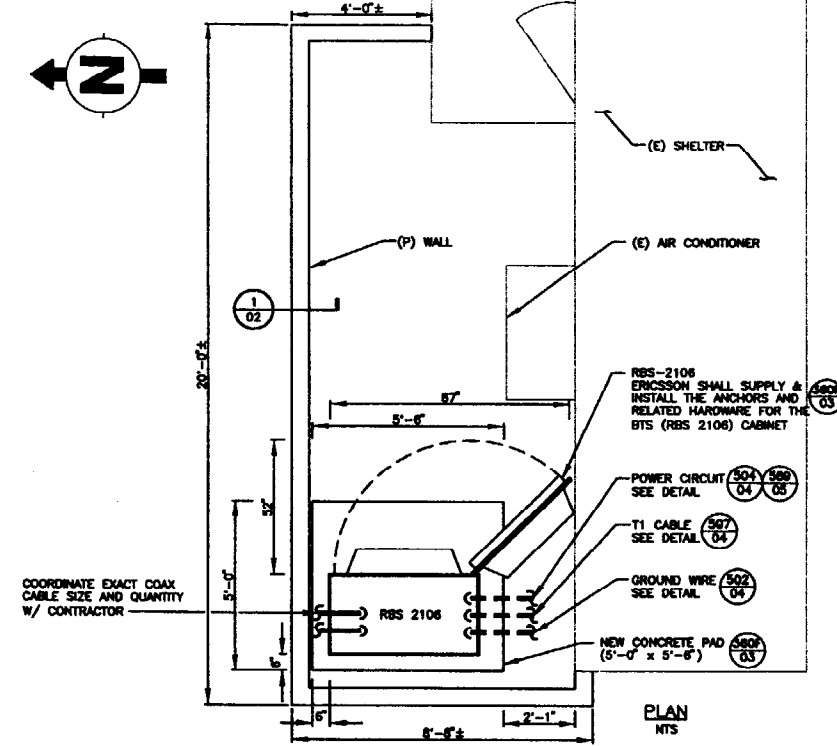
CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 338, ASTM A186, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
3. 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. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. 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:
 #5 AND LARGER2 IN.
 #5 AND SMALLER & WWF.....1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALL3/4 IN.
 BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.

CONCRETE AND REINFORCING STEEL NOTES (302)



NOTE:
SUBCONTRACTOR SHALL VERIFY LOCATION AND ORIENTATION OF (E) ELECTRICAL PANEL, ELECTRICAL CONDUITS, T LINES, COAXIAL CABLES & GROUNDING WIRE W/ CONTRACTOR PRIOR TO INSTALLATION.



CONSTRUCTION NOTES

1. FIELD VERIFICATION: SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, AT&T ANTENNA PLATFORM LOCATION AND ANTENNAS TO BE REPLACED.
2. COORDINATION OF WORK: SUBCONTRACTOR SHOULD COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
3. CABLE LADDER RACK: SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY, ICE BRIDGES AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.
4. ALL COAXIAL CABLES, POWER CIRCUITS, T1 CABLES AND GROUND WIRES SHALL BE SUPPORTED AT A MIN. 3'-0" O.C. SPACING.

DETAIL (301) (BOS)

LEGEND

- EXIST. EQUIP.
- PROPOSED EQUIP.
- FUTURE EQUIP.
- CONDUCTORS AND RACEWAY TO BE FURNISHED & INSTALLED BY SUBCONTRACTOR

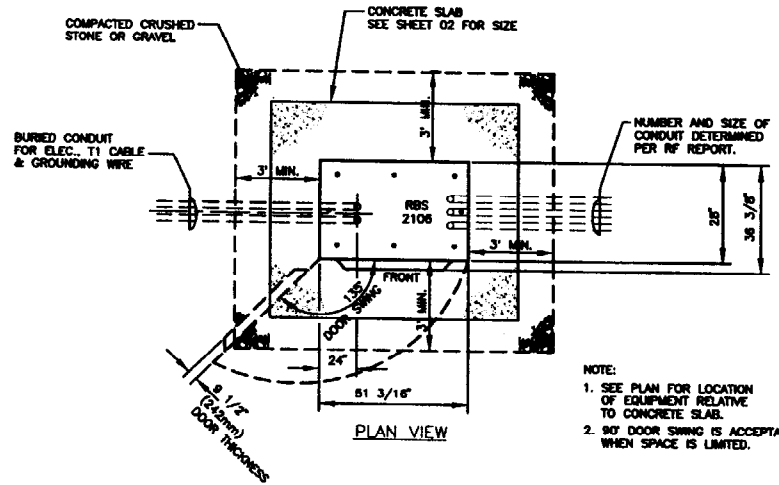
BAY STATE DESIGN
 Bay State Design Associates, Inc.
 Architects - Engineers
 70 Tower Office Park
 Woburn, MA 01801
 Phone: 781-832-2447
 Fax: 781-832-8771

BRADLEYS CORNER SITE NO. NEW-0023
 1050 WESTBROOK STREET
 PORTLAND, ME 04102

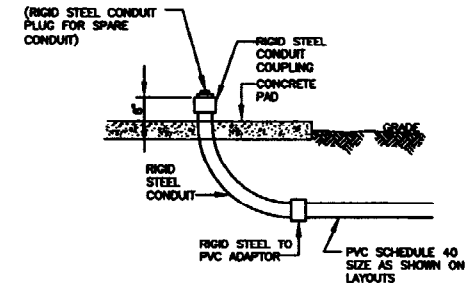
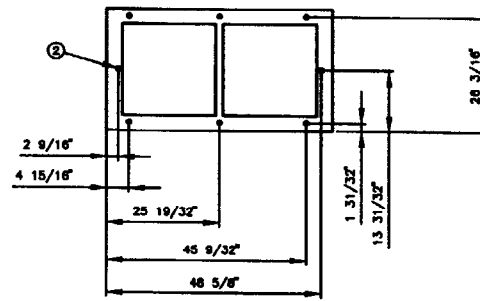
AT&T
 AT&T WIRELESS SERVICES, INC.
 400 BLUE HILL DRIVE, SUITE 100
 WATSONVILLE, CA 95070

1	04/27/02	REVISED EQUIP. LOCATION & ASSED WALL	BY	CS	AW
2	05/15/02	REVISED FOR CONSTRUCTION	BY	CS	AW
3	06/10/02	REVISED	BY	CS	AW
APPROVED BY		DESIGNED BY	DRAWN BY		
SIGNED		SIGNED	SIGNED		

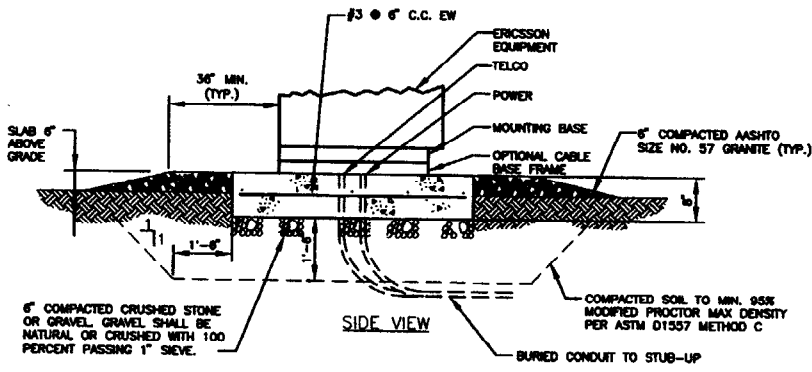
AT&T WIRELESS
 EQUIPMENT LAYOUT
 BRADLEYS CORNER
 NEW-0023-02



- ① ALL DIMENSIONS TO BE FIELD VERIFIED.
- ② RECOMMENDED CABINET MOUNTING ANCHORS ARE HILTI KWIK BOLT # 5/8" HOLE DIAMETER AT A MIN. 2.75" EMBED.
- ③ FOR SIZE AND THICKNESS OF CONCRETE SLAB SEE DETAIL 360F
- ④ FOR CONCRETE NOTES SEE DETAIL 302



DETAIL 566
N.T.S.



CONCRETE EQUIPMENT PAD/ SLAB ON GRADE

ERICSSON RBS 2106 DIMENSIONS

CABINET	HEIGHT x WIDTH x DEPTH
RBS 2106	63 5/8" H x 51 3/16" W x 36 3/8" D (1618.5mm x 1300mm x 925mm)
FOOTPRINT (INCLUDING INSTALLATION FRAME)	63 5/8" H x 51 3/16" W x 28" D (1618.5mm x 1300mm x 710mm)

ERICSSON RBS 2106 WEIGHT & FLOOR LOADING

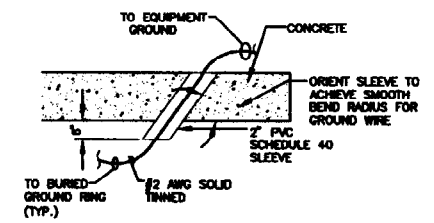
CABINET	APPROX. MAX. WEIGHT	MAX. FLOOR LOADING
RBS 2106	1213 LBS (WEIGHT WITHOUT BATTERIES)	1301 LBS (WEIGHT WITH BATTERIES)

CABINET ANCHORING BY ERICSSON SHALL BE BASED ON A PEAK ACCELERATION VALUE OF 0.12G.
 NOTE:
 STANDARD HEIGHT SHOWN ON THE TABLE INCLUDES MOUNTING BASE FRAME (50.5mm H) PROVIDED BY ERICSSON. OPTIONAL CABLE BASE FRAME (150mm H) IS NOT INCLUDED.

ERICSSON RBS 2106 MINIMUM CLEARANCES

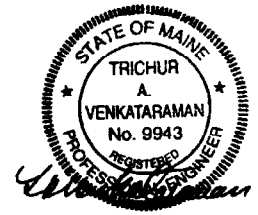
DIRECTION	USB 2001 2 BAY MINIMUM CLEARANCE
CABINET FRONT	52"
CABINET REAR	2"
CABINET RIGHT	0"
CABINET LEFT	0" (3" MIN. FOR 135° DOOR SWING)
ABOVE THE CABINET	-

DETAIL 360F
N.T.S. BOS



EQUIPMENT ON SLAB ON GRADE
 IF REQUIRED TO ROUTE GROUND WIRE THROUGH SLAB (REQUIRED FOR LARGER CONCRETE SLAB)
 FOR ORIENTATION SEE PLAN

DETAIL 569F
N.T.S. BOS



RECORD DOCUMENT

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 WESTBORO, MA 01581

NO.	DATE	REVISIONS	BY	CHKD BY

SCALE: AS SHOWN DESIGNED BY: BAW DRAWN BY: BAW

AT&T WIRELESS

DETAILS
 BRADLEYS CORNER

NEW-0023-03

ELECTRICAL INSTALLATION METHODS AND MATERIALS

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MAXIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOOD PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANEL BOARD AND CIRCUIT ID'S).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOOD PLASTIC LABELS.
9. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG AND LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#8 AWG AND LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE.
13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG AND LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75 °C (90 °C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/NEZ, AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECTLY BURIED, NOT ENCASED IN CONCRETE.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES, AND WIRE WAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/NEZ, AND NEC.

24. CABINETS, BOXES, AND WIRE WAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIRE WAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR APPROVED); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

DETAIL 504

TRANSPORT (T1) LINES

1. ALL RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.
2. ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G., OUTDOORS, INDOORS-OCCUPIED, INDOORS-UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.
3. METALLIC CONDUIT OR TUBING FOR T1 LINES SHALL BE BONDED TO GROUND AT BOTH ENDS. THE OWNER WILL PERFORM TESTING AND ACCEPTANCE OF T1 LINES.
4. ERICSSON SHALL BE NOTIFIED FOR T1 CABLE LENGTH GREATER THAN 50' (LENGTH IS BETWEEN TELCO PANEL AND ERICSSON SUPPLIED RBS).
5. ERICSSON WILL SUPPLY AND CONNECT T1 CABLE AT NU AND BTS CABINET.

DETAIL 507

TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

1. TVSS DEVICES FOR AC POWER, T1, AND RF COAX SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR HAVE UNSUITABLE TVSS DEVICES.
2. SURGE SUPPRESSION AND PROTECTION DEVICES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) ART 250, 280, AND CHAPTER 8, AS APPLICABLE.
3. EACH EXISTING AC POWER SERVICE DISCONNECT SHALL HAVE AN INTEGRATED COMMON MODE TVSS MODULE. THE TVSS MODULE SHALL BE EITHER CUTLER-HAMMER, CLIPPER POWER SYSTEM, MODEL CPS-SX, 120 KA (WITH THE BASIC DIAGNOSTIC PACKAGE AND FORM-C ALARM CONTACTS) OR (FOR ANS SITES WITHOUT THE INTEGRATED CUTLER-HAMMER PANEL BOARD) INNOVATIVE TECHNOLOGIES MODEL ORN (OR OWNER APPROVED EQUAL).
4. THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE OF THE MANUAL TRANSFER SWITCH.
5. EACH T1 LINE SHALL HAVE A TVSS (ATLANTIC SCIENTIFIC, ZONE BARRIER SERIES, PART NO. 80700, OR OWNER APPROVED EQUAL) AT THE LOCAL EXCHANGE CARRIER (LEC) NETWORK INTERFACE UNIT (NIU).
6. SEE DETAILS 506 AND 527 FOR ADDITIONAL RF COAXIAL TVSS REQUIREMENTS

DETAIL 506

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPL, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
4. EACH INDOOR BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH SUPPLEMENTAL EQUIPMENT GROUND WIRES, #8 AWG OR LARGER.
5. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
6. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
7. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

DETAIL 502 BOS

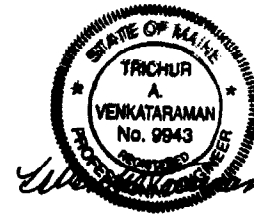
SYMBOLS

- [S/G] SOLID GROUND BUS BAR
- [S/N] SOLID NEUTRAL BUS BAR
- SUPPLEMENTAL GROUND CONDUCTOR
- 2-POLE THERMAL-MAGNETIC MINATURE CIRCUIT BREAKER
- SINGLE-POLE THERMAL-MAGNETIC MINATURE CIRCUIT BREAKER

ABBREVIATIONS

- AGL ABOVE GRADE LEVEL
- BTS BASE TRANSCENER STATION
- (E) EXISTING
- (P) PROPOSED
- MIN. MINIMUM
- N.T.S. NOT TO SCALE
- REF. REFERENCE
- RF RADIO FREQUENCY
- T.B.D. TO BE DETERMINED
- T.B.R. TO BE RESOLVED
- TYP TYPICAL
- REQ. REQUIRED
- EGR EQUIPMENT GROUND RING
- AWG AMERICAN WIRE GAUGE
- MGB MASTER GROUND BUS
- EG EQUIPMENT GROUND

ABBREVIATIONS & SYMBOLS 500 BOS



RECORD DOCUMENT



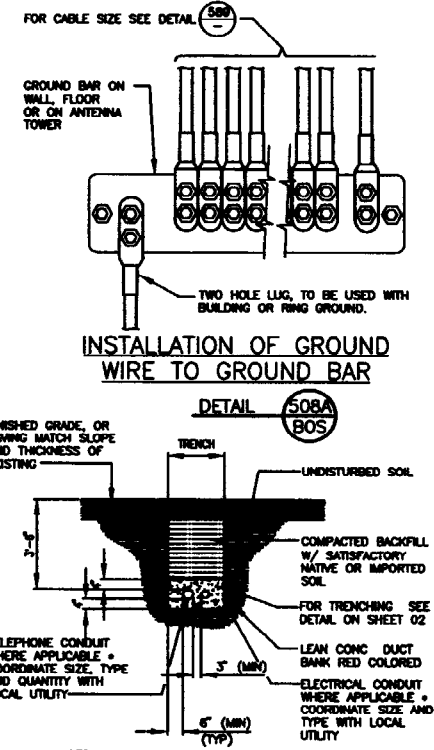
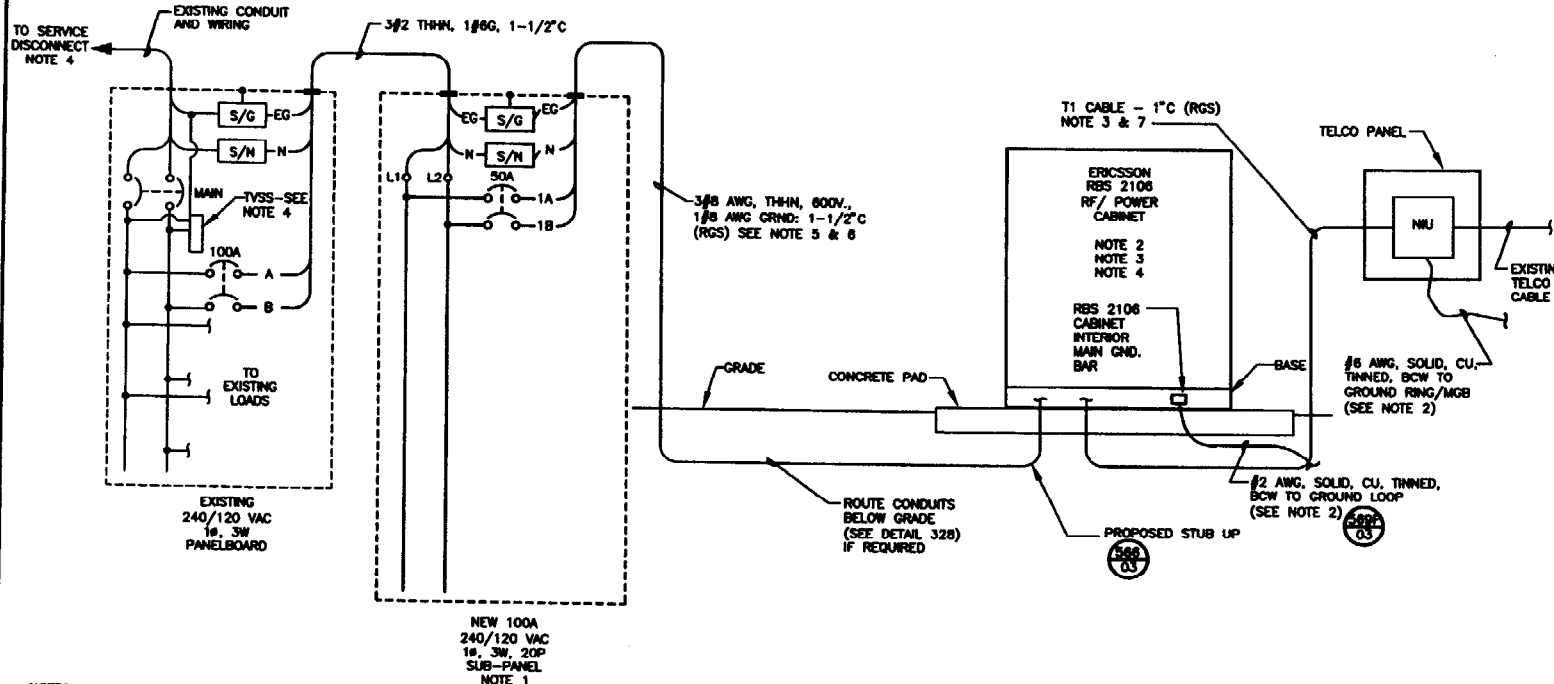
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DATE	BY	REVISION

AT&T WIRELESS
NOTES
BRADLEYS CORNER
NEW-0023-04



NOTES:

1. SUBCONTRACTOR SHALL CONFIRM THE AVAILABILITY OF POWER TO SUPPORT THE NEW LOAD. THE SUBCONTRACTOR SHALL SUBMIT TO CONTRACTOR A LOAD CALCULATION SHOWING THAT THE PANEL HAS ADEQUATE CAPACITY FOR THE ADDITIONAL LOADS. ALL EXISTING LOADS ON THE MAIN PANEL SHALL BE INCLUDED IN THE ANALYSIS. ALL ELECTRICAL WORK SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NEC AND ALL LOCAL CODES. SUBCONTRACTOR SHALL PROVIDE PADLOCK ACCESSORIES ON NEW CIRCUIT BREAKER HANDLES.

CASE #1
THE MAIN POWER PANEL HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE ADDITIONAL LOAD, BUT HAS NO SPARE BREAKERS.

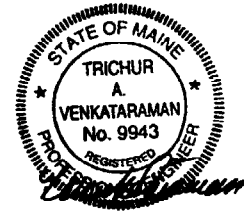
THE SUBCONTRACTOR SHALL EVALUATE THE EXISTING LOADS ON THE MAIN PANEL AND REMOVE EITHER (2) 1-P BREAKER SLOTS, OR (1) 2-P BREAKER SLOT, AND INSTALL A 2-POLE, 100-AMP., 240V BREAKER IN THE NOW OPENED UP SLOTS. FURNISH AND INSTALL A 100A, 240/120VAC, 1PH, 3W, 20-POLE PANEL BOARD (SQUARE D CLASS 1830, INQ00, OR EQUAL WITH QOB BREAKERS) ADJACENT TO THE SPACE RESERVED FOR ERICSSON 30, BTS EQUIPMENT. REINSTALL THE BREAKERS FROM THE DISCONNECTED LOAD IN THE SUB-PANEL AND DETERMINATE THE REASSIGNED LOAD. THE FEEDER SIZE FROM THE MAIN PANEL TO THE SUB-PANEL SHOULD BE 3/2 THHN, 1#6G, 1-1/2\"/>

CASE #2
THE MAIN PANEL DOES NOT HAVE ADEQUATE CAPACITY TO ACCOMMODATE THE ADDITIONAL LOAD.

THE SUBCONTRACTOR SHALL EVALUATE THE MAIN PANEL SIZE AND THE POWER SOURCE FEEDING THE PANEL TO ASCERTAIN IF THE MAIN PANEL COULD BE UPGRADED TO THE NEXT LEVEL TO ACCOMMODATE THE ADDITIONAL LOAD. THE SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR AFTER ASCERTAINING WHETHER THE EXISTING PANEL WILL BE UPGRADED OR A NEW PANEL WITH A DIFFERENT POWER SOURCE WILL BE REQUIRED. THE PANEL SPECIFICATIONS, METERING, ETC. SHALL BE AS DIRECTED BY THE CONTRACTOR. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY AS REQUIRED.

- ROUTE #2 AWG BCW EQUIPMENT GROUND CONDUCTORS TO BOTTOM OF ERICSSON CABINETS. CUT, COIL, AND TAPE TEN FOOT PIGTAIL FOR FUTURE CONNECTION BY ERICSSON. THE GROUND CONDUCTORS SHALL BE CONNECTED TO THE MGB BY USING TWO HOLE LUGS PER DETAIL 508A.
- SUBCONTRACTOR SHALL INSTALL THE T1 TRANSPORT CABLE FURNISHED BY ERICSSON. SEE DETAIL 507 FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL NEW TVSS DEVICE AT SERVICE DISCONNECT IN ACCORDANCE WITH DETAIL 506, IF NEEDED.
- CONTRACTOR SHALL COIL AND TAPE AN ADDITIONAL 5'-0\"/>

MATERIALS	MFG.	MODEL	QUANTITY	PROVIDED BY
TVSS (AC POWER)	---	PER NOTE 5 DETAIL 506	AS REQ'D.	SUBCONTRACTOR
50A, 2P, 120/240V BREAKER	---	MATCH EXISTING PANELBOARD	AS REQ'D.	SUBCONTRACTOR
CONDUIT, POWER & GROUND CONDUCTORS	TO SUIT	MATCH EXISTING CONDUIT PER DETAIL 504/04 & 502/04	TO SUIT	SUBCONTRACTOR
CABLE TRAY	---	MATCH EXISTING TRAY	AS REQ'D.	SUBCONTRACTOR
T1 CABLE AND CONNECTIONS	---	ERICSSON	AS REQ'D.	ERICSSON



DETAIL 589 BOS

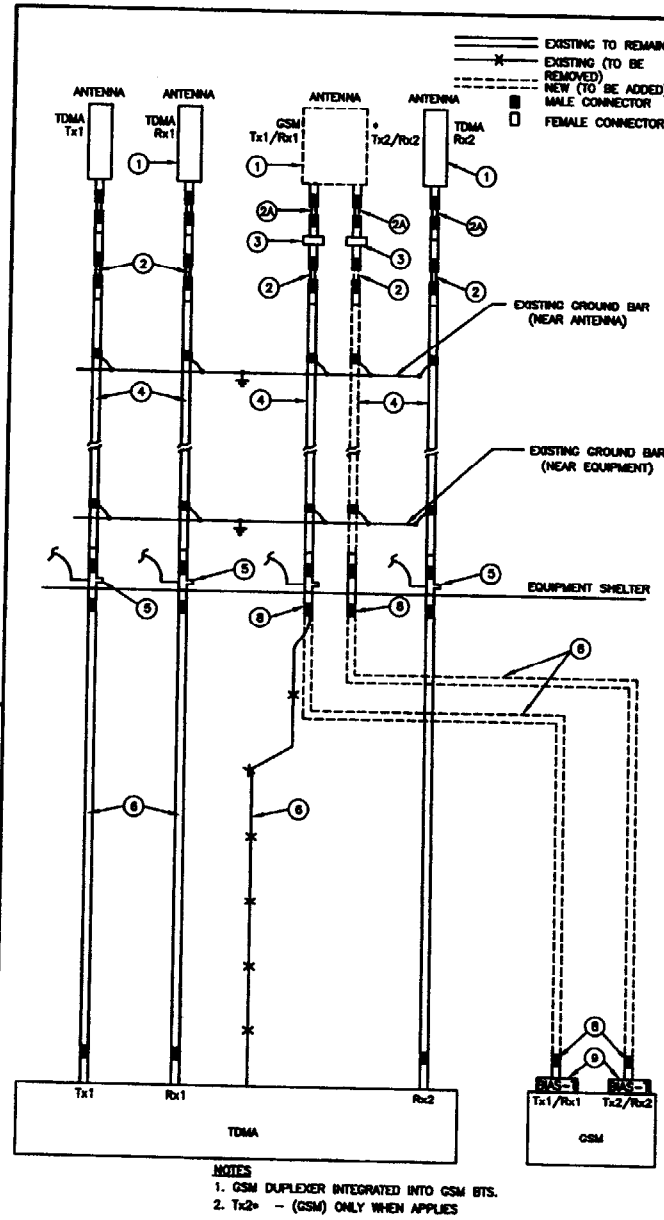
BILL OF MATERIALS RECORD DOCUMENT

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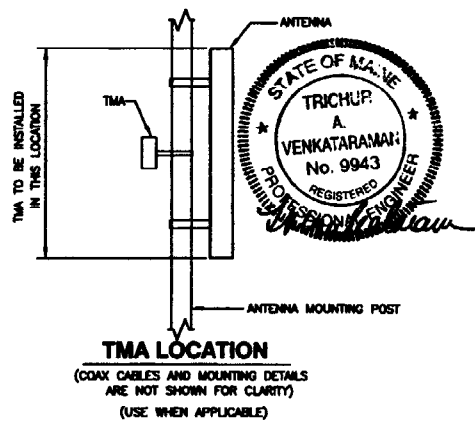
AT&T WIRELESS
 POWER AND GROUNDING SCHEMATIC
 BRADLEYS CORNER
 SHEET NO. NEW-0023-05



- NOTES
- GSM DUPLEXER INTEGRATED INTO GSM BTS.
 - Tx2* - (GSM) ONLY WHEN APPLIES

ITEM NO.	ITEM DESCRIPTION	SYL.	ALPHA SECTOR - A				ALPHA SECTOR - B				ALPHA SECTOR - C				TOTAL QUANTITY	SUPPLIED BY			
			AZIMUTH 30°				AZIMUTH 150°				AZIMUTH 270°								
			TX1	Rx1	Rx2	---	TX1	Rx1	Rx2	---	TX1	Rx1	Rx2	---			TX1/Rx1	Tx2/Rx2	---
1	ANTENNA	USE EXISTING	USE EXISTING	USE EXISTING	ALLOCON 7282.01	USE EXISTING	USE EXISTING	USE EXISTING	ALLOCON 7282.01	USE EXISTING	USE EXISTING	USE EXISTING	ALLOCON 7282.01	---	---	---	3	BECHTEL	
	MECHANICAL DOWNWILT	USE EXISTING	USE EXISTING	USE EXISTING	f	USE EXISTING	USE EXISTING	USE EXISTING	f	USE EXISTING	USE EXISTING	USE EXISTING	f	---	---	---	---	---	
2	ANTENNA JUMPER	USE EXISTING	USE EXISTING	USE EXISTING	---	USE EXISTING	USE EXISTING	USE EXISTING	---	USE EXISTING	USE EXISTING	USE EXISTING	---	---	---	---	3	BECHTEL	
3A	ANTENNA JUMPER LAA-FOUR-3 (ANDREW)	USE EXISTING	USE EXISTING	USE EXISTING	1	1	1	1	1	1	1	1	1	1	1	1	6	BECHTEL	
3	TMA WY-112-71/2 (SEE NOTE 12)	USE EXISTING	USE EXISTING	USE EXISTING	1	1	1	1	1	1	1	1	1	1	1	1	6	BECHTEL	
4	MAIN COAX	USE EXISTING	USE EXISTING	USE EXISTING	---	98 FT (7/8)	---	---	---	948 FT (1 5/8)	---	---	---	---	---	---	180 FT (7/8)	245 FT (1 5/8)	BECHTEL
5	COAX SURGE ARRESTOR (ANDREW) (SEE NOTES 1 & 2)	USE EXISTING	USE EXISTING	USE EXISTING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	BECHTEL
6	JUMPER FEM-308 (ANDREW) (SEE NOTES 3,4,5 & 6)	USE EXISTING	USE EXISTING	USE EXISTING	30 FT	30 FT	---	---	---	---	---	---	---	---	---	---	---	---	BECHTEL
7	ANTENNA SHARING KIT (ERICSSON) (SEE NOTE 7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	BECHTEL
8	UNATTACHED DIN CONNECTOR F0PDM2-C (ANDREW)	USE EXISTING	USE EXISTING	USE EXISTING	2	2	---	---	---	---	---	---	---	---	---	---	---	---	ERICSSON
9	BUS TEE (SEE NOTE 8)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ERICSSON
10	UNATTACHED CONNECTORS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	BECHTEL
	ID TAG (SEE NOTES 4, 5 & 6)	ALPHA (A1)	ALPHA (A2)	ALPHA (A3)	ALPHA (A4)	ALPHA (A5)	ALPHA (A1)	ALPHA (A2)	ALPHA (A3)	ALPHA (A4)	ALPHA (A5)	ALPHA (A1)	ALPHA (A2)	ALPHA (A3)	ALPHA (A4)	ALPHA (A5)	AS REQUIRED	---	G.C.
	COLOR CODE	SEE NOTES 4, 5 & 6					SEE NOTES 4, 5 & 6					SEE NOTES 4, 5 & 6					AS REQUIRED	G.C.	

- NOTES
- EXISTING SURGE ARRESTORS MUST PASS 25 VOLT DC TEST. IF IT FAILS THE TEST, THEN REMOVE AND DO NOT REPLACE SURGE ARRESTOR.
 - CABLE SHIELDS, AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER, WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF TOWERS THAT ARE BETWEEN 150 FEET AND 300 FEET HIGH, AND AT INTERVALS OF 150 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 300 FEET.
 - SUBCONTRACTOR SHALL VERIFY THE REQUIRED LENGTH IN FIELD BEFORE CUTTING THE JUMPER AND ATTACHING THE UNATTACHED CONNECTORS. THE CONNECTIONS TO GSM BTS WILL BE MADE BY ERICSSON.
 - FOLLOW THE EXISTING SCHEME FOR COLOR CODING AND CABLE TAGGING NEW JUMPERS WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
 - EXISTING ANTENNAS AND/OR TOP JUMPERS ARE NOT MODIFIED OR REPLACED
 - NO WORK OF ANY KIND IS PERFORMED AT OR NEAR THE ANTENNA END(S) OF EXISTING MAIN FEEDLINE(S)
 - NO WORK IS PERFORMED ON EXISTING MAIN FEEDLINE COMPONENTS SUCH AS CONNECTORS, GROUND KITS, CABLE SUPPORTS, WEATHERPROOFING, ETC.
 - FOLLOW STANDARD DETAIL 800 AND THE AWS DOCUMENT NO. WNS-00217, REVISION 1.2, TOWER/ANTENNA CABLE MARKING GUIDELINE FOR COLOR CODING AND TAGGING ALL (TDMA AND GSM) COAX CABLES WHEN ANY OF THE FOLLOWING CONDITIONS ARE MET:
 - EXISTING ANTENNAS ARE MODIFIED OR REPLACED
 - WORK OF ANY KIND IS PERFORMED AT OR NEAR THE ANTENNA END(S) OF EXISTING MAIN FEEDLINE(S).
 - MAIN FEEDLINE COMPONENTS SUCH AS CONNECTORS, GROUND KITS, CABLE SUPPORTS, WEATHERPROOFING, ETC. ARE INSTALLED, MODIFIED OR REPLACED.
 - COMPLETE A CABLE PORT DIAGRAM PER DETAIL 801 AND POST ONE COMPLETED COPY AND TWO BLANK COPIES OF THE DIAGRAM IN A PROTECTIVE PLASTIC SLEEVE IN THE SHELTER.
 - USE THE REQUIRED LENGTH OF JUMPERS DEPENDING UPON FIELD CONDITIONS. THE END CONNECTIONS WILL BE MADE BY ERICSSON.
 - BIAS TEE IS REQUIRED WHEN A TMA IS INSTALLED. IT IS BUILT INTO THE BTS CABINET.
 - ALL FEEDER LINE AND JUMPER CONNECTORS FOR 30 GSM SHALL BE 7/16 DIN STANDARD CABLE CONNECTORS.
 - WHEN MODIFYING EXISTING 20 TDMA COAXIAL CABLES AND ANTENNAS, REMOVE ALL EXISTING N TYPE CONNECTORS AND REPLACE WITH NEW 7/16 DIN STANDARD CONNECTORS.
 - ANTENNA CIRCUIT SWEEP TESTING SHALL BE PERFORMED AND REPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF AWS PROCEDURE DOCUMENT NO. WNS-00284, LATEST REVISION. CONTRACTOR WILL NOT ACCEPT A RADIO SIGNAL CABLE INSTALLATION WITH UNSATISFACTORY SWEEP TEST RESULTS.
 12. MOUNT TMA BEHIND THE ANTENNA ON THE ANTENNA MOUNTING POST SO THAT THE TMA IS FULLY SHIELDED BY THE ANTENNA AS SHOWN IN THE TMA LOCATION DETAIL ON THIS SHEET. IF IT IS NOT POSSIBLE, NOTIFY THE CONTRACTOR IMMEDIATELY FOR DIRECTION.



DETAIL 505 BOS

RECORD DRAWING

NOTE: THE DESIGN IS BASED ON RF DATA SHEET REV 2 APPROVED 01/30/02
RF BILL OF MATERIALS

BAY STATE DESIGN
 Bay State Design Associates, Inc.
 Architects - Engineers
 70 Tower Office Park
 Woburn, MA 01801
 Phone: 781-932-2467
 Fax: 781-932-9771

BRADLEYS CORNER
 SITE NO. NEW-0023
 1050 WESTBROOK STREET
 PORTLAND, ME 04102

AT&T
 AT&T WIRELESS SERVICES, INC.
 400 BLUE HILL DRIVE, SUITE 140
 PORTLAND, ME 04102

DATE: 01/30/02	DESIGNED BY: [Signature]	CHECKED BY: [Signature]
SCALE: AS SHOWN	DESIGNED BY: [Signature]	CHECKED BY: [Signature]

AT&T WIRELESS
 ANTENNA SCHEMATIC & BILL OF MATERIALS
 BRADLEYS CORNER
 SHEET NO. NEW-0023-06

6

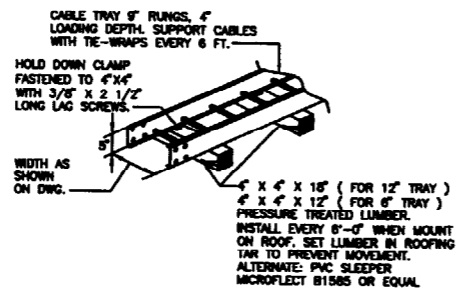
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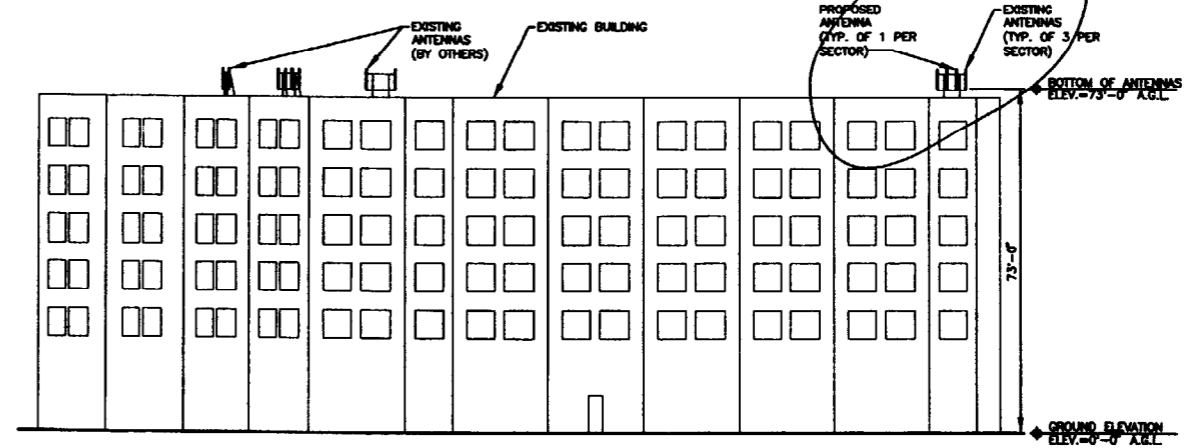
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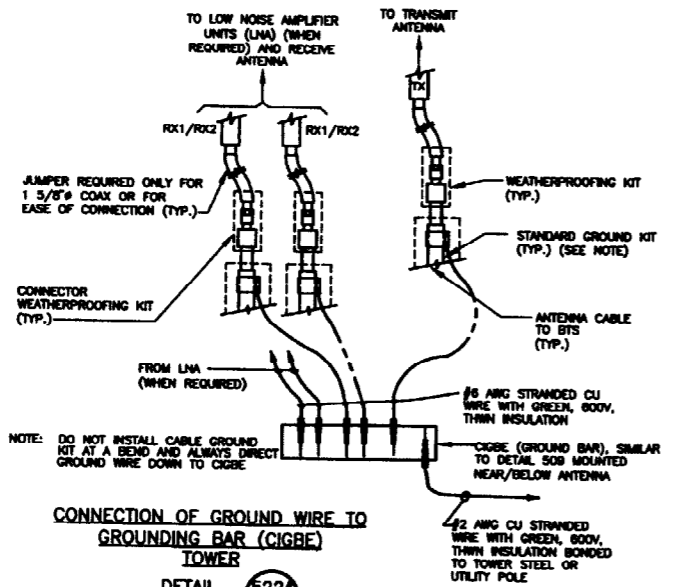
OPTION: USE MICROFLECT ROOF MOUNTED BRIDGE KITS CONSISTING OF SLEEPER AND COVER.

NOTE: WHEN CABLE TRAY COVERS ARE SPECIFIED, THEY SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION PROCEDURES AND INSTRUCTIONS FOR "HIGH WIND CONDITIONS". THIS INCLUDES CONNECTOR TYPE AND SPACINGS.

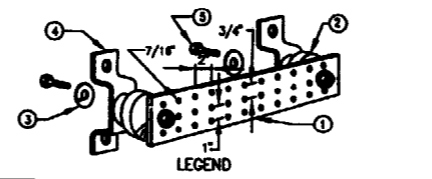
ROOF MOUNTED CABLE TRAY DETAIL
 SCALE: NTS (3)



BUILDING ELEVATION
 SCALE: NTS (1)

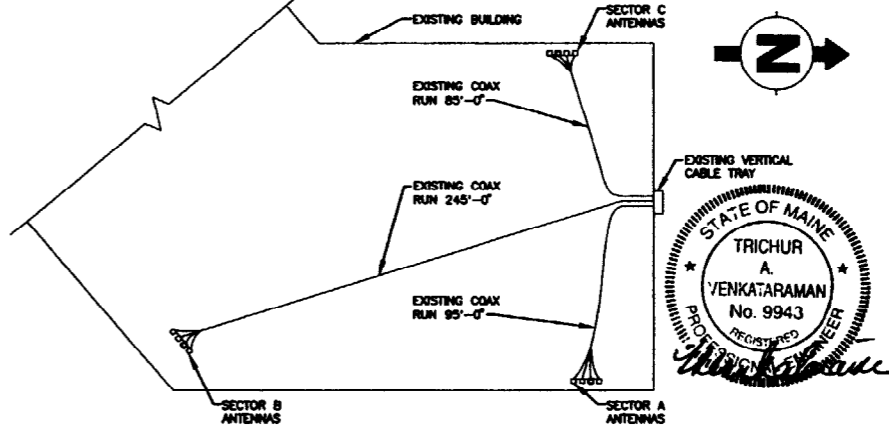


CONNECTION OF GROUND WIRE TO GROUNDING BAR (CIGBE) TOWER
 DETAIL 522A (BOS)



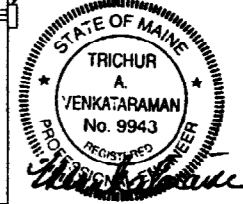
- 1- COPPER GROUND BAR, 3/4" X 4" X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- 2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
- 3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
- 4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-8056
- 5- 5/8-11 X 1 1/4" HMC BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1

GROUND BAR DETAIL
 DETAIL 509



ROOFTOP PLAN
 SCALE: NTS (2)

- NOTES
1. USE EXISTING ROOF TOP CABLE TRAY IF IT HAS ADEQUATE SPACE TO ROUTE THE PROPOSED COAX CABLES. IF THE EXISTING TRAY HAS INSUFFICIENT SPACE, INSTALL 8" TRAY (SEE ROOF MOUNTED CABLE TRAY DETAIL ON THIS SHEET) TO ACCOMMODATE PROPOSED 3 COAX CABLES. GROUND THE PROPOSED CABLES AT THE ANTENNA LOCATIONS AND AT THE RES. CABINET. ROUTE THE PROPOSED CABLES ALONG THE ROUTE OF THE EXISTING CABLES TO THE OUTDOOR RES. CABINET LOCATED AT GROUND LEVEL.
 2. ALL NEW EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING STRUCTURE.



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 WINDSOR, MA 01095

NO.	DATE	REVISIONS	BY	CHK	APP'D

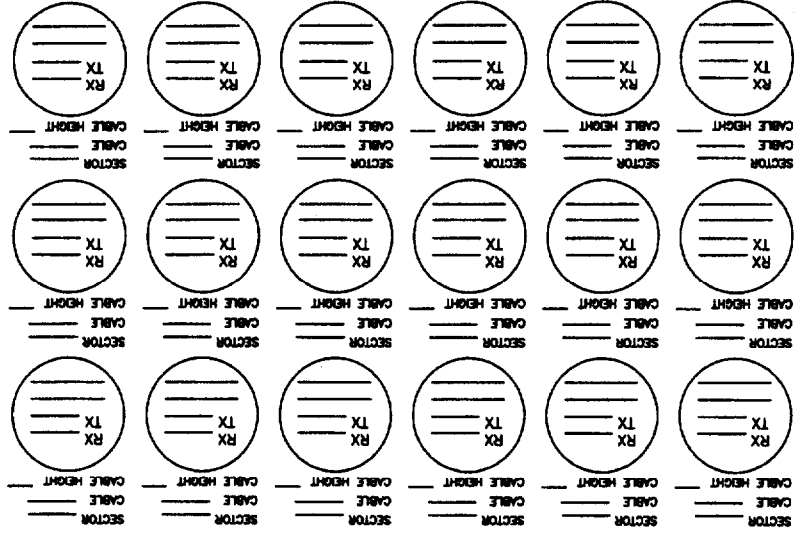
RECORD DOCUMENT

AT&T WIRELESS
 ANTENNA ELEVATION & DETAILS
 BRADLEYS CORNER

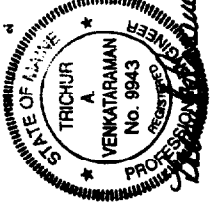
DATE: 07/17/02
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 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

NEW-0023-07

RECEIVED
SEP 23 2007



DESIGNERS / ENGINEERS NOTE:
CABLE PORT DIAGRAM WILL BE APPLIED TO THE INTERIOR SHELTER WALL NEAR THE CABLE ENTRY PORT TO AS IN CABLE IDENTIFICATION. THE CHART IS INTENDED TO BE USED TO RECORD THE FUNCTION (RX, TX, ETC.) OF EACH ANTENNA AND RF CABLE AT THE TIME OF INSTALLATION.
2. ONE COMPLETED COPY PLUS TWO BLANK COPIES OF THE CHART SHOULD BE POSTED IN THE SHELTER IN A PROTECTIVE PLASTIC SLEEVE.



RECORDED COPY

DETAIL 601 NTS

AT&T WIRELESS
COAX CABLE COLOR CODING & TAGGING DETAILS
BRADLEY'S CORNER
NEW-0023-08

NO.	DATE	ISSUED FOR	REVISIONS	ISSUED BY	DESIGNED BY	CHECKED BY
1						

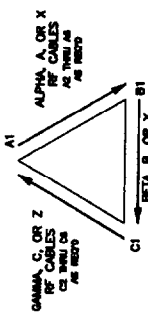


BRADLEY'S CORNER
SITE NO. NEW-0023
1080 WESTBROOK STREET
PORTLAND, ME 04102



DETAIL 600 BOS NTS

CABLE PORT DIAGRAM
CAUTION: HARMFUL RF ENERGY EXISTS ON THESE LINES



NOTE:
SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION TO REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SPECIFIC SITE TO DETERMINE THE SECTOR ORIENTATION.
ANTENNA SECTOR AND CABLE DEFINITION

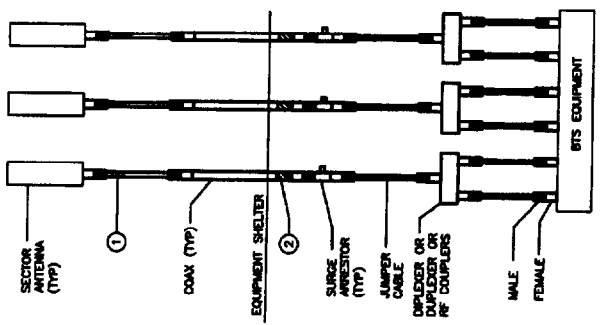
SECTOR	CABLE	CABLE	CABLE	CABLE	CABLE	CABLE	CABLE
ALPHA A, X	ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN
	RED	RED	RED	RED	RED	RED	RED
	CABLE A1	CABLE A2	CABLE A3	CABLE A4	CABLE A5	CABLE A6	CABLE A7
BETA B, Y	ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN
	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE
	CABLE B1	CABLE B2	CABLE B3	CABLE B4	CABLE B5	CABLE B6	CABLE B7
GAMMA C, Z	ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN
	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN
	CABLE C1	CABLE C2	CABLE C3	CABLE C4	CABLE C5	CABLE C6	CABLE C7
DELTA D, W	ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN
	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
	CABLE D1	CABLE D2	CABLE D3	CABLE D4	CABLE D5	CABLE D6	CABLE D7

- NOTE:
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN IN MARKING COLOR CONVENTION TABLE (EXAMPLE SECTOR ALPHA, CABLE A3 WOULD BE THREE RED BANDS).
 - THE STANDARD CABLE MARKING TAPE IS BASED ON THE "4 NEW" COLORED TAPES - RED, BLUE, GREEN AND YELLOW.
 - ON EXISTING SITE THE COLOR CODING SHALL FOLLOW THE EXISTING MARKET COLOR CODING.
 - IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR MARKING TAGS, THE COAXIAL CABLES THE GUIDELINE IS TO BE IMPLEMENTED AT THE SITE REGARDLESS OF TECHNOLOGY.



TDMA LINE TAG
GSM LINE TAG
CABLE MARKING TAGS

TO PROVIDE ADDITIONAL IDENTIFICATION EACH RF CABLE SHALL BE IDENTIFIED WITH THE NAME OF STAINLESS STEEL OR BRASS AND STAMPED WITH THE SECTOR, CABLE NUMBER AND CABLE IDENTIFICATION TAGS TO IDENTIFY WIRELESS CABLES. THE ID MARKING LOCATIONS LISTED IN THE CABLE MARKING LOCATIONS TABLE. THE TAG SHOULD BE ATTACHED WITH COAXIAL TAPE AROUND THE CABLE. PREFERRED TAG LABELING SHOULD BE AS SHOWN ABOVE "TDMA LINE TAG" AND "GSM LINE TAG".



CABLE MARKING LOCATIONS DIAGRAM

ALL RF CABLE SHALL BE MARKED AS PER CABLE MARKING LOCATIONS TABLE BELOW:

NO.	TAPE TAG	LOCATIONS
1.	X	END OF THE MAIN COAX RUN WHERE THE COAXIAL CABLE IS CONNECTED TO THE ANTENNA ARE CONNECTED.
2.	X X	CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER.